

Xin Tang

List of Publications by Year in descending order

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37
papers

1,411
citations

516710

16
h-index

477307

29
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37
all docs

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docs citations

37
times ranked

1323
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	Fast and Sensitive Colloidal Quantum Dot Mid-Wave Infrared Photodetectors. <i>ACS Nano</i> , 2018, 12, 7264-7271.	14.6	182
3	Thermal Imaging with Plasmon Resonance Enhanced HgTe Colloidal Quantum Dot Photovoltaic Devices. <i>ACS Nano</i> , 2018, 12, 7362-7370.	14.6	134
4	Plasmon resonance enhanced colloidal HgSe quantum dot filterless narrowband photodetectors for mid-wave infrared. <i>Journal of Materials Chemistry C</i> , 2017, 5, 362-369.	5.5	111
5	Graphene Field-Effect Transistors for the Sensitive and Selective Detection of <i>Escherichia coli</i> Using Pyrene-Tagged DNA Aptamer. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700736.	7.6	84
6	High Carrier Mobility in HgTe Quantum Dot Solids Improves Mid-IR Photodetectors. <i>ACS Photonics</i> , 2019, 6, 2358-2365.	6.6	77
7	Towards Infrared Electronic Eyes: Flexible Colloidal Quantum Dot Photovoltaic Detectors Enhanced by Resonant Cavity. <i>Small</i> , 2019, 15, e1804920.	10.0	73
8	Scalable Fabrication of Infrared Detectors with Multispectral Photoresponse Based on Patterned Colloidal Quantum Dot Films. <i>ACS Photonics</i> , 2016, 3, 2396-2404.	6.6	70
9	Colloidal quantum dots for infrared detection beyond silicon. <i>Journal of Chemical Physics</i> , 2019, 151, .	3.0	63
10	Acquisition of Hyperspectral Data with Colloidal Quantum Dots. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900165.	8.7	40
11	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
12	Direct Imprinting of Quasi-3D Nanophotonic Structures into Colloidal Quantum-Dot Devices. <i>Advanced Materials</i> , 2020, 32, e1906590.	21.0	27
13	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
14	Graphene/HgTe Quantum-Dot Photodetectors with Gate-Tunable Infrared Response. <i>ACS Applied Nano Materials</i> , 2019, 2, 6701-6706.	5.0	22
15	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
16	Twisted graphene-assisted photocarrier transfer from HgSe colloidal quantum dots into silicon with enhanced collection and transport efficiency. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	17
17	Development of flexible and curved infrared detectors with HgTe colloidal quantum dots. <i>Infrared Physics and Technology</i> , 2020, 108, 103344.	2.9	17
18	Spray-Stencil Lithography Enabled Large-Scale Fabrication of Multispectral Colloidal Quantum-Dot Infrared Detectors. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	17

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19	Photoresponse enhancement in graphene/silicon infrared detector by controlling photocarrier collection. <i>Materials Research Express</i> , 2016, 3, 076203.	1.6	11
20	Infrared-to-Visible Upconversion Devices. <i>Coatings</i> , 2022, 12, 456.	2.6	11
21	Mid-IR Intraband Photodetectors with Colloidal Quantum Dots. <i>Coatings</i> , 2022, 12, 467.	2.6	9
22	Substrate Effect on Atomic Force Microscopy-Based Nanolithography of Graphene. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 607-613.	2.0	8
23	Simulation of Monolithically Integrated Meta-Lens with Colloidal Quantum Dot Infrared Detectors for Enhanced Absorption. <i>Coatings</i> , 2020, 10, 1218.	2.6	8
24	Resonant cavity-enhanced colloidal quantum-dot dual-band infrared photodetectors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8218-8225.	5.5	8
25	The effect of ionic strength on the sensing performance of liquid-gated biosensors. , 2017, , .		7
26	Quantitative study of AFM-based nanopatterning of graphene nanoplate. , 2014, , .		5
27	Chemical functionalization of graphene with aromatic molecule. , 2015, , .		4
28	Compressive Video Recovery Using Block Match Multi-Frame Motion Estimation Based on Single Pixel Cameras. <i>Sensors</i> , 2016, 16, 318.	3.8	4
29	Simulation of Resonant Cavity-Coupled Colloidal Quantum-Dot Detectors with Polarization Sensitivity. <i>Coatings</i> , 2022, 12, 499.	2.6	4
30	Room-Temperature Infrared Photodetectors with Zero-Dimensional and New Two-Dimensional Materials. <i>Coatings</i> , 2022, 12, 609.	2.6	4
31	Colloidal quantum dots based infrared electronic eyes for multispectral imaging. , 2019, , .		3
32	Simulation and Design of HgSe Colloidal Quantum-Dot Microspectrometers. <i>Coatings</i> , 2022, 12, 888.	2.6	3
33	Tuning graphene/silicon Schottky barrier height by chemical doping. , 2015, , .		1
34	Beyond a Linker: The Role of Photochemistry of Crosslinkers in the Direct Optical Patterning of Colloidal Nanocrystals. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1
35	Single-transfer method for fabrication of linear array of graphene-based nanodevices. , 2015, , .		0
36	Biosensing: Graphene Field-Effect Transistors for the Sensitive and Selective Detection of <i>Escherichia coli</i> Using Pyrene-Tagged DNA Aptamer (<i>Adv. Healthcare Mater.</i> 19/2017). <i>Advanced Healthcare Materials</i> , 2017, 6, .	7.6	0

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37	Narrow-Gap HgTe Colloidal Quantum Dot Infrared Photodetectors. , 2019, , .		0