

Hong-Son Chu

List of Publications by Year in descending order

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55
papers

2,357
citations

394286

19
h-index

315616

38
g-index

56
all docs

56
docs citations

56
times ranked

3211
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly sensitive graphene biosensors based on surface plasmon resonance. <i>Optics Express</i> , 2010, 18, 14395.	1.7	799
2	Quantum Plasmon Resonances Controlled by Molecular Tunnel Junctions. <i>Science</i> , 2014, 343, 1496-1499.	6.0	388
3	Optical performance of single-mode hybrid dielectric-loaded plasmonic waveguide-based components. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	143
4	Highly efficient on-chip direct electronicâ€“plasmonic transducers. <i>Nature Photonics</i> , 2017, 11, 623-627.	15.6	124
5	Active plasmonic switching at mid-infrared wavelengths with graphene ribbon arrays. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	110
6	On-chip molecular electronic plasmon sources based on self-assembled monolayer tunnel junctions. <i>Nature Photonics</i> , 2016, 10, 274-280.	15.6	110
7	Second-Harmonic Generation from Sub-5 nm Gaps by Directed Self-Assembly of Nanoparticles onto Template-Stripped Gold Substrates. <i>Nano Letters</i> , 2015, 15, 5976-5981.	4.5	86
8	Hybrid Dielectric-Loaded Plasmonic Waveguide-Based Power Splitter and Ring Resonator: Compact Size and High Optical Performance for Nanophotonic Circuits. <i>Plasmonics</i> , 2011, 6, 591-597.	1.8	46
9	Nanoparticle Interactions Guided by Shapeâ€“Dependent Hydrophobic Forces. <i>Advanced Materials</i> , 2018, 30, e1707077.	11.1	42
10	Waveguide-integrated near-infrared detector with self-assembled metal silicide nanoparticles embedded in a silicon p-n junction. <i>Applied Physics Letters</i> , 2012, 100, 061109.	1.5	41
11	Collective Mie Resonances for Directional On-Chip Nanolasers. <i>Nano Letters</i> , 2020, 20, 5655-5661.	4.5	37
12	Submicrometer radius and highly confined plasmonic ring resonator filters based on hybrid metal-oxide-semiconductor waveguide. <i>Optics Letters</i> , 2012, 37, 4564.	1.7	36
13	Electrically-Excited Surface Plasmon Polaritons with Directionality Control. <i>ACS Photonics</i> , 2015, 2, 385-391.	3.2	34
14	Analysis of sub-wavelength light propagation through long double-chain nanowires with funnel feeding. <i>Optics Express</i> , 2007, 15, 4216.	1.7	33
15	Hybrid dielectric-loaded plasmonic waveguide and wavelength selective components for efficiently controlling light at subwavelength scale. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 2895.	0.9	33
16	Remarkable influence of the number of nanowires on plasmonic behaviors of the coupled metallic nanowire chain. <i>Applied Physics Letters</i> , 2008, 92, 103103.	1.5	32
17	Efficient Surface Plasmon Polariton Excitation and Control over Outcoupling Mechanisms in Metalâ€“Insulatorâ€“Metal Tunneling Junctions. <i>Advanced Science</i> , 2020, 7, 1900291.	5.6	32
18	Volume integral equation analysis of surface plasmon resonance of nanoparticles. <i>Optics Express</i> , 2007, 15, 18200.	1.7	22

#	ARTICLE	IF	CITATIONS
19	Directional Excitation of Surface Plasmon Polaritons via Molecular Through-Bond Tunneling across Double-Barrier Tunnel Junctions. Nano Letters, 2019, 19, 4634-4640.	4.5	21
20	Plasmonâ€“plasmon interaction: controlling light at nanoscale. Nanotechnology, 2012, 23, 444004.	1.3	15
21	AIM Analysis of Electromagnetic Scattering by Arbitrarily Shaped Magnetodielectric Object. IEEE Transactions on Antennas and Propagation, 2007, 55, 2073-2079.	3.1	14
22	Compact and efficient coupler to interface hybrid dielectric-loaded plasmonic waveguide with silicon photonic slab waveguide. Optics Communications, 2012, 285, 3709-3713.	1.0	13
23	Low loss waveguiding and slow light modes in coupled subwavelength silicon Mie resonators. Nanoscale, 2020, 12, 21713-21718.	2.8	13
24	Tunable propagation of light through a coupled-bent dielectric-loaded plasmonic waveguides. Journal of Applied Physics, 2009, 106, 106101.	1.1	12
25	Directional launching of surface plasmon polaritons by electrically driven aperiodic groove array reflectors. Nanophotonics, 2021, 10, 1145-1154.	2.9	12
26	Plasmon coupling effect on propagation of surface plasmon polaritons at a continuous metal/dielectric interface. Physical Review B, 2011, 83, .	1.1	10
27	CMOSâ€“Compatible Electronicâ€“Plasmonic Transducers Based on Plasmonic Tunnel Junctions and Schottky Diodes. Small, 2022, 18, e2105684.	5.2	9
28	Image Dipole Method for the Beaming of Plasmons from Point Sources. ACS Photonics, 2014, 1, 1307-1312.	3.2	7
29	Optical Anisotropy in van der Waals materials: Impact on Direct Excitation of Plasmons and Photons by Quantum Tunneling. Light: Science and Applications, 2021, 10, 230.	7.7	7
30	Spatial Control over Stable Lightâ€“Emission from ACâ€“Driven CMOSâ€“Compatible Quantum Mechanical Tunnel Junctions. Laser and Photonics Reviews, 2022, 16, .	4.4	7
31	Enhancement of time domain analysis and optimization through neural networks. International Journal of RF and Microwave Computer-Aided Engineering, 2007, 17, 179-188.	0.8	6
32	Geometric control over surface plasmon polariton out-coupling pathways in metal-insulator-metal tunnel junctions. Optics Express, 2021, 29, 11987.	1.7	6
33	Variational Quantum-Based Simulation of Waveguide Modes. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2517-2525.	2.9	6
34	Integrated System-Level Electronic Design Automation (EDA) for Designing Plasmonic Nanocircuits. IEEE Nanotechnology Magazine, 2012, 11, 731-738.	1.1	4
35	Shape optimization of multi-band antennas using the coupling between microgenetic algorithms and TLM method. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2004, 17, 193-205.	1.2	3
36	Design of microwave structures with MEFISTO-3D NOVA and MATLAB optimization and neural network toolboxes. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2007, 20, 55-64.	1.2	3

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37	CMOS-Compatible Plasmonic Bragg Reflectors Based on Cu-Dielectric-Si Structures. IEEE Photonics Technology Letters, 2013, 25, 2115-2118.	1.3	3
38	Modeling and Simulation of Nano-Interconnects for Nanophotonics. , 2007, , .		2
39	Field enhancement by semi-nanocapsule plasmonic antenna at the visible violet wavelength. Applied Physics A: Materials Science and Processing, 2010, 100, 353-357.	1.1	2
40	Coupled computational intelligence and time-domain method for design of the microwave devices. , 2006, , .		1
41	Optical properties of a single-chain of elliptical silver nanowires. , 2007, , .		1
42	Investigation of Surface Plasmon Resonance of Nanoparticles using Volume Integral Equation. , 2007, , .		1
43	Characterization of planar hybrid dielectric-loaded plasmonic nano-waveguides used for nano-photonic circuits. , 2011, , .		1
44	Passive plasmonic waveguide-based devices. , 0, , 139-179.		1
45	On-chip high performance plasmonic-CMOS components based on horizontal hybrid Cu-SiO ₂ -Si platform. , 2016, , .		1
46	Optimization of microwave structures with MEFISTO-3D NOVA and MATLAB. , 0, , .		0
47	Time-Domain Analysis with Self-Optimizing Prony Predictor for Accelerated Field-Based Design. , 2007, , .		0
48	Guiding light in different plasmonic nano-slot waveguides for nano-interconnect application. , 2008, , .		0
49	Investigation of light propagation in H-shaped plasmonic coupler using volume integral equation. , 2008, , .		0
50	Controlling light in different structures of dielectric-loaded plasmonic waveguide. , 2009, , .		0
51	Resonant coupling of surface and bulk plasmon polaritons in metallic nanostructures. , 2010, , .		0
52	Controlling light with plasmon-plasmon interaction. , 2012, , .		0
53	Efficiently coupling single photon source to plasmonic nanoslot waveguide by nanoantenna. , 2017, , .		0
54	CMOS-compatible Plasmonic Waveguide Platform and Ring Resonator for Nanoscale Electronic-photonic Integrated Circuits. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	Numerical Simulation on Thermal Response for Dynamic Non-Destructive Detection of Weak Bonds in Carbon Fiber Reinforced Polymer. , 2018, , .		0