

Zhi-Lin Yang

List of Publications by Year in descending order

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101
papers

6,034
citations

71102

41
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71685

76
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103
all docs

103
docs citations

103
times ranked

6808
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Raman Probing of Hot-Electron Transfer at Gold-Graphene Interfaces with Atomic Layer Accuracy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	24
2	Nonlinear light amplification via 3D plasmonic nanocavities. <i>Optics Express</i> , 2022, 30, 2610.	3.4	2
3	Active Tendon Control of Stay Cable by a Giant Magnetostrictive Actuator Considering Time-Delay. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2666.	2.5	2
4	Ultrasensitive and ultrafast nonlinear optical characterization of surface plasmons. <i>APL Materials</i> , 2022, 10, 030701.	5.1	2
5	Tailoring Topological Transitions of Anisotropic Polaritons by Interface Engineering in Biaxial Crystals. <i>Nano Letters</i> , 2022, 22, 4260-4268.	9.1	40
6	Statistical Strategy for Quantitative Evaluation of Plasmon-Enhanced Spectroscopy. <i>ACS Photonics</i> , 2022, 9, 1733-1740.	6.6	3
7	Bacteria Inspired Internal Standard SERS Substrate for Quantitative Detection. <i>ACS Applied Bio Materials</i> , 2021, 4, 2009-2019.	4.6	24
8	Large-Area Plasmonic Metamaterial with Thickness-Dependent Absorption. <i>Advanced Optical Materials</i> , 2021, 9, .	7.3	20
9	Segmented Ag-Au-Ag Heterojunction Nanorods: Pressure-Assisted Aqueous-Phase Synthesis and Engineered Femtosecond-to-Nanosecond Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 989-996.	4.6	9
10	Plasma Cleaning and Self-Limited Welding of Silver Nanowire Films for Flexible Transparent Conductors. <i>ACS Applied Nano Materials</i> , 2021, 4, 1664-1671.	5.0	14
11	Boosting Photocatalytic Hydrogen Evolution Reaction Using Dual Plasmonic Antennas. <i>ACS Catalysis</i> , 2021, 11, 5047-5053.	11.2	62
12	Quasi-Bragg plasmon modes for highly efficient plasmon-enhanced second-harmonic generation at near-ultraviolet frequencies. <i>Optics Express</i> , 2021, 29, 21444.	3.4	3
13	In-situ nanospectroscopic imaging of plasmon-induced two-dimensional [4+4]-cycloaddition polymerization on Au(111). <i>Nature Communications</i> , 2021, 12, 4557.	12.8	24
14	Manipulation of Ultrafast Nonlinear Optical Response Based on Surface Plasmon Resonance. <i>Advanced Optical Materials</i> , 2021, 9, 2100847.	7.3	8
15	Light-Trapped Nanocavities for Ultraviolet Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17241-17247.	3.1	7
16	Rational Design of 3D Plasmonic Superstructure for Enhanced Photocatalytic Hydrogen Evolution Reaction in Wide Spectral Region. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25455-25461.	3.1	5
17	In situ Raman spectroscopy reveals the structure and dissociation of interfacial water. <i>Nature</i> , 2021, 600, 81-85.	27.8	381
18	Strong coupling between magnetic resonance and propagating surface plasmons at visible light frequencies. <i>Journal of Chemical Physics</i> , 2020, 152, 014702.	3.0	9

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19	Broadband unidirectional scattering in visible ranges and controllable hot-spot spatial transfer via a single nanoparticle. <i>Applied Surface Science</i> , 2020, 528, 146489.	6.1	10
20	Multiband enhanced second-harmonic generation via plasmon hybridization. <i>Journal of Chemical Physics</i> , 2020, 153, 151102.	3.0	4
21	In Situ Raman Study of CO Electrooxidation on Pt(hkl) Single-Crystal Surfaces in Acidic Solution. <i>Angewandte Chemie</i> , 2020, 132, 23760-23764.	2.0	1
22	In Situ Raman Study of CO Electrooxidation on Pt(<i>hkl</i>) Single-Crystal Surfaces in Acidic Solution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23554-23558.	13.8	47
23	Unveiling the size effect of Pt-on-Au nanostructures on CO and methanol electrooxidation by <i>in situ</i> electrochemical SERS. <i>Nanoscale</i> , 2020, 12, 5341-5346.	5.6	18
24	Competitive Effects of Surface Plasmon Resonances and Interband Transitions on Plasmon-Enhanced Second-Harmonic Generation at Near-Ultraviolet Frequencies. <i>Physical Review Applied</i> , 2020, 13, .	3.8	11
25	Rapid and low-cost quantitative detection of creatinine in human urine with a portable Raman spectrometer. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112067.	10.1	60
26	Overcurrent Electrodeposition of Fractal Plasmonic Black Gold with Broad-Band Absorption Properties for Excitation-Immune SERS. <i>ACS Omega</i> , 2020, 5, 8293-8298.	3.5	7
27	<i>In situ</i> Raman study of the photoinduced behavior of dye molecules on TiO ₂ (<i>hkl</i>) single crystal surfaces. <i>Chemical Science</i> , 2020, 11, 6431-6435.	7.4	13
28	Plasmon-Enhanced Fluorescence of Phosphors Using Shell-Isolated Nanoparticles for Display Technologies. <i>ACS Applied Nano Materials</i> , 2020, 3, 5846-5854.	5.0	14
29	Plasmonic resonance-linewidth shrinkage to boost biosensing. <i>Photonics Research</i> , 2020, 8, 1226.	7.0	31
30	Enhanced sum frequency generation for ultrasensitive characterization of plasmonic modes. <i>Nanophotonics</i> , 2020, 9, 815-822.	6.0	12
31	Tunable surface plasmon polaritons and ultrafast dynamics in 2D nanohole arrays. <i>Nanoscale</i> , 2019, 11, 16428-16436.	5.6	12
32	3D Hotspots Platform for Plasmon Enhanced Raman and Second Harmonic Generation Spectroscopies and Quantitative Analysis. <i>Advanced Optical Materials</i> , 2019, 7, 1901010.	7.3	23
33	Understanding the strain effect of Au@Pd nanocatalysts by <i>in situ</i> surface-enhanced Raman spectroscopy. <i>Chemical Communications</i> , 2019, 55, 8824-8827.	4.1	11
34	In situ probing electrified interfacial water structures at atomically flat surfaces. <i>Nature Materials</i> , 2019, 18, 697-701.	27.5	352
35	Probing the Location of 3D Hot Spots in Gold Nanoparticle Films Using Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 5316-5322.	6.5	44
36	In situ Raman spectroscopic evidence for oxygen reduction reaction intermediates at platinum single-crystal surfaces. <i>Nature Energy</i> , 2019, 4, 60-67.	39.5	478

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37	An ultranarrow SPR linewidth in the UV region for plasmonic sensing. <i>Nanoscale</i> , 2019, 11, 4061-4066.	5.6	38
38	Surface plasmon resonance "hot spots" and near-field enhanced spectroscopy at interfaces. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019, 68, 147801.	0.5	2
39	Promoted Fixation of Molecular Nitrogen with Surface Oxygen Vacancies on Plasmon-Enhanced TiO ₂ Photoelectrodes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5278-5282.	13.8	365
40	Plasmon-Induced Magnetic Resonance Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2018, 18, 2209-2216.	9.1	96
41	Promoted Fixation of Molecular Nitrogen with Surface Oxygen Vacancies on Plasmon-Enhanced TiO ₂ Photoelectrodes. <i>Angewandte Chemie</i> , 2018, 130, 5376-5380.	2.0	45
42	CdS core-Au plasmonic satellites nanostructure enhanced photocatalytic hydrogen evolution reaction. <i>Nano Energy</i> , 2018, 49, 363-371.	16.0	107
43	Shell-Isolated Tip-Enhanced Raman and Fluorescence Spectroscopy. <i>Angewandte Chemie</i> , 2018, 130, 7645-7649.	2.0	12
44	RA1/4cktitelbild: Promoted Fixation of Molecular Nitrogen with Surface Oxygen Vacancies on Plasmon-Enhanced TiO ₂ Photoelectrodes (<i>Angew. Chem.</i> 19/2018). <i>Angewandte Chemie</i> , 2018, 130, 5656-5656.	2.0	0
45	Shell-Isolated Tip-Enhanced Raman and Fluorescence Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7523-7527.	13.8	44
46	A Plasmonic Sensor Array with Ultrahigh Figures of Merit and Resonance Linewidths down to 3 nm. <i>Advanced Materials</i> , 2018, 30, e1706031.	21.0	132
47	Spatially-Controllable Hot Spots for Plasmon-Enhanced Second-Harmonic Generation in AgNP-ZnO Nanocavity Arrays. <i>Nanomaterials</i> , 2018, 8, 1012.	4.1	4
48	Large-Area Hybrid Plasmonic Optical Cavity (HPOC) Substrates for Surface-Enhanced Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2018, 28, 1802263.	14.9	51
49	Plasmonic Potential Mapping of a Single Nanoparticle. <i>ACS Photonics</i> , 2018, 5, 3519-3525.	6.6	16
50	Probing Interfacial Electronic and Catalytic Properties on Well-Defined Surfaces by Using In-Situ Raman Spectroscopy. <i>Angewandte Chemie</i> , 2018, 130, 11427-11431.	2.0	19
51	Directional surface plasmon-coupled emission of tilted-tip enhanced spectroscopy. <i>Nanophotonics</i> , 2018, 7, 1325-1332.	6.0	20
52	Probing Interfacial Electronic and Catalytic Properties on Well-Defined Surfaces by Using In-Situ Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11257-11261.	13.8	60
53	Strong Fluorescence Enhancement with Silica-Coated Au Nanoshell Dimers. <i>Plasmonics</i> , 2017, 12, 263-269.	3.4	5
54	Temperature-Related Morphological Evolution of MoS ₂ Domains on Graphene and Electron Transfer within Heterostructures. <i>Small</i> , 2017, 13, 1603549.	10.0	20

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55	In situ dynamic tracking of heterogeneous nanocatalytic processes by shell-isolated nanoparticle-enhanced Raman spectroscopy. <i>Nature Communications</i> , 2017, 8, 15447.	12.8	185
56	Acoustic Graphene Plasmon Nanoresonators for Field-Enhanced Infrared Molecular Spectroscopy. <i>ACS Photonics</i> , 2017, 4, 3089-3097.	6.6	43
57	High-Throughput Single-Particle Analysis of Metal-Enhanced Fluorescence in Free Solution Using Ag@SiO ₂ Core-Shell Nanoparticles. <i>ACS Sensors</i> , 2017, 2, 1369-1376.	7.8	43
58	Tip-enhanced ablation and ionization mass spectrometry for nanoscale chemical analysis. <i>Science Advances</i> , 2017, 3, eaaq1059.	10.3	34
59	Revealing the Role of Interfacial Properties on Catalytic Behaviors by <i>in Situ</i> Surface-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 10339-10346.	13.7	127
60	Probing the electronic and catalytic properties of a bimetallic surface with 3-Å resolution. <i>Nature Nanotechnology</i> , 2017, 12, 132-136.	31.5	290
61	A facile method for the synthesis of large-size Ag nanoparticles as efficient SERS substrates. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 662-667.	2.5	49
62	Adsorption of Dye Molecules on Single Crystalline Semiconductor Surfaces: An Electrochemical Shell-Isolated Nanoparticle Enhanced Raman Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22500-22507.	3.1	15
63	Gold nanorings synthesized via a stress-driven collapse and etching mechanism. <i>NPG Asia Materials</i> , 2016, 8, e323-e323.	7.9	17
64	A Nanoplasmonic Strategy for Precision in-situ Measurements of Tip-enhanced Raman and Fluorescence Spectroscopy. <i>Scientific Reports</i> , 2016, 6, 19558.	3.3	32
65	Self-assembly of subwavelength nanostructures with symmetry breaking in solution. <i>Nanoscale</i> , 2016, 8, 2951-2959.	5.6	10
66	Multifunctional Fe ₃ O ₄ @SiO ₂ -Au Satellite Structured SERS Probe for Charge Selective Detection of Food Dyes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3056-3062.	8.0	77
67	How To Light Special Hot Spots in Multiparticle-Film Configurations. <i>ACS Nano</i> , 2016, 10, 581-587.	14.6	79
68	Internal-Modified Dithiol DNA-Directed Au Nanoassemblies: Geometrically Controlled Self-Assembly and Quantitative Surface-Enhanced Raman Scattering Properties. <i>Scientific Reports</i> , 2015, 5, 16715.	3.3	8
69	Large scale synthesis of pinhole-free shell-isolated nanoparticles (SHINs) using improved atomic layer deposition (ALD) method for practical applications. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1200-1204.	2.5	26
70	Electromagnetic Enhancement in Shell-Isolated Nanoparticle-Enhanced Raman Scattering from Gold Flat Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5246-5251.	3.1	44
71	Effect of Electric Field Gradient on Sub-nanometer Spatial Resolution of Tip-enhanced Raman Spectroscopy. <i>Scientific Reports</i> , 2015, 5, 9240.	3.3	83
72	Dimeric Core-Shell Ag ₂ @TiO ₂ Nanoparticles for Off-Resonance Raman Study of the TiO ₂ -N719 Interface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18396-18403.	3.1	17

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73	Smart Ag Nanostructures for Plasmon-Enhanced Spectroscopies. Journal of the American Chemical Society, 2015, 137, 13784-13787.	13.7	157
74	Electrochemical Tip-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2015, 137, 11928-11931.	13.7	232
75	Plasmon-Enhanced Second-Harmonic Generation Nanorulers with Ultrahigh Sensitivities. Nano Letters, 2015, 15, 6716-6721.	9.1	88
76	Fano Interference Between Higher Localized and Propagating Surface Plasmon Modes in Nanovoid Arrays. Plasmonics, 2015, 10, 71-76.	3.4	21
77	Probing the Location of Hot Spots by Surface-Enhanced Raman Spectroscopy: Toward Uniform Substrates. ACS Nano, 2014, 8, 528-536.	14.6	136
78	Three-Dimensional and Time-Ordered Surface-Enhanced Raman Scattering Hotspot Matrix. Journal of the American Chemical Society, 2014, 136, 5332-5341.	13.7	293
79	Surface-Enhanced Raman Scattering on Uniform Pd and Pt Films: From Ill-Defined to Structured Surfaces. Journal of Physical Chemistry C, 2013, 117, 24843-24850.	3.1	14
80	LSPR properties of metal nanoparticles adsorbed at a liquid-liquid interface. Physical Chemistry Chemical Physics, 2013, 15, 5374.	2.8	40
81	Propagation and enhancement of ultraviolet radiation in metal-dielectric nanocables assisted by surface plasmon polaritons. Applied Physics Letters, 2013, 102, 171601.	3.3	2
82	SHINERS and plasmonic properties of Au Core SiO ₂ shell nanoparticles with optimal core size and shell thickness. Journal of Raman Spectroscopy, 2013, 44, 994-998.	2.5	79
83	Deep ultraviolet tip-enhanced Raman scattering. Chemical Communications, 2011, 47, 9131.	4.1	40
84	Direct visualization of the charge transfer in conjugated polymers. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1119-1123.	5.1	1
85	Tunable SERS from aluminium nanohole arrays in the ultraviolet region. Chemical Communications, 2011, 47, 3909.	4.1	72
86	FDTD for plasmonics: Applications in enhanced Raman spectroscopy. Science Bulletin, 2010, 55, 2635-2642.	1.7	61
87	Near-field coupling and SERS effects of palladium nanoparticle dimers. Science Bulletin, 2010, 55, 2930-2936.	1.7	6
88	Adjustment and control of SERS activity of metal substrates by pressure. Journal of Raman Spectroscopy, 2010, 41, 398-405.	2.5	10
89	Tunable Surface-Enhanced Raman Scattering from Aluminum Nanohole Arrays. , 2010, , .		0
90	Giant Raman enhancement on nanoporous gold film by conjugating with nanoparticles for single-molecule detection. Journal of Materials Chemistry, 2010, 20, 6891.	6.7	46

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91	Can <i>p</i> -Dimercaptoazobisbenzene Be Produced from <i>p</i> -Aminothiophenol by Surface Photochemistry Reaction in the Junctions of a Ag Nanoparticle~Molecule~Ag (or Au) Film?. Journal of Physical Chemistry C, 2010, 114, 18263-18269.	3.1	114
92	Electromagnetic field enhancement in TERS configurations. Journal of Raman Spectroscopy, 2009, 40, 1343-1348.	2.5	187
93	Tip-enhanced Raman spectroscopy for investigating adsorbed nonresonant molecules on single-crystal surfaces: tip regeneration, probe molecule, and enhancement effect. Journal of Raman Spectroscopy, 2009, 40, 1400-1406.	2.5	43
94	Correlating the Shape, Surface Plasmon Resonance, and Surface-Enhanced Raman Scattering of Gold Nanorods. Journal of Physical Chemistry C, 2009, 113, 10459-10464.	3.1	83
95	Surface enhanced Raman scattering of pyridine adsorbed on Au@Pd core/shell nanoparticles. Journal of Chemical Physics, 2009, 130, 234705.	3.0	51
96	Optimization of SERS activities of gold nanoparticles and gold~core~palladium~shell nanoparticles by controlling size and shell thickness. Journal of Raman Spectroscopy, 2008, 39, 1679-1687.	2.5	148
97	Enhancement in middle-ultraviolet emission in a surface-plasmon-assisted coaxial nanocavity. Applied Physics Letters, 2008, 93, 091902.	3.3	4
98	Surface-enhanced Raman spectroscopy with ultraviolet excitation. Journal of Raman Spectroscopy, 2005, 36, 606-612.	2.5	42
99	Periodic trends in the bonding and vibrational coupling: Pyridine interacting with transition metals and noble metals studied by surface-enhanced Raman spectroscopy and density-functional theory. Journal of Chemical Physics, 2003, 119, 1701-1709.	3.0	59
100	Studies On Photorefractivity Of Liquid Crystals. , 1997, , .		0
101	Nonlinear Light Amplification Governed by Structural Asymmetry. Advanced Optical Materials, 0, , 2102215.	7.3	1