

Editorial 2021: Forward Together

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DURING a year when the only thing most of us seemed able to plan on were our plans changing, IEEE TRANSACTIONS ON POWER ELECTRONICS (TPEL) has continued without pause. Authors, reviewers, and editors have all pushed forward. While we all did our best to work from home, we submitted papers, we completed reviews, we made decisions; we posted and published; we read and learned. When everything came to a halt, we moved forward together.

As of July 2020, when we are writing this Editorial, our submissions have continued on their upward trajectory—particularly our Letters. While labs have been closed in many places around the world, authors have found time to write up their research and polish papers for publication. On the review end, we are working hard along with our volunteer reviewers and editors to keep things on course while we all adapt to different working conditions and schedules. Thanks to the tremendous efforts of everyone involved, our average review time in 2020 has dropped over five days: no small matter.

In March 2020, we recognized ten reviewers for their outstanding work on behalf of our journal. M. Forouzesh, Y. Tang, F. Qi, D. Ronanki, Y. Zhang, H. Wu, G. Konstantinou, B. Wen, C. Liu, and K. Sun were selected for the quality of their reviews as well as the number of reviews completed during 2019 (each reviewer completed over 20 reviews in 2019), and the short average turnaround time of their reviews. In addition to our hardworking reviewers, we also acknowledged six of our dedicated Associate Editors. Each of our Distinguished Service recipients has dedicated more than 20 years to TPEL. Our Outstanding Service recipients have made notable contributions in the number of papers they have overseen and the short average turnaround time of each paper:

Distinguished Service Recipients

S. Y. (Ron) Hui

Khai Ngo

Andrzej Trzynadlowski

Chi (Michael) Tse

Outstanding Service Recipients

J. Marcos Alonso

Andreas Lindemann

In our efforts to further streamline our review process, we continue to adapt our Manuscript Central review site. Our authors can now identify reviewers who may have conflicts of interest to be excluded from their papers. Even more exciting, authors may now submit graphic abstracts for their papers. With the surge in online and hybrid conferences in 2020, we are

all embracing new formats for sharing our research. Have you created videos of your talks for your conference papers? Take these skills and submit your next paper with a Graphic Abstract! Graphic Abstracts can be viewed by anyone and attract more readers to your paper and your work. Give your next submission extra punch!

TPEL is also excited to announce our prize paper and letter award selection for 2019. With the number of submissions increasing each year, we are increasing the number of awards. In 2019, we published 1027 papers and letters (a total of 12 624 pages of Regular Papers, Letters, and Correspondences). The selection of each of our winners is an extraordinary tribute to the fine research quality, presentation, and potential impact their research has to the field.

First Prize Paper Awards in 2019

- 1) O. Knecht and J. Kolar, "Performance evaluation of series-compensated IPT systems for transcutaneous energy transfer," *IEEE Trans. Power Electron.*, vol. 34, no. 1, pp. 438–451, Jan. 2019.
- 2) R. Li, X. Wu, S. Yang, and K. Sheng, "Dynamic on-state resistance test and evaluation of GaN power devices under hard- and soft-switching conditions by double and multiple pulses," *IEEE Trans. Power Electron.*, vol. 34, no. 2, pp. 1044–1053, Feb. 2019.
- 3) S. Jiang, S. Saggini, C. Nan, X. Li, C. Chung, and M. Yazdani, "Switched tank converters," *IEEE Trans. Power Electron.*, vol. 34, no. 6, pp. 5048–5062, Jun. 2019.
- 4) M. Barlow, S. Ahmed, A. M. Francis, and H. A. Mantooth, "An integrated SiC CMOS gate driver for power module integration," *IEEE Trans. Power Electron.*, vol. 34, no. 11, pp. 11191–11198, Nov. 2019.

Second Prize Paper Awards in 2019

- 1) M. Perotti and F. Fiori, "Investigating the EMI mitigation in power inverters using delay compensation," *IEEE Trans. Power Electron.*, vol. 34 no. 5, pp. 4270–4278, May 2019.
- 2) N. He, M. Chen, J. Wu, N. Zhu, and D. Xu, "20-kW zero-voltage-switching SiC-Mosfet grid inverter with 300 kHz switching frequency," *IEEE Trans. Power Electron.*, vol. 34, no. 6, pp. 5175–5190, May 2019.
- 3) S. Li, W. Qi, J. Wu, S.-C. Tan, and S.-Y. Hui, "Minimum active switch requirements for single-phase PFC rectifiers without electrolytic capacitors," *IEEE Trans. Power Electron.*, vol. 34, no. 6, pp. 5524–5536, Jun. 2019.
- 4) J. Arteaga, S. Aldhaher, G. Kkelis, C. Kwan, D. Yates, and P. Mitcheson, "Dynamic capabilities of multi-MHz inductive power transfer systems demonstrated with batteryless drones," *IEEE Trans. Power Electron.*, vol. 34, no. 6, pp. 5093–5104, Jun. 2019.

- 5) S. Ohn *et al.*, “Three-terminal common-mode EMI model for EMI generation, propagation, and mitigation in a full-SiC three-phase UPS module,” *IEEE Trans. Power Electron.*, vol. 34, no. 9, pp. 8599–7915, Sep. 2019.
- 6) M. Lu and K. Ngo, “Circuit models and fast optimization of Litz shield for inductive-power-transfer coils,” *IEEE Trans. Power Electron.*, vol. 34, no. 5, pp. 4678–4688, May 2019.

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Prize Letter Award in 2019

S. Kargarrazi, H. Elahipanah, S. Saggini, D. Senesky, and C.-M. Zetterling, “500 °C SiC PWM integrated circuit,” *IEEE Trans. Power Electron.*, vol. 34, no. 3, pp. 1953–1957, Mar. 2019.