

# Jer-Shing Huang

## List of Publications by Year in descending order

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81  
papers

3,994  
citations

147801

31  
h-index

114465

63  
g-index

82  
all docs

82  
docs citations

82  
times ranked

5448  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extremely confined gap plasmon modes: when nonlocality matters. Nature Communications, 2022, 13, .	12.8	22
2	Optical responses of Fano resonators in non-spectral parametric domains. Optics Letters, 2022, 47, 3720.	3.3	2
3	Chiral Structured Illumination Microscopy. ACS Photonics, 2021, 8, 130-134.	6.6	4
4	Driving plasmonic nanoantennas at perfect impedance matching using generalized coherent perfect absorption. Nanophotonics, 2021, 10, 1879-1887.	6.0	7
5	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
6	Signal and noise analysis for chiral structured illumination microscopy. Optics Express, 2021, 29, 23056.	3.4	2
7	Emission Manipulation by DNA Origami-Assisted Plasmonic Nanoantennas. Advanced Optical Materials, 2021, 9, 2100848.	7.3	13
8	Spectrometer-Free Optical Hydrogen Sensing Based on Fano-Like Spatial Distribution of Transmission in a Metal-Insulator-Metal Plasmonic Doppler Grating. Advanced Optical Materials, 2021, 9, 2100869.	7.3	7
9	Structured illumination microscopy for simultaneous imaging of achiral and chiral domains. Optics Letters, 2021, 46, 4546.	3.3	0
10	Plasmonic elliptical nanoholes for chiroptical analysis and enantioselective optical trapping. Nanoscale, 2021, 13, 9185-9192.	5.6	10
11	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
12	3D Archimedean spiral metasurface for enhances broadband optical chirality. , 2021, , .		0
13	Optical microresonator arrays of fluorescence-switchable diarylethenes with unreplicable spectral fingerprints. Materials Horizons, 2020, 7, 1801-1808.	12.2	36
14	Generation of optical chirality patterns with plane waves, evanescent waves and surface plasmon waves. Optics Express, 2020, 28, 760.	3.4	8
15	Designable Spectrometer-Free Index Sensing Using Plasmonic Doppler Gratings. Analytical Chemistry, 2019, 91, 9382-9387.	6.5	7
16	Modal Symmetry Controlled Second-Harmonic Generation by Propagating Plasmons. Nano Letters, 2019, 19, 6424-6428.	9.1	19
17	Stress-Induced 3D Chiral Fractal Metasurface for Enhanced and Stabilized Broadband Near-Field Optical Chirality. Advanced Optical Materials, 2019, 7, 1900617.	7.3	55
18	Design of novel $\text{TiO}_2/\text{SiO}_2$ core-shell helical nanostructured anti-reflective coatings on $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells with enhanced power conversion efficiency. Journal of Materials Chemistry A, 2019, 7, 11452-11459.	10.3	13

#	ARTICLE	IF	CITATIONS
19	Fabrication of Bimetallic Au@Pd@Au Nanobricks as an Archetype of Robust Nanoplasmonic Sensors. <i>Chemistry of Materials</i> , 2018, 30, 204-213.	6.7	17
20	Circular Dichroism in Nanoparticle Helices as a Template for Assessing Quantum-Informed Models in Plasmonics. <i>ACS Photonics</i> , 2018, 5, 5017-5024.	6.6	17
21	Fabrication of self-assembled spherical Gold Particles by pulsed UV Laser Treatment. <i>Scientific Reports</i> , 2018, 8, 11283.	3.3	9
22	Photoluminescence-Driven Broadband Transmitting Directional Optical Nanoantennas. <i>Nano Letters</i> , 2018, 18, 6002-6008.	9.1	19
23	Second-harmonic generations in a plasmonic two-wire transmission-line. , 2018, , .		0
24	Low-Threshold Whispering Gallery Mode Lasing from Self-Assembled Microspheres of Single-Sort Conjugated Polymers. <i>Advanced Optical Materials</i> , 2017, 5, 1700123.	7.3	52
25	Lasers: Low-Threshold Whispering Gallery Mode Lasing from Self-Assembled Microspheres of Single-Sort Conjugated Polymers ( <i>Advanced Optical Materials</i> 10/2017). <i>Advanced Optical Materials</i> , 2017, 5, .	7.3	2
26	Design and characterization of a plasmonic Doppler grating for azimuthal angle-resolved surface plasmon resonances. <i>Nanoscale</i> , 2017, 9, 10811-10819.	5.6	15
27	Ultrafast second-harmonic generations in a plasmonic two-wire transmission-line. , 2017, , .		0
28	Synthesis and Evaluation of Aminothiazole-Paeonol Derivatives as Potential Anticancer Agents. <i>Molecules</i> , 2016, 21, 145.	3.8	33
29	Probing the acoustic vibrations of complex-shaped metal nanoparticles with four-wave mixing. <i>Optics Express</i> , 2016, 24, 23747.	3.4	9
30	Facet-Dependent and Light-Assisted Efficient Hydrogen Evolution from Ammonia Borane Using Gold@Palladium Core@Shell Nanocatalysts. <i>Angewandte Chemie</i> , 2016, 128, 7338-7342.	2.0	78
31	Special Issue "Nonlinear and Ultrafast Nanophotonics". <i>ACS Photonics</i> , 2016, 3, 1333-1335.	6.6	4
32	Plasmon-enhanced photocatalytic hydrogen production on Au/TiO <sub>2</sub> hybrid nanocrystal arrays. <i>Nano Energy</i> , 2016, 27, 412-419.	16.0	64
33	Facet-Dependent and Light-Assisted Efficient Hydrogen Evolution from Ammonia Borane Using Gold@Palladium Core@Shell Nanocatalysts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7222-7226.	13.8	85
34	Robust room temperature valley polarization in monolayer and bilayer WS <sub>2</sub> . <i>Nanoscale</i> , 2016, 8, 6035-6042.	5.6	68
35	Origin and Future of Plasmonic Optical Tweezers. <i>Nanomaterials</i> , 2015, 5, 1048-1065.	4.1	55
36	Facet-dependent optical properties of Pd@Cu <sub>2</sub> O core-shell nanocubes and octahedra. <i>Nanoscale</i> , 2015, 7, 11135-11141.	5.6	51

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37	Single-Crystalline Aluminum Nanostructures on a Semiconducting GaAs Substrate for Ultraviolet to Near-Infrared Plasmonics. ACS Nano, 2015, 9, 3875-3886.	14.6	60
38	Plasmonic whispering-gallery modes in a semiconductor-insulator-metal hybrid structure. , 2015, , .		0
39	Second Harmonic Generation from Symmetric and Asymmetric Gold Nanoantennas. , 2015, , .		0
40	Optical trapping of nanoscale plasmonic optical lattice in microfluidic environments. Proceedings of SPIE, 2014, , .	0.8	0
41	Plasmonic archimedes spiral for selective optical trapping and rotation of optically isotropic particles. Proceedings of SPIE, 2014, , .	0.8	0
42	Slant-gap plasmonic nanoantennas for optical chirality engineering and circular dichroism enhancement. Optics Express, 2014, 22, 7434.	3.4	34
43	Laser-Induced Breakdown Spectroscopy of Liquid Droplets Based on Plasma-Induced Current Correlation. Journal of the Chinese Chemical Society, 2014, 61, 175-186.	1.4	6
44	Facet-dependent optical properties of polyhedral Au-Cu <sub>2</sub> O core-shell nanocrystals. Nanoscale, 2014, 6, 4316.	5.6	81
45	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
46	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
47	HNO <sub>3</sub> -Assisted Polyol Synthesis of Ultralarge Single-Crystalline Ag Microplates and Their Far Propagation Length of Surface Plasmon Polariton. ACS Applied Materials & Interfaces, 2014, 6, 11791-11798.	8.0	23
48	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
49	Mode Conversion in High-Definition Plasmonic Optical Nanocircuits. Nano Letters, 2014, 14, 3881-3886.	9.1	36
50	Two-photon Photoluminescence Investigation of Transverse Plasmonic Mode of Single-crystalline Gold Nanoantennas. , 2014, , .		0
51	The influence of shell thickness of Au@TiO <sub>2</sub> core-shell nanoparticles on the plasmonic enhancement effect in dye-sensitized solar cells. Nanoscale, 2013, 5, 7953.	5.6	116
52	Transport and Trapping in Two-Dimensional Nanoscale Plasmonic Optical Lattice. Nano Letters, 2013, 13, 4118-4122.	9.1	73
53	Deterministic Synthesis of Optical Vortices in Tailored Plasmonic Archimedes Spiral. IEEE Photonics Journal, 2013, 5, 4800409-4800409.	2.0	30
54	Influence of morphology on the plasmonic enhancement effect of Au@TiO <sub>2</sub> core-shell nanoparticles in dye-sensitized solar cells. , 2013, , .		0

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55	Coherent spectroscopies on ultrashort time and length scales. EPJ Web of Conferences, 2013, 41, 09017.	0.3	1
56	Plasmon enhanced nanoscale trapping in a two dimensional optical lattice. , 2013, , .		0
57	Dynamics of two-photon photoluminescence in gold nanostructures. Proceedings of SPIE, 2012, , .	0.8	0
58	Plasmonic mode converter for controlling optical impedance and nanoscale light-matter interaction. Optics Express, 2012, 20, 20342.	3.4	20
59	Ultrafast Plasmon Propagation in Nanowires Characterized by Far-Field Spectral Interferometry. Nano Letters, 2012, 12, 45-49.	9.1	78
60	Atomic-Scale Confinement of Resonant Optical Fields. Nano Letters, 2012, 12, 5504-5509.	9.1	129
61	Dynamics of Four-Photon Photoluminescence in Gold Nanoantennas. Nano Letters, 2012, 12, 2941-2947.	9.1	81
62	Nanoantennas for visible and infrared radiation. Reports on Progress in Physics, 2012, 75, 024402.	20.1	736
63	Efficient Mode Converters for Plasmonic Optical Nanocircuits. , 2012, , .		0
64	A Comparative Study of Gold Nanocubes, Octahedra, and Rhombic Dodecahedra as Highly Sensitive SERS Substrates. Inorganic Chemistry, 2011, 50, 8106-8111.	4.0	127
65	Tailoring the interaction between matter and polarized light with plasmonic optical antennas. Proceedings of SPIE, 2011, , .	0.8	3
66	Subwavelength localization of near fields in coupled metallic spheres for single-emitter polarization analysis. Optics Letters, 2011, 36, 2339.	3.3	7
67	Plasmonic modes of strongly-coupled single-crystalline gold nanoparticle dimers. , 2011, , .		0
68	Multi-photon autocorrelation in gold nanostructures. , 2011, , .		0
69	Photoinduced Electron Transfer of Oxazine 1/TiO <sub>2</sub> Nanoparticles at Single Molecule Level by Using Confocal Fluorescence Microscopy. Langmuir, 2010, 26, 9050-9060.	3.5	8
70	Subwavelength broadband splitters and switches for femtosecond plasmonic signals. Optics Express, 2010, 18, 11810.	3.4	31
71	Atomically flat single-crystalline gold nanostructures for plasmonic nanocircuitry. Nature Communications, 2010, 1, 150.	12.8	374
72	Mode Imaging and Selection in Strongly Coupled Nanoantennas. Nano Letters, 2010, 10, 2105-2110.	9.1	136

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73	Cross Resonant Optical Antenna. <i>Physical Review Letters</i> , 2009, 102, 256801.	7.8	179
74	Impedance Matching and Emission Properties of Nanoantennas in an Optical Nanocircuit. <i>Nano Letters</i> , 2009, 9, 1897-1902.	9.1	211
75	Near-field polarization shaping by a near-resonant plasmonic cross antenna. <i>Physical Review B</i> , 2009, 80, .	3.2	91
76	Deterministic spatiotemporal control of optical fields in nanoantennas and plasmonic circuits. <i>Physical Review B</i> , 2009, 79, .	3.2	62
77	Laser-induced breakdown spectroscopy in analysis of Al <sup>3+</sup> liquid droplets: On-line preconcentration by use of flow-injection manifold. <i>Analytica Chimica Acta</i> , 2007, 581, 303-308.	5.4	29
78	Laser-induced breakdown spectroscopy of liquid droplets: correlation analysis with plasma-induced current versus continuum background. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 53.	3.0	28
79	Matrix effect on emission/current correlated analysis in laser-induced breakdown spectroscopy of liquid droplets. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 321-326.	2.9	39
80	The correlation between ion production and emission intensity in the laser-induced breakdown spectroscopy of liquid droplets. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 35-48.	2.9	47
81	Flow-Injection Inductively Coupled Plasma Mass Spectrometer Incorporated with an Ultrasonic Nebulizer-Membrane Dryer: Application to Trace Lead Detection in Aqueous Solution and Seawater. <i>Applied Spectroscopy</i> , 2001, 55, 604-610.	2.2	13