

Pubs Education: Self-Citation

The Power Electronics Society (PELS) Publications team strives to educate its authors and reviewers. In a recent newsletter, we discussed the issue of excessive self-citation. Excessive self-citation is generally deemed inappropriate. Concerns over self-citation can lead to exclusion from the Web of Science database for conference proceedings or journals. In alignment with this education, PELS implemented a mandatory question and check box in the IEEE Author Portal. In place since the fall of 2025, PELS authors must address this question before advancing in the manuscript submission process. This question reads:

Self-citation occurs when authors excessively reference their own papers in their work. It can also arise when an author repeatedly cites the work of another author, which is known as redundant citation or repeated authors in the reference section. Although there are exceptions, particularly in niche research areas, most instances of self-citation stem from inadequate literature reviews. Authors may end up citing their own work, or that of others, more frequently than necessary. PELS conferences and journals implement measures to scrutinize the reference sections of manuscripts. Papers with high rates of self-citation may be returned to authors for improvements in the literature review.

PELS continues to work in conjunction with IEEE on publication ethics to ensure that all of its publications uphold academic integrity. You can read more about publication ethics through the [IEEE Author Center](#).

Screenshot of the IEEE Author Portal self-citation question.

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Confirm →

PELS Member-at-Large Nominations

Interested in helping shape the future of IEEE PELS? You can run for election as an Administrative Committee Member-at-Large (AdCom MAL) by petition. To be placed on the ballot, candidates must gather 183 signatures from eligible members by August 1, 2026. Submit your petition request, along with a photo, brief biography (350 words), and candidate statement (150–250 words) to Brad Lehman ([submit your petition here](#)) by June 15, 2026. IEEE staff will then set up an electronic petition site to collect signatures. For info on the responsibilities of AdCom MALs, visit the [IEEE PELS Governance page](#).

Call for Papers: PELS Publications

Our 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

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

Call for Post-Journal Presentations: ECCE 2026

ECCE 2026 is calling on authors of 2025/2026 journal articles to present their work live in Vancouver, Canada, and you only have one week left to submit. If you've published in any of the following IEEE PELS journals, this is your moment:

JESTPE

OJPEL

TPEL

TTE

Important Dates

Submission Deadline: June 12, 2026

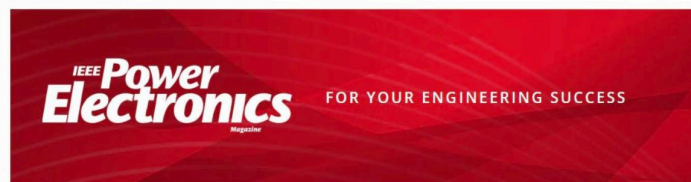
Notification: July 10, 2026

Don't let this opportunity slip by. Presenting at ECCE 2026 means putting your research in front of the global energy conversion community, live, in person, and where it matters most.

Please note: This is a presentation-only opportunity. Your article must already be published and will not appear in conference proceedings.

For more information, visit [online](#).

IEEE Power Electronics Magazine



Welcome to the June Newsletter! We are working fast and furious to wrap up the June issue. Here is a preview of some of the content. The theme is Motor Drives and Robotics. Some of the features planned include the following.

- Driving Smart Actuators in Humanoid Robots
- Commercialization and Cost-Optimization of a Hybrid Si/SiC EV Traction Inverter with Minimum Power Semiconductor Die Area
- Weight Reduction for Airborne Electric Motors Due to Higher Frequency
- Bio-inspired Power Electronics Systems: A Path Towards Extreme Resiliency
- The Time Dependence of Reverse Recovery Charge and its role in Advanced Power MOSFETs and Applications
- FEPPCON XII: Sustainable Power Electronics Technology
- Tales of a Cycling Power Electronics Engineer
- And an exclusive feature - stay tuned!

Discover Previous Issues

For more editorial from previous issues of the magazine, please visit our [website](#). You will find Open Access columns, podcasts, and much more.

Submit a Feature Proposal

In addition to solicited articles, the magazine also accepts articles contributed by practicing power electronics engineers, experienced designers, and researchers from either industry or academia. These articles offer effective use of the state-of-the-art electronic components and semiconductor devices, application of control theory and circuit design techniques, and the development of analytical tools used in efficient and effective energy conversion, control, utilization, and conditioning of electric power. If you are interested in contributing an original article, please [email](#) an abstract of the article (less than 250 words) to the Editor-in-Chief. The abstract should be a one paragraph description of your topic of interest, explaining why it is important and what new information or value it brings to the readers of *IEEE Power Electronics Magazine*.

IEEE Transactions on Power Electronics (TPEL)

Call for TPEL Associate Editors

Would you like to be a part of the *IEEE Transactions on Power Electronics* AE team? We are currently accepting applications for new Associate Editors.

Minimum Requirements for AE Applicants

IEEE Senior Member or the equivalent number of years.

Applicants from Academia: 8 or more journal papers in the last 5 years, of which, at least 4 should be in *IEEE Transactions on Power Electronics*.

Applicants from Industry: 2 or more journal papers in the last 10 years, of which, at least 1 should be in *IEEE Transactions on Power Electronics*.

The Application Package

1. A recent CV.
2. A list of published journal papers and patents in the last 10 years.
3. At least one recommendation letter.
4. TPEL AE Application Form.
5. A list of 10 reviewers to add to the reviewer pool of TPEL.
6. A completed AE topic questionnaire.

For more information, visit the TPEL [website](#).

Highlighted Papers

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

“Simple Solution to Overcome Fault Recovery Issues of Grid-Forming Inverter With Current Limiter” by Shimiao Chen, Yao Sun, Xiaochao Hou, Mingxin Hu, Mei Su, and Kai Sun. A control to achieve reliable postfault performance by replacing conventional output-power feedback with internal-voltage-source virtual-power feedback.

“Current Vector Phase Based Weak Open-Circuit Fault Diagnosis of Voltage-Source Inverters” by Yu Zhang, Yuxin Liu, Shouqiang Kang, and Peng Wang. This article presents an open-circuit fault diagnosis approach for the drive inverter system in a permanent magnet synchronous motor. This method is based on the time-domain inversion of the current vector phase to achieve fault detection and can even detect intermittent weak faults. A current vector residual coding signal is constructed based on the Park’s Vector Approach. Phase characteristics are then precisely and automatically extracted through logical operations on relational patterns. Ultimately, the fault type is located according to the different combinations of characteristic variables. The experimental results show that the method is effective and practical in the open-circuit fault diagnosis of inverters.

Manuscript Submissions

IEEE Power Electronics Letters

The **June 2026** issue of TPEL features Letters advancing the state of the art in power electronics. Here is one highlighted Letter.

“Error-Bounded Hybrid FFT-Hilbert Quadrature Mixing for Online Battery Impedance Measurement in DC–DC Converter” by Jung-Hoon Ahn and Hwa-Pyeong Park. Online impedance measurement for Li-ion batteries is essential to improve its safety and health conditions. However, the digital controller limits the bounded frame length for fast Fourier transform (FFT), which restricts frequency resolution. In addition, it induces deterministic bias and spectral leakage under noncoherent sampling. This letter proposes an error-bounded hybrid impedance estimation to improve frequency resolution without increasing FFT frame length and reduce undesired bias under noncoherent sampling, which combines FFT and Hilbert transform-based quadrature mixing. It considers the coherent gain inequality to bounded impedance measurement accuracy. Experimental validation using a 50-W bidirectional buck–boost converter with a Li-ion cell demonstrates accurate impedance estimation from 1 Hz to 1 kHz, with less than 2% error against a commercial electrochemical impedance spectroscopy device. These results verify the effectiveness of the proposed method for real-time online impedance monitoring in practical converter systems.

IEEE Transactions on Transportation Electrification (TTE)

At ITEC, the editors of TTE announced the recipients of the Annual Prize Paper Awards. There was one First Prize and six Second Prize. Congratulations to the authors listed below!

First Prize

Md Rashed Hassan Bipu , Oscar Montes, Fei Teng, Dakai Wang, M. A. Awal, Wensong Yu, Iqbal Husain, and Srdjan Lukic, **“Design, Control, and Protection of a 13.2kV, 1MVA Solid State Transformer for Electric Vehicle Extreme Fast Charging Station,”** *IEEE Transactions on Transportation Electrification*, vol. 11, no. 1, Feb. 2025.

Second Prize

Taeho Jo, Inhye Park, Jinseok Lee, Jonghyun Yoon, Ju Lee, and Hyunwoo Kim, **“A Fault Diagnosis and Fault-tolerant Anti-lock Brake System Control for Actuator Stuck Failures in Braking System in Autonomous Vehicles,”** *IEEE Transactions on Transportation Electrification*, vol. 11, no. 1, Feb. 2025.

Bingyan Bao, Bin Xiong, Zuming Li, and Zhuoran Zhang, **“Heat Dissipation Characteristics and Experimental Research of Aviation Oil Cooling Motor Based on Spiral Insulation Flow Channel Structure in Slot,”** *IEEE Transactions on Transportation Electrification*, vol. 11, no. 1, Feb. 2025.

Yirong Tang, Wei Xu, Jian Ge, Yongdao Shangguan, Abdul Khaliq Junejo, Ke Wang, and Yaohua Li, **“Improved Dual-Vector Predictive Flux Control with Parameter Identification for Three-Level Inverter-Fed Linear Induction Machines in Linear Metro,”** *IEEE Transactions on Transportation Electrification*, vol. 11, no. 1, Feb. 2025.

Tat-Thang Le, Gebregergis Abraham, Hoai-Nhan Nguyen, Hoai-Trung Tran, Thanh-Tung Nguyen, and Quang Bach Nguyen, **“A New Control Method for an On-Board Charger for Electric Vehicles Operating in a Split-Phase System,”** *IEEE Transactions on Transportation Electrification*, vol. 11, no. 4, Aug. 2025.

Wentao Zhang, Zhongze Wu, and Wei Hua, **“Design of n-Layer Flat Wire Winding in Permanent Magnet Machine for Electric Vehicles,”** *IEEE Transactions on Transportation Electrification*, vol.

Lingming Kong, Hongcai Zhang, Dunjian Xie, and Ningyi Dai, “**Leveraging Electric Vehicles to Enhance Resilience of Interconnected Power-Transportation System Under Natural Hazards,**” *IEEE Transactions on Transportation Electrification*, vol. 11, no. 1, Feb. 2025.

Manuscript Submissions

Authors are encouraged to submit their manuscripts for publication in TTE. All manuscripts can be submitted through the **IEEE Author Portal**. To read the June 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 June 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—Part II**. If you would like to submit a paper to JESTPE, please visit the **IEEE Author Portal**.

IEEE Journal on Wireless Power Technologies (JWPT)



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