Xin Tang

List of Publications by Year
in descending order

37 papers	1,411 citations	516710 16 h-index	477307 29 g-index
37 all docs	37 docs citations	37 times ranked	1323 citing authors

#	Article	IF	Citations
1	Mid-IR Intraband Photodetectors with Colloidal Quantum Dots. Coatings, 2022, 12, 467.	2.6	9
2	Infrared-to-Visible Upconversion Devices. Coatings, 2022, 12, 456.	2.6	11
3	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
4	Simulation of Resonant Cavity-Coupled Colloidal Quantum-Dot Detectors with Polarization Sensitivity. Coatings, 2022, 12, 499.	2.6	4
5	Beyond a Linker: The Role of Photochemistry of Crosslinkers in the Direct Optical Patterning of Colloidal Nanocrystals. Angewandte Chemie, 2022, 134, .	2.0	1
6	Sprayâ€Stencil Lithography Enabled Largeâ€Scale Fabrication of Multispectral Colloidal Quantumâ€Dot Infrared Detectors. Advanced Materials Technologies, 2022, 7, .	5.8	17
7	Resonant cavity-enhanced colloidal quantum-dot dual-band infrared photodetectors. Journal of Materials Chemistry C, 2022, 10, 8218-8225.	5.5	8
8	Room-Temperature Infrared Photodetectors with Zero-Dimensional and New Two-Dimensional Materials. Coatings, 2022, 12, 609.	2.6	4
9	Simulation and Design of HgSe Colloidal Quantum-Dot Microspectrometers. Coatings, 2022, 12, 888.	2.6	3
10	Mid-Infrared Intraband Photodetector via High Carrier Mobility HgSe Colloidal Quantum Dots. ACS Nano, 2022, 16, 11027-11035.	14.6	22
11	Simulation of Monolithically Integrated Meta-Lens with Colloidal Quantum Dot Infrared Detectors for Enhanced Absorption. Coatings, 2020, 10, 1218.	2.6	8
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	Direct Imprinting of Quasiâ€3D Nanophotonic Structures into Colloidal Quantumâ€Dot Devices. Advanced Materials, 2020, 32, e1906590.	21.0	27
14	Development of flexible and curved infrared detectors with HgTe colloidal quantum dots. Infrared Physics and Technology, 2020, 108, 103344.	2.9	17
15	Colloidal quantum dots for infrared detection beyond silicon. Journal of Chemical Physics, 2019, 151, .	3.0	63
16	Graphene/HgTe Quantum-Dot Photodetectors with Gate-Tunable Infrared Response. ACS Applied Nano Materials, 2019, 2, 6701-6706.	5.0	22
17	Acquisition of Hyperspectral Data with Colloidal Quantum Dots. Laser and Photonics Reviews, 2019, 13, 1900165.	8.7	40
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	Narrow-Gap HgTe Colloidal Quantum Dot Infrared Photodetectors. , 2019, , .		0
20	Dual-band infrared imaging using stacked colloidal quantum dot photodiodes. Nature Photonics, 2019, 13, 277-282.	31.4	303
21	Towards Infrared Electronic Eyes: Flexible Colloidal Quantum Dot Photovoltaic Detectors Enhanced by Resonant Cavity. Small, 2019, 15, e1804920.	10.0	73
22	Colloidal quantum dots based infrared electronic eyes for multispectral imaging. , 2019, , .		3
23	Fast and Sensitive Colloidal Quantum Dot Mid-Wave Infrared Photodetectors. ACS Nano, 2018, 12, 7264-7271.	14.6	182
24	Thermal Imaging with Plasmon Resonance Enhanced HgTe Colloidal Quantum Dot Photovoltaic Devices. ACS Nano, 2018, 12, 7362-7370.	14.6	134
25	Plasmon resonance enhanced colloidal HgSe quantum dot filterless narrowband photodetectors for mid-wave infrared. Journal of Materials Chemistry C, 2017, 5, 362-369.	5.5	111
26	Twisted graphene-assisted photocarrier transfer from HgSe colloidal quantum dots into silicon with enhanced collection and transport efficiency. Applied Physics Letters, 2017, 110, .	3.3	17
27	Biosensing: Graphene Fieldâ€Effect Transistors for the Sensitive and Selective Detection of Escherichia coli Using Pyreneâ€Tagged DNA Aptamer (Adv. Healthcare Mater. 19/2017). Advanced Healthcare Materials, 2017, 6, .	7.6	0
28	Graphene Fieldâ€Effect Transistors for the Sensitive and Selective Detection of Escherichia coli Using Pyreneâ€Tagged DNA Aptamer. Advanced Healthcare Materials, 2017, 6, 1700736.	7.6	84
29	The effect of ionic strength on the sensing performance of liquid-gated biosensors. , 2017, , .		7
30	Compressive Video Recovery Using Block Match Multi-Frame Motion Estimation Based on Single Pixel Cameras. Sensors, 2016, 16, 318.	3.8	4
31	Scalable Fabrication of Infrared Detectors with Multispectral Photoresponse Based on Patterned Colloidal Quantum Dot Films. ACS Photonics, 2016, 3, 2396-2404.	6.6	70
32	Substrate Effect on Atomic Force Microscopy-Based Nanolithography of Graphene. IEEE Nanotechnology Magazine, 2016, 15, 607-613.	2.0	8
33	Photoresponse enhancement in graphene/silicon infrared detector by controlling photocarrier collection. Materials Research Express, 2016, 3, 076203.	1.6	11
34	Single-transfer method for fabrication of linear array of graphene-based nanodevices. , 2015, , .		0
35	Chemical functionalization of graphene with aromatic molecule. , 2015, , .		4
36	Tuning graphene/silicon Schottky barrier height by chemical doping. , 2015, , .		1

#	Article	IF	Citations
37	Quantitative study of AFM-based nanopatterning of graphene nanoplate. , 2014, , .		5