Menglu Chen

List of Publications by Year
in descending order

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Version: 2024-02-01

24 papers	1,020 citations	623734 14 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	1042 citing authors

#	Article	IF	Citations
1	Magnetoresistance of high mobility HgTe quantum dot films with controlled charging. Journal of Materials Chemistry C, 2022, 10, 13771-13777.	5.5	6
2	Mid-IR Intraband Photodetectors with Colloidal Quantum Dots. Coatings, 2022, 12, 467.	2.6	9
3	Infrared-to-Visible Upconversion Devices. Coatings, 2022, 12, 456.	2.6	11
4	Beyond a Linker: The Role of Photochemistry of Crosslinkers in the Direct Optical Patterning of Colloidal Nanocrystals. Angewandte Chemie - International Edition, 2022, 61, .	13.8	24
5	Simulation of Resonant Cavity-Coupled Colloidal Quantum-Dot Detectors with Polarization Sensitivity. Coatings, 2022, 12, 499.	2.6	4
6	Beyond a Linker: The Role of Photochemistry of Crosslinkers in the Direct Optical Patterning of Colloidal Nanocrystals. Angewandte Chemie, 2022, 134, .	2.0	1
7	Sprayâ€Stencil Lithography Enabled Largeâ€Scale Fabrication of Multispectral Colloidal Quantumâ€Dot Infrared Detectors. Advanced Materials Technologies, 2022, 7, .	5.8	17
8	Resonant cavity-enhanced colloidal quantum-dot dual-band infrared photodetectors. Journal of Materials Chemistry C, 2022, 10, 8218-8225.	5.5	8
9	Room-Temperature Infrared Photodetectors with Zero-Dimensional and New Two-Dimensional Materials. Coatings, 2022, 12, 609.	2.6	4
10	Simulation and Design of HgSe Colloidal Quantum-Dot Microspectrometers. Coatings, 2022, 12, 888.	2.6	3
11	Mid-Infrared Intraband Photodetector via High Carrier Mobility HgSe Colloidal Quantum Dots. ACS Nano, 2022, 16, 11027-11035.	14.6	22
12	Colloidal Quantum-Dots/Graphene/Silicon Dual-Channel Detection of Visible Light and Short-Wave Infrared. ACS Photonics, 2020, 7, 1117-1121.	6.6	37
13	Size Distribution Effects on Mobility and Intraband Gap of HgSe Quantum Dots. Journal of Physical Chemistry C, 2020, 124, 16216-16221.	3.1	24
14	State-Resolved Mobility of 1 cm2/(Vs) with HgSe Quantum Dot Films. Journal of Physical Chemistry Letters, 2020, 11, 2303-2307.	4.6	16
15	HgTe colloidal quantum dot photodiodes for extended short-wave infrared detection. Applied Physics Letters, 2020, 116, .	3.3	49
16	Quantum dot solids showing state-resolved band-like transport. Nature Materials, 2020, 19, 323-329.	27.5	136
17	Direct Imprinting of Quasiâ€3D Nanophotonic Structures into Colloidal Quantumâ€Dot Devices. Advanced Materials, 2020, 32, e1906590.	21.0	27
18	High Carrier Mobility in HgTe Quantum Dot Solids Improves Mid-IR Photodetectors. ACS Photonics, 2019, 6, 2358-2365.	6.6	77

#	Article	IF	Citations
19	Polarized near-infrared intersubband absorptions in CdSe colloidal quantum wells. Nature Communications, 2019, 10, 4511.	12.8	34
20	Dual-band infrared imaging using stacked colloidal quantum dot photodiodes. Nature Photonics, 2019, 13, 277-282.	31.4	303
21	Conduction Band Fine Structure in Colloidal HgTe Quantum Dots. ACS Nano, 2018, 12, 9397-9404.	14.6	56
22	Synthesis of Nonaggregating HgTe Colloidal Quantum Dots and the Emergence of Air-Stable n-Doping. Journal of Physical Chemistry Letters, 2017, 8, 2224-2228.	4.6	66
23	Reversible Electrochemistry of Mercury Chalcogenide Colloidal Quantum Dot Films. ACS Nano, 2017, 11, 4165-4173.	14.6	81
24	Colloidal Quantum-dot Light Emitting Diodes with Bias-tunable Color. Photonics Research, 0, , .	7.0	5