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COMMUNICATION

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Promising Ce single-atom-dispersed nitrogen-doped graphene catalysts for the hydrogen evolution reaction

Sunny Yadav, Vandung Dao, Wenmeng Wang, Kai Chen, Chiyeop Kim, Gyu-Cheol Kim and In-Hwan Lee*



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Analytical electron microscopy study of the composition of BaHfO₃ nanoparticles in REBCO films: the influence of rare-earth ionic radii and REBCO composition

Lukas Grünewald, Pablo Cayado,* Manuela Erbe, Jens Hänisch,* Bernhard Holzapfel and Dagmar Gerthsen



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Kumaar Swamy Reddy B., Smrutiranjan Panda, Easwaramoorthi Ramasamy, Sushmee Badhulika,* Ganapathy Veerappan* and Pramod H. Borse*



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Amorphous N-doped InSnZnO thin films deposited by RF sputtering for thin-film transistor application

Zhi-Yue Li, Shu-Mei Song, Wanxia Wang,* Ming-Jiang Dai, Song-Sheng Lin, Ting-Yong Chen and Hui Sun*

- The influence of RF spattering power on TFT's performance was studied
- ITZO:N film prepared with suitable spattering power enhance the performance of TFT





DFT investigation of the oxygen reduction reaction over nitrogen (N) doped graphdiyne as an electrocatalyst: the importance of pre-adsorbed OH* and the solvation effect

Yuelin Wang, Thanh Ngoc Pham, Harry H. Halim, Likai Yan and Yoshitada Morikawa*



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Md. Mafizul Islam and Ahmed Zubair*

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Hui Liu,* Li Jing, Juanjuan Liu, Hongxing Guo, Tao Li and Xiaojie Zhang*



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Ajay Kumar Verma, Shamma Jain, Kishor Kumar Johari, Christophe Candolfi, Bertrand Lenoir,* Sumeet Walia, S. R. Dhakate and Bhasker Gahtori*

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Pragnesh N. Dave* and Ruksana Sirach



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Qian Zhang,* Wenyan Xiao, Bangxin Li, Yu Lin, Lingyu Huang, Jifei Liao, Huiguo Han, Jie Zhu and Yan Fu



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Huiyu Wu, Zhenghui Li, Yao Liu, Xingchi Shi, Yuan Xue, Zuhua Zeng, Fanglin Mi, Haiying Wang* and Jiang Zhu*



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Enhancing the perovskite solar cell performance by the interface modification of Zn–Sn–O compound heterostructures

Ranjith Kumar Poobalan, Ramarajan Ramanathan,* Chellakumar R., K. Ravichandran and Michel Zinigrad





Massless pattern generation by droplet deposition and etching

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Experimental design of stencil-printed high-performance organic electrochemical transistors

Amir Mohammad Ghafari, Michele Catacchio, Emil Rosqvist, Axel Luukkonen, Anni Eklund, Kim Björkström, Paolo Bollella, Luisa Torsi, Eleonora Macchia* and Ronald Österbacka*

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Chia-Wen Tsao* and Ping-Chin Shen

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CORRECTIONS

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Correction: The state of understanding of the electrochemical behaviours of a valve-regulated lead-acid battery comprising manganese dioxide-impregnated gel polymer electrolyte

Bipin S. Chikkatti, Ashok M. Sajjan* and Nagaraj R. Banapurmath

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Correction: Green pepper-derived hierarchical porous carbon for supercapacitors with high performance

Yicheng Zeng, Fuming Zhang, Jinggao Wu and Jing Huang*