Kuo Ping Chen

List of Publications by Year
in descending order

79 papers	1,752 citations	257450 24 h-index	276875 41 g-index
80 all docs	80 docs citations	80 times ranked	1990 citing authors

#	Article	IF	Citations
1	Drude Relaxation Rate in Grained Gold Nanoantennas. Nano Letters, 2010, 10, 916-922.	9.1	176
2	Narrowband Wavelength Selective Thermal Emitters by Confined Tamm Plasmon Polaritons. ACS Photonics, 2017, 4, 2212-2219.	6.6	164
3	Structural Colors Enabled by Lattice Resonance on Silicon Nitride Metasurfaces. ACS Nano, 2020, 14, 5678-5685.	14.6	91
4	Nonradiating Silicon Nanoantenna Metasurfaces as Narrowband Absorbers. ACS Photonics, 2018, 5, 2596-2601.	6.6	86
5	Design and fabrication of an alternating dielectric multi-layer device for surface plasmon resonance sensor. Sensors and Actuators B: Chemical, 2006, 113, 169-176.	7.8	78
6	Metal nanoslit lenses with polarization-selective design. Optics Letters, 2011, 36, 451.	3.3	78
7	Lowâ€Threshold Bound State in the Continuum Lasers in Hybrid Lattice Resonance Metasurfaces. Laser and Photonics Reviews, 2021, 15, 2100118.	8.7	59
8	Tamm plasmon selective thermal emitters. Optics Letters, 2016, 41, 4453.	3.3	58
9	Ultracompact Pseudowedge Plasmonic Lasers and Laser Arrays. Nano Letters, 2018, 18, 747-753.	9.1	56
10	Ultrathin, ultrasmooth, and low-loss silver films via wetting and annealing. Applied Physics Letters, 2010, 97, .	3.3	49
11	Plasmonic enhancement of Au nanoparticleâ€"embedded single-crystalline ZnO nanowire dye-sensitized solar cells. Nano Energy, 2016, 20, 264-271.	16.0	48
12	Admittance loci design method for multilayer surface plasmon resonance devices. Sensors and Actuators B: Chemical, 2006, 117, 219-229.	7.8	47
13	Phase sensitive sensor on Tamm plasmon devices. Optical Materials Express, 2017, 7, 1267.	3.0	46
14	Plasmonic Nanolasers Enhanced by Hybrid Grapheneâ€“Insulatorâ€“Metal Structures. Nano Letters, 2019, 19, 5017-5024.	9.1	43
15	Giant photothermal nonlinearity in a single silicon nanostructure. Nature Communications, 2020, 11, 4101.	12.8	42
16	Liquid-crystal tunable color filters based on aluminum metasurfaces. Optics Express, 2017, 25, 30764.	3.4	41
17	Liquid-Crystal Active Tamm-Plasmon Devices. Physical Review Applied, 2018, 9, .	3.8	36
18	Refractive index and dielectric constant transition of ultra-thin gold from cluster to Film. Optics Express, 2010, 18, 24859.	3.4	35

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19	Room temperature fabrication of titanium nitride thin films as plasmonic materials by high-power impulse magnetron sputtering. Optical Materials Express, 2016, 6, 540.	3.0	34
20	Narrowâ€Band Thermal Emitter with Titanium Nitride Thin Film Demonstrating High Temperature Stability. Advanced Optical Materials, 2020, 8, 1900982.	7.3	34
21	Tunability and Optimization of Coupling Efficiency in Tamm Plasmon Modes. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 262-267.	2.9	32
22	Bio-Plasmonics: Nano/micro Structure of Surface Plasmon Resonance Devices for Biomedicine. Optical and Quantum Electronics, 2005, 37, 1423-1437.	3.3	31
23	High-Performance Plasmonic Nanolasers with a Nanotrench Defect Cavity for Sensing Applications. ACS Photonics, 2018, 5, 2638-2644.	6.6	28
24	Enhancing the Interaction between High-Refractive Index Nanoparticles and Gold Film Substrates Based on Oblique Incidence Excitation. ACS Omega, 2016, 1, 613-619.	3.5	27
25	Germanium Metasurfaces with Lattice Kerker Effect in Near-Infrared Photodetectors. ACS Nano, 2022, 16, 5994-6001.	14.6	26
26	Electrically tunable transmission of gold binary-grating metasurfaces integrated with liquid crystals. Optics Express, 2016, 24, 16815.	3.4	23
27	Quasiâ€Bound States in the Continuum with Temperatureâ€Tunable Q Factors and Critical Coupling Point at Brewster's Angle. Laser and Photonics Reviews, 2021, 15, 2000290.	8.7	18
28	Current Modulation of Plasmonic Nanolasers by Breaking Reciprocity on Hybrid Grapheneâ€“Insulatorâ€“Metal Platforms. Advanced Science, 2020, 7, 2001823.	11.2	17
29	Numerical Modeling of Plasmonic Nanoantennas with Realistic 3D Roughness and Distortion. Sensors, 2011, 11, 7178-7187.	3.8	15
30	Tamm Plasmonâ€Polariton Ultraviolet Lasers. Advanced Photonics Research, 2022, 3, .	3.6	15
31	Experimental verification of two-dimensional spatial harmonic analysis at oblique light incidence. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2465.	2.1	14
32	Fano feature induced by a bound state in the continuum via resonant state expansion. Scientific Reports, 2020, 10, 13691.	3.3	14
33	Critical coupling vortex with grating-induced high Q-factor optical Tamm states. Optics Express, 2021, 29, 4672.	3.4	14
34	Simplified model for periodic nanoantennae: linear model and inverse design. Optics Express, 2009, 17, 11607.	3.4	13
35	Optical Tamm states at the interface between a photonic crystal and an epsilon-near-zero nanocomposite. Journal of Optics (United Kingdom), 2017, 19, 085103.	2.2	13
36	Quantifying photoinduced carriers transport in excitonâ€“polariton coupling of MoS2 monolayers. Npj 2D Materials and Applications, 2021, 5, .	7.9	12

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37	Electrically active nanoantenna array enabled by varying the molecular orientation of an interfaced liquid crystal. RSC Advances, 2016, 6, 84500-84504.	3.6	11
38	Engineered nonlinear materials using gold nanoantenna array. Scientific Reports, 2018, 8, 780.	3.3	11
39	Hybridization of plasmonic and dielectric metasurfaces with asymmetric absorption enhancement. Journal of Applied Physics, 2020, 128, 133101.	2.5	11
40	Chiral-Selective Tamm Plasmon Polaritons. Materials, 2021, 14, 2788.	2.9	11
41	Direct Observation of Photoinduced Charge Separation at Transition-Metal Nitrideâ€“Semiconductor Interfaces. ACS Applied Materials & Interfaces, 2020, 12, 56562-56567.	8.0	10
42	Charge partitioning by intertwined metal-oxide nano-architectural networks for the photocatalytic dry reforming of methane. Chem Catalysis, 2022, 2, 321-329.	6.1	9
43	Observation of the high-sensitivity plasmonic dipolar antibonding mode of gold nanoantennas in evanescent waves. Applied Physics Letters, 2014, 105, 031117.	3.3	8
44	Graphene-Loaded Plasmonic Zirconium Nitride and Gold Nanogroove Arrays for Surface-Charge Modifications. ACS Applied Nano Materials, 2020, 3, 5002-5007.	5.0	8
45	Broadband gold nanoantennas arrays with transverse dimension effects. Optics Express, 2016, 24, 17760.	3.4	7
46	Evanescent Wave-Assisted Symmetry Breaking of Gold Dipolar Nanoantennas. Scientific Reports, 2016, 6, 32194.	3.3	7
47	A Novel Hydrogen Sensor Based on a Guided-Mode Resonance Filter. IEEE Sensors Journal, 2021, 21, 2798-2804.	4.7	7
48	Experimental implementation of tunable hybrid Tamm-microcavity modes. Applied Physics Letters, 2021, 119, 161107.	3.3	7
49	Effective absorption enhancement in dielectric thin-films with embedded paired-strips gold nanoantennas. Optics Express, 2014, 22, 12737.	3.4	6
50	Room-temperature active modulation of plasmonic nanolasers by current injection on hybrid grapheneâ€“insulatorâ€“metal platforms. Journal of Applied Physics, 2021, 129, .	2.5	6
51	Absorption avoided resonance crossing of hybridization of silicon nanoparticles and gold nanoantennas. Scientific Reports, 2019, 9, 11778.	3.3	4
52	Metalâ€“Dielectric Polarization-Preserving Anisotropic Mirror for Chiral Optical Tamm State. Nanomaterials, 2022, 12, 234.	4.1	4
53	Nonscattering Photodetection in the Propagation of Unidirectional Surface Plasmon Polaritons Embedded with Graphene. ACS Applied Materials & Interfaces, 2022, 14, 30299-30305.	8.0	4
54	Metal nanoslit lenses with polarization-selective design: erratum. Optics Letters, 2011, 36, 1244.	3.3	3

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55	Gold Nanoslit Lenses. , 2011, , .		1
56	Optimization of effective absorption enhancement of paired-strips gold nanoantennas arrays in organic thin-films. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	1
57	Improving Au Nanoantenna Resonance by Annealing. , 2008, , .		1
58	Strong coupling in a ID plasmonic-exciton hybrid systems. , 2020, , .		1
59	Surface plasmon resonance device with dielectric mirror for biochemical sensing. , 2004, 2004, 1972-4.		0
60	Bio-plasmonics nano/micro structure of surface plasmon resonance devices for biomedicine. , 0, , .		0
61	Two-photon Absorption Enhancement with Gold Nanoantenna Array. , 2010, , .		0
62	FE modeling of plasmonic nanoantennas with realistic 3D roughness and distortion. , 2010, , .		0
63	Effective absorption enhancement in dielectric slab with embedded single-strip and paired-strips gold nanoantennas. , 2013, , .		0
64	SPR biosensor using gold nanoantenna arrays in Kretchmann configuration. , 2013, , .		0
65	Controllable Tamm plasmon effect designed by admittance loci. , 2014, , .		0
66	Hybridization models of gold nanoantennas arrays in polarization dependent evanescent waves (Presentation Recording). Proceedings of SPIE, 2015, , .	0.8	0
67	Strong coupling of gold dipolar nanoantennas by symmetry-breaking in evanescent wave. , 2016, , .		0
68	Study of Plasmonic Nanolasers with Grapheneâ€“Metal Interaction. , 2019, , .		0
69	Plasmonics and hot electrons: feature issue introduction. Optical Materials Express, 0, , .	3.0	0
70	Plasmon-induced Charge Transport at Transition Metal Nitride-Semiconductor Interfaces via In Situ Nanoimaging. , 2021, , .		0
71	Silicon nitride metasurfaces in structural colors and advanced coherent light sources. , 2021, , .		0
72	Improving Plasmonic Nanoantennas. , 2010, , .		0

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73	SHA Modeling of Gold Gratings for Oblique Light Incidence. , 2010, , .		0
74	Near-Field Enhancement of Plasmonics Paired-Strips Nanoantennas. , 2013, , .		0
75	High Sensitivity Dark Mode Plasmonic Resonance of Gold Nanoantennas Arrays in Evanescent Waves. , 2015, , .		0
76	Optical Tamm States in Liquid Photonic Crystal and Metasurface. , 2016, , .		0
77	Plasmonic Nanolasers: Current Modulation of Plasmonic Nanolasers by Breaking Reciprocity on Hybrid Grapheneâ€“Insulatorâ€“Metal Platforms (Adv. Sci. 24/2020). Advanced Science, 2020, 7, 2070134.	11.2	0
78	Structural Colors and Lasers by Lattice Resonance in Silicon Nitride Metasurfaces. , 2021, , .		0
79	Development of surface plasmon polariton-based nanolasers. Journal of Applied Physics, 2022, 131, 011101.	2.5	0