Quan Sun

List of Publications by Year
in descending order

61 papers	1,970 citations	279487 23 h-index	243296 44 g-index
61 all docs	61 docs citations	61 times ranked	2555 citing authors

#	Article	IF	Citations
1	Edge states in plasmonic meta-arrays. Nanophotonics, 2022, .	2.9	5
2	Spectromicroscopy and imaging of photoexcited electron dynamics at in-plane silicon pn junctions. Nanoscale, 2021, 13, 2626-2631.	2.8	1
3	Ultrafast extreme ultraviolet photoemission electron microscope. Review of Scientific Instruments, 2021, 92, 043709.	0.6	10
4	Revealing the Chiroptical Response of Plasmonic Nanostructures at the Nanofemto Scale. Nano Letters, 2021, 21, 4780-4786.	4.5	9
5	Extrinsic Chirality by Interference between Two Plasmonic Modes on an Achiral Rectangular Nanostructure. ACS Nano, 2021, 15, 16802-16810.	7.3	13
6	Near-Field Imaging and Time-Domain Dynamics of Photonic Topological Edge States in Plasmonic Nanochains. Nano Letters, 2021, 21, 9270-9278.	4.5	16
7	Ultrafast photoemission electron microscopy: Capability and potential in probing plasmonic nanostructures from multiple domains. Journal of Chemical Physics, 2020, 153, 120902.	1.2	15
8	Relaxation and transfer of photoexcited electrons at a coplanar few-layer 1â€‰Tâ€²/2H-MoTe2 heterojunction. Communications Materials, 2020, 1, .	2.9	10
9	Further enhancement of the near-field on Au nanogap dimers using quasi-dark plasmon modes. Journal of Chemical Physics, 2020, 152, 104706.	1.2	21
10	Chiral Second-Harmonic Generation from Monolayer WS₂/Aluminum Plasmonic Vortex Metalens. Nano Letters, 2020, 20, 2857-2864.	4.5	36
11	Ultrafast Electron Cooling and Decay in Monolayer WS₂ Revealed by Time- and Energy-Resolved Photoemission Electron Microscopy. Nano Letters, 2020, 20, 3747-3753.	4.5	35
12	Correlation between Near-Field Enhancement and Dephasing Time in Plasmonic Dimers. Physical Review Letters, 2020, 124, 163901.	2.9	29
13	Polarization-selected nonlinearity transition in gold dolmens coupled to an epsilon-near-zero material. Nanophotonics, 2020, 9, 4839-4851.	2.9	14
14	Engineering Ultrafast Carrier Dynamics at the Graphene/GaAs Interface by Bulk Doping Level. Advanced Optical Materials, 2019, 7, 1900580.	3.6	6
15	Twisted Surface Plasmons with Spinâ€Controlled Gold Surfaces. Advanced Optical Materials, 2019, 7, 1801060.	3.6	36
16	Control of plasmon dephasing time using stacked nanogap gold structures for strong near-field enhancement. Applied Materials Today, 2019, 14, 159-165.	2.3	33
17	Exotic Mode Suppression in Plasmonic Heterotrimer System. Journal of Physical Chemistry C, 2019, 123, 1398-1405.	1.5	5
18	Revealing the plasmon coupling in gold nanochains directly from the near field. Opto-Electronic Advances, 2019, 2, 18003001-18003007.	6.4	17

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19	Solid-State Plasmonic Solar Cells. Chemical Reviews, 2018, 118, 2955-2993.	23.0	182
20	Ultrabroad and Angle Tunable THz Filter Based on Multiplexed Metallic Bar Resonators. IEEE Photonics Technology Letters, 2018, 30, 2103-2106.	1.3	13
21	Manipulation of the dephasing time by strong coupling between localized and propagating surface plasmon modes. Nature Communications, 2018, 9, 4858.	5.8	85
22	Enhanced water splitting under modal strong coupling conditions. Nature Nanotechnology, 2018, 13, 953-958.	15.6	216
23	Optical Characterization of Gold Nanoblock Dimers: From Capacitive Coupling to Charge Transfer Plasmons and Rod Modes. Journal of Physical Chemistry C, 2018, 122, 18005-18011.	1.5	12
24	Ultrafast Plasmons Probed by Photoemission Electron Microscopy. , 2018, , .		0
25	Near-field Spectral Properties of Nano-engineered Metallic Nanoparticles. , 2018, , .		1
26	Versatile plasmonic-effects at the interface of inverted perovskite solar cells. Nanoscale, 2017, 9, 1229-1236.	2.8	50
27	Interplay of hot electrons from localized and propagating plasmons. Nature Communications, 2017, 8, 771.	5.8	64
28	Exploring the Near-Field of Strongly Coupled Waveguide-Plasmon Modes by Plasmon-Induced Photocurrent Generation Using a Gold Nanograting-Loaded Titanium Dioxide Photoelectrode. Journal of Physical Chemistry C, 2017, 121, 21627-21633.	1.5	10
29	3-D Nanostructure Fabrication by Focused-Ion Beam, Electron- and Laser Beam. Springer Handbooks, 2017, , 87-112.	0.3	0
30	Near-field spectral properties of coupled plasmonic nanoparticle arrays. Optics Express, 2017, 25, 6883.	1.7	23
31	Spatial evolution of the near-field distribution on planar gold nanoparticles with the excitation wavelength across dipole and quadrupole modes. Photonics Research, 2017, 5, 187.	3.4	19
32	Surface plasmon optical antennae in the infrared region with high resonant efficiency and frequency selectivity. Optics Express, 2016, 24, 17728.	1.7	7
33	Exploring Coupled Plasmonic Nanostructures in the Near Field by Photoemission Electron Microscopy. ACS Nano, 2016, 10, 10373-10381.	7.3	51
34	Dissecting the Few-Femtosecond Dephasing Time of Dipole and Quadrupole Modes in Gold Nanoparticles Using Polarized Photoemission Electron Microscopy. ACS Nano, 2016, 10, 3835-3842.	7.3	100
35	Robust and Versatile Light Absorption at Near-Infrared Wavelengths by Plasmonic Aluminum Nanorods. ACS Photonics, 2014, 1, 538-546.	3.2	93
36	Construction of Plasmon-Induced Artificial Photosynthesis and its Dynamics Measured by PEEM. Hyomen Kagaku, 2014, 35, 668-673.	0.0	0

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37	Visualization of Plasmonic Coupled mode of Gold Curvilinear Nanorods and Straight Nanorods by Photoemission Electron Microscopy. , 2014, , .		0
38	Direct imaging of the near field and dynamics of surface plasmon resonance on gold nanostructures using photoemission electron microscopy. Light: Science and Applications, 2013, 2, e118-e118.	7.7	130
39	In situ investigation of the shrinkage of photopolymerized micro/nanostructures: the effect of the drying process. Optics Letters, 2012, 37, 710.	1.7	24
40	The transition from smooth modification to nanograting in fused silica. Applied Physics Letters, 2010, 96, 101903.	1.5	20
41	Femtosecond laser photopolymerization of photonic and free-movable microstructures in sol-gel hybrid resist. Proceedings of SPIE, 2010, , .	0.8	3
42	Freestanding and movable photonic microstructures fabricated by photopolymerization with femtosecond laser pulses. Journal of Micromechanics and Microengineering, 2010, 20, 035004.	1.5	48
43	Pulse duration dependent nonlinear propagation of a focused femtosecond laser pulse in fused silica. Optics Express, 2010, 18, 24495.	1.7	20
44	Effect of drying process on photon-polymerized microstructures in resists. , 2010, , .		0
45	Lens tilting effect on filamentation and filament-induced fluorescence. Optics Communications, 2009, 282, 950-954.	1.0	14
46	Filament Assisted Third Harmonic Generation at Interface. , 2009, , .		0
47	Nanograting formation on the surface of silica glass by scanning focused femtosecond laser pulses. Optics Letters, 2008, 33, 2713.	1.7	61
48	Microchannel fabrication in silica glass by femtosecond laser pulses with different central wavelengths. Journal of Micromechanics and Microengineering, 2008, 18, 035039.	1.5	17
49	Long Range Trace Detection in Aqueous Aerosol using Remote Filament-Induced Breakdown Spectroscopy (R-FIBS). , 2007, , .		0
50	Long range trace detection in aqueous aerosol using remote filament-induced breakdown spectroscopy. Applied Physics B: Lasers and Optics, 2007, 87, 749-754.	1.1	56
51	Diagnose Parameters of Plasma Induced by Femtosecond Laser Pulse in Quartz and Glasses. Frontiers of Physics in China, 2006, 1, 67-71.	1.0	20
52	Relaxation of Dense Electron Plasma Induced by Femtosecond Laser in Dielectric Materials. Chinese Physics Letters, 2006, 23, 189-192.	1.3	22
53	Interaction between subpicosecond laser and fused silica. , 2005, 5646, 224.		0
54	Investigation on the parameters of dense electronic plasma induced by femtosecond laser in fused silica. Springer Series in Chemical Physics, 2005, , 354-356.	0.2	0

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55	Different tendencies of breakdown threshold on pulse duration in the subpicosecond regime in fused silica. Journal of Optics, 2005, 7, 198-203.	1.5	8
56	Measurement of the collision time of dense electronic plasma induced by a femtosecond laser in fused silica. Optics Letters, 2005, 30, 320.	1.7	138
57	Effect of spherical aberration on the propagation of a tightly focused femtosecond laser pulse inside fused silica. Journal of Optics, 2005, 7, 655-659.	1.5	63
58	Micro-ablation at the front and rear surfaces of a fused silica window by using a femtosecond laser pulse in air. Journal of Optics, 2004, 6, 671-674.	1.5	6
59	Filamentation and temporal reshaping of a femtosecond pulse in fused silica. Physical Review A, 2003, 68, .	1.0	49
60	Fifth-Order Harmonic Generation using a Coherent Controlled Two-Pulsed Optical Field. Chinese Physics Letters, 2002, 19, 1301-1303.	1.3	2
61	Morphological investigation at the front and rear surfaces of fused silica processed with femtosecond laser pulses in air. Optics Express, 2002, 10, 1244.	1.7	32