

## Pubs Education: Self-Citations

We recently engaged in some discussions within IEEE PELS regarding self-citation in conferences and journals. For authors and paper reviewers, how familiar are you with the concept of self-citations? As a reviewer, do you pay close attention to the reference section?

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.

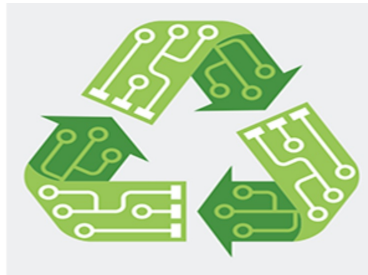
Self-citation occurs when authors excessively reference their own papers in their work. It can also arise when an author repeatedly cites the work of another author, which is known as redundant citation or repeated authors in the reference section.

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 are beginning to 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.

Currently, implement a 30% self-citation threshold, beyond which the Technical Program Committee or Editor would request an explanation from the authors.

## IEEE Power Electronics Magazine



With an increasing demand for electrification, renewable energy integration, and energy saving, more and more power electronics and batteries are being utilized in a wide range of applications. Consequently, their impact on the environment is of great concern, as they are responsible for a considerable amount of material usage, including critical raw material during production and e-waste generation after the end-of-life. Going forward, the development of power electronics and batteries needs to change from the traditional linear economy “take-make-waste” to a circular economy, where the concept of reuse, remanufacturing, and recycling needs to be considered as part of the product life cycle. This paradigm shift in concept is discussed in the article “**Sustainability of Power Electronics and Batteries: A Circular Economy Approach**” by Ariya Sangwongwanich, Daniel-Ioan Stroe, Chris Mi, and Frede Blaabjerg, It is published in the **March 2024** issue of *IEEE Power Electronics Magazine*.

### Free for All

For more editorial from the March 2024 issue of *IEEE Power Electronics Magazine*, visit the magazine [website](#). You will discover various Open Access columns along with Society

News stories. Stay tuned for the September 2024 issue, which will be dedicated to the magazine's tenth anniversary.

## IEEE Transactions on Power Electronics (TPEL)

The TPEL editorial team has selected a few papers to highlight from the **April 2024** issue.

- “**An Energy-Based Model of Four-Switch Buck–Boost Converters**” by Ezio Gallo, Davide Biadene, Filip Cvejić, Giorgio Spiazzi and Tommaso Caldognetto. This paper presents an ultrafast self-powered circuit for gate driving of normally ON WBG transistors.
- “**Development of a MHz Pulsed Power Supply for Kicker Magnet in SHINE**” by Yong-Fang Liu, Ming Gu, Qi-Bing Yuan, Ruiping Wang, Jin Tong, and Shaying Li. This work shows the design of a 1-MHz repetition rate pulsed power supply for an X-ray free electron laser facility.

## IEEE Power Electronics Letters

### Highlighted Letters from TPEL April 2024

The **April 2024** issue presents 11 Letters discussing the recent developments in power electronics. The topics include the application of reverse blocking IGCT devices, medium-voltage SiC power modules, vehicle-to-vehicle wireless charging system, control and modulation strategies for inverters and grid-connected converters, neutral-network-based fault diagnosis for inverters, and dc-dc converter topologies for dc distribution grids. Two intriguing letters from this issue are highlighted below.

- “**A Discrete Selective Harmonic Elimination Formulation With Common-Mode Voltage Elimination Ability**” by Mingzhe Wu, Suna Pan, Kui Wang, Georgios Konstantinou, Josep Pou, Yun Wei Li, and Kehu Yang. This work presents a novel selective harmonic elimination pulsewidth modulation (SHE-PWM) method for reducing the common-mode voltage in high-power motor drives. The principle and implementation details of the method are elaborated and validated by experimental results.
- “**Nonlinear Inductor-Based Single Sensor Current Balancing Method for Interleaved DC-DC Converters**” by Zhigang Yao, Haogang Lan, Xinyu He, Fei Deng, Caisheng Wang, Shuai Lu, and Yi Tang. This work utilizes the nonlinear behavior of filter inductors for current balancing of interleaved dc-dc converters. The method only requires a single current sensor and its effectiveness is validated by experimental tests.

## IEEE Transactions on Transportation Electrification (TTE)

The editorial team of TTE invites you to read the **March 2024** issue. Volume 10, Issue 1, features 182 papers. Authors are encouraged to submit their manuscripts for publication in TTE. All manuscripts can be submitted through **ScholarOne**. For author guidelines, please visit TTE **online**.

## IEEE Open Journal of Power Electronics (OJPEL)

OJPEL has OA papers on numerous topics. Here are a few papers focusing on switching and gate drivers.

- “**A Closed-Loop Active Gate Driver of SiC MOSFET for Voltage Spike Suppression**” by Zongqiu Gao, Jian Zhang, Yiyun Huang, Rui Guan, and Yu Zhou.
- “**A Comprehensive Short-Circuit Protection Scheme for Series-Connected SiC MOSFETs**” by Chunhui Liu, Zhengda Zhang, Yifu Liu, Yunpeng Si, Mengzhi Wang, and

Qin Lei.

Be sure to take a look at **OJPEL** on Xplore for more OA papers.

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

JESTPE currently has four special issues open for paper submissions. If you think your paper fits one of these topics, JESTPE would greatly appreciate your submission.

- Digital Twin Driven High-Reliability Power Electronic Systems

(Deadline: April 30, 2024)

- Advanced Technologies of Motor Drives for Zero Emission E-Mobility

(Deadline: May 31, 2024)

- High-Frequency Wireless Power Transfer Technology (Deadline: June 15, 2024)

- Power Electronics Role in Future Renewables and Power-to-X Systems

(Deadline: June 30, 2024)

To download the Call for Papers, visit the [website](#).



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