

The 2018 Cahn Prize Finalists

- December 2018 [Black phosphorus: an efficient co-catalyst for charge separation and enhanced photocatalytic hydrogen evolution](#)
Jiahao Wu, Shaolong Huang, Zhengyuan Jin, Jiaqi Chen, Liang Hu, Yaojia Long, Jianguo Lu, Shuangchen Ruan, Yu-Jia Zeng
J Mater Sci (2018) 53, 16557–16566 <https://rdcu.be/bZHWh>
- November 2018 [Perovskite quantum dots as fluorescent materials for multi-colored lighting](#)
Zhao Zhenfu, Jing Liang, Wu Zhihai, Cheng Jiong, Zhang Miaomiao, Hou Yafei
J Mater Sci (2018) 53, 15430–15441 <https://rdcu.be/bZHWr>
- October 2018 [3D Magnetic printing of bio-inspired composites with tunable mechanical properties](#)
Luquan Ren, Xueli Zhou, Qingping Liu, Yunhong Liang, Zhengyi Song, Baoyu Zhang, Bingqian Li
J Mater Sci (2018) 53, 14274–14286 <https://rdcu.be/bZHWI>
- September 2018 [Effect of graphite structures on the productivity and quality of few-layer graphene in liquid-phase exfoliation](#)
Fumiya Mori, Masatoshi Kubouchi, Yoshihiko Arao
J Mater Sci (2018) 53, 2807–12815 <https://rdcu.be/bZHWN>
- August 2018 [Measuring solid–liquid interfacial energy fields: diffusion-limited patterns](#)
Martin E. Glicksman, Kumar Ankit
J Mater Sci (2018) 53, 10955–10978 <https://rdcu.be/bZHWO>
- July 2018 [Evaluation of silica aerogel-reinforced polyurethane foams for footwear applications](#)
Guang Yang, Xueyang Liu, Vitali Lipik
J Mater Sci (2018) 53, 9463–9472 <https://rdcu.be/bZHWP>
- June 2018 [Preparation of fabric strain sensor based on graphene for human motion monitoring](#)
Hanna Lee, Mary J. Glasper, Xinda Li, John A. Nychka, Jane Batcheller, Hyun-Joong Chung, Yi Chen
J Mater Sci (2018) 53, 9026–9033 <https://rdcu.be/bZHWR>
- May 2018 [Ultraviolet-assisted cold poling of Pb\(Zr_{0.52}Ti_{0.48}\)O₃ films](#)
Wanlin Zhu, Wei Luo, Betül Akkopru-Akgun, Michael Lanagan, Clive A. Randall, Susan Trolrier-McKinstry
J Mater Sci (2018) 53, 7180–7186 <https://rdcu.be/bZHWT>
- April 2018 [Interfacial stability of graphene-based surfaces in water and organic solvents](#)
Ho Shin Kim, Thomas J. Oweida, Yaroslava G. Yingling
J Mater Sci (2018) 53, 5766–5776 <https://rdcu.be/bZHWy>
- March 2018 [Highly reproducible perovskite solar cells based on solution coating from mixed solvents](#)
A Runa, Shuang Feng, Gehui Wen, Fei Feng, Jun Wang, Li Liu, Pengyu Su, Haibin Yang, Wu you Fu
J Mater Sci (2018) 53, 3590–3602 <https://rdcu.be/bZHWF>
- February 2018 [Controllably degradable transient electronic antennas based on water-soluble PVA/TiO₂ films](#)
Fang Xu, Huaiwu Zhang, Lichuan Jin, Yuanxun Li, Jie Li, Gongwen Gan, Miaoqin Wei, Mingming Li, Yulong Liao
J Mater Sci (2018) 53, 2638–2647 <https://rdcu.be/bZHWI>
- January 2018 [Robocasting of dense yttria-stabilized zirconia structures](#)
Erwin Peng, Xiangxia Wie, Ulf Garbe, Dehong Yu, Brunet Edouard, Aihong Liu, Jun Ding
J Mater Sci (2018) 53, 47–273 <https://rdcu.be/bZHWL>