

Tong Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

1,522
citations

20
h-index

38
g-index

61
ext. papers

1,765
ext. citations

4.7
avg, IF

4.62
L-index

#	Paper	IF	Citations
57	Simple Self-Assembly Strategy of Nanospheres on 3D Substrate and Its Application for Enhanced Textured Silicon Solar Cell. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
56	High-Dielectric Oxides for Electronics 2021 , 75-91		0
55	Recent progress on nanostructure-based broadband absorbers and their solar energy thermal utilization. <i>Frontiers of Chemical Science and Engineering</i> , 2021 , 15, 35-48	4.5	1
54	Synthesis of polyurethane-imids and application in surface plasmon polaritons waveguide. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	1
53	A fluid-based active plasmonic grating filter. <i>AIP Advances</i> , 2020 , 10, 015147	1.5	0
52	Electrospinning Ag-TiO Nanorod-Loaded Air Treatment Filters and Their Applications in Air Purification. <i>Molecules</i> , 2020 , 25,	4.8	5
51	Highly Efficient and Less Time Consuming Additive Free Anisotropic Etching of Silicon Wafers for Photovoltaics. <i>Silicon</i> , 2020 , 12, 773-778	2.4	4
50	One-step microwave-hydrothermal preparation of NiS/rGO hybrid for high-performance symmetric solid-state supercapacitor. <i>Applied Surface Science</i> , 2020 , 514, 146080	6.7	24
49	Fabrication of an Efficient Planar Organic-Silicon Hybrid Solar Cell with a 150 nm Thick Film of PEDOT: PSS. <i>Micromachines</i> , 2019 , 10,	3.3	4
48	Progress in the Utilization Efficiency Improvement of Hot Carriers in Plasmon-Mediated Heterostructure Photocatalysis. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2093	2.6	5
47	Fabrication of multilayered MoS ₂ coated raspberry-like TiO ₂ on rGO with enhanced photocatalytic reduction of Cr(VI). <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 12901-12910	2.1	6
46	Dynamically Tunable Light Absorbers as Color Filters Based on Electrowetting Technology. <i>Nanomaterials</i> , 2019 , 9,	5.4	2
45	Research progress of surface plasmons mediated photothermal effects. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019 , 68, 144401	0.6	4
44	Real-Time Electro-Optical Tunable Hyperlens Under Subwavelength Scale. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-9	1.8	8
43	In-situ liquid cell transmission electron microscopy investigation on oriented attachment of gold nanoparticles. <i>Nature Communications</i> , 2018 , 9, 421	17.4	117
42	Synthesis and characterization of electro-optic waveguide material polyurethane-imides. <i>Journal of Polymer Research</i> , 2018 , 25, 1	2.7	4
41	Broadband MoS Field-Effect Phototransistors: Ultrasensitive Visible-Light Photoresponse and Negative Infrared Photoresponse. <i>Advanced Materials</i> , 2018 , 30, 1705880	24	125

40	Hot spots based gold nanostar@SiO ₂ @CdSe/ZnS quantum dots complex with strong fluorescence enhancement. <i>AIP Advances</i> , 2018 , 8, 025219	1.5	5
39	Highly-efficient low cost anisotropic wet etching of silicon wafers for solar cells application. <i>AIP Advances</i> , 2018 , 8, 025223	1.5	8
38	In situ hybridization of polyaniline nanofibers on functionalized reduced graphene oxide films for high-performance supercapacitor. <i>Electrochimica Acta</i> , 2018 , 285, 221-229	6.7	37
37	Electrical Rectifying and Photosensing Property of Schottky Diode Based on MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24613-24619	9.5	22
36	N/S co-doped three-dimensional graphene hydrogel for high performance supercapacitor. <i>Electrochimica Acta</i> , 2018 , 278, 51-60	6.7	97
35	Hot spots enriched plasmonic nanostructure-induced random lasing of quantum dots thin film. <i>Chinese Physics B</i> , 2018 , 27, 047804	1.2	4
34	Seeds screening aqueous synthesis, multiphase interfacial separation and in situ optical characterization of invisible ultrathin silver nanowires. <i>Nanoscale</i> , 2018 , 10, 15468-15484	7.7	11
33	High-frequency InAlN/GaN HFET with f _{max} over 400 GHz. <i>Electronics Letters</i> , 2018 , 54, 783-785	1.1	10
32	SnO ₂ nanorods encapsulated within a 3D interconnected graphene network architecture as high-performance lithium-ion battery anodes. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 262-270	5.8	11
31	Silver nanoplate aggregation based multifunctional black metal absorbers for localization, photothermal harnessing enhancement and omnidirectional light antireflection. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 989-999	7.1	20
30	Seeds triggered massive synthesis and multi-step room temperature post-processing of silver nanoplate application for paper electronics. <i>RSC Advances</i> , 2017 , 7, 8-19	3.7	21
29	Low loss polymeric electro-optic modulator based on disperse red 1 doped fluorinated polyimide 2017 ,		1
28	Integrated optical readout using a hybrid plasmonic directional coupler in water. <i>Applied Optics</i> , 2017 , 56, 7230-7236	1.7	4
27	Investigation of simultaneously existed Raman scattering enhancement and inhibiting fluorescence using surface modified gold nanostars as SERS probes. <i>Scientific Reports</i> , 2017 , 7, 6813	4.9	26
26	Synthesis of silver nanoplate based two-dimension plasmonic platform from 25 nm to 40 nm: growth mechanism and optical characteristic investigation in situ. <i>RSC Advances</i> , 2017 , 7, 55680-55690	3.7	5
25	Synthesis and characterization of electro-optic polyurethane-imide and fabrication of optical waveguide device. <i>High Performance Polymers</i> , 2017 , 29, 879-888	1.6	8
24	Plasmonic nanostructures for electronic designs of photovoltaic devices: plasmonic hot-carrier photovoltaic architectures and plasmonic electrode structures. <i>Journal of Photonics for Energy</i> , 2016 , 6, 042504	1.2	14
23	Synthesis and characterization of cross-linkable polyurethane-imide electro-optic waveguide polymer. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	6

22	Flexible TE-Pass Polymer Waveguide Polarizer With Low Bending Loss. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 2601-2604	2.2	8
21	Robust Ag nanoplate ink for flexible electronics packaging. <i>Nanoscale</i> , 2015 , 7, 7368-77	7.7	60
20	High quantum-yield luminescent MoS ₂ quantum dots with variable light emission created via direct ultrasonic exfoliation of MoS ₂ nanosheets. <i>RSC Advances</i> , 2015 , 5, 95178-95182	3.7	47
19	Integrated optical gyroscope using active long-range surface plasmon-polariton waveguide resonator. <i>Scientific Reports</i> , 2014 , 4, 3855	4.9	24
18	Investigation on the role of the molecular weight of polyvinyl pyrrolidone in the shape control of high-yield silver nanospheres and nanowires. <i>Nanoscale Research Letters</i> , 2014 , 9, 17	5	88
17	Direct writing on paper of foldable capacitive touch pads with silver nanowire inks. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21721-9	9.5	186
16	Flexible multilayer substrate based optical waveguides: Applications to optical sensing. <i>Sensors and Actuators A: Physical</i> , 2014 , 209, 57-61	3.9	17
15	Applications of Silver Nanowires on Transparent Conducting Film and Electrode of Electrochemical Capacitor. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-7	3.2	5
14	Plasmonics and Nanophotonics. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-1	3.2	1
13	Effects of Ag Nanocubes with Different Corner Shape on the Absorption Enhancement in Organic Solar Cells. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-8	3.2	2
12	Synthesis of silver nanostructures by multistep methods. <i>Sensors</i> , 2014 , 14, 5860-89	3.8	58
11	Self-assembly of large-scale gold nanoparticle arrays and their application in SERS. <i>Nanoscale Research Letters</i> , 2014 , 9, 114	5	18
10	Gold nanoparticle thin films fabricated by electrophoretic deposition method for highly sensitive SERS application. <i>Nanoscale Research Letters</i> , 2012 , 7, 613	5	42
9	Fabrication and spectroscopic investigation of branched silver nanowires and nanomeshworks. <i>Nanoscale Research Letters</i> , 2012 , 7, 596	5	13
8	Controllable plasmonic antennas with ultra narrow bandwidth based on silver nano-flags. <i>Applied Physics Letters</i> , 2012 , 101, 153118	3.4	21
7	Self-assembly of large-scale and ultrathin silver nanoplate films with tunable plasmon resonance properties. <i>ACS Nano</i> , 2011 , 5, 9082-92	16.7	165
6	Subwavelength plasmonic waveguides based on ZnO nanowires and nanotubes: A theoretical study of thermo-optical properties. <i>Applied Physics Letters</i> , 2010 , 96, 043109	3.4	24
5	Numerical analysis of deep sub-wavelength integrated plasmonic devices based on Semiconductor-Insulator-Metal strip waveguides. <i>Optics Express</i> , 2010 , 18, 18945-59	3.3	80

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| 4 | The first homochiral compound with temperature-independence of piezoelectric properties. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1868 | | 11 |
| 3 | Plasmonic Properties of Welded Metal Nanoparticles. <i>The Open Surface Science Journal</i> , 2010 , 3, 76-81 | | 14 |
| 2 | Low-loss planar optical waveguides fabricated from polycarbonate. <i>Polymer Engineering and Science</i> , 2009 , 49, 2015-2019 | 2.3 | 14 |
| 1 | Recent progress in 2D material van der Waals heterostructure-based luminescence devices towards the infrared wavelength range. <i>Journal of Materials Chemistry C</i> , | 7.1 | 1 |