

Pubs Education: Transparent Peer Review

We encourage our authors and reviewers to participate in the *IEEE Open Journal of Power Electronics* (OJPEL) Transparent Peer Review (TPR) pilot program. Note that reviewers now can participate and publish their reviews anonymously. There is an option to publish reviewers' names alias, but that is not mandatory. Launched in 2025, the opt-in initiative allows the publication of reviewer reports, editor decision letters, and author responses alongside articles to increase transparency and accountability. This transparent model aims to improve scholarly dialogue. Here are two papers that participated in the TPR. If you would like to participate in a Transparent Peer Review, please **submit** a manuscript.

“Impact of Encapsulation on the Core Loss of Ferrites in Inductive Power Transfer” by Alexander K. Bailey, Willsen Wijaya, Seho Kim, Jerry Sun, Tom Allen, and Grant A. Covic.

“Open-Circuit Fault Diagnosis for Charging Modules Based on Transfer Light Gradient Boosting Machine” by Quanxue Guan, Jiabei Hu, Xue Hu, Yuqian Fan, Qingling Cai, and Xiaojun Tan.

Call for Papers: PELS Publications

JESTPE

Special Issue: Ultra-wide Bandgap Power Devices, Circuits, and Applications

Deadline for Submission of Manuscripts: April 15, 2026

Guest Editors: J. Enslin, O. Spahn, and T. Liang

JESTPE's Call for Special Issues (SIs) is permanently open. Prospective authors who are interested in proposing and pursuing a new special issue are encouraged to **email**

Sudip K. Mazumder, JESTPE Deputy EiC.

JWPT (the new IEEE Journal on Wireless Power Technologies)

Special Issue: Wireless Power in Space

Deadline for Submission of Manuscripts: July 1, 2026

Guest Editors: Neil Buchanan, Alessandra Costanzo, Nuno Borges Carvalho, Greg Durgin

TPEL

Special Section: Advanced Model Predictive Control for Resilient Converter-Dominated Electrical Grids

Deadline for Submission of Manuscripts: April 15, 2026

Guest Editors: Jose Rodriguez, Zhenbin Zhang

Special Section: Power Semiconductor Devices: From Modeling & Characterization to Gate Driving and AI-Enabled Technologies

Deadline for Submission of Manuscripts: April 15, 2026

Guest Editors: Alan Mantooth, Leo Lorenz

Special Section: High-Power Electronics for Modern Energy Grids

Deadline for Submission of Manuscripts: April 15, 2026

Guest Editors: Giovanni De Carne, Jinpeng Wu, Drazen Dujic

Special Section: Grid-Forming Technologies under Converter and Resource Constraints

Deadline for Submission of Manuscripts: April 15, 2026

Guest Editors: Dominic Gross, Yunjie Gu

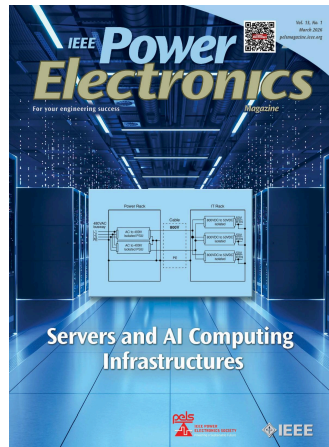
TPEL Letters

Special Section: Cyber-Security in Power Electronics Systems: Modeling, Detection, and Resilience

Deadline for Submission of Manuscripts: Extended to April 30, 2026

Guest Editors: Zhi Jin (Justin) Zhang, Reynaldo Nuqui

IEEE Power Electronics Magazine



March 2026 Issue

The March 2026 issue is now available [online](#). It focuses on Servers and AI Computing Infrastructures. The issue includes a healthy feature well, industry news, column assortment, and Society News.

Discover Previous Issues

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IEEE Transactions on Power Electronics (TPEL)

Call for TPEL Associate Editors

TPEL is accepting applications and nominations for Associate Editors. Please visit the [website](#) for application requirements.

April 2026 Highlighted Papers

TPEL editors have selected a few papers to highlight from the [April 2026](#) issue.

“Phase Current Reconstruction for Y-Type Converter Fed Switched Reluctance Motors Drive With Fault-Tolerant Ability” by Xinzhen Shan, Chun Gan, Haotian Ren, Chong Zhang, Hongzhe Wang, Jianbo Sun, Shuanghong Wang, and Ronghai Qu. In this article, aiming to improve the SRM drive reliability, a novel Y-type converter topology is developed without adding extra power switches. This topology provides two distinct flow paths for the phase current. By adjusting the flow path properly, normal operation of the SRM when an open-circuit fault occurs in the upper switch can be achieved. Besides, a precise phase current reconstruction strategy based on this Y-type topology without voltage penalty is proposed. In this strategy, the relationship between the bus current and the phase current under different switch states are discussed and summarized. Then, the phase currents can be reconstructed based on the dc-bus current by changing the switch states properly, and no additional high-frequency pulse injection is required. When adopting the proposed strategy, the SRM drive reliability is improved and all the phase currents can be accurately obtained using only a single current sensor. Experimental validation is conducted using a 750-W 12/8 SRM to confirm the fault tolerance and current reconstruction ability of the proposed scheme.

“Hybrid Mechanism- and Data-Driven Joint Parameter Identification for Underwater Wireless Power Transfer Systems” by Zhixin Chen, Qingxin Yang, Xian Zhang, Fei Xu, Xiquan Deng, Yize Wei, Junwei Liu, and Chi K. Tse. A hybrid mechanism- and data-driven method for joint identification of mutual inductance and load in LCC-S compensated UWPT systems is proposed. A multifrequency excitation strategy is introduced to resolve linear dependence and parameter coupling, enabling accurate identification using only TX-side voltage sampling. The TL is applied to

improve generalization and eliminate the gap between mechanism modeling and actual application by training an ANN on mechanism-derived data and fine-tuning with limited experimental samples.

If you would like to submit a paper to TPEL, please submit [here](#).

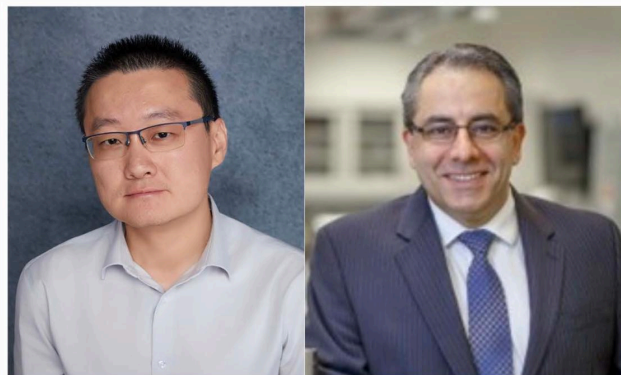
IEEE Power Electronics Letters

The **April 2026** issue of TPEL features 23 Letters advancing the state of the art in power electronics. Here are two highlighted Letters selected by the editors.

“A Self-Activating Snubber Circuit for MMC to Improve Submodule Transient Voltage Performance” by Xiangxi Mu, Xiangyu Zhang, Zhanwei Wang, Sihang Wu, and Lei Qi. This paper introduces a self-activating, gap-based snubber circuit designed to protect IGBTs in modular multilevel converters (MMCs) from turn-off overvoltage during transient faults. Experimental results confirm that this selective activation effectively mitigates voltage stress, providing a reliable, low-loss, and cost-effective solution for enhancing MMC stability.

“1000 V, 10 MHz Voltage Multiplier Based on Monolithically Integrated GaN-on-Sapphire Diode Bridge IC” by Zineng Yang, Xin Yang, Hehe Gong, Hongchang Cui, Hengbo Zhang, Ning Yan, Xipei Yu, Yuan Qin, Yibo Wang, Xiaosheng Wang, Chaoqiang Jiang, Han Wang, Dong Dong, Qiang Li, and Yuhao Zhang. This paper presents a monolithically integrated GaN-on-sapphire diode bridge IC enabling kilovolt voltage multipliers to operate at ultra-high frequencies up to 10 MHz. Integrating multiple diodes minimizes parasitic losses, allowing the device to successfully rectify a 10 MHz AC input to over 1000 V DC. This demonstrates the viability of GaN-on-sapphire ICs for next-generation high-power, high-frequency power electronics.

IEEE Transactions on Transportation Electrification (TTE)



PELS is pleased to announce new editors for TTE. **Fei Gao** (left) is now TTE Editor-in-Chief, previously the journal's Deputy EiC. He is a full professor at the School of Energy and Computer Science at the University of Technology of Belfort-Montbéliard (UTBM), located in Belfort, France. In addition, he is Executive Director of Research, Doctoral Studies, and Innovation at UTBM. **Babak Fahimi** (right), previously Area Editor, is now Deputy Editor-in-Chief. He is a professor of Electrical and Computer Engineering at the University of Texas at Dallas, USA. He also holds the Distinguished Chair of Engineering.

Authors are encouraged to submit their manuscripts for publication in TTE. All manuscripts can be submitted through the [IEEE Author Portal](#). To read the April 2026 issue of TTE, please visit [Xplore](#).

IEEE Open Journal of Power Electronics (OJPEL)

The editors of *IEEE Open Journal of Power Electronics* (OJPEL) welcome submissions to the journal. Please submit your paper through the [IEEE Author Portal](#). To read papers from Volume 7 of OJPEL, please visit [Xplore](#).

IEEE Journal of Emerging and Selected Topics in Power Electronics (JESTPE)

The April 2026 issue of JESTPE is now available through [Xplore](#). The issue features a **Special Issue on Interactive Power Converters for Renewable Energy Grid-Tied Systems**. If you would like to submit a paper to JESTPE, please visit the [IEEE Author Portal](#).

IEEE Journal on Wireless Power Technologies (JWPT)



Rethinking Control in Wireless Charging Systems

“**Shifting Maximum Efficiency Point Tracking and Battery Model to the Primary-Side Control of SS-Compensated Wireless Charging Systems**” by Junming Zeng, Kerui Li, Yun Yang, and Shu Yuen Ron Hui.

In one of the first papers published in the inaugural issue of the *IEEE Journal on Wireless Power Technologies*, researchers propose a primary-side control strategy that shifts complexity away from the receiver—enabling simpler, lighter, and more efficient wireless charging systems. The work demonstrates how battery behavior can be accurately modeled and controlled directly from the primary side—even under demanding fast-charging conditions. The approach

enables high efficiency across the entire charging process, fast and robust tracking, and simplified receiver designs for applications such as medical implants, mobile devices, and drones. Experimental validation shows efficiencies of up to 94.3%.

If you would like to submit a paper to JWPT, please visit the [IEEE Author Portal](#).

IEEE Electrification Magazine



The March 2026 issue of *IEEE Electrification Magazine* focuses on battery technologies for transportation electrification. This issue launches a new series of themed editions led by guest editors who are recognized research and engineering experts in their respective fields.

If you are interested in submitting an article to the magazine, please [email](#) the editorial team. For detailed submission guidelines, visit the magazine [website](#).





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