

Menglu Chen

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,020
citations

623734

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642732

23
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docs citations

24
times ranked

1042
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-band infrared imaging using stacked colloidal quantum dot photodiodes. <i>Nature Photonics</i> , 2019, 13, 277-282.	31.4	303
2	Quantum dot solids showing state-resolved band-like transport. <i>Nature Materials</i> , 2020, 19, 323-329.	27.5	136
3	Reversible Electrochemistry of Mercury Chalcogenide Colloidal Quantum Dot Films. <i>ACS Nano</i> , 2017, 11, 4165-4173.	14.6	81
4	High Carrier Mobility in HgTe Quantum Dot Solids Improves Mid-IR Photodetectors. <i>ACS Photonics</i> , 2019, 6, 2358-2365.	6.6	77
5	Synthesis of Nonaggregating HgTe Colloidal Quantum Dots and the Emergence of Air-Stable n-Doping. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2224-2228.	4.6	66
6	Conduction Band Fine Structure in Colloidal HgTe Quantum Dots. <i>ACS Nano</i> , 2018, 12, 9397-9404.	14.6	56
7	HgTe colloidal quantum dot photodiodes for extended short-wave infrared detection. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	49
8	Colloidal Quantum-Dots/Graphene/Silicon Dual-Channel Detection of Visible Light and Short-Wave Infrared. <i>ACS Photonics</i> , 2020, 7, 1117-1121.	6.6	37
9	Polarized near-infrared intersubband absorptions in CdSe colloidal quantum wells. <i>Nature Communications</i> , 2019, 10, 4511.	12.8	34
10	Direct Imprinting of Quasi-3D Nanophotonic Structures into Colloidal Quantum-Dot Devices. <i>Advanced Materials</i> , 2020, 32, e1906590.	21.0	27
11	Size Distribution Effects on Mobility and Intraband Gap of HgSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16216-16221.	3.1	24
12	Beyond a Linker: The Role of Photochemistry of Crosslinkers in the Direct Optical Patterning of Colloidal Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	24
13	Mid-Infrared Intraband Photodetector <i>via</i> High Carrier Mobility HgSe Colloidal Quantum Dots. <i>ACS Nano</i> , 2022, 16, 11027-11035.	14.6	22
14	Spray-Stencil Lithography Enabled Large-Scale Fabrication of Multispectral Colloidal Quantum-Dot Infrared Detectors. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	17
15	State-Resolved Mobility of 1 cm ² /(Vs) with HgSe Quantum Dot Films. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2303-2307.	4.6	16
16	Infrared-to-Visible Upconversion Devices. <i>Coatings</i> , 2022, 12, 456.	2.6	11
17	Mid-IR Intraband Photodetectors with Colloidal Quantum Dots. <i>Coatings</i> , 2022, 12, 467.	2.6	9
18	Resonant cavity-enhanced colloidal quantum-dot dual-band infrared photodetectors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8218-8225.	5.5	8

#	ARTICLE	IF	CITATIONS
19	Magnetoresistance of high mobility HgTe quantum dot films with controlled charging. Journal of Materials Chemistry C, 2022, 10, 13771-13777.	5.5	6
20	Colloidal Quantum-dot Light Emitting Diodes with Bias-tunable Color. Photonics Research, 0, , .	7.0	5
21	Simulation of Resonant Cavity-Coupled Colloidal Quantum-Dot Detectors with Polarization Sensitivity. Coatings, 2022, 12, 499.	2.6	4
22	Room-Temperature Infrared Photodetectors with Zero-Dimensional and New Two-Dimensional Materials. Coatings, 2022, 12, 609.	2.6	4
23	Simulation and Design of HgSe Colloidal Quantum-Dot Microspectrometers. Coatings, 2022, 12, 888.	2.6	3
24	Beyond a Linker: The Role of Photochemistry of Crosslinkers in the Direct Optical Patterning of Colloidal Nanocrystals. Angewandte Chemie, 2022, 134, .	2.0	1