Dang Y Lei

List of Publications by Citations

176 papers	6,649 citations	49 h-index	74 g-index
197 ext. papers	8,367 ext. citations	9.9 avg, IF	6.27 L-index

#	Paper	IF	Citations
176	Plasmonic light-harvesting devices over the whole visible spectrum. *Nano Letters*, **2010**, 10, 2574-9	11.5	311
175	Band-Gap Modulation in Single Bi3+-Doped Yttrium Scandium Niobium Vanadates for Color Tuning over the Whole Visible Spectrum. *Chemistry of Materials*, **2016**, 28, 2692-2703	9.6	202
174	Regulating Surface Termination for Efficient Inverted Perovskite Solar Cells with Greater Than 23% Efficiency. *Journal of the American Chemical Society*, **2020**, 142, 20134-20142	16.4	185
173	Hybrid nanoparticle-microcavity-based plasmonic nanosensors with improved detection resolution and extended remote-sensing ability. *Nature Communications*, **2012**, 3, 1108	17.4	184
172	Role of defects in the phase transition of VO2 nanoparticles probed by plasmon resonance spectroscopy. *Nano Letters*, **2012**, 12, 780-6	11.5	165
171	Hierarchical porous plasmonic metamaterials for reproducible ultrasensitive surface-enhanced Raman spectroscopy. *Advanced Materials*, **2015**, 27, 1090-6	24	162
170	Revealing plasmonic gap modes in particle-on-film systems using dark-field spectroscopy. *ACS Nano* , **2012**, 6, 1380-6	16.7	150
169	Modulation of Defects and Interfaces through Alkylammonium Interlayer for Efficient Inverted Perovskite Solar Cells. *Joule*, **2020**, 4, 1248-1262	27.8	143
168	Subgroup decomposition of plasmonic resonances in hybrid oligomers: modeling the resonance lineshape. *Nano Letters*, **2012**, 12, 2101-6	11.5	136
167	Polarization-Independent Multiple Fano Resonances in Plasmonic Nonamers for Multimode-Matching Enhanced Multiband Second-Harmonic Generation. *ACS Nano*, **2016**, 10, 1442-53	16.7	111
166	Plasmonic enhancement and polarization dependence of nonlinear upconversion emissions from single gold nanorod@SiO@CaF:Yb,Er hybrid core-shell-satellite nanostructures. *Light: Science and Applications*, **2017**, 6, e16217	16.7	110
165	Plasmonic Fano resonances in nanohole quadrumers for ultra-sensitive refractive index sensing. *Nanoscale*, **2014**, 6, 4705-15	7.7	108
164	Nonlinear optics in plasmonic nanostructures. *Journal of Optics (United Kingdom)*, **2018**, 20, 083001	1.7	103
163	Interaction between plasmonic nanoparticles revisited with transformation optics. *Physical Review Letters*, **2010**, 105, 233901	7.4	101
162	Recoverable and Unrecoverable Bi3+-Related Photoemissions Induced by Thermal Expansion and Contraction in LuVO4:Bi3+ and ScVO4:Bi3+ Compounds. *Chemistry of Materials*, **2016**, 28, 7807-7815	9.6	100
161	Theoretical realization of an ultra-efficient thermal-energy harvesting cell made of natural materials. *Energy and Environmental Science*, **2013**, 6, 3537	35.4	99
160	Pronounced Fano Resonance in Single Gold Split Nanodisks with 15 nm Split Gaps for Intensive Second Harmonic Generation. *ACS Nano*, **2016**, 10, 11105-11114	16.7	96

159	Effects of surface roughness of Ag thin films on surface-enhanced Raman spectroscopy of graphene: spatial nonlocality and physisorption strain. *Nanoscale*, **2014**, 6, 1311-7	7.7	90
158	Plasmonic Dual-Enhancement and Precise Color Tuning of Gold Nanorod@SiO2 Coupled Core□Shell□Shell Upconversion Nanocrystals. *Advanced Functional Materials*, **2017**, 27, 1701842	15.6	87
157	Plasmonic particle-on-film nanocavities: a versatile platform for plasmon-enhanced spectroscopy and photochemistry. *Nanophotonics*, **2018**, 7, 1865-1889	6.3	86
156	Optically-Triggered Nanoscale Memory Effect in a Hybrid Plasmonic-Phase Changing Nanostructure. *ACS Photonics*, **2015**, 2, 1306-1313	6.3	84
155	Metal-Substrate-Mediated Plasmon Hybridization in a Nanoparticle Dimer for Photoluminescence Line-Width Shrinking and Intensity Enhancement. *ACS Nano*, **2017**, 11, 3067-3080	16.7	81
154	Plasmonic hybridization between nanowires and a metallic surface: a transformation optics approach. *ACS Nano*, **2011**, 5, 3293-308	16.7	78
153	Searching for magnetism in pyrrolic N-doped graphene synthesized via hydrothermal reaction. *Carbon*, **2015**, 84, 460-468	10.4	75
152	Bifunctional Au@Pt core-shell nanostructures for in situ monitoring of catalytic reactions by surface-enhanced Raman scattering spectroscopy. *Nanoscale*, **2014**, 6, 9063-70	7.7	74
151	3D Metaphotonic Nanostructures with Intrinsic Chirality. *Advanced Functional Materials*, **2018**, 28, 1803147	15.6	73
150	Stable and low-photovoltage-loss perovskite solar cells by multifunctional passivation. *Nature Photonics*, **2021**, 15, 681-689	33.9	72
149	Emission color tuning through manipulating the energy transfer from VO43□ to Eu3+ in single-phased LuVO4:Eu3+ phosphors. *Journal of Materials Chemistry C*, **2017**, 5, 390-398	7.1	69
148	Broadband light harvesting nanostructures robust to edge bluntness. *Physical Review Letters*, **2012**, 108, 023901	7.4	68
147	Strain engineering of 2D semiconductors and graphene: from strain fields to band-structure tuning and photonic applications. *Light: Science and Applications*, **2020**, 9, 190	16.7	68
146	Creating an Eco-Friendly Building Coating with Smart Subambient Radiative Cooling. *Advanced Materials*, **2020**, 32, e1906751	24	68
145	Water-resistant perovskite nanodots enable robust two-photon lasing in aqueous environment. *Nature Communications*, **2020**, 11, 1192	17.4	65
144	2H/1T Phase Transition of Multilayer MoS2 by Electrochemical Incorporation of S Vacancies. *ACS Applied Energy Materials*, **2018**, 1, 4754-4765	6.1	65
143	Broadband nano-focusing of light using kissing nanowires. *New Journal of Physics*, **2010**, 12, 093030	2.9	63
142	A Novel Hybrid-Layered Organic Phototransistor Enables Efficient Intermolecular Charge Transfer and Carrier Transport for Ultrasensitive Photodetection. *Advanced Materials*, **2019**, 31, e1900763	24	61

141	Full-Parameter Omnidirectional Thermal Metadevices of Anisotropic Geometry. *Advanced Materials* , **2018**, 30, e1804019	24	61
140	Experimental Realization of Extreme Heat Flux Concentration with Easy-to-Make Thermal Metamaterials. *Scientific Reports*, **2015**, 5, 11552	4.9	60
139	Room-Temperature Meniscus Coating of >20% Perovskite Solar Cells: A Film Formation Mechanism Investigation. *Advanced Functional Materials*, **2019**, 29, 1900092	15.6	59
138	Enhanced high-order-harmonic generation in a carbon ablation plume. *Physical Review A*, **2012**, 85,	2.6	59
137	Broadband plasmonic device concentrating the energy at the nanoscale: The crescent-shaped cylinder. *Physical Review B*, **2010**, 82,	3.3	58
136	High-order harmonic generation in graphite plasma plumes using ultrashort laser pulses: a systematic analysis of harmonic radiation and plasma conditions. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2012**, 45, 165402	1.3	57
135	Single-particle plasmon resonance spectroscopy of phase transition in vanadium dioxide. *Optics Letters*, **2010**, 35, 3988-90	3	57
134	Interband Absorption Enhanced Optical Activity in Discrete Au@Ag Core-Shell Nanocuboids: Probing Extended Helical Conformation of Chemisorbed Cysteine Molecules. *Angewandte Chemie - International Edition*, **2017**, 56, 1283-1288	16.4	56
133	Simultaneous excitation and emission enhancements in upconversion luminescence using plasmonic double-resonant gold nanorods. *Scientific Reports*, **2015**, 5, 15235	4.9	55
132	Electron Transport Across Plasmonic Molecular Nanogaps Interrogated with Surface-Enhanced Raman Scattering. *ACS Nano*, **2018**, 12, 6492-6503	16.7	52
131	Hybrid plasmonic gap modes in metal film-coupled dimers and their physical origins revealed by polarization resolved dark field spectroscopy. *Nanoscale*, **2016**, 8, 7119-26	7.7	51
130	Geometry dependence of surface plasmon polariton lifetimes in nanohole arrays. *ACS Nano*, **2010**, 4, 432-8	16.7	51
129	Tunable surface plasmon mediated emission from semiconductors by using metal alloys. *Applied Physics Letters*, **2007**, 91, 021112	3.4	50
128	Panchromatic thin perovskite solar cells with broadband plasmonic absorption enhancement and efficient light scattering management by Au@Ag core-shell nanocuboids. *Nano Energy*, **2017**, 41, 654-664	17.1	49
127	In situ SERS monitoring of photocatalytic organic decomposition using recyclable TiO2-coated Ag nanowire arrays. *Applied Surface Science*, **2014**, 301, 351-357	6.7	47
126	Distance control in-between plasmonic nanoparticles via biological and polymeric spacers. *Nano Today*, **2013**, 8, 480-493	17.9	47
125	Plasmonic interaction between overlapping nanowires. *ACS Nano*, **2011**, 5, 597-607	16.7	47
124	Unveiling the correlation between nanometer-thick molecular monolayer sensitivity and near-field enhancement and localization in coupled plasmonic oligomers. *ACS Nano*, **2014**, 8, 9188-98	16.7	45

123	Mapping plasmonic near-field profiles and interferences by surface-enhanced Raman scattering. *Scientific Reports*, **2013**, 3, 3064	4.9	45
122	Covalent functionalization of MoS nanosheets synthesized by liquid phase exfoliation to construct electrochemical sensors for Cd (II) detection. *Talanta*, **2018**, 182, 38-48	6.2	42
121	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. *Angewandte Chemie - International Edition*, **2021**, 60, 7227-7233	16.4	42
120	Ultrabroadband Optical Superchirality in a 3D Stacked-Patch Plasmonic Metamaterial Designed by Two-Step Glancing Angle Deposition. *Advanced Functional Materials*, **2016**, 26, 7807-7816	15.6	40
119	Quantitative SERS detection of low-concentration aromatic polychlorinated biphenyl-77 and 2,4,6-trinitrotoluene. *Journal of Hazardous Materials*, **2014**, 280, 706-12	12.8	36
118	Plasmonic Au/TiO2-Dumbbell-On-Film Nanocavities for High-Efficiency Hot-Carrier Generation and Extraction. *Advanced Functional Materials*, **2018**, 28, 1800383	15.6	35
117	Conformal transformation applied to plasmonics beyond the quasistatic limit. *Physical Review B*, **2010**, 82,	3.3	35
116	Excitonic quantum confinement modified optical conductivity of monolayer and few-layered MoS2. *Journal of Materials Chemistry C*, **2016**, 4, 8822-8828	7.1	35
115	Maximizing surface-enhanced Raman scattering sensitivity of surfactant-free Ag-Fe3O4 nanocomposites through optimization of silver nanoparticle density and magnetic self-assembly. *Journal of Applied Physics*, **2013**, 114, 124305	2.5	34
114	Numerical simulation of attosecond nanoplasmonic streaking. *New Journal of Physics*, **2011**, 13, 083003	2.9	34
113	Enhanced forward emission from ZnO via surface plasmons. *Applied Physics Letters*, **2007**, 91, 211107	3.4	34
112	Two-dimensional layered nanomaterials for visible-light-driven photocatalytic water splitting. *Materials Today Energy*, **2018**, 10, 352-367	7	34
111	Ablation of nanoparticles and efficient harmonic generation using a 1-kHz laser. *Physical Review A*, **2013**, 88,	2.6	33
110	Solution-processable reduced graphene oxide films as broadband terahertz wave impedance matching layers. *Journal of Materials Chemistry C*, **2015**, 3, 2548-2556	7.1	33
109	Mechanistic Understanding of Excitation-Correlated Nonlinear Optical Properties in MoS2 Nanosheets and Nanodots: The Role of Exciton Resonance. *ACS Photonics*, **2016**, 3, 2434-2444	6.3	31
108	Ultrafast Light-Controlled Growth of Silver Nanoparticles for Direct Plasmonic Color Printing. *ACS Nano*, **2018**, 12, 9913-9921	16.7	31
107	Defining Deep-Subwavelength-Resolution, Wide-Color-Gamut, and Large-Viewing-Angle Flexible Subtractive Colors with an Ultrathin Asymmetric Fabry–Perot Lossy Cavity. *Advanced Optical Materials*, **2019**, 7, 1900646	8.1	31
106	Probing the in-Plane Near-Field Enhancement Limit in a Plasmonic Particle-on-Film Nanocavity with Surface-Enhanced Raman Spectroscopy of Graphene. *ACS Nano*, **2019**, 13, 7644-7654	16.7	30

105	Transformation-optics description of plasmonic nanostructures containing blunt edges/corners: from symmetric to asymmetric edge rounding. *ACS Nano*, **2012**, 6, 6492-506	16.7	30
104	Directional excitation of surface plasmon polaritons via nanoslits under varied incidence observed using leakage radiation microscopy. *Optics Express*, **2012**, 20, 4893-902	3.3	30
103	Dependence of surface plasmon lifetimes on the hole size in two-dimensional metallic arrays. *Applied Physics Letters*, **2009**, 94, 183112	3.4	30
102	Beyond the hybridization effects in plasmonic nanoclusters: diffraction-induced enhanced absorption and scattering. *Small*, **2014**, 10, 576-83	11	29
101	In situ and room-temperature synthesis of ultra-long Ag nanoparticles-decorated Ag molybdate nanowires as high-sensitivity SERS substrates. *Applied Surface Science*, **2013**, 287, 404-410	6.7	28
100	Thermal and Nonthermal Effects in Plasmon-Mediated Electrochemistry at Nanostructured Ag Electrodes. *Angewandte Chemie - International Edition*, **2020**, 59, 6790-6793	16.4	27
99	Vertically-Aligned Single-Crystal Nanocone Arrays: Controlled Fabrication and Enhanced Field Emission. *ACS Applied Materials & Interfaces*, **2016**, 8, 472-9	9.5	27
98	Ultrahigh refractive index sensing performance of plasmonic quadrupole resonances in gold nanoparticles. *Nanoscale Research Letters*, **2014**, 9, 187	5	27
97	Thermal Redistribution of Exciton Population in Monolayer Transition Metal Dichalcogenides Probed with Plasmon□Exciton Coupling Spectroscopy. *ACS Photonics*, **2019**, 6, 411-421	6.3	25
96	Epitaxial VO2 Nanostructures: A Route to Large-Scale, Switchable Dielectric Metasurfaces. *ACS Photonics*, **2018**, 5, 2561-2567	6.3	25
95	A comprehensive comparison study on the vibrational and optical properties of CVD-grown and mechanically exfoliated few-layered WS2. *Journal of Materials Chemistry C*, **2017**, 5, 11239-11245	7.1	24
94	Chiral Coupling of Valley Excitons and Light through Photonic Spin□Orbit Interactions. *Advanced Optical Materials*, **2020**, 8, 1901233	8.1	24
93	Omnidirectional absorption enhancement of symmetry-broken crescent-deformed single-nanowire photovoltaic cells. *Nano Energy*, **2015**, 13, 9-17	17.1	23
92	Efficient energy exchange between plasmon and cavity modes via Rabi-analogue splitting in a hybrid plasmonic nanocavity. *Nanoscale*, **2013**, 5, 9129-33	7.7	23
91	Comparison of high-order harmonic generation in uracil and thymine ablation plumes. *Physical Chemistry Chemical Physics*, **2013**, 15, 12308-13	3.6	23
90	Chirality Transfer from Sub-Nanometer Biochemical Molecules to Sub-Micrometer Plasmonic Metastructures: Physiochemical Mechanisms, Biosensing, and Bioimaging Opportunities. *Advanced Materials*, **2020**, 32, e1907151	24	23
89	Perturbative countersurveillance metaoptics with compound nanosieves. *Light: Science and Applications*, **2019**, 8, 101	16.7	23
88	Photoluminescence enhancement in few-layer WS2 films via Au nanoparticles. *AIP Advances*, **2015**, 5, 067148	1.5	22

87	Strong competition between electromagnetic enhancement and surface-energy-transfer induced quenching in plasmonic dye-sensitized solar cells: A generic yet controllable effect. *Nano Energy*, **2016**, 26, 297-304	17.1	22
86	Temporal broadening of attosecond photoelectron wavepackets from solid surfaces. *Optica*, **2015**, 2, 383	8.6	21
85	Two-Dimensional Antiferroelectricity in Nanostripe-Ordered In_{2}Se_{3}. *Physical Review Letters*, **2020**, 125, 047601	7.4	21
84	Interband Absorption Enhanced Optical Activity in Discrete Au@Ag Core–Shell Nanocuboids: Probing Extended Helical Conformation of Chemisorbed Cysteine Molecules. *Angewandte Chemie*, **2017**, 129, 1303-1308	3.6	20
83	Plasmonic Black Absorbers for Enhanced Photocurrent of Visible-Light Photocatalysis. *Advanced Optical Materials*, **2017**, 5, 1600399	8.1	20
82	Transition metal dichalcogenide-based mixed-dimensional heterostructures for visible-light-driven photocatalysis: Dimensionality and interface engineering. *Nano Research*, **2021**, 14, 2003-2022	10	20
81	Plasmon-Enhanced Blue Upconversion Luminescence by Indium Nanocrystals. *Advanced Functional Materials*, **2019**, 29, 1901242	15.6	19
80	Topology Optimization-Based Inverse Design of Plasmonic Nanodimer with Maximum Near-Field Enhancement. *Advanced Functional Materials*, **2020**, 30, 2000642	15.6	19
79	Plasmon gap mode-assisted third-harmonic generation from metal film-coupled nanowires. *Applied Physics Letters*, **2014**, 104, 261105	3.4	19
78	Highly Ordered Ag/Cu Hybrid Nanostructure Arrays for Ultrasensitive Surface-Enhanced Raman Spectroscopy. *Advanced Materials Interfaces*, **2016**, 3, 1600115	4.6	19
77	All-Dielectric Synthetic-Phase Metasurfaces Generating Practical Airy Beams. *ACS Nano*, **2021**, 15, 1030-1038	15.8	18
76	Clam-inspired nanoparticle immobilization method using adhesive tape as microchip substrate. *Sensors and Actuators B: Chemical*, **2016**, 222, 106-111	8.5	17
75	Geometric modulation of induced plasmonic circular dichroism in nanoparticle assemblies based on backaction and field enhancement. *Nanoscale*, **2018**, 10, 19684-19691	7.7	17
74	Polarization-resolved optical response of plasmonic particle-on-film nanocavities. *Journal of Optics (United Kingdom)*, **2018**, 20, 024010	1.7	16
73	Grating-coupled Otto configuration for hybridized surface phonon polariton excitation for local refractive index sensitivity enhancement. *Optics Express*, **2016**, 24, 19517-30	3.3	16
72	Shaping the Emission Spectral Profile of Quantum Dots with Periodic Dielectric and Metallic Nanostructures. *Advanced Optical Materials*, **2014**, 2, 56-64	8.1	16
71	Light-induced symmetry breaking for enhancing second-harmonic generation from an ultrathin plasmonic nanocavity. *Nature Communications*, **2021**, 12, 4326	17.4	16
70	Quantitative Determination of Contribution by Enhanced Local Electric Field, Antenna-Amplified Light Scattering, and Surface Energy Transfer to the Performance of Plasmonic Organic Solar Cells. *Small*, **2018**, 14, e1800870	11	16

69	Three-dimensional visible-light capsule enclosing perfect supersized darkness via antiresolution. *Laser and Photonics Reviews*, **2014**, 8, 743-749	8.3	15
68	Polarization-independent highly efficient generation of Airy optical beams with dielectric metasurfaces. *Photonics Research*, **2020**, 8, 1148	6	15
67	Plasmon-Induced Optical Magnetism in an Ultrathin Metal Nanosphere-Based Dimer-on-Film Nanocavity. *Laser and Photonics Reviews*, **2020**, 14, 2000068	8.3	14
66	Two-dimensional ferroelasticity in van der Waals β-InSe. *Nature Communications*, **2021**, 12, 3665	17.4	14
65	Infrared Photodetectors Based on 2D Materials and Nanophotonics. *Advanced Functional Materials*,2111970	19.0	14
64	Multiplane Illumination Enabled by Fourier-Transform Metasurfaces for High-Speed Light-Sheet Microscopy. *ACS Photonics*, **2018**, 5, 1676-1684	6.3	13
63	Scanning Nanowelding Lithography for Rewritable One-Step Patterning of Sub-50 nm High-Aspect-Ratio Metal Nanostructures. *Advanced Materials*, **2018**, 30, e1801772	24	13
62	Probing Conformation Change and Binding Mode of Metal Ion-Carboxyl Coordination Complex through Resonant Surface-Enhanced Raman Spectroscopy and Density Functional Theory. *Journal of Physical Chemistry Letters*, **2019**, 10, 4692-4698	6.4	13
61	Enhanced Photoresponsivity of a Germanium Single-Nanowire Photodetector Confined within a Superwavelength Metallic Slit. *ACS Photonics*, **2014**, 1, 483-488	6.3	13
60	Direct observation of nanoparticle-surfactant assembly and jamming at the water-oil interface. *Science Advances*, **2020**, 6,	14.3	13
59	Synergistical Dipole-Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2021**, 60, 20437-20442	16.4	13
58	The role of oxygen defects in a bismuth doped ScVO4 matrix: tuning luminescence by hydrogen treatment. *Journal of Materials Chemistry C*, **2017**, 5, 314-321	7.1	12
57	Phase-controlled metasurface design via optimized genetic algorithm. *Nanophotonics*, **2020**, 9, 3931-3939	6.3	12
56	Improving electrocatalytic activity of 2H-MoS2 nanosheets obtained by liquid phase exfoliation: Covalent surface modification versus interlayer interaction. *Journal of Catalysis*, **2020**, 391, 424-434	7.3	12
55	Enhanced Photoelectrical Response of Hydrogenated Amorphous Silicon Single-Nanowire Solar Cells by Front-Opening Crescent Design. *Nanoscale Research Letters*, **2016**, 11, 233	5	11
54	Surface plasmonic spectroscopy revealing the oxidation dynamics of copper nanowires embedded in polycarbonate ion-track templates. *Journal of Materials Chemistry C*, **2016**, 4, 3956-3962	7.1	11
53	Dynamic tuning of enhanced intrinsic circular dichroism in plasmonic stereo-metamolecule array with surface lattice resonance. *Nanophotonics*, **2020**, 9, 3419-3434	6.3	11
52	Influence of Plasmonic Effect on the Upconversion Emission Characteristics of NaYF Hexagonal Microrods. *Inorganic Chemistry*, **2018**, 57, 8200-8204	5.1	11

51	Effects of gap thickness and emitter location on the photoluminescence enhancement of monolayer MoS2 in a plasmonic nanoparticle-film coupled system. *Nanophotonics*, **2020**, 9, 2097-2105	6.3	10
50	Recent Advances in Clusteroluminescence. *Topics in Current Chemistry*, **2021**, 379, 14	7.2	10
49	Tight-binding modeling of excitonic response in van der Waals stacked 2D semiconductors. *Nanoscale Horizons*, **2019**, 4, 969-974	10.8	9
48	Radial anisotropy from a geometric viewpoint: Topological singularity and effective medium realization. *Physical Review B*, **2017**, 96,	3.3	9
47	Enhancing plasmonic hot-carrier generation by strong coupling of multiple resonant modes. *Nanoscale*, **2021**, 13, 2792-2800	7.7	9
46	Electron Energy-Loss Spectroscopy of Spatial Nonlocality and Quantum Tunneling Effects in the Bright and Dark Plasmon Modes of Gold Nanosphere Dimers. *Advanced Quantum Technologies*, **2018**, 1, 1800016	4.3	8
45	Numerical and analytical evaluations of the sensing sensitivity of waveguide mode in one-dimensional metallic gratings. *Nanotechnology*, **2012**, 23, 275501	3.4	8
44	Restoring the silenced surface second-harmonic generation in split-ring resonators by magnetic and electric mode matching. *Optics Express*, **2019**, 27, 26377-26391	3.3	8
43	A Flexible Plasmonic-Membrane-Enhanced Broadband Tin-Based Perovskite Photodetector. *Nano Letters*, **2021**, 21, 9195-9202	11.5	8
42	Use of Dielectric Metasurfaces to Generate Deep-Subwavelength Nondiffractive Bessel-Like Beams with Arbitrary Trajectories and Ultralarge Deflection. *Laser and Photonics Reviews*, **2021**, 15, 2000487	8.3	8
41	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridine-Based Dopant-Free Polymer Semiconductor. *Angewandte Chemie*, **2021**, 133, 7303-7309	3.6	8
40	Highly efficient and stable perovskite solar cells enabled by a fluoro-functionalized TiO2 inorganic interlayer. *Matter*, **2021**,	12.7	8
39	Interfacial Control of ZnO Microrod for Whispering Gallery Mode Lasing. *ACS Photonics*, **2018**, 5, 2313-2319	6.9	7
38	High-efficiency, large-area lattice light-sheet generation by dielectric metasurfaces. *Nanophotonics*, **2020**, 9, 4043-4051	6.3	7
37	Extended homogeneous nanoripple formation during interaction of high-intensity few-cycle pulses with a moving silicon wafer. *Applied Physics A: Materials Science and Processing*, **2013**, 112, 457-462	2.6	6
36	Spectroscopic ellipsometry as an optical probe of strain evolution in ferroelectric thin films. *Optics Express*, **2012**, 20, 4419-27	3.3	6
35	Hollow Au nanorattles for boosting the performance of organic photovoltaics. *Journal of Materials Chemistry A*, **2019**, 7, 26797-26803	13	6
34	Collective Plasmon Coupling in Gold Nanoparticle Clusters for Highly Efficient Photothermal Therapy.. *ACS Nano*, **2022**,	16.7	5

33	Polymer coating with gradient-dispersed dielectric nanoparticles for enhanced daytime radiative cooling. *EcoMat*,	9.4	5
32	Strong coupling in two-dimensional materials-based nanostructures: a review. *Journal of Optics (United Kingdom)*, **2022**, 24, 024009	1.7	5
31	Ultra-rapid and highly efficient enrichment of organic pollutants via magnetic mesoporous nanosponge for ultrasensitive nanosensors. *Nature Communications*, **2021**, 12, 6849	17.4	5
30	Plasmon-induced trap filling at grain boundaries in perovskite solar cells. *Light: Science and Applications*, **2021**, 10, 219	16.7	5
29	Z-Scheme Flower-Like SnO2/g-C3N4 Composite with Sn2+ Active Center for Enhanced Visible-Light Photocatalytic Activity. *Advanced Sustainable Systems*, **2021**, 5, 2100087	5.9	5
28	Surface Plasmon Polariton Cross-Coupling Enhanced Forward Emission from Insulator-Metal-Capped ZnO Films. *ACS Applied Materials & Interfaces*, **2015**, 7, 23496-500	9.5	4
27	Mid-IR plasmonic antennas on silicon-rich oxinitride absorbing substrates: Nonlinear scaling of resonance wavelengths with antenna length. *Applied Physics Letters*, **2009**, 95, 253109	3.4	4
26	Surface plasmon mediated emission from metal/ZnO: an example for the fabrication of high brightness top-emitting light emitting diodes **2007**, 6474, 105		4
25	Mapping the Magnetic Field Intensity of Light with the Nonlinear Optical Emission of a Silicon Nanoparticle. *Nano Letters*, **2021**, 21, 2453-2460	11.5	4
24	Bandwidth-tunable THz absorber based on diagonally distributed double-sized VO disks. *Applied Optics*, **2021**, 60, 3062-3070	1.7	4
23	Experimental Demonstration of Genetic Algorithm Based Metalens Design for Generating Side-Lobe-Suppressed, Large Depth-of-Focus Light Sheet. *Laser and Photonics Reviews*, **2022**, 16, 2100425	8.3	4
22	Merging individual metal nanostructures into a superstructure for plasmon mode hybridization and electric-field nanofocusing. *Journal of Materials Chemistry C*, **2020**, 8, 9293-9302	7.1	3
21	Asymmetric Propagation of Optical Signals in Graded Plasmonic Chains. *Plasmonics*, **2011**, 6, 19-27	2.4	3
20	A Data-Mining-Assisted Design of Structural Colors on Diamond Metasurfaces. *Advanced Photonics Research*,2100292	1.9	3
19	High-Q localized surface plasmon resonance based on bound states in the continuum for enhanced refractive index sensing.. *Optics Letters*, **2022**, 47, 609-612	3	3
18	Cyanide-free preparation of gold nanowires: controlled crystallinity, crystallographic orientation and enhanced field emission. *RSC Advances*, **2015**, 5, 32103-32109	3.7	2
17	Scattering asymmetry and circular dichroism in coupled PT-symmetric chiral nanoparticles. *Nanophotonics*, **2022**,	6.3	2
16	Selective Excitation of Polarization-Steered Chiral Photoluminescence in Single Plasmonic Nanohelicoids. *Advanced Functional Materials*, **2021**, 31, 2101502	15.6	2

15	Designing plasmonic exceptional points by transformation optics. *Optics Express*, **2021**, 29, 16046-16055	3.3	2
14	Near-field nano-spectroscopy of strong mode coupling in phonon-polaritonic crystals. *Applied Physics Reviews*, **2022**, 9, 021414	17.3	2
13	Thermal and Nonthermal Effects in Plasmon-Mediated Electrochemistry at Nanostructured Ag Electrodes. *Angewandte Chemie*, **2020**, 132, 6856-6859	3.6	1
12	Synthetic Plasmonic Nanocircuits and the Evolution of Their Correlated Spatial Arrangement and Resonance Spectrum. *ACS Photonics*, **2021**, 8, 166-174	6.3	1
11	Synergistical Dipole–Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. *Angewandte Chemie*, **2021**, 133, 20600-20605	3.6	1
10	Enhanced solar water splitting using plasmon-induced resonance energy transfer and unidirectional charge carrier transport. *Optics Express*, **2021**, 29, 34810-34825	3.3	1
9	Enhanced visible and tunable infrared transmittance of W-doped VO2/SiO2/PVP composite films for smart windows. *Optical Materials*, **2021**, 121, 111485	3.3	1
8	Periodic Arrays of 3D AuNP-Capped VO 2 Shells and Their Temperature-Tunable SERS Performance. *Advanced Optical Materials*,2102615	8.1	1
7	Plasmonic Local Heating Induced Strain Modulation for Enhanced Efficiency and Stability of Perovskite Solar Cells. *Advanced Energy Materials*,2200186	21.8	1
6	Activating the Basal Planes in 2H-MoTe 2 Monolayers by Incorporating Single-Atom Dispersed N or P for Enhanced Electrocatalytic Overall Water Splitting. *Advanced Sustainable Systems*,2100515	5.9	1
5	Probing electron transport in plasmonic molecular junctions with two-photon luminescence spectroscopy. *Nanophotonics*, **2021**, 10, 2467-2479	6.3	0
4	Single Plasmonic Nanohelicoids: Selective Excitation of Polarization-Steered Chiral Photoluminescence in Single Plasmonic Nanohelicoids (Adv. Funct. Mater. 30/2021). *Advanced Functional Materials*, **2021**, 31, 2170217	15.6	0
3	Hierarchical Porous Plasmonic Nanostructures as New SERS Substrates with Ultra-High Reproducibility and Sensitivity **2018**, 161-187		
2	Spectral Shaping: Shaping the Emission Spectral Profile of Quantum Dots with Periodic Dielectric and Metallic Nanostructures (Advanced Optical Materials 1/2014). *Advanced Optical Materials*, **2014** , 2, 2-2	8.1	
1	A Data-Mining-Assisted Design of Structural Colors on Diamond Metasurfaces. *Advanced Photonics Research*, **2022**, 3, 2270008	1.9	