

Lei Shao

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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.

75
papers

4,498
citations

31
h-index

67
g-index

80
ext. papers

5,251
ext. citations

13.3
avg, IF

5.83
L-index

#	Paper	IF	Citations
75	Gold nanorods and their plasmonic properties. <i>Chemical Society Reviews</i> , 2013 , 42, 2679-724	58.5	1330
74	Understanding the photothermal conversion efficiency of gold nanocrystals. <i>Small</i> , 2010 , 6, 2272-80	11	395
73	Unraveling the evolution and nature of the plasmons in (Au core)-(Ag shell) nanorods. <i>Advanced Materials</i> , 2012 , 24, OP200-7	24	202
72	Angle- and energy-resolved plasmon coupling in gold nanorod dimers. <i>ACS Nano</i> , 2010 , 4, 3053-62	16.7	144
71	Growth of Monodisperse Gold Nanospheres with Diameters from 20 nm to 220 nm and Their Core/Satellite Nanostructures. <i>Advanced Optical Materials</i> , 2014 , 2, 65-73	8.1	125
70	Advanced Plasmonic Materials for Dynamic Color Display. <i>Advanced Materials</i> , 2018 , 30, e1704338	24	122
69	Observation of the Fano resonance in gold nanorods supported on high-dielectric-constant substrates. <i>ACS Nano</i> , 2011 , 5, 6754-63	16.7	117
68	Shape-Dependent Refractive Index Sensitivities of Gold Nanocrystals with the Same Plasmon Resonance Wavelength. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17691-17697	3.8	117
67	(Gold nanorod core)/(polyaniline shell) plasmonic switches with large plasmon shifts and modulation depths. <i>Advanced Materials</i> , 2014 , 26, 3282-9	24	107
66	Universal scaling and Fano resonance in the plasmon coupling between gold nanorods. <i>ACS Nano</i> , 2011 , 5, 5976-86	16.7	106
65	Photocurrent enhancement of HgTe quantum dot photodiodes by plasmonic gold nanorod structures. <i>ACS Nano</i> , 2014 , 8, 8208-16	16.7	97
64	Distinct plasmonic manifestation on gold nanorods induced by the spatial perturbation of small gold nanospheres. <i>Nano Letters</i> , 2012 , 12, 1424-30	11.5	95
63	Plasmonic Metasurfaces with Conjugated Polymers for Flexible Electronic Paper in Color. <i>Advanced Materials</i> , 2016 , 28, 9956-9960	24	94
62	Gold Nanorod Rotary Motors Driven by Resonant Light Scattering. <i>ACS Nano</i> , 2015 , 9, 12542-51	16.7	82
61	Plasmon-Controlled F1ster Resonance Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8287-8296	3.8	79
60	Plasmonic-Molecular Resonance Coupling: Plasmonic Splitting versus Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14088-14095	3.8	78
59	A gold nanocrystal/poly(dimethylsiloxane) composite for plasmonic heating on microfluidic chips. <i>Advanced Materials</i> , 2012 , 24, 94-8	24	73

58	Mass-Based Photothermal Comparison Among Gold Nanocrystals, PbS Nanocrystals, Organic Dyes, and Carbon Black. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8909-8915	3.8	73
57	Plasmonic properties of single multispiked gold nanostars: correlating modeling with experiments. <i>Langmuir</i> , 2012 , 28, 8979-84	4	68
56	Hot Electron Generation and Cathodoluminescence Nanoscopy of Chiral Split Ring Resonators. <i>Nano Letters</i> , 2016 , 16, 5183-90	11.5	66
55	Gold Nanobipyramids: An Emerging and Versatile Type of Plasmonic Nanoparticles. <i>Accounts of Chemical Research</i> , 2019 , 52, 2136-2146	24.3	65
54	Macroscale colloidal noble metal nanocrystal arrays and their refractive index-based sensing characteristics. <i>Small</i> , 2014 , 10, 802-11	11	57
53	Fano resonance in (gold core)-(dielectric shell) nanostructures without symmetry breaking. <i>Small</i> , 2012 , 8, 1503-9	11	57
52	Light-Driven Rotation of Plasmonic Nanomotors. <i>Advanced Functional Materials</i> , 2018 , 28, 1706272	15.6	53
51	Correlating the plasmonic and structural evolutions during the sulfidation of silver nanocubes. <i>ACS Nano</i> , 2013 , 7, 9354-65	16.7	52
50	Evaluating Conditions for Strong Coupling between Nanoparticle Plasmons and Organic Dyes Using Scattering and Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20588-20596	3.8	47
49	Gold Nanorods: The Most Versatile Plasmonic Nanoparticles. <i>Chemical Reviews</i> , 2021 , 121, 13342-13453	68.1	42
48	Comparison of the plasmonic performances between lithographically fabricated and chemically grown gold nanorods. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 10861-70	3.6	39
47	Nanoantenna-Sandwiched Graphene with Giant Spectral Tuning in the Visible-to-Near-Infrared Region. <i>Advanced Optical Materials</i> , 2014 , 2, 162-170	8.1	35
46	Metasurfaces and Colloidal Suspensions Composed of 3D Chiral Si Nanoresonators. <i>Advanced Materials</i> , 2017 , 29, 1701352	24	34
45	Room-temperature valleytronic transistor. <i>Nature Nanotechnology</i> , 2020 , 15, 743-749	28.7	33
44	Plasmon-modulated light scattering from gold nanocrystal-decorated hollow mesoporous silica microspheres. <i>ACS Nano</i> , 2010 , 4, 6565-72	16.7	31
43	Continuous-Gradient Plasmonic Nanostructures Fabricated by Evaporation on a Partially Exposed Rotating Substrate. <i>Advanced Materials</i> , 2016 , 28, 4658-64	24	28
42	Antibody-Antigen Interaction Dynamics Revealed by Analysis of Single-Molecule Equilibrium Fluctuations on Individual Plasmonic Nanoparticle Biosensors. <i>ACS Nano</i> , 2018 , 12, 9958-9965	16.7	27
41	Identifying the functional groups effect on passivating perovskite solar cells. <i>Science Bulletin</i> , 2020 , 65, 1726-1734	10.6	24

40	Probing Photothermal Effects on Optically Trapped Gold Nanorods by Simultaneous Plasmon Spectroscopy and Brownian Dynamics Analysis. <i>ACS Nano</i> , 2017 , 11, 10053-10061	16.7	24
39	Plasmonically enabled two-dimensional material-based optoelectronic devices. <i>Nanoscale</i> , 2020 , 12, 8095-8108	7.7	22
38	Brownian fluctuations of an optically rotated nanorod. <i>Optica</i> , 2017 , 4, 746	8.6	22
37	Plasmon Excited Ultrahot Carriers and Negative Differential Photoresponse in a Vertical Graphene van der Waals Heterostructure. <i>Nano Letters</i> , 2019 , 19, 3295-3304	11.5	19
36	Directional Control of Light with Nanoantennas. <i>Advanced Optical Materials</i> , 2021 , 9, 2001081	8.1	15
35	Switching plasmonic Fano resonance in gold nanosphere-nanoplate heterodimers. <i>Nanoscale</i> , 2019 , 11, 9641-9653	7.7	14
34	Molecular Tunnel Junction-Controlled High-Order Charge Transfer Plasmon and Fano Resonances. <i>ACS Nano</i> , 2018 , 12, 12541-12550	16.7	14
33	Anapole States and Toroidal Resonances Realized in Simple Gold Nanoplate-on-Mirror Structures. <i>Advanced Optical Materials</i> , 2020 , 8, 2001173	8.1	13
32	Fabrication of plasmonic nanostructures by hole-mask colloidal lithography: Recent development. <i>Applied Materials Today</i> , 2019 , 15, 6-17	6.6	13
31	Plasmonic Color Laser Printing inside Transparent Gold Nanodisk-Embedded Poly(dimethylsiloxane) Matrices. <i>Advanced Optical Materials</i> , 2020 , 8, 1901605	8.1	12
30	Photothermal DNA Release from Laser-Tweezed Individual Gold Nanomotors Driven by Photon Angular Momentum. <i>ACS Photonics</i> , 2018 , 5, 2168-2175	6.3	11
29	(Metal yolk)/(porous ceria shell) nanostructures for high-performance plasmonic photocatalysis under visible light. <i>Nano Research</i> , 2020 , 13, 1354-1362	10	11
28	Strengthening Fano resonance on gold nanoplates with gold nanospheres. <i>Nanoscale</i> , 2020 , 12, 1975-1984	9.4	10
27	Optically controlled stochastic jumps of individual gold nanorod rotary motors. <i>Physical Review B</i> , 2018 , 98,	3.3	9
26	Nanoparticle-loaded cylindrical micelles from nanopore extrusion of block copolymer spherical micelles. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1850-5	4.8	9
25	Enhancing the crystallinity and surface roughness of sputtered TiO ₂ thin film by ZnO underlayer. <i>Applied Surface Science</i> , 2009 , 255, 6781-6785	6.7	9
24	Morphology Engineering of Au/(PdAg alloy) Nanostructures for Enhanced Electrocatalytic Ethanol Oxidation. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800258	3.1	8
23	How to Utilize Excited Plasmon Energy Efficiently. <i>ACS Nano</i> , 2021 ,	16.7	8

22	Chirality-selective transparency induced by lattice resonance in bilayer metasurfaces. <i>Photonics Research</i> , 2021 , 9, 484	6	7
21	Site-Selective Deposition of Metal-Organic Frameworks on Gold Nanobipyramids for Surface-Enhanced Raman Scattering. <i>Nano Letters</i> , 2021 , 21, 8205-8212	11.5	7
20	Heterostructures Built through Site-Selective Deposition on Anisotropic Plasmonic Metal Nanocrystals and Their Applications. <i>Small Structures</i> , 2100101	8.7	5
19	Observation of chiral and slow plasmons in twisted bilayer graphene.. <i>Nature</i> , 2022 , 605, 63-68	50.4	5
18	Controlling the emission frequency of graphene nanoribbon emitters based on spatially excited topological boundary states. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 8277-8283	3.6	4
17	(Gold nanorod core)/(poly(3,4-ethylene-dioxythiophene) shell) nanostructures and their monolayer arrays for plasmonic switching. <i>Nanoscale</i> , 2020 , 12, 20684-20692	7.7	4
16	Selective Deposition of Catalytic Metals on Plasmonic Au Nanocups for Room-Light-Active Photooxidation of -Phenylenediamine. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	4
15	Electronic Paper: Plasmonic Metasurfaces with Conjugated Polymers for Flexible Electronic Paper in Color (Adv. Mater. 45/2016). <i>Advanced Materials</i> , 2016 , 28, 10103-10103	24	4
14	A Data-Mining-Assisted Design of Structural Colors on Diamond Metasurfaces. <i>Advanced Photonics Research</i> , 2100292	1.9	3
13	All-State Switching of the Mie Resonance of Conductive Polyaniline Nanospheres.. <i>Nano Letters</i> , 2022 ,	11.5	3
12	Asymmetric Light Scattering on Heterodimers Made of Au Nanorods Vertically Standing on Au Nanodisks. <i>Advanced Optical Materials</i> , 2021 , 9, 2001595	8.1	3
11	Recent Progress in Optical-Resonance-Assisted Movement Control of Nanomotors. <i>Advanced Intelligent Systems</i> , 2020 , 2, 1900160	6	2
10	Electrophoretic Plasmonic Ink for Dynamic Color Display. <i>Advanced Optical Materials</i> , 2021 , 9, 2100091	8.1	2
9	Plasmon-Enhanced, Self-Traced Nanomotors on the Surface of Silicon. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24958-24967	16.4	2
8	Phonon Thermal Transport in Silicene/Graphene Heterobilayer Nanostructures: Effect of Interlayer Interactions.. <i>ACS Omega</i> , 2022 , 7, 5844-5852	3.9	1
7	Functional Metal Nanocrystals for Biomedical Applications 2017 , 809-840		1
6	Metasurfaces: Continuous-Gradient Plasmonic Nanostructures Fabricated by Evaporation on a Partially Exposed Rotating Substrate (Adv. Mater. 23/2016). <i>Advanced Materials</i> , 2016 , 28, 4756	24	1
5	Facet- and Gas-Dependent Reshaping of Au Nanoplates by Plasma Treatment. <i>ACS Nano</i> , 2021 , 15, 9860-9870	18.7	0

- 4 Control of light-valley interactions in 2D transition metal dichalcogenides with nanophotonic structures. *Nanoscale*, **2021**, 13, 6357-6372 7.7 ○
- 3 Plasmon-coupling-induced photon scattering torque. *Journal of the Optical Society of America B: Optical Physics*, **2022**, 39, 671 1.7
- 2 Functional Metal Nanocrystals for Biomedical Applications **2015**, 1-32
- 1 Synthesis of Colloidal Semiconductor Nanocrystals With Tunable Plasmonic Properties **2022**, 3-45