

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	In-situ plasmon-driven chemical reactions revealed by high vacuum tip-enhanced Raman spectroscopy. <i>Scientific Reports</i> , 2012, 2, 647.	3.3	254
2	Plasmon-Driven Catalysis on Molecules and Nanomaterials. <i>Accounts of Chemical Research</i> , 2019, 52, 2506-2515.	15.6	197
3	Nanowire-supported plasmonic waveguide for remote excitation of surface-enhanced Raman scattering. <i>Light: Science and Applications</i> , 2014, 3, e199-e199.	16.6	190
4	Remotely excited Raman optical activity using chiral plasmon propagation in Ag nanowires. <i>Light: Science and Applications</i> , 2013, 2, e112-e112.	16.6	185
5	Visualized method of chemical enhancement mechanism on SERS and TERS. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 533-540.	2.5	107
6	Propagating Surface Plasmon Polaritons: Towards Applications for Remote Excitation Surface Catalytic Reactions. <i>Advanced Science</i> , 2016, 3, 1500215.	11.2	106
7	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. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5327-5334.	5.5	95
8	PbS Nanoparticles for Ultrashort Pulse Generation in Optical Communication Region. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800341.	2.3	82
9	Surface enhanced fluorescence and Raman scattering by gold nanoparticle dimers and trimers. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	66
10	Electric field gradient quadrupole Raman modes observed in plasmon-driven catalytic reactions revealed by HV-TERS. <i>Nanoscale</i> , 2013, 5, 4151.	5.6	54
11	Unusual upconversion emission from single $\text{NaYF}_4:\text{Yb}^{3+}/\text{Ho}^{3+}$ microrods under NIR excitation. <i>CrystEngComm</i> , 2014, 16, 6697-6706.	2.6	48
12	Efficient fluorescence emission and photon conversion of $\text{LaOF}:\text{Eu}^{3+}$ nanocrystals. <i>Applied Physics Letters</i> , 2011, 98, 011907.	3.3	44
13	Multiple surface plasmon resonances enhanced nonlinear optical microscopy. <i>Nanophotonics</i> , 2019, 8, 487-493.	6.0	41
14	Label-free monitoring of plasmonic catalysis on the nanoscale. <i>Analyst</i> , 2015, 140, 4325-4335.	3.5	39
15	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
16	Plasmon-Driven Diazo Coupling Reactions of p-Nitroaniline via NH_2 or NO_2 in Atmosphere Environment. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5225-5231.	3.1	37
17	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
18	Fabrication of flower-like silver nanostructure on the Al substrate for surface enhanced fluorescence. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	34

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19	Surface enhanced fluorescence on three dimensional silver nanostructure substrate. Journal of Applied Physics, 2012, 111, 093101.	2.5	34
20	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
21	Opto-refrigerative tweezers. Science Advances, 2021, 7, .	10.3	32
22	Hot electron and thermal effects in plasmonic catalysis of nanocrystal transformation. Nanoscale, 2020, 12, 8768-8774.	5.6	27
23	Enhanced Visible-Light Photocatalytic H ₂ Evolution in Cu ₂ O/Cu ₂ Se Multilayer Heterostructure Nanowires Having {111} Facets and Physical Mechanism. Inorganic Chemistry, 2018, 57, 8019-8027.	4.0	23
24	Plasmon-Driven Rapid In Situ Formation of Luminescence Single Crystal Nanoparticle. Small, 2019, 15, e1901286.	10.0	23
25	Multicolor upconversion emission of lanthanide-doped single LiYF ₄ and LiLuF ₄ microcrystal. Materials Research Bulletin, 2017, 91, 77-84.	5.2	20
26	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
27	Preparation of Ag/Au bimetallic nanostructures and their application in surface-enhanced fluorescence. Luminescence, 2015, 30, 1090-1093.	2.9	16
28	Plasmon induced polymerization using a TERS approach: a platform for nanostructured 2D/1D material production. Faraday Discussions, 2017, 205, 213-226.	3.2	16
29	Multiplasmons-Pumped Excited-State Absorption and Energy Transfer Upconversion of Rare-Earth-Doped Luminescence beyond the Diffraction Limit. ACS Photonics, 2021, 8, 1335-1343.	6.6	15
30	Surface enhanced fluorescence by porous alumina with nanohole arrays. Science China: Physics, Mechanics and Astronomy, 2012, 55, 767-771.	5.1	14
31	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
32	Synthesis of Ag-SiO ₂ composite nanospheres and their catalytic activity. Science China Chemistry, 2014, 57, 881-887.	8.2	13
33	Enhanced upconversion fluorescent probe of single NaYF ₄ :Yb ³⁺ /Er ³⁺ /Zn ²⁺ nanoparticles for copper ion detection. RSC Advances, 2018, 8, 37618-37622.	3.6	13
34	Fast transformation of a rare-earth doped luminescent sub-microcrystal via plasmonic nanoislands. Journal of Materials Chemistry C, 2020, 8, 4338-4342.	5.5	13
35	Investigation on YF ₃ :Eu ³⁺ architectures and their luminescence properties. CrystEngComm, 2015, 17, 8242-8247.	2.6	12
36	Controlled Multichannel Surface Plasmon Polaritons Transmission on Atomic Smooth Silver Triangular Waveguide. Advanced Optical Materials, 2019, 7, 1900930.	7.3	11

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37	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
38	An enhanced plasmonic photothermal effect for crystal transformation by a heat-trapping structure. <i>Nanoscale</i> , 2021, 13, 4585-4591.	5.6	10
39	Surface Enhanced Fluorescence of Rh6G with Gold Nanohole Arrays. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 9803-9807.	0.9	9
40	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
41	Plasmon induced deprotonation of 2-mercaptopyridine. <i>Analyst</i> , The, 2020, 145, 2106-2110.	3.5	9
42	Self-assembled synthesis of SEF-active silver dendrites by galvanic displacement on copper substrate. <i>Applied Physics B: Lasers and Optics</i> , 2013, 111, 523-526.	2.2	8
43	Manipulating Surface Plasmon Polaritons Using F-Shaped Nanoslits Array. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1247-1250.	2.5	7
44	Generation of High-Order Resonance Modes in Visible and Near-Infrared Range from Square Ring-Disk System. <i>Plasmonics</i> , 2015, 10, 1915-1920.	3.4	7
45	Investigation on Optical Properties of Ag@Au Alloy Nanoparticles. <i>Plasmonics</i> , 2017, 12, 1373-1379.	3.4	7
46	In-situ growth and photoluminescence of In^{2+} -Ga ₂ O ₃ cone-like nanowires on the surface of Ga substrates. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1712-1721.	0.9	6
47	Enhancement of red emission by co-dopant Ln ³⁺ ions in Eu ³⁺ :LaOF nanoparticles. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 928-932.	5.1	6
48	Controlling and probing heat generation in an optical heater system. <i>Nanophotonics</i> , 2022, 11, 979-986.	6.0	6
49	Tunable Ultrahigh Order Surface Plasmonic Resonance in Multi-Ring Plasmonic Nanocavities. <i>Plasmonics</i> , 2017, 12, 1773-1779.	3.4	5
50	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
51	Interlayer Coulomb interaction in twisted bilayer graphene nanofragments characterized by the vibrational mode of G ₊ band. <i>Applied Physics Letters</i> , 2022, 120, 083103.	3.3	5
52	Controlled plasmon enhanced fluorescence by silver nanoparticles deposited onto nanotube arrays. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 364004.	1.8	4
53	Manipulation of Magnetic Fano Resonances in Double Split-Hole Disk. <i>Plasmonics</i> , 2016, 11, 269-275.	3.4	4
54	Investigation on the Enhanced Fluorescence Emission from Self-Assembled Au Nanorod Film. <i>Plasmonics</i> , 2017, 12, 1841-1845.	3.4	4

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55	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
56	Plasmonic nanocavity enhanced vibration of graphene by a radially polarized optical field. <i>Nanophotonics</i> , 2020, 9, 2017-2023.	6.0	4
57	Local controllability of hot electron and thermal effects enabled by chiral plasmonic nanostructures. <i>Nanophotonics</i> , 2022, 11, 1195-1202.	6.0	4
58	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
59	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
60	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
61	Manipulating the upconversion luminescence of Yb ³⁺ /Er ³⁺ doped nanoparticles by the sheet-shaped nanocavity. <i>Journal of Luminescence</i> , 2022, 248, 118944.	3.1	2
62	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
63	Plasmon-Induced Hot Electrons in Metallic Nanoparticles. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2022, , 155-175.	0.8	1
64	2D Wavelength-Polarization Dispersive Microspectroscope Based on a Hybrid Plasmonic Helical Nanostructure. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	1
65	The vector beam assisted "hot-spot"-optimization in tip-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 0, , .	2.5	0
66	Optical dephasing of triply ionized rare earths in transparent glass ceramics containing LaF ₃ nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1214-7.	0.9	0
67	Fundamentals of Surface Plasmons. , 2022, , 1-30.		0