

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](#)

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 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](#)

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>

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

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Determination of natural convection heat transfer coefficient over the fin side of a coil system

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Development of analytical thermal analysis tool for synchronous reluctance motors

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The effect of build direction on the thermal conductivity of additively manufactured AIS10Mg and silicon-steel samples

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Hybrid thermal model of a synchronous reluctance machine

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Integrating smart energy management system with internet of things and cloud computing for efficient demand side management in smart grids

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