Hongxing Xu

List of Publications by Year in descending order

Source: //exaly.com/author-pdf/3218325/publications.pdf

Version: 2025-02-01

235	25,377	10224	6770
papers	citations	70 h-index	153 g-index

245	245	245	18549
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	15.4	3,300
2	Spectroscopy of Single Hemoglobin Molecules by Surface Enhanced Raman Scattering. Physical Review Letters, 1999, 83, 4357-4360.	7.8	2,355
3	Electromagnetic contributions to single-molecule sensitivity in surface-enhanced Raman scattering. Physical Review E, 2000, 62, 4318-4324.	2.1	1,554
4	Photothermal Nanomaterials: A Powerful Light-to-Heat Converter. Chemical Reviews, 2023, 123, 6891-6952.	54.7	1,261
5	Substrate-Induced Fano Resonances of a Plasmonic Nanocube: A Route to Increased-Sensitivity Localized Surface Plasmon Resonance Sensors Revealed. Nano Letters, 2011, 11, 1657-1663.	8.8	692
6	Surface-Plasmon-Enhanced Optical Forces in Silver Nanoaggregates. Physical Review Letters, 2002, 89, .	7.8	478
7	Cascaded logic gates in nanophotonic plasmon networks. Nature Communications, 2011, 2, .	14.2	438
8	A Novel Application of Plasmonics: Plasmonâ€Ðriven Surfaceâ€Catalyzed Reactions. Small, 2012, 8, 2777-2786.	11.5	433
9	Highly Surfaceâ€roughened â€œFlowerâ€likeâ€•Silver Nanoparticles for Extremely Sensitive Substrates of Surfaceâ€enhanced Raman Scattering. Advanced Materials, 2009, 21, 4614-4618.	24.4	375
10	Ascertaining p,pâ€²-Dimercaptoazobenzene Produced from p-Aminothiophenol by Selective Catalytic Coupling Reaction on Silver Nanoparticles. Langmuir, 2010, 26, 7737-7746.	3.8	367
11	Manipulating Coherent Plasmonâ€“Exciton Interaction in a Single Silver Nanorod on Monolayer WSe₂. Nano Letters, 2017, 17, 3809-3814.	8.8	342
12	Resonance shifts and spill-out effects in self-consistent hydrodynamic nanoplasmonics. Nature Communications, 2015, 6, .	14.2	303
13	Plasmon-Driven Catalysis on Molecules and Nanomaterials. Accounts of Chemical Research, 2019, 52, 2506-2515.	17.7	294
14	Malus-metasurface-assisted polarization multiplexing. Light: Science and Applications, 2020, 9, .	20.0	292
15	Surface-enhanced Raman scattering and fluorescence near metal nanoparticles. Physical Review B, 2005, 72, .	3.2	290
16	Plasmonic Properties of Gold Nanoparticles Separated from a Gold Mirror by an Ultrathin Oxide. Nano Letters, 2012, 12, 2088-2094.	8.8	285
17	Polarization Dependence of Surface-Enhanced Raman Scattering in Gold Nanoparticleâ€"Nanowire Systems. Nano Letters, 2008, 8, 2497-2502.	8.8	275
18	Quantum Dot-Based Local Field Imaging Reveals Plasmon-Based Interferometric Logic in Silver Nanowire Networks. Nano Letters, 2011, 11, 471-475.	8.8	275

#	Article	IF	Citations
19	Branched Silver Nanowires as Controllable Plasmon Routers. Nano Letters, 2010, 10, 1950-1954.	8.8	274
20	In-situ plasmon-driven chemical reactions revealed by high vacuum tip-enhanced Raman spectroscopy. Scientific Reports, 2012, 2, .	3.7	266
21	Surface-Enhanced Raman Spectroscopy and Nanogeometry:â€‰ The Plasmonic Origin of SERS. Journal of Physical Chemistry C, 2007, 111, 17985-17988.	3.2	260
22	Merging Bound States in the Continuum at Off-High Symmetry Points. Physical Review Letters, 2021, 126, .	7.8	245
23	Substrate-, Wavelength-, and Time-Dependent Plasmon-Assisted Surface Catalysis Reaction of 4-Nitrobenzenethiol Dimerizing to p,pâ€²-Dimercaptoazobenzene on Au, Ag, and Cu Films. Langmuir, 2011, 27, 10677-10682.	3.8	240
24	Chiral Surface Plasmon Polaritons on Metallic Nanowires. Physical Review Letters, 2011, 107, .	7.8	240
25	Light Propagation in Curved Silver Nanowire Plasmonic Waveguides. Nano Letters, 2011, 11, 1603-1608.	8.8	226
26	Plasmon Waveguiding in Nanowires. Chemical Reviews, 2018, 118, 2882-2926.	54.7	217
27	Remote-Excitation Surface-Enhanced Raman Scattering Using Propagating Ag Nanowire Plasmons. Nano Letters, 2009, 9, 2049-2053.	8.8	215
28	Unidirectional Broadband Light Emission from Supported Plasmonic Nanowires. Nano Letters, 2011, 11, 706-711.	8.8	209
29	Electromagnetic field enhancement in TERS configurations. Journal of Raman Spectroscopy, 2009, 40, 1343-1348.	1.9	207
30	Light-Emitting Plexciton: Exploiting Plasmonâ€“Exciton Interaction in the Intermediate Coupling Regime. ACS Nano, 2018, 12, 10393-10402.	15.4	200
31	Unified Treatment of Fluorescence and Raman Scattering Processes near Metal Surfaces. Physical Review Letters, 2004, 93, .	7.8	198
32	Recent Advances in Plasmonic Sensors. Sensors, 2014, 14, 7959-7973.	4.0	198
33	Remotely excited Raman optical activity using chiral plasmon propagation in Ag nanowires. Light: Science and Applications, 2013, 2, e112-e112.	20.0	193
34	Propagating Surface Plasmon Induced Photon Emission from Quantum Dots. Nano Letters, 2009, 9, 4168-4171.	8.8	185
35	Highâ€Q Plasmonic Resonances: Fundamentals and Applications. Advanced Optical Materials, 2021, 9, .	7.1	182
36	Hotâ€Electronâ€Mediated Photochemical Reactions: Principles, Recent Advances, and Challenges. Advanced Optical Materials, 2017, 5, .	7.1	177

#	Article	IF	Citations
37	Polarization-Dependent Surface-Enhanced Raman Spectroscopy of Isolated Silver Nanoaggregates. ChemPhysChem, 2003, 4, 1001-1005.	2.0	172
38	The pH-Controlled Plasmon-Assisted Surface Photocatalysis Reaction of 4-Aminothiophenol top,pâ€²-Dimercaptoazobenzene on Au, Ag, and Cu Colloids. Journal of Physical Chemistry C, 2011, 115, 9629-9636.	3.2	160
39	Merging bound states in the continuum by harnessing higher-order topological charges. Light: Science and Applications, 2022, 11, .	20.0	156
40	Correlation between Incident and Emission Polarization in Nanowire Surface Plasmon Waveguides. Nano Letters, 2010, 10, 1831-1835.	8.8	144
41	Directional Light Emission from Propagating Surface Plasmons of Silver Nanowires. Nano Letters, 2009, 9, 4383-4386.	8.8	140
42	Visualized method of chemical enhancement mechanism on SERS and TERS. Journal of Raman Spectroscopy, 2014, 45, 533-540.	1.9	136
43	Probing the limits of plasmonic enhancement using a two-dimensional atomic crystal probe. Light: Science and Applications, 2018, 7, .	20.0	133
44	Is 4â€nitrobenzenethiol converted to p,pâ€²â€dimercaptoazobenzene or 4â€aminothiophenol by surface photochemistry reaction?. Journal of Raman Spectroscopy, 2011, 42, 1205-1206.	1.9	128
45	Optimizing Substrate-Mediated Plasmon Coupling toward High-Performance Plasmonic Nanowire Waveguides. ACS Nano, 2012, 6, 8128-8135.	15.4	127
46	Strong Spin-Orbit Interaction of Light in Plasmonic Nanostructures and Nanocircuits. Physical Review Letters, 2016, 117, .	7.8	124
47	Controlled Synthesis of Uniform Silver Nanospheres. Journal of Physical Chemistry C, 2010, 114, 7427-7431.	3.2	123
48	Highly tunable propagating surface plasmons on supported silver nanowires. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4494-4499.	7.5	122
49	Nanowire-based plasmonic waveguides and devices for integrated nanophotonic circuits. Nanophotonics, 2012, 1, 155-169.	6.7	117
50	In Situ Raman Monitoring and Manipulating of Interfacial Hydrogen Spillover by Precise Fabrication of Au/TiO₂/Pt Sandwich Structures. Angewandte Chemie - International Edition, 2020, 59, 10343-10347.	14.9	116
51	Acid-directed synthesis of SERS-active hierarchical assemblies of silver nanostructures. Journal of Materials Chemistry, 2011, 21, 2495-2501.	6.8	111
52	Probing of sub-picometer vertical differential resolutions using cavity plasmons. Nature Communications, 2018, 9, .	14.2	111
53	Sub-50-ns ultrafast upconversion luminescence of a rare-earth-doped nanoparticle. Nature Photonics, 2022, 16, 651-657.	30.7	111
54	Topological band evolution between Lieb and kagome lattices. Physical Review B, 2019, 99, .	3.2	101

#	Article	IF	Citations
55	Continuous Tuning of Auâ€“Cu₂O Janus Nanostructures for Efficient Charge Separation. Angewandte Chemie - International Edition, 2020, 59, 22246-22251.	14.9	101
56	Optical interferometric logic gates based on metal slot waveguide network realizing whole fundamental logic operations. Optics Express, 2013, 21, 9556.	3.3	100
57	Nanoscale Imaging of Local Few-Femtosecond Near-Field Dynamics within a Single Plasmonic Nanoantenna. Nano Letters, 2015, 15, 6601-6608.	8.8	96
58	A highâ€throughput method for controlled hotâ€spot fabrication in SERSâ€active gold nanoparticle dimer arrays. Journal of Raman Spectroscopy, 2009, 40, 2171-2175.	1.9	95
59	Simultaneous Surface-Enhanced Resonant Raman and Fluorescence Spectroscopy of Monolayer MoSe₂: Determination of Ultrafast Decay Rates in Nanometer Dimension. Nano Letters, 2019, 19, 6284-6291.	8.8	93
60	Reduced linewidth multipolar plasmon resonances in metal nanorods and related applications. Nanoscale, 2013, 5, 6985.	5.1	87
61	Plasmonâ€“Exciton Interactions: Spontaneous Emission and Strong Coupling. Advanced Functional Materials, 2021, 31, .	16.9	86
62	Field enhancement and molecular response in surface-enhanced Raman scattering and fluorescence spectroscopy. Journal of Raman Spectroscopy, 2005, 36, 510-514.	1.9	83
63	Direct visual evidence for the chemical mechanism of surfaceâ€enhanced resonance Raman scattering via charge transfer. Journal of Raman Spectroscopy, 2009, 40, 137-143.	1.9	82
64	Topologically protected Dirac plasmons in a graphene superlattice. Nature Communications, 2017, 8, .	14.2	81
65	Chemical mechanism of surfaceâ€enhanced resonance Raman scattering via charge transfer in pyridineâ€“Ag₂ complex. Journal of Raman Spectroscopy, 2008, 39, 402-408.	1.9	78
66	Coherent Modulation of Propagating Plasmons in Silverâ€Nanowireâ€Based Structures. Small, 2011, 7, 593-596.	11.5	76
67	Silver Nanorice Structures: Oriented Attachment-Dominated Growth, High Environmental Sensitivity, and Real-Space Visualization of Multipolar Resonances. Chemistry of Materials, 2012, 24, 2339-2346.	6.9	74
68	Transversely Divergent Second Harmonic Generation by Surface Plasmon Polaritons on Single Metallic Nanowires. Nano Letters, 2017, 17, 7803-7808.	8.8	74
69	Ultrafast Modulation of Excitonâ€“Plasmon Coupling in a Monolayer WS₂â€“Ag Nanodisk Hybrid System. ACS Photonics, 2019, 6, 2832-2840.	7.0	73
70	Tunable Reversal of Circular Dichroism in the Seed-Mediated Growth of Bichiral Plasmonic Nanoparticles. ACS Nano, 2022, 16, 19174-19186.	15.4	73
71	Strong plasmonâ€“exciton coupling in transition metal dichalcogenides and plasmonic nanostructures. Nanoscale, 2021, 13, 4408-4419.	5.1	72
72	FDTD for plasmonics: Applications in enhanced Raman spectroscopy. Science Bulletin, 2010, 55, 2635-2642.	1.6	71

#	Article	IF	Citations
73	Effect of a proximal substrate on plasmon propagation in silver nanowires. Physical Review B, 2010, 82, .	3.2	71
74	Plasmonic Gradient Effects on High Vacuum Tipâ€Enhanced Raman Spectroscopy. Advanced Optical Materials, 2014, 2, 74-80.	7.1	70
75	Resolving Single Plasmons Generated by Multiquantum-Emitters on a Silver Nanowire. Nano Letters, 2014, 14, 3358-3363.	8.8	68
76	Tunable surface plasma resonance frequency in Ag core/Au shell nanoparticles system prepared by laser ablation. Applied Physics Letters, 2008, 92, .	3.2	67
77	Surface enhanced fluorescence and Raman scattering by gold nanoparticle dimers and trimers. Journal of Applied Physics, 2013, 113, .	2.3	67
78	Selectively Depopulating Valley-Polarized Excitons in Monolayer MoS₂ by Local Chirality in Single Plasmonic Nanocavity. Nano Letters, 2020, 20, 4953-4959.	8.8	67
79	Engineering plasmonic hot carrier dynamics toward efficient photodetection. Applied Physics Reviews, 2021, 8, .	10.7	67
80	Efficient Second Harmonic Generation in a Hybrid Plasmonic Waveguide by Mode Interactions. Nano Letters, 2019, 19, 3838-3845.	8.8	64
81	Plasmon-directed polymerization: Regulating polymer growth with light. Nano Research, 2018, 11, 6384-6390.	8.6	62
82	Kagome bands disguised in a coloring-triangle lattice. Physical Review B, 2019, 99, .	3.2	61
83	Surfactant-Promoted Reductive Synthesis of Shape-Controlled Gold Nanostructures. Crystal Growth and Design, 2009, 9, 858-862.	3.5	60
84	Routing a Chiral Raman Signal Based on Spin-Orbit Interaction of Light. Physical Review Letters, 2019, 123, .	7.8	59
85	Plasmonic Amplification with Ultra-High Optical Gain at Room Temperature. Scientific Reports, 2013, 3, .	3.7	58
86	Tunable dark plasmons in a metallic nanocube dimer: toward ultimate sensitivity nanoplasmonic sensors. Nanoscale, 2016, 8, 13722-13729.	5.1	56
87	Quantum Yield of Single Surface Plasmons Generated by a Quantum Dot Coupled with a Silver Nanowire. Nano Letters, 2015, 15, 8181-8187.	8.8	52
88	Giant photothermoelectric effect in silicon nanoribbon photodetectors. Light: Science and Applications, 2020, 9, .	20.0	52
89	In Situ Raman Monitoring and Manipulating of Interfacial Hydrogen Spillover by Precise Fabrication of Au/TiO 2 /Pt Sandwich Structures. Angewandte Chemie, 2020, 132, 10429-10433.	1.5	52
90	Unified Scattering and Photoluminescence Spectra for Strong Plasmon-Exciton Coupling. Physical Review Letters, 2022, 128, .	7.8	52

#	Article	IF	Citations
91	Coloring fluorescence emission with silver nanowires. Applied Physics Letters, 2010, 96, .	3.2	50
92	Self-Constructed Multiple Plasmonic Hotspots on an Individual Fractal to Amplify Broadband Hot Electron Generation. ACS Nano, 2021, 15, 10553-10564.	15.4	49
93	Mode Conversion of Propagating Surface Plasmons in Nanophotonic Networks Induced by Structural Symmetry Breaking. Scientific Reports, 2014, 4, .	3.7	48
94	Remote Excitation Polarization-Dependent Surface Photochemical Reaction by Plasmonic Waveguide. Plasmonics, 2011, 6, 681-687.	4.0	46
95	Plasmonâ€Driven Selective Reductions Revealed by Tipâ€Enhanced Raman Spectroscopy. Advanced Materials Interfaces, 2014, 1, .	4.1	46
96	Optical forces on interacting plasmonic nanoparticles in a focused Gaussian beam. Physical Review B, 2008, 77, .	3.2	45
97	Asymmetric Silver â€œNanocarrotâ€•Structures: Solution Synthesis and Their Asymmetric Plasmonic Resonances. Journal of the American Chemical Society, 2013, 135, 9616-9619.	15.7	44
98	Emerging Lightâ€Emitting Materials for Photonic Integration. Advanced Materials, 2021, 33, .	24.4	44
99	Ultraflexible Photothermal Superhydrophobic Coating with Multifunctional Applications Based on Plasmonic TiN Nanoparticles. Advanced Optical Materials, 2022, 10, .	7.1	43
100	Controlling the radiation direction of propagating surface plasmons on silver nanowires. Laser and Photonics Reviews, 2014, 8, 596-601.	9.3	41
101	Routing of surface plasmons in silver nanowire networks controlled by polarization and coating. Nanoscale, 2015, 7, 19053-19059.	5.1	41
102	Band structure, effective mass, and carrier mobility of few-layer h-AlN under layer and strain engineering. APL Materials, 2020, 8, .	4.0	41
103	Chiral Optofluidics with a Plasmonic Metasurface Using the Photothermal Effect. ACS Nano, 2021, 15, 16357-16367.	15.4	41
104	Tipâ€Enhanced Resonance Couplings Revealed by High Vacuum Tipâ€Enhanced Raman Spectroscopy. Advanced Optical Materials, 2013, 1, 449-455.	7.1	40
105	Directionally-Controlled Periodic Collimated Beams of Surface Plasmon Polaritons on Metal Film in Ag Nanowire/Al₂O₃/Ag Film Composite Structure. Nano Letters, 2015, 15, 560-564.	8.8	40
106	Ultrasensitive nanosensors based on localized surface plasmon resonances: From theory to applications. Chinese Physics B, 2018, 27, 107403.	1.9	40
107	Direct visualization of phase-matched efficient second harmonic and broadband sum frequency generation in hybrid plasmonic nanostructures. Light: Science and Applications, 2020, 9, .	20.0	38
108	Duplicating Plasmonic Hotspots by Matched Nanoantenna Pairs for Remote Nanogap Enhanced Spectroscopy. Nano Letters, 2020, 20, 3499-3505.	8.8	37

#	Article	IF	Citations
109	Tip-enhanced Raman scattering of p-thiocresol molecules on individual gold nanoparticles. Applied Physics Letters, 2008, 92, 093110.	3.2	36
110	Plasmonic hot-electron photodetection with quasi-bound states in the continuum and guided resonances. Nanophotonics, 2021, 10, 1911-1921.	6.7	36
111	In Situ Raman Probing of Hotâ€Electron Transfer at Goldâ€“Graphene Interfaces with Atomic Layer Accuracy. Angewandte Chemie - International Edition, 2022, 61, .	14.9	36
112	Ascertaining genuine SERS spectra of p-aminothiophenol. RSC Advances, 2012, 2, 8289.	4.5	34
113	Photothermal Modulation of Propagating Surface Plasmons on Silver Nanowires. ACS Photonics, 2019, 6, 2133-2140.	7.0	33
114	Strong light-matter coupling in van der Waals materials. Light: Science and Applications, 2024, 13, .	20.0	33
115	Beyond the Phase Segregation: Probing the Irreversible Phase Reconstruction of Mixedâ€Halide Perovskites. Advanced Science, 2022, 9, .	12.7	32
116	Tuning the Plexcitonic Optical Chirality Using Discrete Structurally Chiral Plasmonic Nanoparticles. Nano Letters, 2023, 23, 11376-11384.	8.8	32
117	Enormous Surfaceâ€Enhanced Raman Scattering from Dimers of Flowerâ€Like Silver Mesoparticles. Small, 2012, 8, 3400-3405.	11.5	31
118	Electrically Driven Highly Tunable Cavity Plasmons. ACS Photonics, 2019, 6, 823-829.	7.0	31
119	Enabling and Controlling Negative Photoconductance of FePS₃ Nanosheets by Hot Carrier Trapping. Advanced Optical Materials, 2020, 8, .	7.1	31
120	Single Nanoparticle Couplers for Plasmonic Waveguides. Small, 2014, 10, 4264-4269.	11.5	30
121	Calculation of the near field of aggregates of arbitrary spheres. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 804.	1.5	29
122	Direct visual evidence for the chemical mechanism of surfaceâ€enhanced resonance Raman scattering via charge transfer: (II) Bindingâ€site and quantumâ€size effects. Journal of Raman Spectroscopy, 2009, 40, 1172-1177.	1.9	29
123	Nonlinear nanophotonics based on surface plasmon polaritons. Applied Physics Letters, 2021, 119, .	3.2	29
124	Switching plasmonic nanogaps between classical and quantum regimes with supramolecular interactions. Science Advances, 2022, 8, .	11.5	29
125	Quantifying the ultimate limit of plasmonic near-field enhancement. Nature Communications, 2024, 15, .	14.2	29
126	Experimental and theoretical evidence for the chemical mechanism in SERRS of rhodamine 6G adsorbed on colloidal silver excited at 1064 nm. Journal of Raman Spectroscopy, 2010, 41, 719-720.	1.9	28

#	Article	IF	Citations
127	Electrically Driven Optical Antennas Based on Template Dielectrophoretic Trapping. ACS Nano, 2019, 13, 14041-14047.	15.4	28
128	Phononic Cavity Optomechanics of Atomically Thin Crystal in Plasmonic Nanocavity. ACS Nano, 2022, 16, 12711-12719.	15.4	28
129	Mid-infrared analogue polaritonic reversed Cherenkov radiation in natural anisotropic crystals. Nature Communications, 2023, 14, .	14.2	28
130	Real-time Raman detection by the cavity mode enhanced Raman scattering. Nano Research, 2019, 12, 1643-1649.	8.6	27
131	Controlling surface plasmon interference in branched silver nanowire structures. Nanoscale, 2012, 4, 7149.	5.1	26
132	Lithographically Defined, Room Temperature Low Threshold Subwavelength Red-Emitting Hybrid Plasmonic Lasers. Nano Letters, 2016, 16, 7822-7828.	8.8	26
133	Direction-resolved radiation from polarization-controlled surface plasmon modes on silver nanowire antennas. Nanoscale, 2016, 8, 20118-20124.	5.1	26
134	Assembling Ordered Nanorod Superstructures and Their Application as Microcavity Lasers. Scientific Reports, 2017, 7, .	3.7	26
135	Plasmon-Assisted Selective and Super-Resolving Excitation of Individual Quantum Emitters on a Metal Nanowire. Nano Letters, 2018, 18, 2009-2015.	8.8	26
136	Lithographically fabricated gold nanowire waveguides for plasmonic routers and logic gates. Nanoscale, 2018, 10, 11923-11929.	5.1	26
137	Ultrathin, broadband, omnidirectional, and polarization-independent infrared absorber using all-dielectric refractory materials. Nanophotonics, 2021, 10, 1683-1690.	6.7	26
138	Multiplasmons-Pumped Excited-State Absorption and Energy Transfer Upconversion of Rare-Earth-Doped Luminescence beyond the Diffraction Limit. ACS Photonics, 2021, 8, 1335-1343.	7.0	26
139	A Statistical Route to Robust SERS Quantitation Beyond the Single-Molecule Level. Nano Letters, 2024, 24, 11116-11123.	8.8	26
140	Identification of twist-angle-dependent excitons in WS2/WSe2 heterobilayers. National Science Review, 2022, 9, .	10.0	24
141	How to Obtain the Correct Rabi Splitting in a Subwavelength Interacting System. Nano Letters, 2023, 23, 444-450.	8.8	24
142	Anomalously Weak Scattering in Metal-Semiconductor Multilayer Hyperbolic Metamaterials. Physical Review X, 2015, 5, .	10.6	23
143	Strong tunability of cooperative energy transfer in Mn2+-doped (Yb3+, Er3+)/NaYF4 nanocrystals by coupling with silver nanorod array. Nano Research, 2015, 8, 2970-2977.	8.6	23
144	Efficient Frequency Mixing of Guided Surface Waves by Atomically Thin Nonlinear Crystals. Nano Letters, 2020, 20, 7956-7963.	8.8	23

#	Article	IF	Citations
145	Remote Dual-Cavity Enhanced Second Harmonic Generation in a Hybrid Plasmonic Waveguide. Nano Letters, 2022, 22, 688-694.	8.8	23
146	Silver nano-needles: focused optical field induced solution synthesis and application in remote-excitation nanofocusing SERS. Nanoscale, 2019, 11, 2153-2161.	5.1	22
147	Coherent Second Harmonic Generation Enhanced by Coherent Plasmonâ€“Exciton Coupling in Plasmonic Nanocavities. ACS Photonics, 2023, 10, 1529-1537.	7.0	22
148	All-optical temporal logic gates in localized exciton polaritons. Nature Photonics, 2024, 18, 864-869.	30.7	22
149	Direct visual evidence for chemical mechanisms of SERRS via charge transfer in Au₂₀â€“pyrazineâ€“Au₂₀ junction. Journal of Raman Spectroscopy, 2009, 40, 1942-1948.	1.9	21
150	Guided transport of nanoparticles by plasmonic nanowires. Nanoscale, 2016, 8, 19195-19199.	5.1	21
151	The nonmonotonous shift of quantum plasmon resonance and plasmon-enhanced photocatalytic activity of gold nanoparticles. Nanoscale, 2017, 9, 3188-3195.	5.1	21
152	Magnetically activated rotational vacuum friction. Physical Review A, 2019, 99, .	2.7	21
153	Analytical analysis of spectral sensitivity of plasmon resonances in a nanocavity. Nanoscale, 2019, 11, 10977-10983.	5.1	21
154	Plasmon-Directed On-Wire Growth of Branched Silver Nanowires with Chiroptic Activity. ACS Nano, 2021, 15, 16404-16410.	15.4	21
155	On-Chip Detection of Multiwavelength Surface Plasmon Polaritons Based on Plasmonic Demultiplexers. ACS Photonics, 2022, 9, 391-397.	7.0	21
156	Boosting Exciton Transport in WSe₂ by Engineering Its Photonic Substrate. ACS Photonics, 2022, 9, 2817-2824.	7.0	21
157	Azo-Dimerization Mechanisms of p-Aminothiophenol and p-Nitrothiophenol Molecules on Plasmonic Metal Surfaces Revealed by Tip-/Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 11586-11594.	3.2	20
158	Temperature-dependent dark-field scattering of single plasmonic nanocavity. Nanophotonics, 2020, 9, 3347-3356.	6.7	20
159	Band alignment and interlayer hybridization in monolayer organic/WSe2 heterojunction. Nano Research, 2021, 15, 1276-1281.	8.6	19
160	Polarizationâ€Dependent Study on Propagating Surface Plasmons in Silver Nanowires Launched by a Nearâ€Field Scanning Optical Fiber Tip. Small, 2012, 8, 2641-2646.	11.5	18
161	Circular Dichroism in Rotating Particles. Physical Review Letters, 2019, 123, .	7.8	17
162	Nanolayered Tamm Plasmon-Based Multicolor Hot Electron Photodetection for O- and C-Band Telecommunication. ACS Applied Electronic Materials, 2021, 3, 639-650.	4.7	17

#	Article	IF	Citations
163	Femtosecond Dynamics of a Polariton Bosonic Cascade at Room Temperature. Nano Letters, 2022, 22, 2023-2029.	8.8	17
164	A high speed electrically switching reflective structural color display with large color gamut. Nanoscale, 2021, 13, 1164-1171.	5.1	16
165	Plasmon-assisted nanophase engineering of titanium dioxide for improved performances in single-particle based sensing and photocatalysis. Nanoscale, 2022, 14, 4705-4711.	5.1	16
166	Module-Level Polaritonic Thermophotovoltaic Emitters via Hierarchical Sequential Learning. Nano Letters, 2023, 23, 1144-1151.	8.8	16
167	Organic Ligand Engineering for Tailoring Electronâ€“Phonon Coupling in 2D Hybrid Perovskites. Nano Letters, 2024, 24, 5975-5983.	8.8	16
168	Tip-Enhanced Ultrasensitive Stokes and Anti-Stokes Raman Spectroscopy in High Vacuum. Plasmonics, 2012, 8, 523-527.	4.0	15
169	An enhanced plasmonic photothermal effect for crystal transformation by a heat-trapping structure. Nanoscale, 2021, 13, 4585-4591.	5.1	15
170	Revealing the Competition between Defectâ€Trapped Exciton and Bandâ€Edge Exciton Photoluminescence in Monolayer Hexagonal WS₂. Advanced Optical Materials, 2022, 10, .	7.1	15
171	Surface enhanced fluorescence by porous alumina with nanohole arrays. Science China: Physics, Mechanics and Astronomy, 2012, 55, 767-771.	6.3	14
172	Secondary electron imaging of nanostructures using Extreme Ultraâ€Violet attosecond pulse trains and Infraâ€Red femtosecond pulses. Annalen Der Physik, 2013, 525, 162-170.	2.5	14
173	Reduced loss of plasmon propagation in a Ag nanowire on Si substrate. Nano Energy, 2020, 68, 104322.	16.4	14
174	Single-shot imaging of surface molecular ionization in nanosystems. Nanophotonics, 2021, 10, 2651-2660.	6.7	14
175	Light-controlled nanoswitches: from fabrication to photoelectric switching. Nanoscale, 2019, 11, 18496-18500.	5.1	13
176	Rotational Doppler cooling and heating. Science Advances, 2021, 7, .	11.5	13
177	Defects inducing anomalous exciton kinetics in monolayer WS2. Nano Research, 2021, 15, 1616-1622.	8.6	13
178	Manipulating nonlinear exciton polaritons in an atomically-thin semiconductor with artificial potential landscapes. Light: Science and Applications, 2023, 12, .	20.0	13
179	Light-Emitting Plasmonic Tunneling Junctions: Current Status and Perspectives. ACS Nano, 2024, 18, 2541-2551.	15.4	13
180	Closely packed metallic nanocuboid dimer allowing plasmomechanical strong coupling. Physical Review A, 2019, 99, .	2.7	12

#	Article	IF	Citations
181	Superradiative plasmonic nanoantenna biosensors enable sensitive immunoassay using the naked eye. Nanoscale, 2021, 13, 2429-2435.	5.1	12
182	Quantitative and sensitive detection of alpha fetoprotein in serum by a plasmonic sensor. Nanophotonics, 2022, 11, 4821-4829.	6.7	12
183	Versatile optical manipulation of trions, dark excitons and biexcitons through contrasting exciton-photon coupling. Light: Science and Applications, 2023, 12, .	20.0	12
184	Nanoantenna effect of surface-enhanced Raman scattering: managing light with plasmons at the nanometer scale. Advances in Physics: X, 2016, 1, 492-521.	6.8	11
185	Unveiling the nexus between irradiation and phase reconstruction in tin-lead perovskite solar cells. Nature Communications, 2025, 16, .	14.2	11
186	Precursor-Mediated Linear- and Branched-Polytypism Control in Cu_{Î±}Zn_{Î²}Sn_{Î³}Se_{Î´} Colloidal Nanocrystals Using a Dual-Injection Method. Chemistry of Materials, 2020, 32, 7254-7262.	6.9	10
187	Switchable Electrically Driven Optical Antenna Based on Ultrathin Amorphous Silica. Advanced Optical Materials, 2021, 9, .	7.1	10
188	Unified treatment of scattering, absorption, and luminescence spectra from a plasmonâ€“exciton hybrid by temporal coupled-mode theory. Journal of Chemical Physics, 2021, 155, .	3.0	10
189	Superplastic Nanomolding of Aluminum Waveguides for Subwavelength Light Routing, Splitting, and Encryption. ACS Nano, 2023, 17, 17342-17349.	15.4	10
190	Observation of transition from superfluorescence to polariton condensation in CsPbBr3 quantum dots film. Light: Science and Applications, 2024, 13, .	20.0	10
191	Unraveling the Origin of Reverse Plasmonic Circular Dichroism from Discrete Bichiral Au Nanoparticles. Nano Letters, 2024, 24, 11706-11713.	8.8	10
192	Surface-enhanced Raman scattering on dual-layer metallic grating structures. Science Bulletin, 2010, 55, 2643-2648.	1.6	9
193	New progress of plasmonics in complex metal nanostructures. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2327-2336.	6.3	9
194	Coherent Excitation and Control of Plasmons on Gold Using Two-Dimensional Transition Metal Dichalcogenides. ACS Photonics, 2021, 8, 1607-1615.	7.0	9
195	Self-suspended rare-earth doped up-conversion luminescent waveguide: propagating and directional radiation. Opto-Electronic Advances, 2020, 3, 190045-190045.	19.3	9
196	Ultrafast dynamics of excitonâ€“polariton in optically tailored potential landscapes at room temperature. Journal of Physics Condensed Matter, 2022, 34, 024001.	2.2	9
197	Surface-Ligand-Modified CdSe/CdS Nanorods for High-Performance Light-Emitting Diodes. ACS Omega, 2023, 8, 3762-3767.	4.4	9
198	Bose Condensation of Upper-Branch Exciton-Polaritons in a Transferable Microcavity. Nano Letters, 2023, 23, 9538-9546.	8.8	9

#	Article	IF	Citations
199	Ultrasonic-Assisted Synthesis of Au Nanobelts and Nanowires. Journal of Nanoscience and Nanotechnology, 2010, 10, 7515-7518.	1.0	7
200	Near-field coupling and SERS effects of palladium nanoparticle dimers. Science Bulletin, 2010, 55, 2930-2936.	1.6	7
201	Relationship between Length and Surface-Enhanced Raman Spectroscopy Signal Strength in Metal Nanoparticle Chains: Ideal Models versus Nanofabrication. Journal of Nanotechnology, 2012, 2012, 1-7.	3.5	7
202	Selective reduction of nitroaromatic compounds on silver nanoparticles by visible light. Journal of Raman Spectroscopy, 2012, 43, 1024-1028.	1.9	7
203	Steering Second-Harmonic Beams in Nanophotonic Waveguides by Gratings. ACS Photonics, 2019, 6, 3142-3149.	7.0	7
204	Efficient single-photon emission from a nanowire quantum dot coupled to a plasmonic nanoantenna. Journal of Lightwave Technology, 2021, , 1-1.	4.8	7
205	Local controllability of hot electron and thermal effects enabled by chiral plasmonic nanostructures. Nanophotonics, 2022, 11, 1195-1202.	6.7	7
206	Revealing the Photothermal Behavior of Plasmonic Gap Modes: Toward Thermostable Nanocavities. Laser and Photonics Reviews, 2022, 16, .	9.3	7
207	Shell Dependence of Highly Tunable Circular Dichroism in Chiral Hybrid Plasmonic Nanomaterials for Chiroptical Applications. ACS Nano, 2025, 19, 2961-2974.	15.4	7
208	Anomalous Thermodiffusion of Electrons in Graphene. Physical Review Letters, 2020, 125, .	7.8	6
209	Revealing the Optical Transition Properties of Interlayer Excitons in Defective WS₂/WSe₂ Heterobilayers. Nano Letters, 2024, 24, 8671-8678.	8.8	6
210	Transverse Spinâ€“Orbit Interaction of Light. Nano Letters, 2024, 24, 10783-10789.	8.8	6
211	Photoemission electron microscopy of localized surface plasmons in silver nanostructures at telecommunication wavelengths. Journal of Applied Physics, 2015, 117, .	2.3	5
212	Plasmon enhanced lightâ€“matter interaction of rice-like nanorods by a cube-plate nanocavity. Nanoscale Advances, 2022, 4, 1145-1150.	4.5	5
213	All-optical steering on the proton emission in laser-induced nanoplasmas. Nature Communications, 2024, 15, .	14.2	5
214	Plexciton Photoluminescence in Strongly Coupled 2D Semiconductorâ€“Plasmonic Nanocavity Hybrid. ACS Nano, 2025, 19, 5637-5648.	15.4	5
215	Circular Polarization Conversion in Single Plasmonic Spherical Particles. Nano Letters, 2022, 22, 1504-1510.	8.8	4
216	Excitation and emission distinguished photoluminescence enhancement in a plasmonâ€“exciton intermediate coupling system. Nanoscale, 2023, 15, 7812-7819.	5.1	4

#	Article	IF	Citations
217	Extraordinary Five-Wave Mixing in a Zinc Oxide Microwire on a Au Film. Nano Letters, 2023, 23, 6966-6972.	8.8	4
218	Tunability of the Energy Transfer Process in Type-II Heterostructures. ACS Photonics, 2024, 11, 3722-3729.	7.0	4
219	Frontiers of plasmonics. Science Bulletin, 2010, 55, 2599-2599.	1.6	3
220	Ascertaining p, pÊ¹-dimercaptoazobenzene Produced from p-aminothiophenol by Selective Catalytic Coupling Reaction on Silver Nanoparticles. AIP Conference Proceedings, 2010, , 1079-1080.	0.1	3
221	Thermal detection of surface plasmons on gold nanohole arrays. Science Bulletin, 2012, 57, 68-71.	1.6	3
222	Understanding the lineshape of surface-enhanced infrared absorption spectra. National Science Review, 2021, 8, .	10.0	3
223	Controlling the immobilization process of an optically enhanced protein microarray for highly reproducible immunoassay. Nanoscale, 2021, 13, 4269-4277.	5.1	3
224	Surface-enhanced Raman scattering beyond plasmonics. Frontiers of Physics, 2021, 17, .	4.3	2
225	Cost-Effective Calculation of Collective Electronic Excitations in Graphite Intercalated Compounds. Nanomaterials, 2022, 12, 1746.	4.2	2
226	Helicity-Resolved Vibrational Coupling in Twist WS₂/WSe₂ Heterostructures. ACS Applied Materials & Interfaces, 2024, 16, 44186-44192.	8.1	2
227	A topâ€“down fabricated gold nanostrip on a silicon-on-insulator wafer: a promising building block towards ultra-compact optical devices. Nanoscale, 2021, 13, 1904-1914.	5.1	1
228	Efficient Second Harmonic Generation via Plasmonic-Photonic Mode Matching in Hybrid Waveguide. Nano Letters, 2025, 25, 1420-1426.	8.8	1
229	Nanoantenna Effect Of SERS: Managing Light With Plasmons In The Nanometer Scale. AIP Conference Proceedings, 2010, , 63-63.	0.1	0
230	Hot electron photoemission from plasmonic nanoparticles: Role of transient absorption in surface mechanism. , 2014, , 31-33.		0
231	Lithographically fabricated gold nanowire waveguides for plasmonic routers and logic gates. , 2018, , 27.		0
232	Fundamentals of Surface Plasmons. , 2022, , 1-30.		0
233	Memristive Thermal Radiator by Highly Tunable Graphene Plasmon. Advanced Physics Research, 2024, 3, .	3.0	0
234	Revealing the Properties of Electrically Driven Optical Antennas via Conductive Atomic Force Microscope. ACS Nano, 2024, 18, 22495-22502.	15.4	0

#	Article	IF	Citations
235	Enhanced Bioactive Compound Absorption on PMMA Microwell Plates via Fine Controlling Air Plasma Treatment Time for Disease Diagnosis Applications. Langmuir, 2025, 41, 5449-5454.	3.8	0