Jer-Shing Huang

List of Publications by Year in descending order

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81 3,994 31 63 papers citations h-index g-index

82 82 82 5448
all docs docs citations times ranked citing authors

#	Article	IF	Citations
1	Nanoantennas for visible and infrared radiation. Reports on Progress in Physics, 2012, 75, 024402.	20.1	736
2	Atomically flat single-crystalline gold nanostructures for plasmonic nanocircuitry. Nature Communications, 2010, 1, 150.	12.8	374
3	Impedance Matching and Emission Properties of Nanoantennas in an Optical Nanocircuit. Nano Letters, 2009, 9, 1897-1902.	9.1	211
4	Selective Trapping or Rotation of Isotropic Dielectric Microparticles by Optical Near Field in a Plasmonic Archimedes Spiral. Nano Letters, 2014, 14, 547-552.	9.1	195
5	Cross Resonant Optical Antenna. Physical Review Letters, 2009, 102, 256801.	7.8	179
6	Mode Imaging and Selection in Strongly Coupled Nanoantennas. Nano Letters, 2010, 10, 2105-2110.	9.1	136
7	Atomic-Scale Confinement of Resonant Optical Fields. Nano Letters, 2012, 12, 5504-5509.	9.1	129
8	A Comparative Study of Gold Nanocubes, Octahedra, and Rhombic Dodecahedra as Highly Sensitive SERS Substrates. Inorganic Chemistry, 2011, 50, 8106-8111.	4.0	127
9	The influence of shell thickness of Au@TiO2 core–shell nanoparticles on the plasmonic enhancement effect in dye-sensitized solar cells. Nanoscale, 2013, 5, 7953.	5.6	116
10	Near-field polarization shaping by a near-resonant plasmonic cross antenna. Physical Review B, 2009, 80, .	3.2	91
11	Facetâ€Dependent and Lightâ€Assisted Efficient Hydrogen Evolution from Ammonia Borane Using Gold–Palladium Core–Shell Nanocatalysts. Angewandte Chemie - International Edition, 2016, 55, 7222-7226.	13.8	85
12	Dynamics of Four-Photon Photoluminescence in Gold Nanoantennas. Nano Letters, 2012, 12, 2941-2947.	9.1	81
13	Facet-dependent optical properties of polyhedral Au–Cu2O core–shell nanocrystals. Nanoscale, 2014, 6, 4316.	5.6	81
14	Ultrafast Plasmon Propagation in Nanowires Characterized by Far-Field Spectral Interferometry. Nano Letters, 2012, 12, 45-49.	9.1	78
15	Facetâ€Dependent and Lightâ€Assisted Efficient Hydrogen Evolution from Ammonia Borane Using Gold–Palladium Core–Shell Nanocatalysts. Angewandte Chemie, 2016, 128, 7338-7342.	2.0	78
16	Transport and Trapping in Two-Dimensional Nanoscale Plasmonic Optical Lattice. Nano Letters, 2013, 13, 4118-4122.	9.1	73
17	Robust room temperature valley polarization in monolayer and bilayer WS ₂ . Nanoscale, 2016, 8, 6035-6042.	5.6	68
18	Plasmon-enhanced photocatalytic hydrogen production on Au/TiO2 hybrid nanocrystal arrays. Nano Energy, 2016, 27, 412-419.	16.0	64

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19	Deterministic spatiotemporal control of optical fields in nanoantennas and plasmonic circuits. Physical Review B, 2009, 79, .	3.2	62
20	Single-Crystalline Aluminum Nanostructures on a Semiconducting GaAs Substrate for Ultraviolet to Near-Infrared Plasmonics. ACS Nano, 2015, 9, 3875-3886.	14.6	60
21	Origin and Future of Plasmonic Optical Tweezers. Nanomaterials, 2015, 5, 1048-1065.	4.1	55
22	Stressâ€Induced 3D Chiral Fractal Metasurface for Enhanced and Stabilized Broadband Nearâ€Field Optical Chirality. Advanced Optical Materials, 2019, 7, 1900617.	7.3	55
23	Lowâ€Threshold Whispering Gallery Mode Lasing from Selfâ€Assembled Microspheres of Singleâ€Sort Conjugated Polymers. Advanced Optical Materials, 2017, 5, 1700123.	7.3	52
24	Facet-dependent optical properties of Pd–Cu ₂ O core–shell nanocubes and octahedra. Nanoscale, 2015, 7, 11135-11141.	5.6	51
25	The correlation between ion production and emission intensity in the laser-induced breakdown spectroscopy of liquid droplets. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 35-48.	2.9	47
26	Robust Angular Anisotropy of Circularly Polarized Luminescence from a Single Twisted-Bipolar Polymeric Microsphere. Journal of the American Chemical Society, 2021, 143, 8772-8779.	13.7	47
27	Facile synthesis of Au–Pd core–shell nanocrystals with systematic shape evolution and tunable size for plasmonic property examination. Nanoscale, 2014, 6, 7656.	5.6	43
28	Matrix effect on emission/current correlated analysis in laser-induced breakdown spectroscopy of liquid droplets. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 321-326.	2.9	39
29	Mode Conversion in High-Definition Plasmonic Optical Nanocircuits. Nano Letters, 2014, 14, 3881-3886.	9.1	36
30	Optical microresonator arrays of fluorescence-switchable diarylethenes with unreplicable spectral fingerprints. Materials Horizons, 2020, 7, 1801-1808.	12.2	36
31	Slant-gap plasmonic nanoantennas for optical chirality engineering and circular dichroism enhancement. Optics Express, 2014, 22, 7434.	3.4	34
32	Synthesis and Evaluation of Aminothiazole-Paeonol Derivatives as Potential Anticancer Agents. Molecules, 2016, 21, 145.	3.8	33
33	Subwavelength broadband splitters and switches for femtosecond plasmonic signals. Optics Express, 2010, 18, 11810.	3.4	31
34	Deterministic Synthesis of Optical Vortices in Tailored Plasmonic Archimedes Spiral. IEEE Photonics Journal, 2013, 5, 4800409-4800409.	2.0	30
35	Laser-induced breakdown spectroscopy in analysis of Al3+ liquid droplets: On-line preconcentration by use of flow-injection manifold. Analytica Chimica Acta, 2007, 581, 303-308.	5.4	29
36	Laser-induced breakdown spectroscopy of liquid droplets: correlation analysis with plasma-induced current versus continuum background. Journal of Analytical Atomic Spectrometry, 2005, 20, 53.	3.0	28

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37	The Modulation Effect of Transverse, Antibonding, and Higher-Order Longitudinal Modes on the Two-Photon Photoluminescence of Gold Plasmonic Nanoantennas. ACS Nano, 2014, 8, 9053-9062.	14.6	26
38	HNO ₃ -Assisted Polyol Synthesis of Ultralarge Single-Crystalline Ag Microplates and Their Far Propagation Length of Surface Plasmon Polariton. ACS Applied Materials & Samp; Interfaces, 2014, 6, 11791-11798.	8.0	23
39	Extremely confined gap plasmon modes: when nonlocality matters. Nature Communications, 2022, 13, .	12.8	22
40	Plasmonic mode converter for controlling optical impedance and nanoscale light-matter interaction. Optics Express, 2012, 20, 20342.	3.4	20
41	Photoluminescence-Driven Broadband Transmitting Directional Optical Nanoantennas. Nano Letters, 2018, 18, 6002-6008.	9.1	19
42	Modal Symmetry Controlled Second-Harmonic Generation by Propagating Plasmons. Nano Letters, 2019, 19, 6424-6428.	9.1	19
43	Fabrication of Bimetallic Au–Pd–Au Nanobricks as an Archetype of Robust Nanoplasmonic Sensors. Chemistry of Materials, 2018, 30, 204-213.	6.7	17
44	Circular Dichroism in Nanoparticle Helices as a Template for Assessing Quantum-Informed Models in Plasmonics. ACS Photonics, 2018, 5, 5017-5024.	6.6	17
45	Design and characterization of a plasmonic Doppler grating for azimuthal angle-resolved surface plasmon resonances. Nanoscale, 2017, 9, 10811-10819.	5.6	15
46	Flow-Injection Inductively Coupled Plasma Mass Spectrometer Incorporated with an Ultrasonic Nebulizer-Membrane Dryer: Application to Trace Lead Detection in Aqueous Solution and Seawater. Applied Spectroscopy, 2001, 55, 604-610.	2.2	13
47	Design of novel TiO ₂ –SiO ₂ core–shell helical nanostructured anti-reflective coatings on Cu(In,Ga)Se ₂ solar cells with enhanced power conversion efficiency. Journal of Materials Chemistry A, 2019, 7, 11452-11459.	10.3	13
48	Emission Manipulation by DNA Origamiâ€Assisted Plasmonic Nanoantennas. Advanced Optical Materials, 2021, 9, 2100848.	7.3	13
49	Spatially Resolving the Enhancement Effect in Surface-Enhanced Coherent Anti-Stokes Raman Scattering by Plasmonic Doppler Gratings. ACS Nano, 2021, 15, 809-818.	14.6	11
50	Plasmonic elliptical nanoholes for chiroptical analysis and enantioselective optical trapping. Nanoscale, 2021, 13, 9185-9192.	5.6	10
51	Probing the acoustic vibrations of complex-shaped metal nanoparticles with four-wave mixing. Optics Express, 2016, 24, 23747.	3.4	9
52	Fabrication of self-assembled spherical Gold Particles by pulsed UV Laser Treatment. Scientific Reports, 2018, 8, 11283.	3.3	9
53	Photoinduced Electron Transfer of Oxazine 1/TiO2 Nanoparticles at Single Molecule Level by Using Confocal Fluorescence Microscopy. Langmuir, 2010, 26, 9050-9060.	3.5	8
54	Generation of optical chirality patterns with plane waves, evanescent waves and surface plasmon waves. Optics Express, 2020, 28, 760.	3.4	8

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55	Subwavelength localization of near fields in coupled metallic spheres for single-emitter polarization analysis. Optics Letters, 2011, 36, 2339.	3.3	7
56	Designable Spectrometer-Free Index Sensing Using Plasmonic Doppler Gratings. Analytical Chemistry, 2019, 91, 9382-9387.	6.5	7
57	Driving plasmonic nanoantennas at perfect impedance matching using generalized coherent perfect absorption. Nanophotonics, 2021, 10, 1879-1887.	6.0	7
58	Spectrometerâ€free Optical Hydrogen Sensing Based on Fanoâ€like Spatial Distribution of Transmission in a Metalâ^'Insulatorâ^'Metal Plasmonic Doppler Grating. Advanced Optical Materials, 2021, 9, 2100869.	7.3	7
59	Laserâ€induced Breakdown Spectroscopy of Liquid Droplets Based on Plasmaâ€induced Current Correlation. Journal of the Chinese Chemical Society, 2014, 61, 175-186.	1.4	6
60	Special Issue "Nonlinear and Ultrafast Nanophotonics― ACS Photonics, 2016, 3, 1333-1335.	6.6	4
61	Chiral Structured Illumination Microscopy. ACS Photonics, 2021, 8, 130-134.	6.6	4
62	Tailoring the interaction between matter and polarized light with plasmonic optical antennas. Proceedings of SPIE, 2011, , .	0.8	3
63	Lasers: Low-Threshold Whispering Gallery Mode Lasing from Self-Assembled Microspheres of Single-Sort Conjugated Polymers (Advanced Optical Materials 10/2017). Advanced Optical Materials, 2017, 5, .	7.3	2
64	Signal and noise analysis for chiral structured illumination microscopy. Optics Express, 2021, 29, 23056.	3.4	2
65	Optical responses of Fano resonators in non-spectral parametric domains. Optics Letters, 2022, 47, 3720.	3.3	2
66	Coherent spectroscopies on ultrashort time and length scales. EPJ Web of Conferences, 2013, 41, 09017.	0.3	1
67	Plasmonic modes of strongly-coupled single-crystalline gold nanoparticle dimers. , 2011, , .		0
68	Multi-photon autocorrelation in gold nanostructures. , 2011, , .		0
69	Dynamics of two-photon photoluminescence in gold nanostructures. Proceedings of SPIE, 2012, , .	0.8	О
70	Influence of morphology on the plasmonic enhancement effect of Au@TiO2 core-shell nanoparticles in dye-sensitized solar cells. , 2013, , .		0
71	Optical trapping of nanoscale plasmonic optical lattice in microfluidic environments. Proceedings of SPIE, 2014, , .	0.8	0
72	Plasmonic archimedes spiral for selective optical trapping and rotation of optically isotropic particles. Proceedings of SPIE, 2014, , .	0.8	0

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73	Plasmonic whispering-gallery modes in a semiconductor-insulator-metal hybrid structure. , 2015, , .		O
74	Ultrafast second-harmonic generations in a plasmonic two-wire transmission-line. , 2017, , .		0
75	Structured illumination microscopy for simultaneous imaging of achiral and chiral domains. Optics Letters, 2021, 46, 4546.	3.3	O
76	Efficient Mode Converters for Plasmonic Optical Nanocircuits. , 2012, , .		0
77	Plasmon enhanced nanoscale trapping in a two dimensional optical lattice. , 2013, , .		O
78	Two-photon Photohiminescence Investigation of Transverse Plasmonic Mode of Single-crystalline Gold Nanoantennas. , 2014, , .		0
79	Second Harmonic Generation from Symmetric and Asymmetric Gold Nanoantennas., 2015,,.		O
80	Second-harmonic generations in a plasmonic two-wire transmission-line. , 2018, , .		0
81	3D Archimedean spiral metasurface for enhances broadband optical chirality., 2021,,.		O