

Lin Wu

List of Publications by Year in descending order

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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	Plexcitonic strong coupling: unique features, applications, and challenges. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 203002.	2.8	31
2	Unveiling atom-photon quasi-bound states in hybrid plasmonic-photonic cavity. <i>Nanophotonics</i> , 2022, 11, 3307-3317.	6.0	7
3	Empowering magnetic strong coupling and its application for nonlinear refractive index sensing. <i>Nano Research</i> , 2022, 15, 7604-7613.	10.4	3
4	Control of Plexcitonic Strong Coupling via Substrate-Mediated Hotspot Nanoengineering. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	6
5	Frequency conversion in nano-waveguides using bound-state-in-continuum. <i>Optics Letters</i> , 2021, 46, 242.	3.3	4
6	Electron dynamics in plasmons. <i>Nanoscale</i> , 2021, 13, 2801-2810.	5.6	7
7	Room-temperature plexcitonic strong coupling: Ultrafast dynamics for quantum applications. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	21
8	Suppressing decoherence in quantum plasmonic systems by the spectral-hole-burning effect. <i>Physical Review A</i> , 2021, 103, .	2.5	3
9	Lithium coordination and diffusion coefficients of PEGylated ionic liquid and lithium salt blends: A molecular dynamics simulation study. <i>Journal of Molecular Liquids</i> , 2021, 331, 115694.	4.9	9
10	Integrating lattice and gap plasmonic modes to construct dual-mode metasurfaces for enhancing light-matter interaction. <i>Science China Materials</i> , 2021, 64, 3007-3016.	6.3	14
11	Enhanced photon emission from free electron excitation of a nanowell. <i>APL Photonics</i> , 2021, 6, .	5.7	3
12	Ultrasensitive Optical Temperature Transducers Based on Surface Plasmon Resonance Enhanced Compositd Goos-Hänchen and Imbert-Fedorov Shifts. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8.	2.9	21
13	Steering Room-Temperature Plexcitonic Strong Coupling: A Dixcitonic Perspective. <i>Nano Letters</i> , 2021, 21, 8979-8986.	9.1	41
14	Plasmon-Enhanced Resonant Photoemission from Metal Surfaces Coated with Ultrathin Dielectric. , 2021, , .		0
15	Ultrastrong coupling in single plexcitonic nanocubes. <i>Nanophotonics</i> , 2020, 9, 257-266.	6.0	19
16	Reconfigurable Photon Sources Based on Quantum Plexcitonic Systems. <i>Nano Letters</i> , 2020, 20, 4645-4652.	9.1	16
17	Plasmon-Enhanced Resonant Photoemission Using Atomically Thick Dielectric Coatings. <i>ACS Nano</i> , 2020, 14, 8806-8815.	14.6	27
18	Particle simulation of plasmons. <i>Nanophotonics</i> , 2020, 9, 3303-3313.	6.0	9

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19	Optical signatures of Mott-superfluid transition in nitrogen-vacancy centers coupled to photonic crystal cavities: publisher's note. Optics Letters, 2020, 45, 665.	3.3	0
20	Revealing Electron Spill-Out in Plasmonic Nanostructures Using Particle Simulation. , 2020, , .		0
21	Particle-in-Cell Simulation of Plasmons. , 2020, , .		0
22	Surface Exciton Polaritons: A Promising Mechanism for Refractive-Index Sensing. Physical Review Applied, 2019, 12, .	3.8	33
23	Quantum Plasmonic Immunoassay Sensing. Nano Letters, 2019, 19, 5853-5861.	9.1	55
24	Surface Plasmon Enhanced Light Scattering Biosensing: Size Dependence on the Gold Nanoparticle Tag. Sensors, 2019, 19, 323.	3.8	15
25	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
26	Quantum plasmonics get applied. Progress in Quantum Electronics, 2019, 65, 1-20.	7.0	70
27	Compounding Plasmon-Exciton Strong Coupling System with Gold Nanofilm to Boost Rabi Splitting. Nanomaterials, 2019, 9, 564.	4.1	12
28	Optical Refractive Index Sensors with Plasmonic and Photonic Structures: Promising and Inconvenient Truth. Advanced Optical Materials, 2019, 7, 1801433.	7.3	303
29	MoS_2 -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
30	Two-dimensional transition metal dichalcogenides mediated long range surface plasmon resonance biosensors. Journal Physics D: Applied Physics, 2019, 52, 065101.	2.8	62
31	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
32	Optical signatures of Mott-superfluid transition in nitrogen-vacancy centers coupled to photonic crystal cavities. Optics Letters, 2019, 44, 2081.	3.3	3
33	Quantum plasmonics: new opportunity in fundamental and applied photonics. Advances in Optics and Photonics, 2018, 10, 703.	25.5	105
34	Quantum plasmonics: new opportunity in fundamental and applied photonics: publisher's note. Advances in Optics and Photonics, 2018, 10, 939.	25.5	1
35	Ultrasensitive Detection of Cancer Prognostic miRNA Biomarkers Based on Surface Plasmon Enhanced Light Scattering. ACS Sensors, 2017, 2, 635-640.	7.8	41
36	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

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37	Plasmonic Responses in Metal Nanoslit Array Fabricated by Interference Lithography. <i>Journal of Molecular and Engineering Materials</i> , 2016, 04, 1640007.	1.8	1
38	Investigation of plasmonic signal enhancement based on long range surface plasmon resonance with gold nanoparticle tags. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9897-9904.	5.5	26
39	Highly efficient tunable and localized on-chip electrical plasmon source using protruded metal-insulator-metal structure. <i>Optics Express</i> , 2016, 24, 10663.	3.4	5
40	Charge transfer plasmon resonances across silver-molecule-silver junctions: estimating the terahertz conductance of molecules at near-infrared frequencies. <i>RSC Advances</i> , 2016, 6, 70884-70894.	3.6	17
41	Exploiting Surface-Plasmon-Enhanced Light Scattering for the Design of Ultrasensitive Biosensing Modality. <i>Analytical Chemistry</i> , 2016, 88, 11924-11930.	6.5	26
42	Interference induced periodic oscillation of convolutional-surface-plasmon resonance for a metal nanoparticle encapsulated by a dielectric microsphere. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 075010.	2.2	1
43	On-chip molecular electronic plasmon sources based on self-assembled monolayer tunnel junctions. <i>Nature Photonics</i> , 2016, 10, 274-280.	31.4	110
44	Nanoparticle loading effects on the broadband absorption for plasmonic-metal@semiconductor-microsphere photocatalyst. <i>Catalysis Today</i> , 2016, 278, 312-318.	4.4	4
45	Directional fluorescence emission co-enhanced by localized and propagating surface plasmons for biosensing. <i>Nanoscale</i> , 2016, 8, 8008-8016.	5.6	31
46	Stabilization of 4H hexagonal phase in gold nanoribbons. <i>Nature Communications</i> , 2015, 6, 7684.	12.8	215
47	Imprinted gold 2D nanoarray for highly sensitive and convenient PSA detection via plasmon excited quantum dots. <i>Lab on A Chip</i> , 2015, 15, 253-263.	6.0	43
48	Plasmonic Metals for Nanohole-Array Surface Plasmon Field-Enhanced Fluorescence Spectroscopy Biosensing. <i>Plasmonics</i> , 2014, 9, 825-833.	3.4	14
49	Development of Localized Surface Plasmon Resonance-Based Point-of-Care System. <i>Plasmonics</i> , 2014, 9, 835-844.	3.4	15
50	Quantum Plasmon Resonances Controlled by Molecular Tunnel Junctions. <i>Science</i> , 2014, 343, 1496-1499.	12.6	388
51	Interference-Induced Broadband Absorption Enhancement for Plasmonic-Metal@Semiconductor Microsphere as Visible Light Photocatalyst. <i>ACS Catalysis</i> , 2014, 4, 4269-4276.	11.2	27
52	Glass transition, viscosity, and conductivity correlations in solutions of lithium salts in PEGylated imidazolium ionic liquids. <i>Journal of Molecular Liquids</i> , 2014, 198, 398-408.	4.9	11
53	Interfacial Characteristics of a PEGylated Imidazolium Bistriflamide Ionic Liquid Electrolyte at a Lithium Ion Battery Cathode of LiMn_2O_4 . <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2075-2084.	8.0	14
54	High throughput and high yield nanofabrication of precisely designed gold nanohole arrays for fluorescence enhanced detection of biomarkers. <i>Lab on A Chip</i> , 2013, 13, 2405.	6.0	37

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55	Synthesis of Anisotropic Concave Gold Nanocuboids with Distinctive Plasmonic Properties. <i>Chemistry of Materials</i> , 2013, 25, 2470-2475.	6.7	61
56	Incident-angle dependence of fluorescence enhancement and biomarker immunoassay on gold nanohole array. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 205-211.	7.8	19
57	Fowlerâ€œNordheim Tunneling Induced Charge Transfer Plasmons between Nearly Touching Nanoparticles. <i>ACS Nano</i> , 2013, 7, 707-716.	14.6	114
58	Designing surface plasmon resonance of subwavelength hole arrays by studying absorption. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 521.	2.1	28
59	Optical Properties of Chiral Three-Dimensional Plasmonic Oligomers at the Onset of Charge-Transfer Plasmons. <i>ACS Nano</i> , 2012, 6, 10355-10365.	14.6	103
60	Carboxybetaine, sulfobetaine, and cationic block copolymer coatings: A comparison of the surface properties and antibiofouling behavior. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2154-2170.	2.6	65
61	Ionic liquids with fluorinated block-oligomer tails: Influence of self-assembly on transport properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 19275.	6.7	30
62	Highly sensitive graphene biosensors based on surface plasmon resonance. <i>Optics Express</i> , 2010, 18, 14395.	3.4	799