

Contents

About the Special Issue Editor	vii
Preface to "Metal Halide Perovskite Crystals"	ix
Shuigen Li, Chen Zhang, Jiao-Jiao Song, Xiaohu Xie, Jian-Qiao Meng and Shunjian Xu Metal Halide Perovskite Single Crystals: From Growth Process to Application Reprinted from: <i>Crystals</i> 2018, 8, 220, doi:10.3390/cryst8050220	1
Guilin Liu, Lang Liu, Xiuxiu Niu, Huanping Zhou and Qi Chen Effects of Iodine Doping on Carrier Behavior at the Interface of Perovskite Crystals: Efficiency and Stability Reprinted from: <i>Crystals</i> 2018, 8, 185, doi:10.3390/cryst8050185	23
Xiaoyan Wu, Yanglong Li, Wei Li, Lingyuan Wu, Bo Fu, Weiping Wang, Guodong Liu, Dayong Zhang, Jianheng Zhao and Ping Chen Enhancing Optically Pumped Organic-Inorganic Hybrid Perovskite Amplified Spontaneous Emission via Compound Surface Plasmon Resonance Reprinted from: <i>Crystals</i> 2018, 8, 124, doi:10.3390/cryst8030124	32
Yaxiao Jiang, Limin Tu, Haitao Li, Shaohua Li, Shi-E Yang and Yongsheng Chen A Feasible and Effective Post-Treatment Method for High-Quality $\text{CH}_3\text{NH}_3\text{PbI}_3$ Films and High-Efficiency Perovskite Solar Cells Reprinted from: <i>Crystals</i> 2018, 8, 44, doi:10.3390/cryst8010044	41
Xianli Li, Yan Guo and Binbin Luo Improved Stability and Photoluminescence Yield of Mn^{2+} -Doped $\text{CH}_3\text{NH}_3\text{PbCl}_3$ Perovskite Nanocrystals Reprinted from: <i>Crystals</i> 2018, 8, 4, doi:10.3390/cryst8010004	53
Mian Zhang, Hongbo Li, Qiang Jing, Zhenda Lu and Peng Wang Atomic Characterization of Byproduct Nanoparticles on Cesium Lead Halide Nanocrystals Using High-Resolution Scanning Transmission Electron Microscopy Reprinted from: <i>Crystals</i> 2018, 8, 2, doi:10.3390/cryst8010002	63
Yihui Li, Taiyang Zhang, Feng Xu, Yong Wang, Ge Li, Yang Yang and Yixin Zhao $\text{CH}_3\text{NH}_3\text{Cl}$ Assisted Solvent Engineering for Highly Crystallized and Large Grain Size Mixed-Composition $(\text{FAPbI}_3)_{0.85}(\text{MAPbBr}_3)_{0.15}$ Perovskites Reprinted from: <i>Crystals</i> 2017, 7, 272, doi:10.3390/cryst7090272	73
Pankaj Yadav, Daniel Prochowicz, Michael Saliba, Pablo P. Boix, Shaik M. Zakeeruddin and Michael Grätzel Interfacial Kinetics of Efficient Perovskite Solar Cells Reprinted from: <i>Crystals</i> 2017, 7, 252, doi:10.3390/cryst7080252	81
Aakash Bhat, Bhanu Pratap Dhamaniya, Priyanka Chhillar, Tulja Bhavani Korukonda, Gaurav Rawat and Sandeep K. Pathak Analysing the Prospects of Perovskite Solar Cells within the Purview of Recent Scientific Advancements Reprinted from: <i>Crystals</i> 2018, 8, 242, doi:10.3390/cryst8060242	90

Kongchao Shen, Jinping Hu, Zhaofeng Liang, Jinbang Hu, Haoliang Sun, Zheng Jiang and Fei Song Emerging Characterizing Techniques in the Fine Structure Observation of Metal Halide Perovskite Crystal Reprinted from: <i>Crystals</i> 2018 , <i>8</i> , 232, doi:10.3390/cryst8060232	127
Wei Liu, Yang Liu, Ju Wang, Cuncun Wu, Congyue Liu, Lixin Xiao, Zhijian Chen, Shufeng Wang and Qihuang Gong Twin Domains in Organometallic Halide Perovskite Thin-Films Reprinted from: <i>Crystals</i> 2018 , <i>8</i> , 216, doi:10.3390/cryst8050216	141
Haijiao Harsan Ma, Muhammad Imran, Zhiya Dang and Zhaosheng Hu Growth of Metal Halide Perovskite, from Nanocrystal to Micron-Scale Crystal: A Review Reprinted from: <i>Crystals</i> 2018 , <i>8</i> , 182, doi:10.3390/cryst8050182	159
Maria Konstantakou, Dorothea Perganti, Polycarpus Falaras and Thomas Stergiopoulos Anti-Solvent Crystallization Strategies for Highly Efficient Perovskite Solar Cells Reprinted from: <i>Crystals</i> 2017 , <i>7</i> , 291, doi:10.3390/cryst7100291	184