Xu Chen

List of Publications by Year
in descending order

21 papers	2,228 citations	471061 17 h-index	713013 21 g-index
21 all docs	21 docs citations	21 times ranked	2581 citing authors

#	Article	IF	Citations
1	Doping Lanthanide into Perovskite Nanocrystals: Highly Improved and Expanded Optical Properties. Nano Letters, 2017, 17, 8005-8011.	4.5	672
2	Ratiometric photoluminescence sensing based on Ti₃C₂MXene quantum dots as an intracellular pH sensor. Nanoscale, 2018, 10, 1111-1118.	2.8	241
3	Colloidal Synthesis of Ternary Copper Halide Nanocrystals for High-Efficiency Deep-Blue Light-Emitting Diodes with a Half-Lifetime above 100 h. Nano Letters, 2020, 20, 3568-3576.	4.5	200
4	Stable Yellow Light-Emitting Devices Based on Ternary Copper Halides with Broadband Emissive Self-Trapped Excitons. ACS Nano, 2020, 14, 4475-4486.	7.3	199
5	High Colorâ€Rendering Index and Stable White Lightâ€Emitting Diodes by Assembling Two Broadband Emissive Selfâ€Trapped Excitons. Advanced Materials, 2021, 33, e2001367.	11.1	162
6	Water-induced fluorescence enhancement of lead-free cesium bismuth halide quantum dots by 130% for stable white light-emitting devices. Nanoscale, 2020, 12, 3637-3645.	2.8	118
7	Ti3C2 MXene quantum dots/TiO2 inverse opal heterojunction electrode platform for superior photoelectrochemical biosensing. Sensors and Actuators B: Chemical, 2019, 289, 131-137.	4.0	101
8	Dual Interfacial Modification Engineering with 2D MXene Quantum Dots and Copper Sulphide Nanocrystals Enabled Highâ€Performance Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2003295.	7.8	100
9	Dual interfacial modifications by conjugated small-molecules and lanthanides doping for full functional perovskite solar cells. Nano Energy, 2018, 53, 849-862.	8.2	59
10	Lead-Free Metal Halide Perovskites and Perovskite Derivatives as an Environmentally Friendly Emitter for Light-Emitting Device Applications. Journal of Physical Chemistry Letters, 2020, 11, 5517-5530.	2.1	59
11	A solution-processed ternary copper halide thin films for air-stable and deep-ultraviolet-sensitive photodetector. Nanoscale, 2020, 12, 17213-17221.	2.8	55
12	Stable and Self-Powered Solar-Blind Ultraviolet Photodetectors Based on a Cs₃Cu₂I₅/Î²-Ga₂O₃ Heterojunction Prepared by Dual-Source Vapor Codeposition. ACS Applied Materials & Interfaces, 2021, 13, 15409-15419.	4.0	55
13	Strategy of All-Inorganic Cs₃Cu₂I₅/Si-Core/Shell Nanowire Heterojunction for Stable and Ultraviolet-Enhanced Broadband Photodetectors with Imaging Capability. ACS Applied Materials & Interfaces, 2020, 12, 37363-37374.	4.0	51
14	Two-dimensional Ti₃C₂ MXene-based nanostructures for emerging optoelectronic applications. Materials Horizons, 2021, 8, 2929-2963.	6.4	37
15	Stable zero-dimensional cesium indium bromide hollow nanocrystals emitting blue light from self-trapped excitons. Nano Today, 2021, 38, 101153.	6.2	33
16	Europium ions doped WOx nanorods for dual interfacial modification facilitating high efficiency and stability of perovskite solar cells. Nano Energy, 2021, 80, 105564.	8.2	26
17	Plasmonic gold nanorods decorated Ti3C2 MXene quantum dots-interspersed nanosheet for full-spectrum photoelectrochemical water splitting. Chemical Engineering Journal, 2021, 426, 130818.	6.6	23
18	Room-temperature synthesis of blue-emissive zero-dimensional cesium indium halide quantum dots for temperature-stable down-conversion white light-emitting diodes with a half-lifetime of 186 h. Materials Horizons, 2021, 8, 3432-3442.	6.4	18

#	Article	IF	Citations
19	Dual-source vapor-processed blue-emissive cesium copper iodine microplatelets with high crystallinity and stability. Journal of Materials Chemistry C, 2021, 9, 12535-12544.	2.7	10
20	Boosting interfacial charge transfer by constructing rare earthâ€“doped WOx nanorods/SnO2 hybrid electron transport layer for efficient perovskite solar cells. Materials Today Energy, 2021, 21, 100724.	2.5	8
21	Polymer additive engineering of K₂CuBr₃ nanocrystalline films to achieve efficient and stable deep-blue emission. JPhys Photonics, 2022, 4, 014001.	2.2	1