

Zhenglong Zhang

List of Publications by Year in descending order

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67
papers

2,145
citations

279798

23
h-index

233421

45
g-index

69
all docs

69
docs citations

69
times ranked

2602
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmon enhanced light-matter interaction of rice-like nanorods by a cube-plate nanocavity. <i>Nanoscale Advances</i> , 2022, 4, 1145-1150.	4.6	1
2	Controlling and probing heat generation in an optical heater system. <i>Nanophotonics</i> , 2022, 11, 979-986.	6.0	6
3	Plasmon-Induced Hot Electrons in Metallic Nanoparticles. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2022, , 155-175.	0.8	1
4	Interlayer Coulomb interaction in twisted bilayer graphene nanofragments characterized by the vibrational mode of $G_{\text{r}}/G_{\text{s}}+G_{\text{sup}}/G_{\text{sup}}$ band. <i>Applied Physics Letters</i> , 2022, 120, 083103.	3.3	5
5	Local controllability of hot electron and thermal effects enabled by chiral plasmonic nanostructures. <i>Nanophotonics</i> , 2022, 11, 1195-1202.	6.0	4
6	2D Wavelength-Polarization Dispersive Microspectroscopy Based on a Hybrid Plasmonic Helical Nanostructure. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	1
7	Fundamentals of Surface Plasmons. , 2022, , 1-30.		0
8	Manipulating the upconversion luminescence of $\text{Yb}^{3+}/\text{Er}^{3+}$ doped nanoparticles by the sheet-shaped nanocavity. <i>Journal of Luminescence</i> , 2022, 248, 118944.	3.1	2
9	An enhanced plasmonic photothermal effect for crystal transformation by a heat-trapping structure. <i>Nanoscale</i> , 2021, 13, 4585-4591.	5.6	10
10	Multiplasmons-Pumped Excited-State Absorption and Energy Transfer Upconversion of Rare-Earth-Doped Luminescence beyond the Diffraction Limit. <i>ACS Photonics</i> , 2021, 8, 1335-1343.	6.6	15
11	Opto-refrigerative tweezers. <i>Science Advances</i> , 2021, 7, .	10.3	32
12	Self-Constructed Multiple Plasmonic Hotspots on an Individual Fractal to Amplify Broadband Hot Electron Generation. <i>ACS Nano</i> , 2021, 15, 10553-10564.	14.6	37
13	Binary Surfactant-Mediated Tunable Nanotip Growth on Gold Nanoparticles and Applications in Photothermal Catalysis. <i>Frontiers in Chemistry</i> , 2021, 9, 699548.	3.6	3
14	Fast transformation of a rare-earth doped luminescent sub-microcrystal via plasmonic nanoislands. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4338-4342.	5.5	13
15	Plasmon induced deprotonation of 2-mercaptopyridine. <i>Analyst</i> , The, 2020, 145, 2106-2110.	3.5	9
16	Hot electron and thermal effects in plasmonic catalysis of nanocrystal transformation. <i>Nanoscale</i> , 2020, 12, 8768-8774.	5.6	27
17	Vibrational spectra and chemical imaging of cyclo[18]carbon by tip enhanced Raman spectroscopy. <i>Chemical Communications</i> , 2020, 56, 2336-2339.	4.1	38
18	Multi-plasmon resonances enhanced two-photon coherent anti-Stokes Raman scattering by nanorods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 231, 118117.	3.9	3

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19	Plasmonic nanocavity enhanced vibration of graphene by a radially polarized optical field. <i>Nanophotonics</i> , 2020, 9, 2017-2023.	6.0	4
20	Controlled Multichannel Surface Plasmon Polaritons Transmission on Atomic Smooth Silver Triangular Waveguide. <i>Advanced Optical Materials</i> , 2019, 7, 1900930.	7.3	11
21	Plasmon-Driven Catalysis on Molecules and Nanomaterials. <i>Accounts of Chemical Research</i> , 2019, 52, 2506-2515.	15.6	197
22	Plasmon Enhanced Fluorescence and Raman Scattering by [Au-Ag Alloy NP Cluster]@SiO ₂ Core-Shell Nanostructure. <i>Frontiers in Chemistry</i> , 2019, 7, 647.	3.6	11
23	Plasmonic Crystal Transformation: Plasmon-Driven Rapid In Situ Formation of Luminescence Single Crystal Nanoparticle (Small 34/2019). <i>Small</i> , 2019, 15, 1970183.	10.0	2
24	Preparation and spectroscopic study of a water-soluble NaYF ₄ :Yb ³⁺ /Er ³⁺ @NaGdF ₄ crystal particle and its application in bioimaging. <i>New Journal of Chemistry</i> , 2019, 43, 1770-1774.	2.8	4
25	Plasmon-Driven Rapid In Situ Formation of Luminescence Single Crystal Nanoparticle. <i>Small</i> , 2019, 15, e1901286.	10.0	23
26	Multiple surface plasmon resonances enhanced nonlinear optical microscopy. <i>Nanophotonics</i> , 2019, 8, 487-493.	6.0	41
27	High-performance upconversion luminescent waveguide using a rare-earth doped microtube with beveled ends. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12704-12708.	5.5	5
28	Enhanced upconversion fluorescent probe of single NaYF ₄ :Yb ³⁺ /Er ³⁺ /Zn ²⁺ nanoparticles for copper ion detection. <i>RSC Advances</i> , 2018, 8, 37618-37622.	3.6	13
29	PbS Nanoparticles for Ultrashort Pulse Generation in Optical Communication Region. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800341.	2.3	82
30	Enhanced Visible-Light Photocatalytic H ₂ Evolution in Cu ₂ O/Cu ₂ Se Multilayer Heterostructure Nanowires Having {111} Facets and Physical Mechanism. <i>Inorganic Chemistry</i> , 2018, 57, 8019-8027.	4.0	23
31	Plasmon-Driven Diazo Coupling Reactions of p-Nitroaniline via $\hat{\sim}$ NH ₂ or $\hat{\sim}$ NO ₂ in Atmosphere Environment. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5225-5231.	3.1	37
32	Plasmon induced polymerization using a TERS approach: a platform for nanostructured 2D/1D material production. <i>Faraday Discussions</i> , 2017, 205, 213-226.	3.2	16
33	Multicolor upconversion emission of lanthanide-doped single LiYF ₄ and LiLuF ₄ microcrystal. <i>Materials Research Bulletin</i> , 2017, 91, 77-84.	5.2	20
34	Tunable Ultrahigh Order Surface Plasmonic Resonance in Multi-Ring Plasmonic Nanocavities. <i>Plasmonics</i> , 2017, 12, 1773-1779.	3.4	5
35	Investigation on the Enhanced Fluorescence Emission from Self-Assembled Au Nanorod Film. <i>Plasmonics</i> , 2017, 12, 1841-1845.	3.4	4
36	Unique adjustable UC luminescence pattern and directional radiation of peculiar-shaped NaYF ₄ : Yb ³⁺ /Er ³⁺ microcrystal particle. <i>Scientific Reports</i> , 2017, 7, 5371.	3.3	9

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37	Investigation on Optical Properties of Ag@Au Alloy Nanoparticles. Plasmonics, 2017, 12, 1373-1379.	3.4	7
38	Controlled plasmon enhanced fluorescence by silver nanoparticles deposited onto nanotube arrays. Journal of Physics Condensed Matter, 2016, 28, 364004.	1.8	4
39	Propagating Surface Plasmon Polaritons: Towards Applications for Remote Excitation Surface Catalytic Reactions. Advanced Science, 2016, 3, 1500215.	11.2	106
40	Manipulation of Magnetic Fano Resonances in Double Split-Hole Disk. Plasmonics, 2016, 11, 269-275.	3.4	4
41	Label-free monitoring of plasmonic catalysis on the nanoscale. Analyst, The, 2015, 140, 4325-4335.	3.5	39
42	Preparation of Ag/Au bimetallic nanostructures and their application in surface-enhanced fluorescence. Luminescence, 2015, 30, 1090-1093.	2.9	16
43	Generation of High-Order Resonance Modes in Visible and Near-Infrared Range from Square Ring-Disk System. Plasmonics, 2015, 10, 1915-1920.	3.4	7
44	Investigation on $\text{YF}_3:\text{Eu}^{3+}$ architectures and their luminescence properties. CrystEngComm, 2015, 17, 8242-8247.	2.6	12
45	Nanowire-supported plasmonic waveguide for remote excitation of surface-enhanced Raman scattering. Light: Science and Applications, 2014, 3, e199-e199.	16.6	190
46	Unusual upconversion emission from single $\text{NaYF}_4:\text{Yb}^{3+}/\text{Ho}^{3+}$ microrods under NIR excitation. CrystEngComm, 2014, 16, 6697-6706.	2.6	48
47	Manipulating Surface Plasmon Polaritons Using F-Shaped Nanoslits Array. IEEE Photonics Technology Letters, 2014, 26, 1247-1250.	2.5	7
48	Higher Order Fano Resonances and Electric Field Enhancements in Disk-Ring Plasmonic Nanostructures with Double Symmetry Breaking. Plasmonics, 2014, 9, 1439-1445.	3.4	32
49	Enhanced red upconversion luminescence by codoping Ce^{3+} in $\text{F}^{2-}\text{-NaY}(\text{Gd}_{0.4})\text{F}_4:\text{Yb}^{3+}/\text{Ho}^{3+}$ nanocrystals. Journal of Materials Chemistry C, 2014, 2, 5327-5334.	5.5	95
50	Visualized method of chemical enhancement mechanism on SERS and TERS. Journal of Raman Spectroscopy, 2014, 45, 533-540.	2.5	107
51	Synthesis of Ag-SiO ₂ composite nanospheres and their catalytic activity. Science China Chemistry, 2014, 57, 881-887.	8.2	13
52	Enhancement of red emission by co-dopant Ln^{3+} ions in $\text{Eu}^{3+}:\text{LaOF}$ nanoparticles. Science China: Physics, Mechanics and Astronomy, 2013, 56, 928-932.	5.1	6
53	Electric field gradient quadrupole Raman modes observed in plasmon-driven catalytic reactions revealed by HV-TERS. Nanoscale, 2013, 5, 4151.	5.6	54
54	Surface enhanced fluorescence and Raman scattering by gold nanoparticle dimers and trimers. Journal of Applied Physics, 2013, 113, .	2.5	66

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55	Self-assembled synthesis of SEF-active silver dendrites by galvanic displacement on copper substrate. Applied Physics B: Lasers and Optics, 2013, 111, 523-526.	2.2	8
56	Remotely excited Raman optical activity using chiral plasmon propagation in Ag nanowires. Light: Science and Applications, 2013, 2, e112-e112.	16.6	185
57	Fabrication of flower-like silver nanostructure on the Al substrate for surface enhanced fluorescence. Applied Physics Letters, 2012, 100, .	3.3	34
58	In-situ plasmon-driven chemical reactions revealed by high vacuum tip-enhanced Raman spectroscopy. Scientific Reports, 2012, 2, 647.	3.3	254
59	Surface enhanced fluorescence on three dimensional silver nanostructure substrate. Journal of Applied Physics, 2012, 111, 093101.	2.5	34
60	Surface enhanced fluorescence by porous alumina with nanohole arrays. Science China: Physics, Mechanics and Astronomy, 2012, 55, 767-771.	5.1	14
61	Surface Enhanced Fluorescence of Rh6G with Gold Nanohole Arrays. Journal of Nanoscience and Nanotechnology, 2011, 11, 9803-9807.	0.9	9
62	Preparation of Cu-SiO ₂ composite aerogel by ambient drying and the influence of synthesizing conditions on the structure of the aerogel. Science Bulletin, 2011, 56, 685-690.	1.7	16
63	Efficient fluorescence emission and photon conversion of LaOF:Eu ³⁺ nanocrystals. Applied Physics Letters, 2011, 98, 011907.	3.3	44
64	Fluorescence enhancement of acridine orange in a water solution by Au nanoparticles. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1799-1804.	5.1	13
65	In-situ growth and photoluminescence of In^{2+} -Ga ₂ O ₃ cone-like nanowires on the surface of Ga substrates. Science in China Series D: Earth Sciences, 2009, 52, 1712-1721.	0.9	6
66	Optical dephasing of triply ionized rare earths in transparent glass ceramics containing LaF ₃ nanocrystals. Journal of Nanoscience and Nanotechnology, 2008, 8, 1214-7.	0.9	0
67	The vector beam assisted e^{-} spot optimization in tip-enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 0, , .	2.5	0