Lin Wu

List of Publications by Year
in descending order

62 papers	3,365 citations	201674 27 h-index	144013 57 g-index
63 all docs	63 docs citations	63 times ranked	4666 citing authors

#	Article	IF	Citations
1	Highly sensitive graphene biosensors based on surface plasmon resonance. Optics Express, 2010, 18, 14395.	3.4	799
2	Quantum Plasmon Resonances Controlled by Molecular Tunnel Junctions. Science, 2014, 343, 1496-1499.	12.6	388
3	Optical Refractive Index Sensors with Plasmonic and Photonic Structures: Promising and Inconvenient Truth. Advanced Optical Materials, 2019, 7, 1801433.	7.3	303
4	Stabilization of 4H hexagonal phase in gold nanoribbons. Nature Communications, 2015, 6, 7684.	12.8	215
5	High Sensitivity Surface Plasmon Resonance Sensor Based on Two-Dimensional MXene and Transition Metal Dichalcogenide: A Theoretical Study. Nanomaterials, 2019, 9, 165.	4.1	126
6	Fowlerâ€“Nordheim Tunneling Induced Charge Transfer Plasmons between Nearly Touching Nanoparticles. ACS Nano, 2013, 7, 707-716.	14.6	114
7	On-chip molecular electronic plasmon sources based on self-assembled monolayer tunnel junctions. Nature Photonics, 2016, 10, 274-280.	31.4	110
8	Quantum plasmonics: new opportunity in fundamental and applied photonics. Advances in Optics and Photonics, 2018, 10, 703.	25.5	105
9	Optical Properties of Chiral Three-Dimensional Plasmonic Oligomers at the Onset of Charge-Transfer Plasmons. ACS Nano, 2012, 6, 10355-10365.	14.6	103
10	Quantum plasmonics get applied. Progress in Quantum Electronics, 2019, 65, 1-20.	7.0	70
11	Carboxybetaine, sulfobetaine, and cationic block copolymer coatings: A comparison of the surface properties and antibiofouling behavior. Journal of Applied Polymer Science, 2012, 124, 2154-2170.	2.6	65
12	Two-dimensional transition metal dichalcogenides mediated long range surface plasmon resonance biosensors. Journal Physics D: Applied Physics, 2019, 52, 065101.	2.8	62
13	Synthesis of Anisotropic Concave Gold Nanocuboids with Distinctive Plasmonic Properties. Chemistry of Materials, 2013, 25, 2470-2475.	6.7	61
14	Quantum Plasmonic Immunoassay Sensing. Nano Letters, 2019, 19, 5853-5861.	9.1	55
15	Imprinted gold 2D nanoarray for highly sensitive and convenient PSA detection via plasmon excited quantum dots. Lab on A Chip, 2015, 15, 253-263.	6.0	43
16	Ultrasensitive Detection of Cancer Prognostic miRNA Biomarkers Based on Surface Plasmon Enhanced Light Scattering. ACS Sensors, 2017, 2, 635-640.	7.8	41
17	Steering Room-Temperature Plexcitonic Strong Coupling: A Diexcitonic Perspective. Nano Letters, 2021, 21, 8979-8986.	9.1	41
18	<inline-formula> <tex-math notation="LaTeX">$ext{MoS}_2$</tex-math> </inline-formula>-Based Highly Sensitive Near-Infrared Surface Plasmon Resonance Refractive Index Sensor. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	2.9	40

#	Article	IF	Citations
19	High throughput and high yield nanofabrication of precisely designed gold nanohole arrays for fluorescence enhanced detection of biomarkers. Lab on A Chip, 2013, 13, 2405.	6.0	37
20	Surface Exciton Polaritons: A Promising Mechanism for Refractive-Index Sensing. Physical Review Applied, 2019, 12, .	3.8	33
21	Directional fluorescence emission co-enhanced by localized and propagating surface plasmons for biosensing. Nanoscale, 2016, 8, 8008-8016.	5.6	31
22	Plexcitonic strong coupling: unique features, applications, and challenges. Journal Physics D: Applied Physics, 2022, 55, 203002.	2.8	31
23	Ionic liquids with fluorinated block-oligomer tails: Influence of self-assembly on transport properties. Journal of Materials Chemistry, 2011, 21, 19275.	6.7	30
24	Surface plasmon-enhanced fluorescence on Au nanohole array for prostate-specific antigen detection. International Journal of Nanomedicine, 2017, Volume 12, 2307-2314.	6.7	30
25	Designing surface plasmon resonance of subwavelength hole arrays by studying absorption. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 521.	2.1	28
26	Interference-Induced Broadband Absorption Enhancement for Plasmonic-Metal@Semiconductor Microsphere as Visible Light Photocatalyst. ACS Catalysis, 2014, 4, 4269-4276.	11.2	27
27	Plasmon-Enhanced Resonant Photoemission Using Atomically Thick Dielectric Coatings. ACS Nano, 2020, 14, 8806-8815.	14.6	27
28	Investigation of plasmonic signal enhancement based on long range surface plasmon resonance with gold nanoparticle tags. Journal of Materials Chemistry C, 2016, 4, 9897-9904.	5.5	26
29	Exploiting Surface-Plasmon-Enhanced Light Scattering for the Design of Ultrasensitive Biosensing Modality. Analytical Chemistry, 2016, 88, 11924-11930.	6.5	26
30	Room-temperature plexcitonic strong coupling: Ultrafast dynamics for quantum applications. Applied Physics Letters, 2021, 118, .	3.3	21
31	Ultrasensitive Optical Temperature Transducers Based on Surface Plasmon Resonance Enhanced Composited Goos-HÃnchen and Imbert-Fedorov Shifts. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	21
32	Incident-angle dependence of fluorescence enhancement and biomarker immunoassay on gold nanohole array. Sensors and Actuators B: Chemical, 2013, 186, 205-211.	7.8	19
33	Ultrastrong coupling in single plexcitonic nanocubes. Nanophotonics, 2020, 9, 257-266.	6.0	19
34	Charge transfer plasmon resonances across silverâ€“moleculeâ€“silver junctions: estimating the terahertz conductance of molecules at near-infrared frequencies. RSC Advances, 2016, 6, 70884-70894.	3.6	17
35	Reconfigurable Photon Sources Based on Quantum Plexcitonic Systems. Nano Letters, 2020, 20, 4645-4652.	9.1	16
36	Development of Localized Surface Plasmon Resonance-Based Point-of-Care System. Plasmonics, 2014, 9, 835-844.	3.4	15

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37	Surface Plasmon Enhanced Light Scattering Biosensing: Size Dependence on the Gold Nanoparticle Tag. Sensors, 2019, 19, 323.	3.8	15
38	Interfacial Characteristics of a PEGylated Imidazolium Bistriflamide Ionic Liquid Electrolyte at a Lithium Ion Battery Cathode of LiMn₂O₄. ACS Applied Materials & Interfaces, 2013, 5, 2075-2084.	8.0	14
39	Plasmonic Metals for Nanohole-Array Surface Plasmon Field-Enhanced Fluorescence Spectroscopy Biosensing. Plasmonics, 2014, 9, 825-833.	3.4	14
40	Integrating lattice and gap plasmonic modes to construct dual-mode metasurfaces for enhancing lightâ€“matter interaction. Science China Materials, 2021, 64, 3007-3016.	6.3	14
41	Compounding Plasmonâ€“Exciton Strong Coupling System with Gold Nanofilm to Boost Rabi Splitting. Nanomaterials, 2019, 9, 564.	4.1	12
42	Glass transition, viscosity, and conductivity correlations in solutions of lithium salts in PEGylated imidazolium ionic liquids. Journal of Molecular Liquids, 2014, 198, 398-408.	4.9	11
43	Lithium coordination and diffusion coefficients of PEGylated ionic liquid and lithium salt blends: A molecular dynamics simulation study. Journal of Molecular Liquids, 2021, 331, 115694.	4.9	9
44	Particle simulation of plasmons. Nanophotonics, 2020, 9, 3303-3313.	6.0	9
45	Electron dynamics in plasmons. Nanoscale, 2021, 13, 2801-2810.	5.6	7
46	Unveiling atom-photon quasi-bound states in hybrid plasmonic-photonic cavity. Nanophotonics, 2022, 11, 3307-3317.	6.0	7
47	Control of Plexcitonic Strong Coupling via Substrateâ€Mediated Hotspot Nanoengineering. Advanced Optical Materials, 2022, 10, .	7.3	6
48	Highly efficient tunable and localized on-chip electrical plasmon source using protruded metal-insulator-metal structure. Optics Express, 2016, 24, 10663.	3.4	5
49	Nanoparticle loading effects on the broadband absorption for plasmonic-metal@semiconductor-microsphere photocatalyst. Catalysis Today, 2016, 278, 312-318.	4.4	4
50	Frequency conversion in nano-waveguides using bound-state-in-continuum. Optics Letters, 2021, 46, 242.	3.3	4
51	Suppressing decoherence in quantum plasmonic systems by the spectral-hole-burning effect. Physical Review A, 2021, 103, .	2.5	3
52	Enhanced photon emission from free electron excitation of a nanowell. APL Photonics, 2021, 6, .	5.7	3
53	Optical signatures of Mott-superfluid transition in nitrogen-vacancy centers coupled to photonic crystal cavities. Optics Letters, 2019, 44, 2081.	3.3	3
54	Empowering magnetic strong coupling and its application for nonlinear refractive index sensing. Nano Research, 2022, 15, 7604-7613.	10.4	3

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55	Helmholtz decomposition analysis of electron energy loss: differentiating resonances on polarization and radiation eigenmodes. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1472.	2.1	2
56	Plasmonic Responses in Metal Nanoslit Array Fabricated by Interference Lithography. Journal of Molecular and Engineering Materials, 2016, 04, 1640007.	1.8	1
57	Interference induced periodic oscillation of convolutional-surface-plasmon resonance for a metal nanoparticle encapsulated by a dielectric microsphere. Journal of Optics (United Kingdom), 2016, 18, 075010.	2.2	1
58	Quantum plasmonics: new opportunity in fundamental and applied photonics: publisherâ€™s note. Advances in Optics and Photonics, 2018, 10, 939.	25.5	1
59	Optical signatures of Mott-superfluid transition in nitrogen-vacancy centers coupled to photonic crystal cavities: publisherâ€™s note. Optics Letters, 2020, 45, 665.	3.3	0
60	Plasmon-Enhanced Resonant Photoemission from Metal Surfaces Coated with Ultrathin Dielectric. , 2021, , .		0
61	Revealing Electron Spill-Out in Plasmonic Nanostructures Using Particle Simulation. , 2020, , .		0
62	Particle-in-Cell Simulation of Plasmons. , 2020, , .		0