

**Automated identification of application-dependent safe faults in automotive systems-on-a-chips**  
**Bagbaba, Ahmet Cagri**; Augusto da Silva, Felipe; Sonza Reorda, Matteo; Hamdioui, Said; **Jenihhin, Maksim**; Sauer, Christian  
Electronics 2022 / art. 319 <https://doi.org/10.3390/electronics11030319> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Comparative analysis of machine learning techniques for non-intrusive load monitoring**  
**Shabbir, Noman**; **Vassiljeva, Kristina**; **Hokmabad, Hossein Nourollahi**; **Husev, Oleksandr**; **Petlenkov, Eduard**; **Belikov, Juri**  
Electronics 2024 / art. 1420 <https://doi.org/10.3390/electronics13081420>

**Comprehensive comparative analysis of impedance-source networks for DC and AC application**  
**Husev, Oleksandr**; Shults, Tatiana; **Vinnikov, Dmitri**; **Chub, Andrii** Electronics 2019 / 21 p. : ill  
<https://doi.org/10.3390/electronics8040405> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**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>

**An experimental study of building blocks of lattice-based NIST post-quantum cryptographic algorithms**  
**Imran, Malik**; **Abideen, Zain Ul**; **Pagliarini, Samuel Nascimento** Electronics 2020 / art. 1953, 26 p. : ill  
<https://doi.org/10.3390/electronics9111953> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Feasibility study of interleaving approach for Quasi-Z-Source inverter**  
**Stepenko, Serhii**; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Fesenko, Artem; **Matiushkin, Oleksandr** Electronics 2020 / art. 277, 11 p. : ill <https://doi.org/10.3390/electronics9020277> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Food recognition and food waste estimation using convolutional neural network**  
Lubura, Jelena; Pezo, Lato; Sandu, Mirela Alina; **Voronova, Viktoria**; Donsi, Francesco; Šic Žlabur, Jana; Ribic, Bojan; Peter, Anamarija; Šuric, Jona; Brandic, Ivan; **Klöga, Marija** Electronics 2022 / art. 3745 <https://doi.org/10.3390/electronics11223746> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Forecasting of wind speed and power through FFNN and CFNN using HPSOBA and MHPSO-BAACs techniques**  
Ellahi, Manzoor; Usman, Muhammad Rehan; Arif, Waqas; Usman, Hafiz Fuad; Khan, Waheed A.; Satrya, Gandeva Bayu; **Daniel, Kamran**; **Shabbir, Noman** Electronics 2022 / art. 4193 <https://doi.org/10.3390/electronics11244193> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Improved fractional open circuit voltage MPPT methods for PV systems**  
Baimel, Dmitry; Tapuchi, Saad; Levron, Yoash; **Belikov, Juri** Electronics 2019 / art. 321 <https://doi.org/10.3390/electronics8030321> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Improvements on the carrier-based control method for a three-level T-type, quasi-impedance-source inverter**  
Barbero-Gonzalez, Fermin; Roncero-Clemente, Carlos; Milanes-Montero, Maria Isabel; **Husev, Oleksandr** Electronics 2019 / art. 677, 12 p. : ill <https://doi.org/10.3390/electronics8060677> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**A modified dynamic model of single-sided linear induction motors considering longitudinal and transversal effects**  
**Heidari, Hamidreza**; **Rassölklin, 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 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**; **Rassölklin, 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 at WOS Article at WOS

**New high-gain transformerless DC/DC boost converter system**  
Ahmed, Hassan Yousif; **Abdelrahim Abdelghafour, Omar Mohamed**; Ali, Ziad M. Electronics 2022 / art. 734  
<https://doi.org/10.3390/electronics11050734> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Operating wireless sensor nodes without energy storage : experimental results with transient computing**  
**Ahmed, Faisal**; **Ahmed, Tauseef**; Muhammad, Yar; **Le Moullec, Yannick**; **Annus, Paul** Electronics 2016 / art. 89, p. 1-14 : ill  
<http://dx.doi.org/10.3390/electronics5040089>

**Optimization of a 3D-printed permanent magnet coupling using genetic algorithm and Taguchi method**  
**Andriushchenko, Ekaterina**; **Kallaste, Ants**; **Belahcen, Anouar**; **Vaimann, Toomas**; **Rassölklin, 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](#)

**Quasi-Z source T-type power converter for PV based commercial and industrial nanogrids with active functions strategy**

Barrera-Gonzalez, Fermin; Roncero-Clemente, Carlos; Milanes-Montero, Maria Isabel; Gonzalez-Romera, Eva; Romero-Cadaval, Enrique; **Husev, Oleksandr** Electronics 2020 / art. 1233, 18 p. : ill <https://doi.org/10.3390/electronics9081233> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Robust design optimization of electrical machines and devices : editorial**

Orosz, Tamas; Panek, David; **Rassolkin, Anton**; Kuczmann, Miklos Electronics 2022 / art. 1427

<https://doi.org/10.3390/electronics11091427> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Topological review of quasi-switched boost inverters**

Barath, Jayakumar Geetha Nataraj; Soundarajan, Ayyasamy; Stepenko, Serhii; **Husev, Oleksandr**; Vinnikov, Dmitri; Nguyen, Minh-Khai Electronics 2021 / art. 1485 <https://doi.org/10.3390/electronics10121485> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Wide-range operation of high step-up DC-DC converters with multimode rectifiers**

Chub, Andrii; Vinnikov, Dmitri; Korkh, Oleksandr; Jalakas, Tanel; Demidova, Galina Electronics 2021 / art. 914, 20 p. : ill

<https://doi.org/10.3390/electronics10080914> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)