

Shengyi Yang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Hybrid Bulk-Heterojunction of Colloidal Quantum Dots and Mixed-Halide Perovskite Nanocrystals for High-Performance Self-Powered Broadband Photodetectors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	69
2	White light generation combining emissions from exciplex, excimer and electromer in TAPC-based organic light-emitting diodes. <i>Chemical Physics Letters</i> , 2009, 484, 54-58.	2.6	68
3	Charge Carrier Conduction Mechanism in PbS Quantum Dot Solar Cells: Electrochemical Impedance Spectroscopy Study. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18526-18533.	8.0	59
4	Interlayer of PMMA Doped with Au Nanoparticles for High-Performance Tandem Photodetectors: A Solution to Suppress Dark Current and Maintain High Photocurrent. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26153-26160.	8.0	51
5	ZnO nanorods array as light absorption antenna for high-gain UV photodetectors. <i>Journal of Alloys and Compounds</i> , 2020, 812, 152158.	5.5	43
6	High performance solution-processed infrared photodetector based on PbSe quantum dots doped with low carrier mobility polymer poly(N-vinylcarbazole). <i>RSC Advances</i> , 2016, 6, 44514-44521.	3.6	41
7	Field-effect transistor-based solution-processed colloidal quantum dot photodetector with broad bandwidth into near-infrared region. <i>Nanotechnology</i> , 2012, 23, 255203.	2.6	39
8	High performance solution-processed infrared photodiode based on ternary PbS _x Se _{1-x} colloidal quantum dots. <i>RSC Advances</i> , 2016, 6, 87730-87737.	3.6	38
9	Solution-processed, flexible and broadband photodetector based on CsPbBr ₃ /PbSe quantum dot heterostructures. <i>Journal of Materials Science and Technology</i> , 2021, 68, 216-226.	10.7	37
10	Surface Engineering of All-Inorganic Perovskite Quantum Dots with Quasi Core-Shell Technique for High-Performance Photodetectors. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000360.	3.7	34
11	Influence of All-Inorganic Halide Perovskite CsPbBr ₃ Quantum Dots Combined with Polymer Matrix. <i>Materials</i> , 2019, 12, 985.	2.9	33
12	Solution-Processed, Self-Powered Broadband CH ₃ NH ₃ PbI ₃ Photodetectors Driven by Asymmetric Electrodes. <i>Advanced Optical Materials</i> , 2020, 8, 2000215.	7.3	32
13	Pentacene-Based Photodetector in Visible Region With Vertical Field-Effect Transistor Configuration. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 233-236.	2.5	31
14	Enhanced performance of solution-processed broadband photodiodes by epitaxially blending MAPbBr ₃ quantum dots and ternary PbS _x Se _{1-x} quantum dots as the active layer. <i>Nanotechnology</i> , 2017, 28, 505501.	2.6	30
15	High-performance solution-processed colloidal quantum dots-based tandem broadband photodetectors with dielectric interlayer. <i>Nanotechnology</i> , 2019, 30, 465203.	2.6	30
16	Ultra-sensitive solution-processed broadband photodetectors based on vertical field-effect transistor. <i>Nanotechnology</i> , 2020, 31, 105203.	2.6	30
17	Charge carriers at organic heterojunction interface: Exciplex emission or electroplex emission?. <i>Journal of Applied Physics</i> , 2007, 101, 096101.	2.5	26
18	Influence of post-synthesis annealing on PbS quantum dot solar cells. <i>Organic Electronics</i> , 2017, 42, 309-315.	2.6	25

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19	Solution-phase, template-free synthesis of PbI ₂ and MAPbI ₃ nano/microtubes for high-sensitivity photodetectors. <i>Nanoscale</i> , 2019, 11, 5188-5196.	5.6	24
20	Stability enhancement of PbSe quantum dots via post-synthetic ammonium chloride treatment for a high-performance infrared photodetector. <i>Nanotechnology</i> , 2016, 27, 065201.	2.6	23
21	A facile method to synthesize two-dimensional CsPb ₂ Br ₅ nano-/micro-sheets for high-performance solution-processed photodetectors. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153970.	5.5	22
22	Molecular beam epitaxy growth of high mobility InN film for high-performance broadband heterointerface photodetectors. <i>Surfaces and Interfaces</i> , 2022, 29, 101772.	3.0	21
23	Solution-processed P3HT-based photodetector with field-effect transistor configuration. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 1511-1516.	2.3	20
24	Ultrasensitive all-solution-processed field-effect transistor based perovskite photodetectors with sol-gel SiO ₂ as the dielectric layer. <i>Journal of Alloys and Compounds</i> , 2017, 717, 150-155.	5.5	19
25	High-sensitivity broadband colloidal quantum dot heterojunction photodetector for night-sky radiation. <i>Journal of Alloys and Compounds</i> , 2018, 764, 446-451.	5.5	19
26	Porous Single-Wall Carbon Nanotube Templates Decorated with All-inorganic Perovskite Nanocrystals for Ultraflexible Photodetectors. <i>ACS Applied Nano Materials</i> , 2020, 3, 459-467.	5.0	19
27	Hybrid Nanocomposites of All-inorganic Halide Perovskites with Polymers for High-Performance Field-Effect Transistor-Based Photodetectors: An Experimental and Simulation Study. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	19
28	Towards optimization of functionalized single-walled carbon nanotubes adhering with poly(3-hexylthiophene) for highly efficient polymer solar cells. <i>Diamond and Related Materials</i> , 2014, 41, 79-83.	3.9	18
29	To enhance the performance of all-inorganic perovskite photodetectors via constructing both bilayer heterostructure and bipolar carrier transporting channels. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14938-14948.	5.5	18
30	Performance Enhancement of FET-Based Photodetector by Blending P3HT With PMMA. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 1535-1538.	2.5	17
31	Influence of the active layer nanomorphology on device performance for ternary PbS _x Se _{1-x} quantum dots based solution-processed infrared photodetector. <i>Nanotechnology</i> , 2016, 27, 165202.	2.6	17
32	Recent progress of infrared photodetectors based on lead chalcogenide colloidal quantum dots. <i>Chinese Physics B</i> , 2019, 28, 020701.	1.4	17
33	An ultrasonic synthesis method for high-luminance perovskite quantum dots. <i>Ceramics International</i> , 2017, 43, 16032-16035.	4.8	16
34	All-solution-processed UV-IR broadband trilayer photodetectors with CsPbBr ₃ colloidal nanocrystals as carriers-extracting layer. <i>Nanotechnology</i> , 2020, 31, 165502.	2.6	16
35	The Relationship between Blood Lipids and Risk of Atrial Fibrillation: Univariable and Multivariable Mendelian Randomization Analysis. <i>Nutrients</i> , 2022, 14, 181.	4.1	16
36	A one-step method to synthesize CH ₃ NH ₃ PbI ₃ :MoS ₂ nanohybrids for high-performance solution-processed photodetectors in the visible region. <i>Nanotechnology</i> , 2019, 30, 085707.	2.6	14

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37	Surfactant-treated graphene oxide in organic solvents and its application in photovoltaic cells. <i>Current Applied Physics</i> , 2017, 17, 343-350.	2.4	13
38	Efficiency enhancement of organic solar cells by inserting PbS quantum dots film as the infrared absorption layer. <i>Materials Letters</i> , 2017, 187, 136-139.	2.6	13
39	Self-powered, all-solution processed, trilayer heterojunction perovskite-based photodetectors. <i>Nanotechnology</i> , 2020, 31, 254001.	2.6	13
40	Efficiency enhancement for solution-processed PbS quantum dots solar cells by inserting graphene oxide as hole-transporting and interface modifying layer. <i>Organic Electronics</i> , 2018, 58, 270-275.	2.6	12
41	<scp>PEDOT</scp>:<scp>PSS</scp> Modification by blending graphene oxide to improve the efficiency of organic solar cells. <i>Polymer Composites</i> , 2018, 39, 3066-3072.	4.6	11
42	Enhanced performance of solution-processed all-inorganic halide perovskite photodetectors by using bulk heterojunction and lateral configuration. <i>Journal of Alloys and Compounds</i> , 2022, 896, 163022.	5.5	10
43	Impact of electric fields on the emission from organic light-emitting diodes based on polyvinylcarbazole (PVK). <i>Journal of Luminescence</i> , 2007, 122-123, 614-616.	3.1	9
44	Enhancement of the power conversion efficiency of polymer solar cells by functionalized single-walled carbon nanotubes decorated with CdSe/ZnS core-shell colloidal quantum dots. <i>Journal of Materials Science</i> , 2014, 49, 2571-2577.	3.7	9
45	Enhancement of the power conversion efficiency of polymer solar cells by incorporating PbSe quantum dots. <i>Journal of Materials Science</i> , 2015, 50, 840-847.	3.7	9
46	Infrared photovoltaic detector based on p-GeTe/n-Si heterojunction. <i>Nanoscale Research Letters</i> , 2020, 15, 138.	5.7	9
47	The role of surfactant-treated graphene oxide in polymer solar cells: Mobility study. <i>Organic Electronics</i> , 2018, 53, 303-307.	2.6	6
48	Influence of the electric field on carriers recombination zone in bilayer organic electroluminescent device. <i>Science Bulletin</i> , 2000, 45, 1623-1628.	1.7	5
49	Influence of heterojunction interface on exciplex emission from organic light-emitting diodes under electric fields. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 90, 475-478.	2.3	5
50	Negative differential resistance phenomena in colloidal quantum dots-based organic light-emitting diodes. <i>Applied Physics Letters</i> , 2014, 104, 033301.	3.3	5
51	Which method is more efficient on enhancing light absorption for silicon nanowires array based solar cells: Plasmonic metal nanoparticles or narrow-bandgap semiconductor quantum dots?. <i>Materials Science in Semiconductor Processing</i> , 2022, 146, 106661.	4.0	5
52	Influence of the Post-Synthesis Annealing on Device Performance of PbS Quantum Dot Photoconductive Detectors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800408.	1.8	4
53	One-pot synthesis of novel ligand-free tin (<scp>ii</scp>)-based hybrid metal halide perovskite quantum dots with high anti-water stability for solution-processed UVC photodetectors. <i>Nanoscale</i> , 2022, 14, 4170-4180.	5.6	4
54	Current saturation effect for pentacene-based static induction transistor under negative drain-source and gate voltages. <i>Organic Electronics</i> , 2016, 31, 273-277.	2.6	3

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55	Circulating Vitamin D Levels and the Risk of Atrial Fibrillation: A Two-Sample Mendelian Randomization Study. <i>Frontiers in Nutrition</i> , 2022, 9, 837207.	3.7	3
56	Generalized predictive control with dynamic compensation for quadrotor attitude stabilization. , 2014, , .		2
57	Influence of contact resistance on the electrical characteristics of organic static induction transistors. <i>Semiconductor Science and Technology</i> , 2019, 34, 095022.	2.0	1
58	Design of four mirror inverted telephoto zoom system. <i>Frontiers of Optoelectronics</i> , 2016, 9, 599-608.	3.7	0
59	An alignment method for the reflective zoom system by applying vector wavefront aberration theory. <i>Optik</i> , 2016, 127, 748-751.	2.9	0
60	Mn ²⁺ x Y x (MoO ₄) ₃ Phosphor Excited by UV GaN-Based Light-Emitting Diode for White Emission. <i>Journal of Electronic Materials</i> , 2017, 46, 2501-2505.	2.2	0
61	Colloidal quantum dots based solar cells. , 2021, , 149-180.		0