Aasta tehnikaüliõpilane 2021 on Karolina Kudelina
Vaimann, Toomas Meie Leht 2021 / lk. 4 http://narva-joesuu.ee/documents/2032926/30038466/Meie_Leht_DETSEMBER_2021_EST.pdf/6812d56d-dce2-4684-87ee-72639332075f

AC losses analysis approaches for electric vehicle motors with hairpin winding configuration
Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; Marques Cardoso, Antonio J.; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas** IECON 2021 - 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-4 : ill https://doi.org/10.1109/IECON48115.2021.9589339 Conference Proceedings at Scopus Article at Scopus Article at WOS

AC magnetic loss reduction of SLM processed Fe-Si for additive manufacturing of electrical machines
Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Tarraste, Marek**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Asad, Bilal**; **Ghahfarokhi, Payam Shams** Energies 2021 / 13 p. : ill https://doi.org/10.3390/en14051241 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

ADCS development for student CubeSat satellites - TalTech case study
Rassõlkin, Anton; **Vaimann, Toomas**; **Org, Peeter**; **Leibak, Alar**; **Gordon, Rauno**; **Priidel, Eiko** Proceedings of the Estonian Academy of Sciences 2021 / p. 268-285 : ill https://doi.org/10.3176/proc.2021.3.06 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Additive design possibilities of electrical machines
Kallaste, Ants; **Vaimann, Toomas**; **Rassõlkin, Anton** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill https://doi.org/10.1109/RTUCON.2018.8659828

Additive Manufacturing and Performance of E-Type Transformer Core
Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Ghahfarokhi, Payam Shams** Energies 2021 / art. 3278 https://doi.org/10.3390/en14113278 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Additive manufacturing of electrical machines - towards the industrial use of a novel technology
Vaimann, Toomas; **Kallaste, Ants** Energies 2023 / art. 544 https://doi.org/10.3390/en16010544 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Additive manufacturing of prototype axial flux switched reluctance electrical machine
Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 4 p. : ill https://doi.org/10.1109/IWED52055.2021.9376337

Additively manufactured and topology optimized heatsink for a propulsion motor
Sarap, Martin; **Kallaste, Ants**; **Vaimann, Toomas**; Ghahfarokhi, Payam Shams 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p https://doi.org/10.1109/ICEM60801.2024.10700108

Adjusted electrical equivalent circuit model of induction motor with broken rotor bars
Rassõlkin, Anton; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; Petrov, Aleksei; Plokhov, Igor; Kotelnikov, Aleksandr PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 213-218 : ill https://doi.org/10.1109/PQ.2016.7724115

Adjusted electrical equivalent circuit model of induction motor with broken rotor bars and eccentricity faults
Petrov, Aleksei; Plokhov, Igor; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar** Proceeding of the 2017 IEEE 11th International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED) : [Tinos (Greece), August 29 - September 01, 2017] 2017 / p. 58-64 : ill https://doi.org/10.1109/DEMPED.2017.8062334

An advanced diagnostic approach for broken rotor bar detection and classification in DTC controlled induction motors by leveraging dynamic SHAP interaction feature selection (DSHAP-IFS) GBDT methodology
Khan, Muhammad Amir; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants** Machines 2024 / art. 495 https://doi.org/10.3390/machines12070495 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Advances in machine fault diagnosis
Vaimann, Toomas Applied sciences 2021 / art. 7348, 5 p https://doi.org/10.3390/app11167348 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Advances in machine fault diagnosis
2022 https://doi.org/10.3390/books978-3-0365-5110-4

Advances in machine fault diagnosis
Vaimann, Toomas Advances in machine fault diagnosis 2022 / p. 1-5 https://doi.org/10.3390/app11167348

Aeglasekäiguline otsetoimeline püsimagnetgeneraator tuuleagregaatidele
Kallaste, Ants; **Vaimann, Toomas**; **Pabut, Ott** Taastuvate energiaallikate uurimine ja kasutamine : neljateistkümnenda konverentsi kogumik = Investigation and Usage of Renewable Energy Sources : fourteenth conference proceedings : [8. nov. 2012, Tartu] 2012 / lk. 68-77 : ill

Air-gap eccentricity analysis of slow-speed slotless permanent magnet synchronous generator
Kangro, Rait; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 225-228 : ill

Alusteaduste aastale pandi punkt
Vaimann, Toomas; **Abner, Erik** Eesti Teaduste Akadeemia sõnas ja pildis 2023 2024 / lk. 65-67 : fot
https://www.ester.ee/record=b5054043*est

Analysis of a slow-speed slotless permanent magnet synchronous generator
Tuttelberg, Kaur; **Vaimann, Toomas**; **Kallaste, Ants** 4th International Youth Conference on Energy 2013 : [proceedings] 2013 / p. 1-5 : ill

Analysis of a three-phase induction motor using the dynamic state space model
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar** 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 65-69 : ill
http://ise.elnet.ee/record=b2950017~S2*est

Analysis of advanced passive heatsinks for electrical machines enabled by additive manufacturing
Sarap, Martin; **Kallaste, Ants**; **Ghahfarokhi, Payam Shams**; **Vaimann, Toomas** 2023 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings 2023 / 6 p. : ill https://doi.org/10.1109/WEMDCD55819.2023.10110940

Analysis of common mode and rapidly varying voltage profile on stator current harmonics of an inverter-fed induction motor
Sardar, Muhammad Usman; **Vaimann, Toomas**; **Kütt, Lauri**; **Kallaste, Ants**; **Asad, Bilal**; **Kudelina, Karolina**; **Akbar, Siddique** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p. : ill https://doi.org/10.1109/RTUCON60080.2023.10413067

Analysis of mechanical vibrations caused by eccentricity in a slow-speed slotless permanent magnet generator
Tiirats, Tauno; **Pabut, Ott**; **Kallaste, Ants**; **Herranen, Henrik**; **Naar, Hendrik**; **Vaimann, Toomas** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 237-241 : ill

Analysis of off-grid power supply for sparsley populated areas
Vaimann, Toomas; **Janson, Kuno**; **Bolgov, Viktor**; **Kallaste, Ants** 14th International Scientific Conference Electric Power Engineering 2013 : EPE 2013 : [proceedings] 2013 / p. 175-179 : ill

Analysis of possible faults and diagnostic methods of the Cartesian industrial robot
Autsou, Siarhei; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kudelina, Karolina** Proceedings of the Estonian Academy of Sciences 2022 / p. 227-24 : ill https://doi.org/10.3176/proc.2022.3.04 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analysis of the eccentricity in a low-speed slotless permanent-magnet wind generator
Kallaste, Ants; **Belahcen, Anouar**; **Kilk, Aleksander**; **Vaimann, Toomas** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 47-52 : ill
https://ieeexplore.ieee.org/document/6256199

Analysis of the local and global forces acting on the coil structure of a modular slotless permanent magnet generator
Kallaste, Ants; **Vaimann, Toomas**; **Belahcen, Anouar**; **Shams Ghahfarokhi, Payam**; **Rassõlkin, Anton** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 9-14 : ill https://doi.org/10.2478/ecce-2019-0002

Analytical modelling of synchronous reluctance motor including non-linear magnetic condition
Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** IET electric power applications 2022 / p. 511-524 https://doi.org/10.1049/elp2.12172 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analytical thermal model and flow network analysis suitable for open self-ventilated machines
Shams Ghahfarokhi, Payam; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas** IET Electric Power Applications 2020 / p. 929-936 : ill https://doi.org/10.1049/iet-epa.2019.1020 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Artificial intelligence driven approaches for fault prognostics of electrical machines using vibration spectrum analysis =

Tehisintellektil põhinevad lähenemisviisid elektrimasinate rikete prognoosimiseks vibratsioonispektri analüüsi abil
Kudelina, Karolina 2024 https://www.ester.ee/record=b5685285*est https://doi.org/10.23658/taltech.28/2024 https://digikogu.taltech.ee/et/Item/229f1bbb-6178-414a-9e2e-2c98a30a783c

Artificial intelligence in monitoring and diagnostics of electrical energy conversion systems
Vaimann, Toomas; **Rassõlkin, Anton**; **Kallaste, Ants**; Pomarnacki, Raimondas; **Belahcen, Anouar**; Van Khang, Hyunh 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 4 p https://doi.org/10.1109/IWED48848.2020.9069566

Artificial Intelligence-Based Predictive Analytics for Battery Energy Storage Systems in Electric Vehicle Applications = Tehisintellektil põhinev ennustav andmeanalüüs akupõhiste energiasalvestussüsteemide jaoks elektrisõidukites
Zequera, Rolando Antonio Gilbert 2025 https://www.ester.ee/record=b5758189*est https://digikogu.taltech.ee/et/Item/7ecb1e38-a591-47c5-b37e-7c2e901d05f1 https://doi.org/10.23658/taltech.61/2025

Axial synchronous magnetic coupling modeling and printing with selective laser melting
Tiismus, Hans; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 4 p. : ill https://doi.org/10.1109/RTUCON48111.2019.8982344

Axially asymmetric design for additive manufacturing of synchronous reluctance machines
Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 5 p https://doi.org/10.1109/IEMDC55163.2023.10238995

Bearing fault analysis of BLDC motor for electric scooter application
Kudelina, Karolina; **Asad, Bilal**; **Vaimann, Toomas**; **Belahcen, Anouar**; **Rassõlkin, Anton**; **Kallaste, Ants**; Lukichev, Dmitry Designs 2020 / art. 42, 18 p. : ill https://doi.org/10.3390/designs4040042 Journal metrics at Scopus Article at Scopus

Bearing fault analysis of BLDC motor intended for electric scooter application
Kudelina, Karolina; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** 2021 IEEE 13th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED) 2021 / p. 427-432 https://doi.org/10.1109/SDEMPED51010.2021.9605519

The bearing faults detection methods for electrical machines — the state of the art
Khan, Muhammad Amir; **Asad, Bilal**; **Kudelina, Karolina**; **Vaimann, Toomas**; **Kallaste, Ants** Energies 2023 / art. 296 https://doi.org/10.3390/en16010296 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Broken rotor bar fault detection of the grid and inverter-fed induction motor by effective attenuation of the fundamental component
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Iqbal, Muhammad Naveed** IET electric power applications 2019 / p. 2005–2014 https://doi.org/10.1049/iet-epa.2019.0350 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Broken rotor bar fault detection using machine learning: Optimal frequency resolution
Koveshnikov, Semen; Bouharrouti, Nada El; **Kudelina, Karolina**; **Naseer, Muhammad Usman**; **Vaimann, Toomas**; Belahcen, Anouar 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p https://doi.org/10.1109/ICEM60801.2024.10700228

Broken rotor bar fault diagnostic of inverter fed induction motor using FFT, Hilbert and Park's vector approach
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 2352-2358 : ill https://doi.org/10.1109/ICELMACH.2018.8506957

Calculation of the traction effort of ISEAUTO self-driving vehicle
Rassõlkin, Anton; **Gevorkov, Levon**; **Vaimann, Toomas**; **Kallaste, Ants**; **Sell, Raivo** 2018 25th International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2018 / p. 1-5 : ill https://doi.org/10.1109/IWED.2018.8321397

Challenges of additive manufacturing of electrical machines
Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Rassõlkin, Anton**; **Vaimann, Toomas** 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED), 27-30 Aug. 2019, Toulouse, France : proceedings 2019 / p. 44-48 : ill https://doi.org/10.1109/DEMPED.2019.8864850

Changing of magnetic flux density distribution in a squirrel-cage induction motor with broken rotor bars
Vaimann, Toomas; **Belahcen, Anouar**; **Kallaste, Ants** Elektronika ir elektrotechnika = Electronics and electrical engineering 2014 / p. 11-14 : ill https://doi.org/10.5755/j01.eee.20.7.8018 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Characterization of high-frequency impedance-based models for transient terminal overvoltage estimation in cable-fed motor drive systems

Sardar, Muhammad Usman; **Vaimann, Toomas**; **Kütt, Lauri**; **Asad, Bilal**; **Kallaste, Ants**; **Kudelina, Karolina** 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p https://doi.org/10.1109/ICEM60801.2024.10700495

Charge Diagnostics and State Estimation of Battery Energy Storage Systems Through Transformer Models
Zequera, Rolando Antonio Gilbert; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** IEEE Access 2025 / p. 17733–17744 : ill https://doi.org//10.1109/ACCESS.2025.3532858

Clustering and outlier analysis for key performance indicators in battery energy storage systems applications
Zequera, Rolando Antonio Gilbert; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227417

Comparative analysis of wind generator energy efficiency based on machine design
Kallaste, Ants; **Vaimann, Toomas**; **Kilk, Aleksander**; **Belahcen, Anouar** 2014 55th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings 2014 / p. 9-12 : ill

Comparative simulation study of pump system efficiency driven by induction and synchronous reluctance motors
Gevorkov, Levon; Dominguez-Garcia, Jose Luis; **Rassõlkin, Anton**; **Vaimann, Toomas** Energies 2022 / art. 4068 https://doi.org/10.3390/en15114068 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative Study of Advanced Heatsink Structures for Improved Thermal Performance in Axial Flux Motors
Sarap, Martin; Singh, Shalini; **Kallaste, Ants**; Qureshi, Ahmed Jawad; **Tiismus, Hans**; **Vaimann, Toomas**; Ghahfarokhi, Payam Shams IEEE Access 2025 / p. 100850-100860 https://doi.org/10.1109/ACCESS.2025.3577289

Comparative study of field-oriented control model in application for induction and synchronous reluctance motors for life-cycle analysis
Autsou, Siarhei; Saroka, Viktor; Karpovich, Dzmitry; **Rassõlkin, Anton**; **Gevorkov, Levon**; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar**; Rassõlkin, Anton 2018 25th International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2018 / p. 1-5 : ill https://doi.org/10.1109/IWED.2018.8321371

Comparative study of slow-speed slotless synchronous generator using SmCo and NdFeB permanent magnets
Korn, Norman; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p 247-250 : ill

Comparison of synchronous reluctance machine and permanent magnet-assisted synchronous reluctance machine performance characteristics
Heidari, Hamidreza; **Andriushchenko, Ekaterina**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Demidova, Galina** 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 5 p. : ill https://doi.org/10.1109/IWED48848.2020.9069583

A comparison of the vector control of synchronous reluctance motor and permanent magnet-assisted synchronous reluctance motor
Heidari, Hamidreza; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Andriushchenko, Ekaterina**; **Belahcen, Anouar**; Razzaghi, Arash 2021 XVIII International Scientific Technical Conference Alternating Current Electric Drives (ACED) : proceedings 2021 / 6 p. : ill https://doi.org/10.1109/ACED50605.2021.9462265

Compliance testing concept of grid-connected inverter-based resources using simulated input
Dvoracek, Jiri; Drapela, Jiri; Moravek, Jan; Vojtek, Martin; Toman, Petr; **Rassõlkin, Anton**; **Vaimann, Toomas** 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / p. 1-6 https://doi.org/10.1109/EPE58302.2023.10149232

Components selection of local power supply system for sparsley populated areas
Kallaste, Ants; **Vaimann, Toomas**; **Janson, Kuno**; **Bolgov, Viktor** 14th International Scientific Conference Electric Power Engineering 2013 : EPE 2013 : [proceedings] 2013 / p. 181-186 : ill

Comprehensive computations of the response of faulty cage induction machines
Belahcen, Anouar; Martinez, Javier; **Vaimann, Toomas** Proceedings of the 2014 International Conference on Electrical Machines (ICEM) 2014 / p. 1504-1509 : ill

Comprehensive Diagnostic Assessment of Inverter Failures in a Utility-Scale Solar Power Plant : A Case Study Based on Field and Laboratory Validation
Kull, Karl; **Asad, Bilal**; **Naseer, Muhammad Usman**; **Kallaste, Ants**; **Vaimann, Toomas** Sensors 2025 / art. 3717 https://doi.org/10.3390/s25123717

Computation of stator vibration of an induction motor using nodal magnetic forces [Online resource]
Sathyan, Sabin; **Belahcen, Anouar**; Kataja, Juhani; **Vaimann, Toomas**; Sobra, Jan 2016 XXII International Conference on Electrical Machines (ICEM) : SwissTech Convention Center, Lausanne, Switzerland, 04-07 September, 2016 : proceedings 2016 / p. 2198-

2203 : ill https://doi.org/10.1109/ICELMACH.2016.7732827

Concept of the test Bench for electrical vehicle propulsion drive data acquisition
Rassõlkin, Anton; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants**; **Kuts, Vladimir** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 35-42 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249078

Concepts of additively manufactured electrical machines and components
Vaimann, Toomas; **Tiismus, Hans**; **Kallaste, Ants** 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 6 p https://doi.org/10.1109/EPE58302.2023.10149252

Conceptual modelling of an EV-permanent magnet synchronous motor digital twin
Mohamed, Mahmoud Ibrahim Hassanin; **Rjabtšikov, Viktor**; **Jegorov, Sergei**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 156-160 https://doi.org/10.1109/PEMC51159.2022.9962943

Conceptual test bench for small class unmanned autonomous vehicle performance estimation
Pütsep, Kristjan; **Rassõlkin, Anton**; **Vaimann, Toomas** 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 695-698 : ill https://doi.org/10.1109/PEMC48073.2021.9432509

Condition monitoring and fault detection for electrical machines using IOT
Raja, Hadi Ashraf; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** Proceedings of the Future Technologies Conference (FTC) 2022. Volume 2 2023 / p. 162-173 https://doi.org/10.1007/978-3-031-18458-1_12 Conference proceedings at Scopus Article at Scopus

Condition monitoring of a Cartesian robot with a mechanically damaged gear to create a fuzzy logic control and diagnosis algorithm
Autsou, Siarhei; **Kudelina, Karolina**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** Applied sciences 2024 / art. 4241 https://doi.org/10.3390/app14104241 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Condition monitoring of electrical machines
Vaimann, Toomas; **Kallaste, Ants** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 209-212 : ill

Condition monitoring of electrical machines and its relation to industrial internet
Belahcen, Anouar; Gyftakis, Konstantinos N.; Martinez, Javier; Climente-Alarcon, Vicente; **Vaimann, Toomas** 2015 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings : Castello del Valentino, Torino, Italy, 26-27 March, 2015 2015 / p. 233-241 : ill http://dx.doi.org/10.1109/WEMDCD.2015.7194535

Condition monitoring of electrical machines and its relation to IoT
Vaimann, Toomas 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 55-56 : ill https://www.ester.ee/record=b5183874*est

Control challenges of 3D printed switched reluctance motor
Rassõlkin, Anton; **Kallaste, Ants**; **Vaimann, Toomas**; **Tiismus, Hans** 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (IWED) : Moscow Power Engineering Institute, Moscow, Russia 30th of January - 02nd of February 2019 : proceedings 2019 / 5 p. : ill https://doi.org/10.1109/IWED.2019.8664282

Converter state-space model estimation using dynamic mode decomposition
Suskis, Pavels; Zakis, Janis; Suzdalenko, Alexander; Khang, Huynh Van; **Rassõlkin, Anton**; **Vaimann, Toomas**; Pomarnacki, Raimondas 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / 5 l https://doi.org/10.1109/ENERGYCON53164.2022.9830201

Corrections to "Opportunities and Challenges of Utilizing Additive Manufacturing Approaches in Thermal Management of Electrical Machines"
Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; **Kallaste, Ants**; Marques Cardoso, Antonio J.; **Belahcen, Anouar**; **Vaimann, Toomas**; **Tiismus, Hans**; **Asad, Bilal** IEEE Access 2021 / p. 62532 https://doi.org/10.1109/ACCESS.2021.3074827 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Cost efficiency analysis of slow-speed slotless permanent magnet synchronous generator using different magnetic materials
Laurit, Sten; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 221-224 : ill

Cost-efficient real-time condition monitoring and fault diagnostics system for BLDC motor using IoT and Machine

learning
Raja, Hadi Ashraf; **Raval, Hardik**; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Belahcen, Anouar** Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : conference proceedings 2022 / 4 p. https://doi.org/10.1109/Diagnostika55131.2022.9905102

A current spectrum-based algorithm for fault detection of electrical machines using low-power data acquisition devices
Asad, Bilal; **Raja, Hadi Ashraf**; **Vaimann, Toomas**; **Kallaste, Ants**; Pomarnacki, Raimondas; Hyunh, Van Khang Electronics 2023 / art. 1746 https://doi.org/10.3390/electronics12071746 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Curricula reforms through structural reforms
Vaimann, Toomas; **Rassõlkin, Anton**; **Palu, Ivo** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 1-5 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249084

Curved Airgap Topology : A Promising Strategy for Enhancing Axial-Flux Machine Performance Metrics
Naseer, Muhammad Usman; **Kallaste, Ants**; **Vaimann, Toomas**; **Asad, Bilal** International Conference on the Computation of Electromagnetic Fields (COMPUMAG) 2025

Custom simplified machine learning algorithms for fault diagnosis in electrical machines
Raja, Hadi Ashraf; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Belahcen, Anouar** Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : Conference proceedings 2022 / 4 p. https://doi.org/10.1109/Diagnostika55131.2022.9905174

Data science-based techniques for modelling and diagnostics of battery cells based on end-of-life criteria
Zequera, Rolando Antonio Gilbert; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2023 International Conference on Electrical Drives and Power Electronics (EDPE) 2023 / 6 p https://doi.org/10.1109/EDPE58625.2023.10274007

Deep Learning methodology for charging management applications in battery cells based on Neural Networks
Zequera, Rolando Antonio Gilbert; **Rjabtšikov, Viktor**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** IEEE Transactions on Intelligent Vehicles 2025 / p. 668-682 https://doi.org/10.1109/TIV.2024.3417216

Demagnetization in permanent magnet slotless generator using Halbach array
Kallaste, Ants; **Kilk, Aleksander**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Janson, Kuno** Proceedings of the 13th International Scientific Conference Electric Power Engineering 2012 : EPE 2012 : Brno. Vol. 2 2012 / p. 1053-1057 : ill https://www.researchgate.net/publication/262674411_Demagnetization_in_Permanent_Magnet_Slotless_Generator_Using_Halbach_Array

Design and modeling of contoured airgap topology for additively manufactured electrical machines = Kõverdatud õhupilu topoloogiaga kihtlisandusmeetodil valmistatud elektrimasinate projekteerimine ja modelleerimine
Naseer, Muhammad Usman 2025 https://www.ester.ee/record=b5747039*est https://doi.org/10.23658/taltech.32/2025 https://digikogu.taltech.ee/et/Item/af3abd72-6077-43be-b7ed-5fa0b3f58602

Design and optimization of permanent magnet generator with outer rotor for wind turbine application = Tuuleagregaadis kasutatava välisrootoriga püsimagnetgeneraatori projekteerimine ja optimeerimine
Kudrjavtsev, Oleg 2017 https://digi.lib.ttu.ee/i/?7662 https://www.ester.ee/record=b4671603*est

Design and performance of laser additively manufactured core induction motor
Tiismus, Hans; **Kallaste, Ants**; **Naseer, Muhammad Usman**; **Vaimann, Toomas**; **Rassõlkin, Anton** IEEE Access 2022 / p. 50137-50152 https://doi.org/10.1109/ACCESS.2022.3173317 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design and prototyping of directly driven outer rotor permanent magnet generator for small scale wind turbines [Online resource]
Vaimann, Toomas; **Kudrjavtsev, Oleg**; **Kilk, Aleksander**; **Kallaste, Ants**; **Rassõlkin, Anton** Advances in electrical and electronic engineering 2018 / p. 271-278 : ill https://doi.org/10.15598/aeee.v16i3.2698 Journal metrics at Scopus Article at Scopus

Design and resonance analysis of tubular structured dual stator linear oscillating actuator
Ahmad, Zahoor; **Kallaste, Ants**; **Vaimann, Toomas**; **Sardar, Muhammad Usman** 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p https://doi.org/10.1109/ICEM60801.2024.10700213

Design of a research laboratory drive system for a synchronous reluctance motor for vector control and performance analysis
Heidari, Hamidreza; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Andriushchenko, Ekaterina**; **Belahcen, Anouar** Inventions 2021 / art. 64, 21 p. : ill https://doi.org/10.3390/inventions6040064 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Design of an additively manufactured polymer composite electrical machine

Sarap, Martin; **Kallaste, Ants**; **Naseer, Muhammad Usman**; **Tiismus, Hans**; **Rjabtšikov, Viktor**; **Ghahfarokhi, Payam Shams**; **Vaimann, Toomas**; Aman, Alexander; Kutia, Mykhailo 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 5 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227413

Design of an additively manufactured thermal solution for an axial flux switched reluctance motor
Sarap, Martin; Singh, Shalini; **Kallaste, Ants**; Jawad Qureshi, Ahmed Jawad; **Tiismus, Hans**; **Vaimann, Toomas**; Shams Ghahfarokhi, Payam Case studies in thermal engineering 2025 / art. 105805 https://doi.org/10.1016/j.csite.2025.105805

Design of permanent magnet assisted synchronous reluctance machine
Kallaste, Ants; **Vaimann, Toomas**; **Belahcen, Anouar** Proceedings : 2014 15th International Scientific Conference on Electric Power Engineering (EPE) 2014 / p. 579-582 : ill

Design of rotors for synchronous reluctance motor : analytical treatment and optimization
Orlova, Svetlana; Pugachov, Vladislav; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe), 3-5 Sept. 2019, Genova, Italy : proceedings 2019 / 9 p. : ill https://doi.org/10.23919/EPE.2019.8914760

Design of slow-speed slotless SmCo permanent magnet synchronous generator for wind applications
Vaimann, Toomas; **Kallaste, Ants**; **Korn, Norman**; **Laurit, Sten**; **Belahcen, Anouar** Proceedings : 2014 15th International Scientific Conference on Electric Power Engineering (EPE) 2014 / p. 339-342 : ill

Design optimization methods of additively manufactured Switched Reluctance Motor = Kihtlisandustehnoloogia abil toodetud samm-mootori optimeerimise meetodid
Andriushchenko, Ekaterina 2023 https://doi.org/10.23658/taltech.16/2023 https://digikogu.taltech.ee/et/Item/382b9eea-7bd1-4140-b124-9f0b580e81bc https://www.ester.ee/record=b5558664*est

Design optimization of permanent magnet clutch
Andriushchenko, Ekaterina; **Kallaste, Ants**; **Belahcen, Anouar**; **Heidari, Hamidreza**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2020 International Conference on Electrical Machines (ICEM), 23-26 August 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 436−440 https://doi.org/10.1109/ICEM49940.2020.9270726

Design optimization of permanent magnet clutch with Ārtap framework
Andriushchenko, Ekaterina; Kaska, Jan; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassõlkin, Anton** Periodica polytechnica electrical engineering and computer science 2021 / p. 106-112 https://doi.org/10.3311/PPee.17007 Journal metrics at Scopus Article at Scopus

Design procedure and preliminary analysis for the introduction of axial asymmetry in the synchronous reluctance machines : [proceedings]
Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2023 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings 2023 / 6 p. : ill https://doi.org/10.1109/WEMDCD55819.2023.10110903

Detection of broken bars in frequency converter fed induction motor using Park's vector approach
Vaimann, Toomas; **Belahcen, Anouar**; Martinez, Javier; **Kilk, Aleksander** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 53-56 : ill https://www.researchgate.net/publication/261051228_Detection_of_broken_bars_in_frequency_converter_fed_induction_motor_using_Park's_vector_approach

Detection of broken rotor bars in three-phase squirrel-cage induction motor using fast Fourier transform
Vaimann, Toomas; **Kallaste, Ants** 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 52-56 : ill

Detection of induction motor broken bars in grid and frequency converter supply
Vaimann, Toomas; **Belahcen, Anouar**; Martinez, Javier; **Kilk, Aleksander** Riga Technical University 53rd International Scientific Conference dedicated to the 150th anniversary and the 1st Congress of World Engineers and Riga Polytechnical Institute/RTU Alumni : 11-12 October 2012, Riga, Latvija : [abstracts] 2012 / p. 112 : ill https://www.researchgate.net/publication/262674778_Detection_of_induction_motor_broken_bars_in_grid_and_frequency_converter_supply

Detection of induction motor broken bars in grid and frequency converter supply
Vaimann, Toomas; **Belahcen, Anouar**; Martinez, Javier; **Kilk, Aleksander** Przeglad elektrotechniczny 2014 / p. 90-94 : ill https://www.pe.org.pl/articles/2014/1/22.pdf Journal metrics at Scopus Article at Scopus

Determination of forced convection coefficient over a flat side of coil
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [4] p. : ill https://doi.org/10.1109/RTUCON.2017.8124759

Determination of heat transfer coefficient for the air forced cooling over a flat side of coil
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 15-20 : ill https://doi.org/10.2478/ecce-2019-0003

Determination of heat transfer coefficient from housing surface of a totally enclosed fan-cooled machine during passive cooling
Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; **Kallaste, Ants**; Cardoso, Antonio J. Marques; **Belahcen, Anouar**; **Vaimann, Toomas**; **Asad, Bilal**; **Tiismus, Hans** Machines 2021 / art. 120 https://doi.org/10.3390/machines9060120 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determination of heat transfer coefficient of finned housing of a TEFC variable speed motor
Shams Ghahfarokhi, Payam; **Kallaste, Ants**; Podgornovs, Andrejs; **Belahcen, Anouar**; **Vaimann, Toomas**; **Asad, Bilal** Electrical Engineering 2021 / p. 1009–1017 : ill https://doi.org/10.1007/s00202-020-01132-1 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determination of natural convection heat transfer coefficient over the fin side of a coil system
Shams Ghahfarokhi, Payam; **Belahcen, Anouar**; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton** International journal of heat and mass transfer 2018 / p. 677-682 : ill https://doi.org/10.1016/j.ijheatmasstransfer.2018.05.071 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Determining the thermal conductivity of additively manufactured metal specimens
Sarap, Martin; **Kallaste, Ants**; **Ghahfarokhi, Payam Shams**; **Tiismus, Hans**; **Vaimann, Toomas** 2022 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / 4 p https://doi.org/10.1109/IWED54598.2022.9722591

Development and utilization of synthetic signals for fault diagnostics of electrical machines
Raja, Hadi Ashraf; **Kudelina, Karolina**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** IEEE journal of emerging and selected topics in industrial electronics 2024 / 9 p https://doi.org/10.1109/JESTIE.2024.3395650

Development of an axial flux SRM through additive manufacturing
Hussain, Shahid; **Kallaste, Ants**; **Naseer, Muhammad Usman**; **Tiismus, Hans**; **Vaimann, Toomas** 2024 International Conference on Electrical Machines (ICEM) 2024 / 6 p https://doi.org/10.1109/ICEM60801.2024.10700569

Development of analytical thermal analysis tool for synchronous reluctance motors
Shams Ghahfarokhi, Payam; **Kallaste, Ants**; **Podgornovs, Andrejs**; **Belahcen, Anouar**; **Vaimann, Toomas** IET electric power applications 2020 / p. 1828-1836 https://doi.org/10.1049/iet-epa.2020.0237 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Diagnostic possibilities of induction motor bearing currents
Kudelina, Karolina; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Demidova, Galina**; Karpovich, Dzmitry 2021 XVIII International Scientific Technical Conference Alternating Current Electric Drives (ACED) : proceedings 2021 / 5 p. : ill https://doi.org/10.1109/ACED50605.2021.9462298

Diagnostics of induction machine rotor faults using analysis of stator signals = Asünkroonmasina rootori diagnostika staatorisignaalide uurimise meetodil
Vaimann, Toomas 2014 https://www.ester.ee/record=b4376858*est

Diagnostika säästab elektrimasinate tervist
Vaimann, Toomas; **Kilk, Aleksander** Keskkonnatehnika 2011 / 5, lk. 31-32 : ill https://artiklid.elnet.ee/record=b2426053*est

Digitaalkaksikud diagnostika rakenduseks
Vaimann, Toomas Elektriala 2023 / lk. 24-25 https://www.ester.ee/record=b1240496*est

Digital Twin as a virtual sensor for wind turbine applications
Mohamed, Mahmoud Ibrahim Hassanin; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; Zakis, Janis; Hyunh, Van Khang; Pomarnacki, Raimondas Energies 2023 / art. 6246 https://doi.org/10.3390/en16176246 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Digital twin for propulsion drive of autonomous electric vehicle
Rassõlkin, Anton; **Kuts, Vladimir**; **Kallaste, Ants**; **Vaimann, Toomas** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 4 p. : ill https://doi.org/10.1109/RTUCON48111.2019.8982326

Digital twin of an electrical motor based on empirical performance model
Rassõlkin, Anton; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants**; **Kuts, Vladimir**; Partyshev, Andriy 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 11-14 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249366

Digital twin of wind generator for modelling various turbine characteristics
Raja, Hadi Ashraf; **Autsou, Siarhei**; **Kudelina, Karolina**; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants**; Pomarnacki, Raimondas; Hyunh, Van Khang 2023 International Conference on Electrical Drives and Power Electronics (EDPE) 2023 / p. 1-5 https://doi.org/10.1109/EDPE58625.2023.10274050

Digital twin of wind generator to simulate different turbine characteristics using IoT
Raja, Hadi Ashraf; **Kudelina, Karolina**; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants**; Pomarnacki, Raimondas; Hyunh, Van Khang Proceedings of the Future Technologies Conference (FTC) 2023. Vol. 1 2023 / p. 123-132 https://doi.org/10.1007/978-3-031-47454-5_9 Conference proceedings at Scopus Article at Scopus

Digital twin service unit development for an EV induction motor fault detection
Rjabtšikov, Viktor; **Mohamed, Mahmoud Ibrahim Hassanin**; **Asad, Bilal**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; **Kuts, Vladimir**; Stepien, Mariusz; Krawczyk, Mateusz 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 5 p https://doi.org/10.1109/IEMDC55163.2023.10239085

Digital Twin service unit for AC motor stator inter-turn short circuit fault detection
Rjabtšikov, Viktor; **Rassõlkin, Anton**; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants**; **Kuts, Vladimir**; **Jegorov, Sergei**; Stępien, Mariusz; Krawczyk, Mateusz 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 https://doi.org/10.1109/IWED52055.2021.9376328

Direct conductor cooling of outer-rotor machine enabled by additive manufacturing
Sarap, Martin; **Kallaste, Ants**; **Ghahfarokhi, Payam Shams**; **Tiismus, Hans**; **Vaimann, Toomas** 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 4 p https://doi.org/10.1109/IEMDC55163.2023.10238858

Direct liquid cooling in low-power electrical machines : proof-of-concept
Lindh, Pia; Petrov, Ilya; Semken, R. Scott; **Vaimann, Toomas**; **Kallaste, Ants** IEEE transactions on energy conversion 2016 / p. 1257-1266 : ill https://doi.org/10.1109/TEC.2016.2597059 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Dispersed generation accommodation into smart grid
Vaimann, Toomas; **Niitsoo, Jaan**; **Kivipõld, Tanel** The 52nd Annual International Scientific Conference of Riga Technical University : abstract book and electronic proceedings : Latvia, Riga, 12.-14. October, 2011 2011 / p. ID-42

Distance learning in technical education on example of Estonia and Poland
Vaimann, Toomas; Stepien, Mariusz; **Rassõlkin, Anton**; **Palu, Ivo** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 285-288 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249317

Distantsõppest tehnikahariduses
Vaimann, Toomas; **Palu, Ivo** Elektriala 2020 / lk. 10-12 : portr http://www.ester.ee/record=b1240496*est

Doktorantide läbipõlemine suretab Eesti teaduse
Vaimann, Toomas postimees.ee 2025 https://arvamus.postimees.ee/8236689/toomas-vaimann-doktorantide-labipolemine-suretab-eesti-teaduse

Dynamic control system for electric motor drive testing on the test bench
Rassõlkin, Anton; **Kallaste, Ants**; **Vaimann, Toomas** 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 252-257 : ill http://dx.doi.org/10.1109/CPE.2015.7231082

Dynamic modeling of the demagnetization in Halbach array permanent magnet machines
Kallaste, Ants; **Belahcen, Anouar**; **Vaimann, Toomas** COMPUMAG 2013 : [proceedings] 2013 / p. 1-2 : ill

Dynamic state space model based analysis of a three-phase induction motor using nonlinear magnetization inductance
Asad, Bilal; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2018 19th International Scientific Conference on Electric Power Engineering (EPE 2018) : Brno, Czech Republic, 16 - 18 May 2018 2018 / p. 260-265 : ill https://doi.org/10.1109/EPE.2018.8396039

Eddy current loss reduction prospects in laser additively manufactured soft magnetic cores
Tiismus, Hans; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 1511-1516 https://doi.org/10.1109/ICEM51905.2022.9910679

EDUTECH - good practices in cooperation between schools and academia attracting candidates for technical education
Rassõlkin, Anton; **Vaimann, Toomas**; **Kudelina, Karolina**; Stepien, Mariusz; Berger, Kevin 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 :

conference proceedings 2020 https://doi.org/10.1109/RTUCON51174.2020.9316614

Eessõna
Vaimann, Toomas; **Risthein, Endel** Eesti energeetika 100 aastat 2018 / lk. 9-10 https://www.ester.ee/record=b4774821*est

Eesti energeetika 100 aastat
Vaimann, Toomas; **Risthein, Endel** 2018 https://www.ester.ee/record=b4774821*est

The effect of build direction on the thermal conductivity of additively manufactured AlS10Mg and silicon-steel samples
Sarap, Martin; **Kallaste, Ants**; **Shams Ghahfarokhi, Payam**; **Tiismus, Hans**; **Vaimann, Toomas** 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 538-543 https://doi.org/10.1109/ICEM51905.2022.9910944

Effect of PM parameters variability on the operation quantities of a wind generator
Kallaste, Ants; **Belahcen, Anouar**; **Vaimann, Toomas** 2015 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) : proceedings : Castello del Valentino, Torino, Italy, 26-27 March, 2015 2015 / p. 242-247 : ill http://dx.doi.org/10.1109/WEMDCD.2015.7194536

Efficiency map comparison of induction and synchronous reluctance motors
Rassõlkin, Anton; **Heidari, Hamidreza**; **Kallaste, Ants**; **Vaimann, Toomas**; Acedo, Jaime Pando; Romero-Cadaval, Enrique 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (IWED) : Moscow Power Engineering Institute, Moscow, Russia, 30th of January – 2nd of February 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/IWED.2019.8664334

Electric drive for throttle control of centrifugal pump system
Gevorkov, Levon; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill https://doi.org/10.1109/RTUCON.2018.8659845

Electrical and thermal anisotropy in additively manufactured AlSi10Mg and Fe-Si samples
Sarap, Martin; **Tiismus, Hans**; **Kallaste, Ants**; **Saarna, Mart**; **Kolnes, Märt**; Shams Ghahfarokhi, Payam; **Vaimann, Toomas** Machines 2025 / art. 1 https://doi.org/10.3390/machines13010001

Electrical machine research in TalTech
Vaimann, Toomas 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 39-40 : ill https://www.ester.ee/record=b5291755*est

Electrical resistivity of additively manufactured silicon steel for electrical machine fabrication
Tiismus, Hans; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton**; Belahcen, Anouar 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818252

Elekter pakub pinget vist kogu eluks : [intervjuu Aasta tehnikaüliõpilaseks nimetatud Toomas Vaimanniga]
Vaimann, Toomas; Feldmann, Mati Inseneeria 2012 / lk. 34-37 : fot https://artiklid.elnet.ee/record=b2465586*est

Elektriala doktoritöödest Tallinna Tehnikaülikoolis 1.
Vaimann, Toomas Elektriala 2022 / lk. 12-13 : fot https://www.ester.ee/record=b1240496*est

Elektriala doktoritöödest Tallinna Tehnikaülikoolis 2.
Vaimann, Toomas Elektriala 2022 / lk. 16-17 : fot https://www.ester.ee/record=b1240496*est

Elektrimasinate diagnostika - lihtne viis suureks kokkuhoiuks
Vaimann, Toomas; **Kilk, Aleksander** Elektriala 2011 / 5, lk. 26-27 : ill

Elektrimasinate diagnostika kui moodus nende eluea pikendamiseks
Vaimann, Toomas; **Kilk, Aleksander** Inseneeria 2011 / lk. 38, 40 : ill https://www.ester.ee/record=b1519314*est

Elektrimasinate soojusarvutus on uute masinate projekteerimisel määrava tähtsusega
Vaimann, Toomas Elektriala 2020 / lk. 12-13 : ill http://www.ester.ee/record=b1240496*est

Elektrimootorite 3D-printimine ei ole ulme
Vaimann, Toomas; **Kallaste, Ants** Director. Inseneeria 2021 / lk. 74-78 : fot https://director.ee/2021/02/03/elektrimootorite-3d-printimine-ei-ole-ulme/ http://www.ester.ee/record=b2336521*est

Energia- ja geotehnika doktorikool areneb jõudsalt. Doktorikooli teadussuunad TTÜs
Lehtla, Tõnu; **Vaimann, Toomas**; Ummelas, Mart Mente et Manu 2013 / lk. 16-17 : fot https://artiklid.elnet.ee/record=b2619499*est

ENTA president: napp järelkasv ohustab eestikeelse kõrghariduse tulevikku
Vaimann, Toomas; Oidermaa, Jaan-Juhan novaator.err.ee 2023 ENTA president: napp järelkasv ohustab eestikeelse kõrghariduse tulevikku

Environmental and life cycle cost analysis of a synchronous reluctance machine [Online resource]
Rassõlkin, Anton; Orlova, Svetlana; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants** 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [5] p. : ill https://doi.org/10.1109/RTUCON.2016.7763127

Environmental considerations in lifecycle based optimization of electrical machines
Vaimann, Toomas; **Kallaste, Ants**; **Bolgov, Viktor**; **Belahcen, Anouar** Proceedings of the 2015 16th International Scientific Conference on Electric Power Engineering (EPE) : May 20-22, 2015, Czech Republic 2015 / p. 209-214 : ill http://dx.doi.org/10.1109/EPE.2015.7161057

The Erasmus+ strategic partnership as a way to attract young people to engineering
Stepien, Mariusz; Berger, Kevin; **Rassõlkin, Anton**; **Vaimann, Toomas** Advances in Human Factors in Training, Education, and Learning Sciences : Proceedings of the AHFE 2019 International Conference on Human Factors in Training, Education, and Learning Sciences, July 24-28, 2019, Washington D.C., USA 2020 / p. 252-259 https://doi.org/10.1007/978-3-030-20135-7_25 Conference proceedings at Scopus Article at Scopus

Erko Lepa: inseneriharidus annab baasi ükskõik mis valdkonda liikumiseks
Lepa, Erko Elektriala 2020 / lk. 22-23 : fot http://www.ester.ee/record=b1240496*est https://new.abb.com/news/et/detail/63276/erko-lepa-inseneriharidus-annab-baasi-ukskoik-mis-valdkonda-liikumiseks

EV-powertrain test bench for digital twin development
Rjabtšikov, Viktor; **Mohamed, Mahmoud Ibrahim Hassanin**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 559-563 : ill https://doi.org/10.1109/PEMC51159.2022.9962879

An EV-traction inverter data-driven modelling for digital twin development
Ibrahim, Akram Abdalla Mohammed; **Raja, Hadi Ashraf**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2023 23rd International Scientific Conference on Electric Power Engineering (EPE) 2023 / 5 p. : ill https://doi.org/10.1109/EPE58302.2023.10149230

Experimental determination of equivalent circuit parameters for a synchronous generator
Naseer, Muhammad Usman; **Asad, Bilal**; **Ghahfarokhi, Payam Shams**; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2021 IEEE Open Conference of Electrical, Electronic and Information Sciences (eStream): proceedings of the conference, April 22, 2021, Vilnius, Lithuania 2021 / 7 p. : ill https://doi.org/10.1109/eStream53087.2021.9431442

Experimental investigation of high viscosity on oil spray cooling system with hairpin winding
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; **Vaimann, Toomas**; **Sarap, Martin**; **Rjabtšikov, Viktor** 2023 IEEE 14th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED) 2023 / p. 234-238 https://doi.org/10.1109/SDEMPED54949.2023.10271484

Experimental prototype of high-efficiency wind turbine based on Magnus effect
Lukin, Aleksandr; **Demidova, Galina**; **Lukichev, Dmitry**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 6 p https://doi.org/10.1109/IWED48848.2020.9069565

Exploring the limits of early predictive maintenance in wind turbines applying an anomaly detection technique
Jankauskas, Mindaugas; Serackis, Artūras; Šapurov, Martynas; Pomarnacki, Raimondas; Baskys, Algirdas; Hyunh, Van Khang; **Vaimann, Toomas**; Zakis, Janis Sensors 2023 / art. 5695 https://doi.org/10.3390/s23125695 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Exterior-rotor permanent magnet synchronous machine with toroidal windings for unmanned aerial vehicles
Nukki, Rene; **Kilk, Aleksander**; **Kallaste, Ants**; **Vaimann, Toomas**; **Tiimus, Kristjan** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 215-220 : ill

Fault detecting accuracy of mechanical damages in rolling bearings
Kudelina, Karolina; **Baraškova, Tatjana**; **Shirokova, Veroonika**; **Vaimann, Toomas**; **Rassõlkin, Anton** Machines 2022 / art. 86 https://doi.org/10.3390/machines10020086 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Fault detection and predictive maintenance of electrical machines : perspective chapter
Raja, Hadi Ashraf; **Kudelina, Karolina**; **Asad, Bilal**; **Vaimann, Toomas** New Trends in Electric Machines - Technology and Applications 2022 https://doi.org/10.5772/intechopen.107167

Fault diagnosis of the tooth belt transmission of Cartesian robot
Autsou, Siarhei; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Asad, Bilal**; **Kudelina, Karolina**; Huynh, Van Khang 2022 29th International Workshop on Electric Drives : Advances in Power Electronics for Electric Drives : IWED2022 : Moscow Power Engineering Institute, Moscow, Russia : 26th– 29th of January 2022 : Proceedings 2022 / 6 p
https://doi.org/10.1109/IWED54598.2022.9722578

Fault diagnosis system of Cartesian robot for various belt tension
Autsou, Siarhei; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kudelina, Karolina** 2022 International Conference on Diagnostics in Electrical Engineering (Diagnostika) 2022 / 4 l https://doi.org/10.1109/Diagnostika55131.2022.9905111

Fault simulation and analysis of high-voltage circuit breaker's spring charging mechanism using a universal motor model
Asad, Bilal; **Vaimann, Toomas**; **Kallaste, Ants**; **Kilter, Jako**; **Sardar, Muhammad Usman** 2024 IEEE 65th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2024 / 5 p
https://doi.org/10.1109/RTUCON62997.2024.10830846

Fault tolerant control and diagnosis strategies for cartesian industrial robot motion control planning system = Tõrketaluvusega juhtimis- ja diagnostikastrateegiad tööstusliku karteesianroboti liikumise planeerimise juhtimissüsteemi jaoks
Autsou, Siarhei 2025 https://www.ester.ee/record=b5734587*est https://digikogu.taltech.ee/et/Item/c9afdbf3-354b-41f5-a705-ede924a2af21
https://doi.org/10.23658/taltech.14/2025

Fault tolerant control of a grid-connected microgrid with high penetration of renewable energy
Senanayaka, Jagath; Khang, Huynh Van; **Vaimann, Toomas**; **Rassõlkin, Anton** 24th International Conference on Electrical Machines and Systems (ICEMS) 2021 / p. 938-943 https://doi.org/10.23919/ICEMS52562.2021.9634364

Fault-tolerant control of a grid-connected bipolar DC microgrid with high penetration of intermittent renewable energy
Senanayaka, Jagath; Khang, Huynh Van; **Rassõlkin, Anton**; **Vaimann, Toomas**; Zakis, Janis; Pomarnacki, Raimondas IECON 2022 - 48th Annual Conference of the IEEE Industrial Electronics Society 2022 / p. 1-6
https://doi.org/10.1109/IECON49645.2022.9968572 Conference proceedings at Scopus Article at Scopus

Feasibility study of a local power supply system for sparsely populated areas in Estonia
Vaimann, Toomas; **Rassõlkin, Anton**; **Kallaste, Ants**; **Märss, Maido** Agronomy research 2016 / p. 1720-1729 : ill
http://www.ester.ee/record=b1787401*est Journal metrics at Scopus Article at Scopus

The FEM based modeling and corresponding test rig preparation for broken rotor bars analysis
Asad, Bilal; **Eensalu, Lauri**; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 9 p. : ill https://doi.org/10.1109/RTUCON48111.2019.8982350

Flood prevention through condition monitoring of pumping stations
Gevorkov, Levon; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 5 p. : ill
https://doi.org/10.1109/RTUCON48111.2019.8982305

Force-based feedback for haptic device of mobile assembly robot
Lukin, Aleksandr; **Demidova, Galina**; **Rassõlkin, Anton**; **Vaimann, Toomas**; Roozbahani, Hamid 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 5 p. : ill https://doi.org/10.1109/IWED48848.2020.9069581

Fundamentals of electrical machines
Kallaste, Ants; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Janson, Kuno** 2026 https://www.routledge.com/Fundamentals-of-Electrical-Machines/Kallaste-Vaimann-Rassolkin-Janson/p/book/9781032518206?srsltid=AfmBOoopOWsvE7PCg4afDRJAsSt-7MPjB1tipnsK8Yhta6i_tqjjPvPr

Generative design in development of mechanical components for Magnus effect-based wind turbine
Lukin, Aleksandr; Perepelkina, Svetlana; Demidova, Galina; Lukichev, Dmitry; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 6-10 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249344

Generative design in weight optimization of reconfigurable continuous track robot
Valme, Daniil; **Kudelina, Karolina**; **Belolipetskaja, Diana**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 6 p
https://doi.org/10.1109/IWED52055.2021.9376329

Generator mode analysis of exterior-rotor PM synchronous machine with Gramme's winding
Nukki, Rene; **Kilk, Aleksander**; **Kallaste, Ants**; **Vaimann, Toomas**; **Tiimus, Kristjan** 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 347-352 : ill
http://dx.doi.org/10.1109/PowerEng.2015.7266341

Hairpin windings for electric vehicle motors : modeling and investigation of AC loss-mitigating approaches
Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas** Machines 2022 / art. 1029 https://doi.org/10.3390/machines10111029 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hairpin windings manufacturing, design, and AC losses analysis approaches for electric vehicle motors
Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; Cardoso, Antonio J. Marques; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas** 2021 11th International Electric Drives Production Conference (EDPC) : 7-9 Dec. 2021 2021 / p. 1-7 https://doi.org/10.1109/EDPC53547.2021.9684208

Harmonic spectrum analysis of induction motor with broken rotor bar fault
Asad, Bilal; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 7 p. : ill https://doi.org/10.1109/RTUCON.2018.8659842

Harmonics distortion in inverter-fed motor-drive systems : case study
Heidari, Hamidreza; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818230

Health and charge indicators for battery energy storage systems in electric vehicles applications
Zequera, Rolando Antonio Gilbert; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 427-432 https://doi.org/10.1109/PEMC51159.2022.9962858

Heat pump induction motor faults caused by soft starter topology — case study
Kudelina, Karolina; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; Huynh, Van Khang 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 454-459 : ill https://doi.org/10.1109/PEMC48073.2021.9432506

High voltage circuit breaker charging motor's condition monitoring - importance, possibilities, and challenges
Asad, Bilal; **Sardar, Muhammad Usman**; **Vaimann, Toomas**; **Kallaste, Ants**; **Asefi, Sajjad**; **Kilter, Jako** 2024 International Conference on Diagnostics in Electrical Engineering (Diagnostika) 2024 / 7 p https://doi.org/10.1109/Diagnostika61830.2024.10693906

High-frequency current sensor for power network on-line mea[s]urements
Kütt, Lauri; **Järvik, Jaan**; **Vaimann, Toomas**; Shafiq, Muhammad; Lehtonen, Matti; **Kilter, Jako** Proceedings of the 13th International Scientific Conference Electric Power Engineering 2012 : EPE 2012 : Brno. Vol. 1 2012 / p. 367-371 : ill https://www.researchgate.net/publication/262674502_High-Frequency_Current_Sensor_for_Power_Network_On-line_Measurements

Hilbert transform, an effective replacement of Park's vector modulus for the detection of rotor faults
Asad, Bilal; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818227

Hybrid FEA-Simulink modelling of permanent magnet assisted synchronous reluctance motor with unbalanced magnet flux
Pando-Acedo, Jaime; **Rassõlkin, Anton**; Lehikoinen, Antti; **Vaimann, Toomas**; **Kallaste, Ants**; Romero-Cadaval, Enrique; **Belahcen, Anouar** 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED), 27-30 Aug. 2019, Toulouse, France : proceedings 2019 / p. : 174-180 : ill https://doi.org/10.1109/DEMPED.2019.8864925

Hybrid thermal model of a synchronous reluctance machine
Shams Ghahfarokhi, Payam; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassõlkin, Anton** Case studies in thermal engineering 2018 / p. 381-389 : ill https://doi.org/10.1016/j.csite.2018.05.007 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Hysteresis loss evaluation of additively manufactured soft magnetic core
Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Rassõlkin, Anton**; **Vaimann, Toomas** 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1657-1661 https://doi.org/10.1109/ICEM49940.2020.9270836

Hysteresis measurements and numerical losses segregation of additively manufactured silicon steel for 3D printing electrical machines
Tiismus, Hans; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassõlkin, Anton**; Lukichev, Dmitry Applied sciences 2020 / art. 6515, 15 p https://doi.org/10.3390/app10186515 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Identification and characterization of modulation scheme in an EV-PMSM control strategy for digital twin modeling
Mohamed, Mahmoud Ibrahim Hassanin; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** Diagnostika 2024 - 2024 International Conference on Diagnostics in Electrical Engineering, Proceedings 2024 / 5 p
https://doi.org/10.1109/Diagnostika61830.2024.10693927

Impact of bearing faults on vibration level of BLDC motor
Kudelina, Karolina; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 2021 2021 / p. 1-6 : ill https://doi.org/10.1109/IECON48115.2021.9589268 Conference Proceedings at Scopus Article at Scopus Article at WOS

Impact of conducting and insulating material to electric field
Järvik, Jaan; **Mõlder, Heigo**; **Vaimann, Toomas** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 107-112 : ill

The impact of control environments on global parameters of electrical machines in case of broken rotor bars
Kudelina, Karolina; **Raja, Hadi Ashraf**; **Autsou, Siarhei**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** Diagnostika '22 : 2022 International Conference on Diagnostics in Electrical Engineering : Conference proceedings 2022 / 4 p.
https://doi.org/10.1109/Diagnostika55131.2022.9905149

The impact of load on global parameters of electrical machines in case of healthy and broken rotor bars
Kudelina, Karolina; **Raja, Hadi Ashraf**; **Autsou, Siarhei**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Shabbir, Noman** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 5 l. https://doi.org/10.1109/BEC56180.2022.9935614

Impact of wind parks on the efficiency of thermal power plants [Electronic resource]
Astapov, Victor; **Šuvalova, Jelena**; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar** Proceedings of the 8th International Scientific Symposium on Electrical Power Engineering ELEKTROENERGETIKA 2015 : September 16-18, 2015, Stara Lesna, Slovak Republic 2015 / p. 589-592 : ill. [CD-ROM]

Implementation and analysis of rolling bearing faults caused by shaft currents
Kudelina, Karolina; **Autsou, Siarhei**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2022 https://doi.org/10.1109/IWED54598.2022.9722596

Implementation of different magnetic materials in outer rotor PM generator
Kudrjavtsev, Oleg; **Kilk, Aleksander**; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants** 2015 IEEE 5th International Conference on Power Engineering, Energy and Electrical Drives (POWERENG) : proceedings : May 11-13, 2015, Riga, Latvia 2015 / p. 74-78 : ill http://dx.doi.org/10.1109/PowerEng.2015.7266298

Implementation of Digital Twins for electrical energy conversion systems in selected case studies
Rassõlkin, Anton; Orosz, Tamas; **Demidova, Galina**; **Kuts, Vladimir**; **Rjabtšikov, Viktor**; **Vaimann, Toomas**; **Kallaste, Ants** Proceedings of the Estonian Academy of Sciences 2021 / p. 19-39 : ill https://doi.org/10.3176/proc.2021.1.03 https://doi.org/wp-content/plugins/kirj/pub/proc-1-2021-19-39_20210201183802.pdf Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improved diagnostic approach for BRB detection and classification in inverter-driven induction motors employing sparse stacked autoencoder (SSAE) and lightGBM
Khan, Muhammad Amir; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants** Electronics (Switzerland) 2024 / art. 1292
https://doi.org/10.3390/electronics13071292 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improved fault classification and localization in power transmission networks using vae-generated synthetic data and machine learning algorithms
Khan, Muhammad Amir; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants**; Pomarnacki, Raimondas; Hyunh, Van Khang Machines 2023 / art. 963 https://doi.org/10.3390/machines11100963 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improving legibility of motor current spectrum for broken rotor bars fault diagnostics
Asad, Bilal; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Belahcen, Anouar**; **Iqbal, Muhammad Naveed** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2019 / p. 1–8 : ill https://doi.org/10.2478/ecce-2019-0001

Induction machine fault detection using smartphone recorded audible noise
Vaimann, Toomas; Sobra, Jan; **Belahcen, Anouar**; **Rassõlkin, Anton**; Rolak, Michal; **Kallaste, Ants** IET science, measurement and technology 2018 / p. 554-560 : ill https://doi.org/10.1049/iet-smt.2017.0104 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Induction motor bearing currents - causes and damages
Kudelina, Karolina; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Asad, Bilal**; **Demidova, Galina** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 5 p

https://doi.org/10.1109/IWED52055.2021.9376354

Influence of choice of permanent magnet electromagnetic parameters in the research of electrical devices
Ose-Zala, Baiba; **Kallaste, Ants**; **Vaimann, Toomas** PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 225-228 : ill
https://doi.org/10.1109/PQ.2016.7724117

Influence of different tooth belt transmission faults on the work of a cartesian robot
Autsou, Siarhei; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kudelina, Karolina**; **Asad, Bilal** Proceedings of the 2022 20th International Conference on Mechatronics - Mechatronika, (ME), Pilsen, Czech Republic, December 7–9, 2022 2022 / 5 p. : ill
https://doi.org/10.1109/ME54704.2022.9982815

Influence of magnet material selection on the design of slow-speed permanent magnet synchronous generators for wind applications
Kallaste, Ants; **Vaimann, Toomas**; **Belahcen, Anouar** Elektronika ir elektrotechnika = Electronics and electrical engineering 2017 / p. 31-38 : ill https://doi.org/10.5755/j01.eie.23.1.17581 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of magnetic forces and magnetostriction on the vibration behavior of an induction motor
Sathyan, Sabin; Aydin, Ugur; Lehikoinen, Antti; **Belahcen, Anouar**; **Vaimann, Toomas**; Kataja, Juhani International journal of applied electromagnetics and mechanics 2019 / p. 825-834 https://doi.org/10.3233/JAE-171045 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of permanent magnet characteristic variability on the wind generator operation
Kudrjavtsev, Oleg; **Kallaste, Ants**; **Kilk, Aleksander**; **Vaimann, Toomas**; **Orlova, Svetlana** Latvian journal of physics and technical sciences 2017 / p. 3-11 : ill https://doi.org/10.1515/lpts-2017-0001 Journal metrics at Scopus Article at Scopus

Influence of slot wedge material on permanent magnet losses in a traction motor with tooth coil windings
Lindh, Pia; **Vaimann, Toomas**; **Kallaste, Ants**; Pyrhönen, Juha; **Vinnikov, Dmitri**; Naumanen, Ville International journal of applied electromagnetics and mechanics 2013 / p. 227-236 : ill https://doi.org/10.3233/JAE-131659 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Initial design estimation of synchronous machines
Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2022 https://doi.org/10.1109/IWED54598.2022.9722585

Interface development for digital twin of an electric motor based on empirical performance model
Rassõlkin, Anton; **Rjabtšikov, Viktor**; **Kuts, Vladimir**; **Vaimann, Toomas**; **Kallaste, Ants**; **Asad, Bilal**; **Partyshev, Andriy** IEEE Access 2022 / p. 15635-15643 https://doi.org/10.1109/ACCESS.2022.3148708 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Investigation of FEM software for Magnus Effect Simulation
Lukin, Aleksandr; Demidova, Galina; Lukichev, Dmitry; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 5 p
https://doi.org/10.1109/IWED52055.2021.9376396

Investigation of molten metal mixing in a DC electric arc furnace with added AC component on different frequencies
Mõlder, Heigo; **Järvik, Jaan**; **Vaimann, Toomas**; **Gordon, Rauno** PQ2012 : 8th International Conference : 2012 Electric Power Quality and Supply Reliability : June 11-13, 2012, Tartu, Estonia : conference proceedings 2012 / p. 33-36 : ill
https://www.semanticscholar.org/paper/Investigation-of-molten-metal-mixing-in-a-DC-arc-AC-M%C3%B5lder-Jarvik/38848bbd53c7d118a0077072daa0ffb86f649657

Investigation of the forces acting on the coils of a Modular Slotless Permanent Magnet Generator
Kallaste, Ants; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Belahcen, Anouar** 21st International Conference on the Computation of Electromagnetic Fields (Compumag 2017) : Daejeon, South Korea, 18-22 June 2017 2017 / p. 707-708 : ill
http://www.compumag.org/CMAG2017/[PD-M3-9]_727.pdf

IoT based tools and methods for electrical machine diagnostics = Asjade interneti põhised tööriistad ja meetodid elektrimasinate diagnostikaks
Raja, Hadi Ashraf 2023 https://doi.org/10.23658/taltech.20/2023 https://digikogu.taltech.ee/et/Item/3015334f-c32b-43ae-ba2d-bfcda536aba5
https://www.ester.ee/record=b5558656*est

IoT based tools for data acquisition in electrical machines and robotics
Raja, Hadi Ashraf; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Belahcen, Anouar** 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 737-742 : ill https://doi.org/10.1109/PEMC48073.2021.9432553

Karolina Kudelinale 1. preemia [Võrguväljaanne]
Vaimann, Toomas Meie Leht 2021 / Lk. 1 : fot "Karolina Kudelinale 1. preemia"

3D printimine avab elektrimasinate tootmisel ennenägematuid võimalusi
Vaimann, Toomas Elektriala 2023 / lk. 22-23 : portr., fot https://www.ester.ee/record=b1240496*est

Kolmogorov-Arnold networks for algorithm design in battery energy storage system applications
Zequera, Rolando Antonio Gilbert; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** Energy Reports 2025 / p. 2664-2677 https://doi.org/10.1016/j.egyr.2025.02.002

Kuidas jõuavad teadussaavutused igapäevaellu?
Alvela, Ain postimees.ee 2024 Kuidas jõuavad teadussaavutused igapäevaellu?

Laser additively manufactured magnetic core design and process for electrical machine applications
Tiismus, Hans; **Kallaste, Ants**; **Vaimann, Toomas**; **Lind, Liina**; Virro, Indrek; **Rassõlkin, Anton**; **Dedova, Tatjana** Energies 2022 / art. 3665 https://doi.org/10.3390/en15103665 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Life cycle analysis of electrical motor-drive system based on electrical machine type
Rassõlkin, Anton; **Belahcen, Anouar**; **Kallaste, Ants**; **Vaimann, Toomas**; **Heidari, Hamidreza**; **Asad, Bilal** Proceedings of the Estonian Academy of Sciences 2020 / p. 162–177 : ill https://doi.org/10.3176/proc.2020.2.07 journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Lifecycle analysis of different motors from the standpoint of environmental impact
Orlova, Svetlana; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** Latvian journal of physics and technical sciences 2016 / p. 37-46 : ill https://doi.org/10.1515/lpts-2016-0042 Journal metrics at Scopus Article at Scopus

Lifecycle-based design and optimization of electrical motor-drives - challenges and possibilities
Vaimann, Toomas; **Kallaste, Ants**; **Kilk, Aleksander**; **Belahcen, Anouar** The 3rd International Conference on Electric Power and Energy Conversion Systems (EPECS 2013) : [proceedings] 2013 / p. 1-4 : ill

LightGBM-based fault diagnosis of rotating machinery under changing working conditions using modified recursive feature elimination
Saberi, Alireza Nemat; **Belahcen, Anouar**; Sobra, Jan; **Vaimann, Toomas** IEEE Access 2022 / p. 81910-81925 https://doi.org/10.1109/ACCESS.2022.3195939 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Magnetic properties of reduced Dy NdFeB permanent magnets and their usage in electrical machines
Vaimann, Toomas; **Kallaste, Ants**; **Kilk, Aleksander**; **Belahcen, Anouar** IEEE AFRICON 2013 : [proceedings] 2013 / p. 1124-1128 : ill https://doi.org/10.1109/AFRCON.2013.6757787 Conference Proceedings at Scopus Article at Scopus

Main faults and diagnostic possibilities of BLDC motors
Kudelina, Karolina; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; Lukichev, Dmitry 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 6 p. : ill https://doi.org/10.1109/IWED48848.2020.9069553

Mathematical modelling of three phase squirrel cage induction motor and related signal processing for fault diagnostics = Kolmefaasilise lühisrootoriga asünkroonmootori matemaatiline modelleerimine ning lähtuv rikkediagnostiline signaalitöötlus
Asad, Bilal 2021 https://digikogu.taltech.ee/et/Item/8b5869c8-de30-4380-a0c6-8a6a2d6b6ff3 https://www.ester.ee/record=b5452432*est https://doi.org/10.23658/taltech.40/2021

Mechanical vibration analysis of induction machine under dynamic rotor eccentricity [Electronic resource]
Sobra, Jan; **Vaimann, Toomas**; **Belahcen, Anouar** 2016 17th International Scientific Conference on Electric Power Engineering (EPE) : proceedings 2016 / [4] p. : ill. [USB] https://doi.org/10.1109/EPE.2016.7521732

A method for contouring an airgap profile in an electromagnetic device
Naseer, Muhammad Usman; **Kallaste, Ants**; **Vaimann, Toomas** 2025 https://www.etis.ee/Portal/IndustrialProperties/Display/4de92487-f0be-4f69-bd60-e647dcc5920f https://digikogu.taltech.ee/et/Item/af3abd72-6077-43be-b7ed-5fa0b3f58602

A method for mixing molten metal and a compatible electric arc furnace
Mõlder, Heigo; **Järvik, Jaan**; **Janson, Kuno**; **Gordon, Rauno**; **Vaimann, Toomas** Estonian journal of engineering 2011 / p. 220-240 : ill

Methods of condition monitoring and fault detection for electrical machines
Kudelina, Karolina; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; Khang, Huynh Van Energies 2021 / art. 7459, 20 p. : ill https://doi.org/10.3390/en14227459 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Microgrids performance challenges
Kazakov, Aleksei; **Janson, Kuno**; **Vaimann, Toomas** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 42-46 : ill

Model for energy management of residential building heating system
Gevorkov, Levon; Šmidl, Vaclav; Sirovy, Martin; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 4 p https://doi.org/10.1109/IWED48848.2020.9069503

Model for torque estimation of pump system with horizontal pipe network
Gevorkov, Levon; Smidl, Vaclav; Sirovy, Martin; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (IWED) : Moscow Power Engineering Institute, Moscow, Russia, 30th of January – 2nd of February 2019 : proceedings 2019 / 5 p. : ill https://doi.org/10.1109/IWED.2019.8664304

The modeling and investigation of slot skews and supply imbalance on the development of principal slotting harmonics in squirrel cage induction machines
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; Khang, Huynh Van; **Ghahfarokhi, Payam Shams**; **Naseer, Muhammad Usman**; **Iqbal, Muhammad Naveed** IEEE Access 2021 / p. 165932-165946 https://doi.org/10.1109/ACCESS.2021.3134331 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modeling battery energy storage systems based on remaining useful lifetime through regression algorithms and binary classifiers
Zequera, Rolando Antonio Gilbert; **Rjabtšikov, Viktor**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** Applied sciences 2023 / art. 7597 https://doi.org/10.3390/app13137597 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modern mechatronics and robotics education program: border cooperation between Estonia and Russia
Rassõlkin, Anton; **Vaimann, Toomas**; **Kudelina, Karolina**; Demidova, Galina; Lukichev, Dmitry; Perepelkina, Svetlana Proceedings of the 2020 IEEE Global Engineering Education Conference (EDUCON) : Engineering Education for the Future in a Multicultural and Smart World, 27-30 April, 2020, Porto, Portugal 2020 / p. 1272-1277 : ill https://doi.org/10.1109/EDUCON45650.2020.9125406

A modified dynamic model of single-sided linear induction motors considering longitudinal and transversal effects
Heidari, Hamidreza; **Rassõlkin, Anton**; Razzaghi, Arash; **Vaimann, Toomas**; **Kallaste, Ants**; **Andriushchenko, Ekaterina**; **Belahcen, Anouar**; Lukichev, Dmitry Electronics 2021 / art. 933, 14 p. : ill https://doi.org/10.3390/electronics10080933 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modified initial design procedure for synchronous reluctance motor
Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 1969-1975 https://doi.org/10.1109/ICEM51905.2022.9910594

Modified technique of parameter identification of a permanent magnet synchronous motor with PWM inverter in the presence of dead-time effect and measurement noise
Mamatov, Aleksandr; Lovlin, Sergey; **Vaimann, Toomas**; **Rassõlkin, Anton**; Vakulenko, Sergei; Abramian, Andrei Electronics 2019 / art. 1200, 19 p https://doi.org/10.3390/electronics8101200 Journal metrics at Scopus Article at Scopus Journal metrics ar WOS Article at WOS

Modified winding function analysis of synchronous reluctance motor for design iteration purposes : [journal article]
Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** IEEE transactions on magnetics 2022 / art. 7500704 https://doi.org/10.1109/TMAG.2022.3164189 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Modified winding function-based model of squirrel cage induction motor for fault diagnostics
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Iqbal, Muhammad Naveed** IET electric power applications 2020 / p. 1722-1734 https://doi.org/10.1049/iet-epa.2019.1002 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

MPPT algorithms for wind turbines : review and comparison
Lukin, Aleksandr; **Demidova, Galina**; Alassaf, Omar; Lukichev, Dmitry; **Rassõlkin, Anton**; **Vaimann, Toomas** 29th International Workshop on Electric Drives: Advances in Power Electronics for Electric Drives (IWED) 2022 / p. 1-6 https://doi.org/10.1109/IWED54598.2022.9722597

Multi-criteria design optimization of ultra large diameter permanent magnet generator
Pabut, Ott; **Eerme, Martin**; **Kallaste, Ants**; **Vaimann, Toomas** Elektronika ir elektrotechnika = Electronics and electrical engineering 2015 / p. 42-48 : ill https://doi.org/10.5755/j01.eee.21.3.10278 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Multi-electrode arc furnace technology with improved metal processing capability using current driven mixing
Mõlder, Heigo; **Järvik, Jaan**; **Vaimann, Toomas**; **Gordon, Rauno** Conference proceedings : 2012 11th International Conference on Environment and Electrical Engineering : Venice, Italy, 18-25 May 2012 2012 / p. 313-316 : ill

Multi-Rate Vibration Signal Analysis for Enhanced Data-Driven Monitoring of Bearing Faults in Induction Machines
El Bouharrouti, Nada; Koveshnikov, Semen; Garcia-Calva, Tomas Alberto; Vehvilainen, Milla; **Kudelina, Karolina**; **Naseer, Muhammad Usman**; **Vaimann, Toomas**; Belahcen, Anouar 2024 International Conference on Electrical Machines, ICEM 2024 2024 / 7 p. http://dx.doi.org/10.1109/ICEM60801.2024.10700488

Multi-sensor fault diagnosis of induction motors using random forests and support vector machine
Saberi, Alireza Nemat; Sandirasegaram, Sarvavignoban; **Belahcen, Anouar**; **Vaimann, Toomas**; Sobra, Jan 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1404–1410 https://doi.org/10.1109/ICEM49940.2020.9270689

MWFA model based synthetic data creation and utilization for the training of XGBoost based fault diagnostic algorithm of a squirrel cage induction motor
Asad, Bilal; Khan, Muhammad Amir; **Raja, Hadi Ashraf**; **Vaimann, Toomas**; **Kallaste, Ants**; **Naseer, Muhammad Usman** 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p https://doi.org/10.1109/ICEM60801.2024.10700453

Natural convection from flat side's of coil system
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** 2018 19th International Scientific Conference on Electric Power Engineering (EPE 2018) : Brno, Czech Republic, 16 - 18 May 2018 2018 / p. 288-292 : ill https://doi.org/10.1109/EPE.2018.8395967

Necessity for implementation of inverse problem theory in electric machine fault diagnosis
Vaimann, Toomas; **Belahcen, Anouar**; **Kallaste, Ants** SDEMPED 2015 : 10th IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives : Guarda, Portugal, September 1-4, 2015 : proceedings 2015 / p. 380-385 : ill http://dx.doi.org/10.1109/DEMPED.2015.7303718

Novel approaches to electrical machine fault diagnosis
Vaimann, Toomas; Antonino-Daviu, Jose Alfonso; **Rassõlkin, Anton** Energies 2023 / art. 5641 https://doi.org/10.3390/en16155641 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A Novel vector control strategy for a six-phase induction motor with low torque ripples and harmonic currents
Heidari, Hamidreza; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; Taheri, Asghar; Holakooie, Mohammad Hosein; **Belahcen, Anouar** Energies 2019 / art. 1102, 14 p. : ill https://doi.org/10.3390/en12061102 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The oil spray cooling system of automotive traction motors : the state of the art
Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; **Kallaste, Ants**; Cardoso, Antonio J. Marques; Belahcen, Anouar; **Vaimann, Toomas** IEEE Transactions on Transportation Electrification 2023 / p. 428-451 https://doi.org/10.1109/TTE.2022.3189596 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Oil spray cooling with hairpin windings in high-performance electric vehicle motors
Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar**; Cardoso, Antonio J. Marques 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 5 p https://doi.org/10.1109/IWED52055.2021.9376390

Opportunities and challenges of utilizing additive manufacturing approaches in thermal management of electrical machines
Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; **Kallaste, Ants**; Cardoso, Antonio J. Marques; **Belahcen, Anouar**; **Vaimann, Toomas**; **Tiismus, Hans**; **Asad, Bilal** IEEE Access 2021 / art. 9364970, p. 36368-36381 : ill https://doi.org/10.1109/ACCESS.2021.3062618 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optimal control of automatic manipulator for elimination of galvanic line load oscillation
Autsou, Siarhei; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Demidova, Galina**; Saroka, Viktor; Karpovich, Dzmitry; **Kallaste, Ants** Periodica polytechnica electrical engineering and computer science 2021 / 15 p. : ill https://doi.org/10.3311/PPee.15893 Journal metrics at Scopus Article at Scopus

Optimization of a 3D-printed permanent magnet coupling using genetic algorithm and Taguchi method
Andriushchenko, Ekaterina; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Heidari, Hamidreza**; **Tiismus, Hans** Electronics 2021 / art. 494, 16 p. : ill https://doi.org/10.3390/electronics10040494 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Overview of battery energy storage systems readiness for digital twin of electric vehicles
Zequera, Rolando Antonio Gilbert; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** IET Smart Grid 2023 / p. 5-16

https://doi.org/10.1049/stg2.12101 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Overview of control methods of reluctance machines with sensors and sensorless
Melentjev, Sergei; **Belahcen, Anouar**; **Kallaste, Ants**; **Vaimann, Toomas** 2014 55th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings 2014 / p. 26-29 : ill

An overview of fuzzy logic approaches for fault diagnosis in energy conversion devices
Demidova, Galina; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; Zakis, Janis; Suzdalenko, Alexander 2021 28th International Workshop on Electric Drives : Improving Reliability of Electric Drives (IWED) 2021 / 7 p
https://doi.org/10.1109/IWED52055.2021.9376389

Overview of sensorless diagnostic possibilities of induction motors with broken rotor bars [Electronic resource]
Vaimann, Toomas; **Kallaste, Ants**; **Kilk, Aleksander** Proceedings of the 12th International Scientific Conference Electric Power Engineering 2011, Kouty nad Desnou, Czech Republic, May 17-19, 2011 2011 / [4 p.] : ill. [CD-ROM]
https://www.scinapse.io/papers/2583767167

Overview of the use of Bellman dynamic programming method to eliminate oscillations in mechanical and electrical assemblies of technical objects
Autsou, Siarhei; Saroka, Viktor; Karpovich, Dzmitry; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p https://doi.org/10.1109/PQ.2019.8818246

Overview on digital twin for autonomous electrical vehicles propulsion drive system
Mohamed, Mahmoud Ibrahim Hassanin; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** Sustainability 2022 / art. 601
https://doi.org/10.3390/su14020601 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A parallel estimation system of stator resistance and rotor speed for active disturbance rejection control of six-phase induction motor
Heidari, Hamidreza; **Rassõlkin, Anton**; Holakooie, Mohammad Hosein; **Vaimann, Toomas**; **Kallaste, Ants**; **Belahcen, Anouar**; Lukichev, Dmitry Energies 2020 / 17 p https://doi.org/10.3390/en13051121 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Parametric digital twin of autonomous electric vehicle transmission
Rassõlkin, Anton; **Rjabtšikov, Viktor**; **Kuts, Vladimir**; **Kudelina, Karolina**; **Vaimann, Toomas**; **Kallaste, Ants**; **Partyshev, Andriy** Journal of machine engineering 2021 / p. 131-140 : ill https://doi.org/10.36897/jme/134435 Journal metrics at Scopus Article at Scopus

Park's vector approach for detection of broken rotor bars in frequency converter fed induced generator
Vaimann, Toomas; **Belahcen, Anouar**; Martinez, Javier; **Kilk, Aleksander** Proceedings of the 13th International Scientific Conference Electric Power Engineering 2012 : EPE 2012 : Brno. Vol. 2 2012 / p. 985-988 : ill
https://www.academia.edu/17399045/Parks_Vector_Approach_for_Detection_Broken_Rotor_Bars_in_Frequency_Converter_Fed_Induction_Generator

Possibilities of changing the transport characteristics of the TEP70 locomotive
Rjabtšikov, Viktor; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants**; Lukichev, Dmitry 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 6 p
https://doi.org/10.1109/IWED48848.2020.9069576

Possibilities of decreasing induction motor bearing currents
Kudelina, Karolina; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** 2021 IEEE Open Conference of Electrical, Electronic and Information Sciences (eStream): proceedings of the conference, April 22, 2021, Vilnius, Lithuania 2021 / 5 p. : ill
https://doi.org/10.1109/eStream53087.2021.9431419

Possible manufacturing tolerance faults in design and construction of low speed slotless permanent magnet generator
Kallaste, Ants; **Vaimann, Toomas**; **Belahcen, Anouar** 2014 16th European Conference on Power Electronics and Applications (EPE'14-ECCE Europe) : Lappeenranta, Finland, 26-28 August 2014. Vol. 4 2014 / p. 3073-3082 : ill

Power losses analysis in thermal design of a synchronous reluctance motor
Shams Ghahfarokhi, Payam; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 5 p. : ill https://doi.org/10.1109/RTUCON48111.2019.8982256

Power quality issues in dispersed generation and smart grids
Vaimann, Toomas; **Niitsoo, Jaan**; **Kivipõld, Tanel**; **Lehtla, Tõnu** Elektronika ir elektrotechnika = Electronics and electrical engineering 2012 / p. 23-26 : ill https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=573c03a0753bcfce3929ba739ff032b16882acf5

Preliminary analysis of bearing current faults for predictive maintenance
Kudelina, Karolina; **Raja, Hadi Ashraf**; **Vaimann, Toomas**; **Kallaste, Ants**; Pomarnacki, Raimondas; Hyunh, Van Khang 2023 IEEE International Conference on Electric Machines and Drives (IEMDC) 2023 / 5 p. : ill
https://doi.org/10.1109/IEMDC55163.2023.10238934

Preliminary analysis of global parameters of induction machine for fault prediction in rotor bars
Kudelina, Karolina; **Raja, Hadi Ashraf**; **Autsou, Siarhei**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** 2022 IEEE 20th International Power Electronics and Motion Control Conference (PEMC) : Brasov, Romania, 25-28 Sept. 2022 : proceedings 2022 / p. 243-248 : ill https://doi.org/10.1109/PEMC51159.2022.9962922

Preliminary analysis of mechanical bearing faults for predictive maintenance of electrical machines
Kudelina, Karolina; **Raja, Hadi Ashraf**; **Autsou, Siarhei**; **Naseer, Muhammad Usman**; **Vaimann, Toomas**; **Kallaste, Ants**; Pomamacki, Raimondas; Hyunh, Van Khang 2023 IEEE 14th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED) 2023 / p. 430-435 : ill https://doi.org/10.1109/SDEMPED54949.2023.10271451

Preliminary analysis of soft magnetic material properties for additive manufacturing of electrical machines
Tiismus, Hans; **Kallaste, Ants**; **Rassõlkin, Anton**; **Vaimann, Toomas** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 270-275 : ill https://www.scientific.net/KEM.799.270 https://www.ester.ee/record=b5235278*est
https://doi.org/10.4028/www.scientific.net/KEM.799.270 Conference proceeding at Scopus Article at Scopus

Preliminary design analysis of an axial flux yokeless stator switched reluctance machine
Hussain, Shahid; **Kallaste, Ants**; **Naseer, Muhammad Usman**; **Sarap, Martin**; **Tiismus, Hans**; **Vaimann, Toomas** 2023 IEEE 64th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, October 9-10, 2023 : conference proceedings 2023 / 6 p https://doi.org/10.1109/RTUCON60080.2023.10413130

Principles and methods of servomotor control : comparative analysis and applications
Autsou, Siarhei; **Kudelina, Karolina**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** Applied sciences 2024 / art. 2579
https://doi.org/10.3390/app14062579 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Problems in the operation of parallel-series converter when using two switch forward inverter
Niilo, Helar; **Vaimann, Toomas** 7th International Conference-workshop Compatibility and Power Electronics : CPE 2011 : Tallinn, Estonia, June 3, 2011 : student forum 2011 / p. 28-33 : ill

Production and properties of additively manufactured electrical machine cores = Kihtlisandus meetodil valmistatud elektrimasinate magnetsüdamikud ja nende omadused
Tiismus, Hans 2022 https://doi.org/10.23658/taltech.49/2022 https://digikogu.taltech.ee/et/Item/1a6cde04-f268-42c1-95d7-b9a43dd70046
https://www.ester.ee/record=b5511687*est

Production quality related propagating faults of induction machines
Kudelina, Karolina; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 311-315 : ill
https://doi.org/10.1109/ICEPDS47235.2020.9249355

Propulsion drives and control algorithms of electrical vehicles
Mohamed, Mahmoud Ibrahim Hassanin; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** Handbook of power electronics in autonomous and electric vehicles 2024 / p. 139-159 https://doi.org/10.1016/B978-0-323-99545-0.00009-9

Propulsion motor drive topology selection for further development of ISEAUTO self-driving car
Rassõlkin, Anton; **Vaimann, Toomas**; **Kallaste, Ants**; **Sell, Raivo** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill
https://doi.org/10.1109/RTUCON.2018.8659887

Pöörlevate elektrimasinate diagnostika staatorisignaalide analüüsi meetodil
Vaimann, Toomas; **Kallaste, Ants**; **Kilk, Aleksander** Taastuvate energiaallikate uurimine ja kasutamine : neljateistkümnenda konverentsi kogumik = Investigation and Usage of Renewable Energy Sources : fourteenth conference proceedings : [8. nov. 2012, Tartu] 2012 / lk. 78-87 : ill

Quo vadis, Eesti energeetika?
Vaimann, Toomas Riigikogu Toimetised 2023 / lk. 21-24 https://rito.riigikogu.ee/nr-47/quo-vadis-eesti-energeetika/
https://www.ester.ee/record=b1361123*est

Rahvusvaheline elektritoite kvaliteedi ja varustuskindluse konverents PQ2012 möödus edukalt
Vaimann, Toomas; **Kütt, Lauri**; **Järvik, Jaan** Elektriala 2012 / lk. 10-11 : fot

Recent trends in additive manufacturing and topology optimization of reluctance machines

Hussain, Shahid; **Kallaste, Ants**; **Vaimann, Toomas** Energies 2023 / art. 3840 https://doi.org/10.3390/en16093840 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reducing of hanger-to-motor oscillations of galvanic line auto-operator
Autsou, Siarhei; **Rassõlkin, Anton**; **Demidova, Galina**; **Vaimann, Toomas**; Karpovich, Dzmitry; Saroka, Viktor 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 43-48 https://doi.org/10.1109/ICEPDS47235.2020.9249311

Reducing of sparking caused by the parametric modulation of sliding electric contact unit at synchronous machine
Kozyreva, Oksana; Plokhov, Igor; Kotkov, Nikita; **Gevorkov, Levon**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 236-239 : ill http://ise.elnet.ee/record=b2950145~S2*est

Reducing sparking in the transient layer of the sliding electrical contact unit
Kozyreva, Oksana; Plokhov, Igor; Kotkov, Nikita; Savrajev, Igor; Ilyin, Alexander; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Gevorkov, Levon**; **Kallaste, Ants** 2018 19th International Scientific Conference on Electric Power Engineering (EPE 2018) : Brno, Czech Republic, 16 - 18 May 2018 2018 / p. 223-227 : ill https://doi.org/10.1109/EPE.2018.8395969

Residental load harmonics in distribution grid
Niitsoo, Jaan; **Palu, Ivo**; **Kilter, Jako**; **Taklaja, Paul**; **Vaimann, Toomas** The 3rd International Conference on Electric Power and Energy Conversion Systems (EPECS 2013) : [proceedings] 2013 / p. 1-6 : ill

Response surface method for optimization of synchronous reluctance motor rotor
Orlova, Svetlana; Auzins, Janis; Pugachov, Vladislav; **Rassõlkin, Anton**; **Vaimann, Toomas** Machines 2022 / art. 897 https://doi.org/10.3390/machines10100897 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Re-use and recycling of different electrical machines
Rassõlkin, Anton; **Kallaste, Ants**; Orlova, Svetlana; **Gevorkov, Levon**; **Vaimann, Toomas**; **Belahcen, Anouar** Latvian journal of physics and technical sciences 2018 / p. 13-23 : ill https://doi.org/10.2478/lpts-2018-0025 Journal metrics at Scopus Article at Scopus

Review of design freedom offered by additive manufacturing for performance enhancement of electrical machine
Ahmad, Zahoor; **Kallaste, Ants**; **Vaimann, Toomas**; **Naseer, Muhammad Usman**; **Hussain, Shahid**; **Rassõlkin, Anton** IEEE Open Journal of the Industrial Electronics Society 2024 / p. 1300-1323 https://doi.org/10.1109/OJIES.2024.3509547

Review of electric vehicle testing procedures for digital twin development : a comprehensive analysis
Rjabtšikov, Viktor; **Rassõlkin, Anton**; **Kudelina, Karolina**; **Kallaste, Ants**; **Vaimann, Toomas** Energies 2023 / art. 6952 https://doi.org/10.3390/en16196952 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A review of electrical machine design processes from the standpoint of software selection
Daukaev, Kamil; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [6] p. : ill https://doi.org/10.1109/RTUCON.2017.8124818

Review of electrical machine diagnostic methods applicability in the perspective of Industry 4.0
Asad, Bilal; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Belahcen, Anouar** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 108–116 : ill https://doi.org/10.2478/ecce-2018-0013

Review of high voltage instrument transformer condition monitoring
Asefi, Sajjad; **Asad, Bilal**; **Leinakse, Madis**; **Manninen, Henri**; **Kilter, Jako**; **Vaimann, Toomas**; **Kallaste, Ants**; Tealane, Marko; Landsberg, Mart IEEE Transactions on Dielectrics and Electrical Insulation 2024 / 12 p https://doi.org/10.1109/TDEI.2024.3422260

Review of loss calculation reduction control methods of permanent magnet assisted reluctance drive
Melentjev, Sergei; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Vaimann, Toomas** PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 199-206 : ill https://doi.org/10.1109/PQ.2016.7724113

A review of synchronous reluctance motor-drive advancements
Heidari, Hamidreza; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Andriushchenko, Ekaterina**; **Belahcen, Anouar**; Lukichev, Dmitry Sustainability 2021 / art. 729, p. 1-37 https://doi.org/10.3390/su13020729 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Review of the analytical flow model to predict the hydraulic behaviour in electrical machine
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818271

Review of thermal analysis of permanent magnet assisted synchronous reluctance machines
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassõlkin, Anton** PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 219-224 https://doi.org/10.1109/PQ.2016.7724116

A review on additive manufacturing possibilities for electrical machines
Naseer, Muhammad Usman; **Kallaste, Ants**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton** Energies 2021 / art. 1940 https://doi.org/10.3390/en14071940 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Rotor fault diagnostic of inverter fed induction motor using frequency analysis
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton** 2019 IEEE 12th International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives (SDEMPED), 27-30 Aug. 2019, Toulouse, France : proceedings 2019 / p. 127-133 : ill https://doi.org/10.1109/DEMPED.2019.8864903

Sensorless detection of induction motor faults using the clarke vector approach
Vaimann, Toomas; **Kallaste, Ants**; **Kilk, Aleksander** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 43-48 : ill
https://www.researchgate.net/publication/258547195_Sensorless_Detection_of_Induction_Motor_Rotor_Faults_Using_the_Clarke_Vector_Approach

Signal processing and machine learning techniques for predictive maintenance of rotor bars in induction machine
Kudelina, Karolina; **Raja, Hadi Ashraf**; **Rjabtšikov, Viktor**; **Naseer, Muhammad Usman**; **Vaimann, Toomas**; **Kallaste, Ants** 2023 International Conference on Electrical Drives and Power Electronics (EDPE) 2023 / 7 p. : ill
https://doi.org/10.1109/EDPE58625.2023.10274030

Signal spectrum-based machine learning approach for fault prediction and maintenance of electrical machines
Raja, Hadi Ashraf; **Kudelina, Karolina**; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; Khang, Huynh Van Energies 2022 / art. 9507 https://doi.org/10.3390/en15249507 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Simulation of wind turbine vibrations
Andriushchenko, Ekaterina; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Meshkov, Aleksandr**; **Heidari, Hamidreza**; **Demidova, Galina** 2020 27th International Workshop on Electric Drives: MPEI Department of Electric Drives 90th Anniversary (IWED), Moscow, Russia, January 27-30, 2020 2020 / 4 p https://doi.org/10.1109/IWED48848.2020.9069567

Simulation study of a centrifugal pumping plant's power consumption at throttling and speed control
Gevorkov, Levon; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 2017 IEEE 58th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : proceedings : Latvia, Riga, 12-13 October, 2017 2017 / [5] p. : ill http://dx.doi.org/10.1109/RTUCON.2017.8124823

Simulation study of mixed pressure and flow control systems for optimal operation of centrifugal pumping plants
Gevorkov, Levon; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 89-94 : ill https://doi.org/10.2478/ecce-2018-0010

Simulink based model for flow control of a centrifugal pumping system
Gevorkov, Levon; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 2018 25th International Workshop on Electric Drives: Optimization in Control of Electric Drives (IWED) 2018 / p. 1-4 : ill https://doi.org/10.1109/IWED.2018.8321399

Simulink based model of electric drive for throttle valve in pumping application
Gevorkov, Levon; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** 2018 19th International Scientific Conference on Electric Power Engineering (EPE 2018) : Brno, Czech Republic, 16 - 18 May 2018 2018 / p. 256-259 : ill
https://doi.org/10.1109/EPE.2018.8395996

Sliding mean value subtraction-based DC drift correction of B-H curve for 3D-printed magnetic materials
Asad, Bilal; **Tiismus, Hans**; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Ghahfarokhi, Payam Shams** Energies 2021 / art. 284, 10 p https://doi.org/10.3390/en14020284 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Slow-speed ring-shaped permanent magnet generator for wind applications
Kallaste, Ants; **Vaimann, Toomas**; **Pabut, Ott** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 66-69 : ill

Small magnus wind turbine : modeling approaches
Lukin, Aleksandr; **Demidova, Galina**; **Rassõlkin, Anton**; Lukichev, Dmitry; **Vaimann, Toomas**; Anuchin, Alecksey Applied sciences 2022 / art. 1884 https://doi.org/10.3390/app12041884 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Spectrum analysis additional vibrations of Cartesian robot by different control modes
Autsou, Siarhei; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kudelina, Karolina** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 5 l. https://doi.org/10.1109/BEC56180.2022.9935595

State of the art of additively manufactured electromagnetic materials for topology optimized electrical machines
Tiismus, Hans; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton** Additive manufacturing 2022 / art. 102778, 19 p. : ill https://doi.org/10.1016/j.addma.2022.102778 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

State-of-the-Art techniques for fault diagnosis in electrical machines: Advancements and future directions
Akbar, Siddique; **Vaimann, Toomas**; **Asad, Bilal**; **Kallaste, Ants**; **Sardar, Muhammad Usman**; **Kudelina, Karolina** Energies 2023 / Art. 6345 https://doi.org/10.3390/en16176345 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Stator voltage analysis of frequency converter fed induction generator with broken rotor bars
Vaimann, Toomas; **Belahcen, Anouar**; Martinez, Javier; **Kilk, Aleksander** 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 249-251 : ill

Steady-state thermal model of a synchronous reluctance motor
Shams Ghahfarokhi, Payam; **Belahcen, Anouar**; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 5 p. : ill https://doi.org/10.1109/RTUCON.2018.8659846

Steady-state thermal modeling of salient pole synchronous generator
Ghahfarokhi, Payam Shams; Podgornovs, Andrejs; **Kallaste, Ants**; Cardoso, Antonio J. Marques; **Belahcen, Anouar**; **Vaimann, Toomas**; Kudrjavtsev, Oleg; **Asad, Bilal**; **Iqbal, Muhammad Naveed** Energies 2022 / art. 9460 https://doi.org/10.3390/en15249460 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Study of bearing currents in induction machine : diagnostic possibilities, fault detection, and prediction
Kudelina, Karolina; **Raja, Hadi Ashraf**; **Naseer, Muhammad Usman**; **Autsou, Siarhei**; **Asad, Bilal**; **Vaimann, Toomas**; **Kallaste, Ants** Electrical engineering 2024 / 14 p. : ill https://doi.org/10.1007/s00202-024-02411-x Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A survey of broken rotor bar fault diagnostic methods of induction motor
Asad, Bilal; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Belahcen, Anouar** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 117–124 : ill https://doi.org/10.2478/ecce-2018-0014

TalTech is helping to raise the quality of technical higher education in Belarus
Vaimann, Toomas studyinestonia.eu 2021 / 1 p https://www.studyinestonia.ee/news/taltech-helping-raise-quality-technical-higher-education-belarus

Teadlased käisid Nepalis ja Bhutanis elutarkust ammutamas ja jagamas
Tamm, Liivi TööstusEST 2024 / lk. 30-31 : fot https://www.ester.ee/record=b4481084*est

Teadlased käisid Nepalis ja Bhutanis elutarkust ammutamas ja jagamas
Tamm, Liivi toostusest.ee 2024 Teadlased käisid Nepalis ja Bhutanis elutarkust ammutamas ja jagamas

Teadus ja igapäevaelu : teadussaavutuste rakendamine praktikas
Alvela, Ain Tehnikamaailm 2024 / lk. 68-73 : ill., fot., portr https://www.ester.ee/record=b1073050*est

Teaduspreemia tehnikateaduste alal tööde tsükli "Kihtlisandustehnoloogial põhinevad elektrimasinad" eest : Toomas Vaimann, Anton Rassõlkin, Ants Kallaste (kollektiivi juht) ja Hans Tiismus
Vaimann, Toomas; **Rassõlkin, Anton**; **Kallaste, Ants**; **Tiismus, Hans** Eesti Vabariigi preemiad 2022 : teadus. F. J. Wiedemanni keeleauhind. Kultuur. Sport 2022 / lk. 130-145 : ill., fot https://www.ester.ee/record=b1226072*est

Technologies for additive manufacturing of electrical machines
Tiismus, Hans; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2019 20th International Conference of Young Specialists on Micro/Nanotechnologies and Electron Devices (EDM) 2019 / p. 651-655 : ill https://doi.org/10.1109/EDM.2019.8823462

Tehnikaülikooli elektriala tudengid on Eesti parimad
Vaimann, Toomas; **Kilter, Jako** Elektriala 2021 / lk. 6-8 : ill https://www.ester.ee/record=b1240496*est

Tehnikaülikoolist elektriinseneriks - energiamuundus- ja juhtimissüsteemide magistriõpe
Vaimann, Toomas Elektriala 2020 / lk. 10 -11 : portr http://www.ester.ee/record=b1240496*est

The cluster computation-based hybrid FEM–analytical model of induction motor for fault diagnostics
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Iqbal, Muhammad Naveed** Applied sciences 2020 / art. 7572, 15 p. : ill https://doi.org/10.3390/app10217572 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The cluster computation-based hybrid FEM–analytical model of induction motor for fault diagnostics
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Iqbal, Muhammad Naveed** Advances in machine fault diagnosis 2022 / p. 27-41 https://doi.org/10.3390/app10217572

The low voltage start-up test of induction motor for the detection of broken bars
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Heidari, Hamidreza** 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1481-1487 https://doi.org/10.1109/ICEM49940.2020.9271018

The usage of fuzzy logic for detecting mechanical faults in gearboxes of robotic system
Autsou, Siarhei; **Kudelina, Karolina**; **Vaimann, Toomas**; **Rassõlkin, Anton** 2024 International Conference on Electrical Machines (ICEM) 2024 / 7 p https://doi.org/10.1109/ICEM60801.2024.10700425

The Use of DigSilent Power Factory Simulator for "Introduction into Power Systems" Lectures
Astapov, Victor; **Palu, Ivo**; **Vaimann, Toomas** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 95–99 : ill https://doi.org/10.2478/ecce-2018-0011

Thermal analysis of a SynRM using a thermal network and a hybrid model
Shams Ghahfarokhi, Payam; **Belahcen, Anouar**; **Kallaste, Ants**; **Vaimann, Toomas**; **Gevorkov, Levon**; **Rassõlkin, Anton** 2018 XIII International Conference on Electrical Machines (ICEM 2018) : Alexandroupoli, Greece, 3-6 September 2018 2018 / p. 2682-2688 : ill https://doi.org/10.1109/ICELMACH.2018.8507002

Thermal analysis of electromagnetic levitation coil [Electronic resource]
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas** 2016 17th International Scientific Conference on Electric Power Engineering (EPE) : proceedings 2016 / [5] p. : ill. [USB] https://doi.org/10.1109/EPE.2016.7521725

Thermal analysis of salient pole synchronous machines by multiple model planes approach
Shams Ghahfarokhi, Payam; **Kallaste, Ants**; Podgornovs, Andrejs; **Belahcen, Anouar**; **Vaimann, Toomas**; Kudrjavtsev, Oleg 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1511–1517 https://doi.org/10.1109/ICEM49940.2020.9270753

Thermal analysis of the PM generator with outer rotor for wind turbine application
Kudrjavtsev, Oleg; **Kilk, Aleksander**; **Vaimann, Toomas** PQ2016 : the 10th International Conference 2016 Electric Power Quality and Supply Reliability Conference (PQ) : August 29-31, 2016, Tallinn, Estonia : proceedings 2016 / p. 229-232 : ill https://doi.org/10.1109/PQ.2016.7724118

Thermal analysis of totally enclosed fan cooled synchronous reluctance motor-state of art
Ghahfarokhi, Payam Shams; **Kallaste, Ants**; **Vaimann, Toomas**; **Belahcen, Anouar** IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4372-4377 : ill https://doi.org/10.1109/IECON.2019.8927706 Conference proceedings at Scopus Article at Scopus Article at WOS

Thermal modeling of a TEFC synchronous reluctance motor
Shams Ghahfarokhi, Payam; Podgornovs, Andrejs; Marques Cardoso, Antonio J.; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 15-17 Nov. 2021 : conference proceedings 2021 / 4 p. : ill https://doi.org/10.1109/RTUCON53541.2021.9711740

3D printing of electrical machines is a cutting-edge research in TalTech [Electronic resource]
Kallaste, Ants; **Vaimann, Toomas** Research in Estonia 2021 / 1 p. : ill https://researchinestonia.eu/2021/10/14/3d-printing-of-electrical-machines-is-a-cutting-edge-research-in-taltech/

Three-phase electrical equivalent model for squirrel cage induction motor
Petrov, Aleksei; **Rassõlkin, Anton**; **Vaimann, Toomas**; Plokhov, Igor; **Kallaste, Ants**; Kotelnikov, Aleksandr; **Asad, Bilal**; Savraev, Igor 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 6 p. : ill https://doi.org/10.1109/PQ.2019.8818241

Time dependency of current harmonics for switch-mode power supplies
Iqbal, Muhammad Naveed; **Kütt, Lauri**; **Asad, Bilal**; **Vaimann, Toomas**; **Rassõlkin, Anton**; Demidova, Galina Applied sciences 2020 / art. 7806, 12 p. : ill https://doi.org/10.3390/app10217806 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Toomas Vaimann: energeetikasektori omapäraks on pikaajalisus
Vaimann, Toomas err.ee 2023 Toomas Vaimann: energeetikasektori omapäraks on pikaajalisus

Topology optimization and additive manufacturing of a loudspeaker soft magnetic core
Sarap, Martin; **Pärtel, Marcus**; **Kallaste, Ants**; **Tiismus, Hans**; **Vaimann, Toomas** 2024 International Conference on Electrical and Computer Engineering Researches (ICECER) 2024 / 5 p https://doi.org/10.1109/ICECER62944.2024.10920438

Transient modeling and recovery of non-stationary fault signature for condition monitoring of induction motors
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; Ghahfarokhi, Payam Shams; **Kudelina, Karolina** Applied sciences 2021 / 17 p. : ill https://doi.org/10.3390/app11062806 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Transient modeling and recovery of non-stationary fault signature for condition monitoring of induction motors
Asad, Bilal; **Vaimann, Toomas**; **Belahcen, Anouar**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Ghahfarokhi, Payam Shams** Advances in machine fault diagnosis 2022 / p. 43-59 https://doi.org/10.3390/app11062806

Trends and challenges in intelligent condition monitoring of electrical machines using machine learning
Kudelina, Karolina; **Vaimann, Toomas**; **Asad, Bilal**; **Rassõlkin, Anton**; **Kallaste, Ants**; **Demidova, Galina** Applied sciences 2021 / art. 2761, 19 p. : ill https://doi.org/10.3390/app11062761 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

2 switch forward inverter for parallel-series resonance alternating (PSA) converter for supplying electric welding arc
Niilo, Helar; **Vaimann, Toomas** 10th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 10-15, 2011 2011 / p. 140-144 : ill

Töötav elektrimootor otse printerist – jah, see on võimalik!
Vaimann, Toomas Õhtuleht 2022 / Lk. 19 https://dea.digar.ee/article/ohtuleht/2022/03/12/14

Uncertainty quantification of input parameters in a 2D finite-element model for broken rotor bar in an induction machine
Billah, Md Masum; Martin, Floran; **Belahcen, Anouar**; Balasubramanian, Aswin; **Vaimann, Toomas**; Sobra, Jan IEEE transactions on magnetics 2022 / art. 8205804 https://doi.org/10.1109/TMAG.2022.3173663 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Using a fuzzy regulator to reduce noise
Shumski, Andrei; **Rassõlkin, Anton**; Autsou, Siarhei; Karpovich, Dzmitry; **Kallaste, Ants**; **Vaimann, Toomas** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärdla, Estonia, June 12-15, 2019 : proceedings 2019 / 4 p. : ill https://doi.org/10.1109/PQ.2019.8818257

Using analysis of stator current for squirrel-cage induction motor rotor faults diagnostics
Vaimann, Toomas; **Kallaste, Ants**; **Kilk, Aleksander** Electrical and Control Technologies : Proceedings of the 6th International Conference on Electrical and Control Technologies (ECT-2011), May 5-6, 2011, Kaunas, Lithuania 2011 / p. 245-250 : ill

Using Clarke vector approach for stator current and voltage analysis on induction motors with broken rotor bars
Vaimann, Toomas; **Kallaste, Ants**; **Kilk, Aleksander** Elektronika ir elektrotechnika = Electronics and electrical engineering 2012 / p. 17-20 : ill

Utilization of additive manufacturing in the thermal design of electrical machines : a review
Sarap, Martin; **Kallaste, Ants**; **Ghahfarokhi, Payam Shams**; **Tiismus, Hans**; **Vaimann, Toomas** Machines 2022 / art. 251 https://doi.org/10.3390/machines10040251 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Uued inimesed ja positsioonid
Kiigema, Kadri; **Sibinski, Maciej**; **Bauk, Sanja**; **Kujala, Pentti Jouko Sakari**; **Levo, Anu-Mai**; **Vaimann, Toomas** Mente et Manu 2023 / lk. 44-47 : fot https://www.ester.ee/record=b1242496*est

Uus õppeaine annab tudengile kinnituse, et ta õpib õiget asja
Sommer, Sven Mente et Manu 2018 / lk. 44-45 : fot http://www.ester.ee/record=b1242496*est http://dea.digar.ee/publication/AKmenteetmanu https://www.ttu.ee/public/m/mente-et-manu/MM_05_2018/mobile/index.html https://artiklid.elnet.ee/record=b2868942*est

Validation of an EV-permanent magnet synchronous motor model based on analytical dynamic approach
Mohamed, Mahmoud Ibrahim Hassanin; **Rjabtšikov, Viktor**; **Rassõlkin, Anton**; **Vaimann, Toomas**; **Kallaste, Ants** 2022 International Conference on Electrical Machines (ICEM) 2022 / p. 2384-2390 https://doi.org/10.1109/ICEM51905.2022.9910755

Vector control of synchronous reluctance motor with reduced torque ripples
Heidari, Hamidreza; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas**; **Andriushchenko, Ekaterina** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2021 / p. 223-227 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249309

Vibration and stator current spectral analysis of induction machine operating under dynamic eccentricity

Sobra, Jan; **Belahcen, Anouar**; **Vaimann, Toomas** 2015 International Conference on Electrical Drives and Power Electronics (EDPE) : 18th International Conference, 7th Joint Slovakian-Croatian Conference : proceedings : Hotel Slovan, Tatranska Lomnica, The High Tatras, Slovakia, September 21-23, 2015 2015 / p. 285-290 : ill http://dx.doi.org/10.1109/EDPE.2015.7325307

Wideband frequency response analysis for sensitive condition estimation of machine's turn insulation degradation faults
Sardar, Muhammad Usman; **Vaimann, Toomas**; **Kütt, Lauri**; **Asad, Bilal**; **Kallaste, Ants**; **Land, Raul** 2025 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) 2025 / 6 p https://doi.org/10.1109/WEMDCD61816.2025.11014207

Winding function based analytical model of squirrel cage induction motor for fault diagnostics
Asad, Bilal; **Vaimann, Toomas**; **Kallaste, Ants**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2019 26th International Workshop on Electric Drives : Improvement in Efficiency of Electric Drives (IWED) : Moscow Power Engineering Institute, Moscow, Russia, 30th of January - 2nd of February 2019 : proceedings 2019 / 6 p. : ill https://doi.org/10.1109/IWED.2019.8664314

Visual-interactive simulation models in electrical power engineering and mechatronics programs for distance education at ITMO university
Usoltcev, Aleksandr; Lukichev, Dmitry; Demidova, Galina; **Rassõlkin, Anton**; **Vaimann, Toomas** 2020 XI International Conference on Electrical Power Drive Systems (ICEPDS), Saint-Petersburg, Russia, October 4-7, 2020 2020 / p. 280-284 : ill https://doi.org/10.1109/ICEPDS47235.2020.9249365

Каролина Куделина - Технический студент года 2021
Vaimann, Toomas Meie Leht 2021 / с. 4 http://narva-joesuu.ee/documents/2032926/30038466/Meie_Leht_DETSEMBER_2021_RU.pdf/bf177e2c-2aa3-4d44-933b-eeedf407a2b0

Каролина Куделина стала призером национального конкурса [Online resource]
Vaimann, Toomas Meie Leht 2021 "Каролина Куделина стала призером национального конкурса"

Обзор низкоскоростных генераторов с постоянными магнитами для ветряных установок
Rassõlkin, Anton; **Kallaste, Ants**; **Vaimann, Toomas**; Savrajev, Igor Вестник Псковского государственного университета. Технические науки 2016 / с. 58-68

Технико-экономическое обоснование автономной системы электроснабжения на примере Псковской области
Bandurin, Ivan; Shchelikalin, Vyacheslav; Smirnova, Anastasia; **Rassõlkin, Anton**; **Kallaste, Ants**; **Vaimann, Toomas** Вестник Псковского государственного университета. Технические науки 2016 / с. 100-109