Alexander O Govorov

List of Publications by Year
in descending order

306	25,595	6442	7484
papers	citations	81 h-index	153 g-index

326	326	326	25625
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	DNA-based self-assembly of chiral plasmonic nanostructures with tailored optical response. Nature, 2012, 483, 311-314.	36.2	1,916
2	Generating heat with metal nanoparticles. Nano Today, 2007, 2, 30-38.	12.3	1,185
3	Experimental and Theoretical Studies of Light-to-Heat Conversion and Collective Heating Effects in Metal Nanoparticle Solutions. Nano Letters, 2009, 9, 1139-1146.	9.5	617
4	Reconfigurable 3D plasmonic metamolecules. Nature Materials, 2014, 13, 862-866.	26.6	605
5	Gold nanoparticle ensembles as heaters and actuators: melting and collective plasmon resonances. Nanoscale Research Letters, 2006, 1, 84-90.	5.9	589
6	Theory of Circular Dichroism of Nanomaterials Comprising Chiral Molecules and Nanocrystals: Plasmon Enhancement, Dipole Interactions, and Dielectric Effects. Nano Letters, 2010, 10, 1374-1382.	9.5	580
7	Circularly polarized light detection with hot electrons in chiral plasmonic metamaterials. Nature Communications, 2015, 6, 8379.	13.2	576
8	Theory of Photoinjection of Hot Plasmonic Carriers from Metal Nanostructures into Semiconductors and Surface Molecules. Journal of Physical Chemistry C, 2013, 117, 16616-16631.	3.3	521
9	Semiconductor-Metal Nanoparticle Molecules: Hybrid Excitons and the Nonlinear Fano Effect. Physical Review Letters, 2006, 97, 146804.	8.0	505
10	Excitonâ^'Plasmon Interaction and Hybrid Excitons in Semiconductorâ^'Metal Nanoparticle Assemblies. Nano Letters, 2006, 6, 984-994.	9.5	484
11	Plasmonic Circular Dichroism of Chiral Metal Nanoparticle Assemblies. Nano Letters, 2010, 10, 2580-2587.	9.5	444
12	Broadband Metamaterial Absorbers. Advanced Optical Materials, 2019, 7, 1800995.	7.9	439
13	Whatâ€™s so Hot about Electrons in Metal Nanoparticles?. ACS Energy Letters, 2017, 2, 1641-1653.	18.4	367
14	Plasmonic Circular Dichroism of Peptide-Functionalized Gold Nanoparticles. Nano Letters, 2011, 11, 701-705.	9.5	362
15	Chirality and chiroptical effects in inorganic nanocrystal systems with plasmon and exciton resonances. Chemical Society Reviews, 2013, 42, 7028.	40.3	319
16	Excitonâ€“plasmon interactions in molecular spring assemblies of nanowires and wavelength-based protein detection. Nature Materials, 2007, 6, 291-295.	26.6	316
17	Chiral plasmonic DNA nanostructures with switchable circular dichroism. Nature Communications, 2013, 4, 2948.	13.2	295
18	Photogeneration of hot plasmonic electrons with metal nanocrystals: Quantum description and potential applications. Nano Today, 2014, 9, 85-101.	12.3	283

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19	Hybrid Structures Composed of Photosynthetic System and Metal Nanoparticles:Â Plasmon Enhancement Effect. Nano Letters, 2007, 7, 620-625.	9.5	271
20	A light-driven three-dimensional plasmonic nanosystem that translates molecular motion into reversible chiroptical function. Nature Communications, 2016, 7, 10591.	13.2	270
21	Harvesting Lost Photons: Plasmon and Upconversion Enhanced Broadband Photocatalytic Activity in Core@Shell Microspheres Based on Lanthanideâ€Doped NaYF₄, TiO₂, and Au. Advanced Functional Materials, 2015, 25, 2950-2960.	16.5	269
22	Plexciton Dynamics: Excitonâ^'Plasmon Coupling in a J-Aggregateâ^'Au Nanoshell Complex Provides a Mechanism for Nonlinearity. Nano Letters, 2011, 11, 1556-1560.	9.5	267
23	Anomalous ultrafast dynamics of hot plasmonic electrons in nanostructures with hot spots. Nature Nanotechnology, 2015, 10, 770-774.	30.5	265
24	Broadband Hotâ€Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride. Advanced Optical Materials, 2017, 5, 1601031.	7.9	265
25	Understanding Hot-Electron Generation and Plasmon Relaxation in Metal Nanocrystals: Quantum and Classical Mechanisms. ACS Photonics, 2017, 4, 2759-2781.	6.9	258
26	Thermooptical Properties of Gold Nanoparticles Embedded in Ice:â€‰ Characterization of Heat Generation and Melting. Nano Letters, 2006, 6, 783-788.	9.5	257
27	Theory of plasmon-enhanced FÃ¶rster energy transfer in optically excited semiconductor and metal nanoparticles. Physical Review B, 2007, 76, .	3.3	239
28	Chiral nanoparticle assemblies: circular dichroism, plasmonic interactions, and exciton effects. Journal of Materials Chemistry, 2011, 21, 16806.	6.7	232
29	Coherent control of tunneling in a quantum dot molecule. Physical Review B, 2004, 69, .	3.3	227
30	Picosecond energy transfer and multiexciton transfer outpaces Auger recombination in binaryÂCdSe nanoplatelet solids. Nature Materials, 2015, 14, 484-489.	26.6	218
31	Amplification of Chiroptical Activity of Chiral Biomolecules by Surface Plasmons. Nano Letters, 2013, 13, 1203-1209.	9.5	215
32	Optical properties of coupled metal-semiconductor and metal-molecule nanocrystal complexes: Role of multipole effects. Physical Review B, 2008, 77, .	3.3	212
33	Boosting Hot Electron-Driven Photocatalysis through Anisotropic Plasmonic Nanoparticles with Hot Spots in Auâ€“TiO₂ Nanoarchitectures. Journal of Physical Chemistry C, 2016, 120, 11690-11699.	3.3	208
34	Plasmon-Induced Circular Dichroism of a Chiral Molecule in the Vicinity of Metal Nanocrystals. Application to Various Geometries. Journal of Physical Chemistry C, 2011, 115, 7914-7923.	3.3	207
35	The nonlinear Fano effect. Nature, 2008, 451, 311-314.	36.2	206
36	Induced Chirality through Electromagnetic Coupling between Chiral Molecular Layers and Plasmonic Nanostructures. Nano Letters, 2012, 12, 977-983.	9.5	206

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37	Enantioselective control of lattice and shape chirality in inorganic nanostructures using chiral biomolecules. Nature Communications, 2014, 5, 4302.	13.2	200
38	Nanoparticle Assemblies with Molecular Springs: A Nanoscale Thermometer. Angewandte Chemie - International Edition, 2005, 44, 7439-7442.	14.8	188
39	Optical Generation of Hot Plasmonic Carriers in Metal Nanocrystals: The Effects of Shape and Field Enhancement. Journal of Physical Chemistry C, 2014, 118, 7606-7614.	3.3	185
40	Discrete Nanocubes as Plasmonic Reporters of Molecular Chirality. Nano Letters, 2013, 13, 3145-3151.	9.5	181
41	Near Infrared, Highly Efficient Luminescent Solar Concentrators. Advanced Energy Materials, 2016, 6, 1501913.	22.2	176
42	Chiral Nanocrystals: Plasmonic Spectra and Circular Dichroism. Nano Letters, 2012, 12, 3283-3289.	9.5	171
43	Theory of Chiral Plasmonic Nanostructures Comprising Metal Nanocrystals and Chiral Molecular Media. ChemPhysChem, 2012, 13, 2551-2560.	2.3	160
44	Bioconjugated Superstructures of CdTe Nanowires and Nanoparticles:Â Multistep Cascade FÃ¶rster Resonance Energy Transfer and Energy Channeling. Nano Letters, 2005, 5, 2063-2069.	9.5	159
45	Metal-Enhanced Fluorescence of Chlorophylls in Single Light-Harvesting Complexes. Nano Letters, 2008, 8, 558-564.	9.5	149
46	Plasmonic Chiroptical Response of Silver Nanoparticles Interacting with Chiral Supramolecular Assemblies. Journal of the American Chemical Society, 2012, 134, 17807-17813.	14.6	146
47	DNA-Guided Plasmonic Helix with Switchable Chirality. Journal of the American Chemical Society, 2018, 140, 11763-11770.	14.6	143
48	Giant circular dichroism of a molecule in a region of strong plasmon resonances between two neighboring gold nanocrystals. Physical Review B, 2013, 87, .	3.3	141
49	Photothermal Circular Dichroism Induced by Plasmon Resonances in Chiral Metamaterial Absorbers and Bolometers. Nano Letters, 2018, 18, 2001-2008.	9.5	139
50	Enantioselective Synthesis of Intrinsically Chiral Mercury Sulfide Nanocrystals. Angewandte Chemie - International Edition, 2013, 52, 1275-1279.	14.8	132
51	Helical Metal Nanoparticle Assemblies with Defects: Plasmonic Chirality and Circular Dichroism. Journal of Physical Chemistry C, 2011, 115, 13254-13261.	3.3	130
52	Powering the programmed nanostructure and function of gold nanoparticles with catenated DNA machines. Nature Communications, 2013, 4, 2000.	13.2	130
53	Determining Plasmonic Hot Electrons and Photothermal Effects during H₂ Evolution with TiNâ€“Pt Nanohybrids. ACS Catalysis, 2020, 10, 5261-5271.	11.7	128
54	Chiral Plasmonic Nanostructures on Achiral Nanopillars. Nano Letters, 2013, 13, 5277-5283.	9.5	127

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55	Effects ofin Planta gamma-irradiation on growth, photosynthesis, and antioxidative capacity of red pepper (Capsicum annuum L.) plants. Journal of Plant Biology, 2005, 48, 47-56.	2.2	125
56	Broad Band Enhancement of Light Absorption in Photosystem I by Metal Nanoparticle Antennas. Nano Letters, 2010, 10, 2069-2074.	9.5	124
57	Chiroplasmonic DNA-based nanostructures. Nature Reviews Materials, 2017, 2, .	40.2	123
58	The fast and the furious: Ultrafast hot electrons in plasmonic metastructures. Size and structure matter. Nano Today, 2019, 27, 120-145.	12.3	123
59	Amplified Generation of Hot Electrons and Quantum Surface Effects in Nanoparticle Dimers with Plasmonic Hot Spots. Journal of Physical Chemistry C, 2016, 120, 19329-19339.	3.3	119
60	Hybridization of electronic states in quantum dots through photon emission. Nature, 2004, 427, 135-138.	36.2	115
61	Bioconjugated Ag Nanoparticles and CdTe Nanowires: Metamaterials with Field-Enhanced Light Absorption. Angewandte Chemie - International Edition, 2006, 45, 4819-4823.	14.8	114
62	Circular Dichroism of Chiral Molecules in DNA-Assembled Plasmonic Hotspots. ACS Nano, 2018, 12, 9110-9115.	15.3	114
63	Development of a radiomics nomogram based on the 2D and 3D CT features to predict the survival of non-small cell lung cancer patients. European Radiology, 2019, 29, 2196-2206.	4.6	114
64	Hierarchical synthesis of non-centrosymmetric hybrid nanostructures and enabled plasmon-driven photocatalysis. Nature Communications, 2014, 5, 4792.	13.2	111
65	DNA-Assembled Nanoparticle Rings Exhibit Electric and Magnetic Resonances at Visible Frequencies. Nano Letters, 2015, 15, 1368-1373.	9.5	110
66	Electronic Structure of the Plasmons in Metal Nanocrystals: Fundamental Limitations for the Energy Efficiency of Hot Electron Generation. ACS Energy Letters, 2019, 4, 2552-2568.	18.4	110
67	Multipole and multimode engineering in Mie resonance-based metastructures. Nanophotonics, 2020, 9, 1115-1137.	6.3	108
68	Chiral Plasmonic Nanostructures Enabled by Bottom-Up Approaches. Annual Review of Physical Chemistry, 2019, 70, 275-299.	11.3	107
69	Multidimensional nanoscopic chiroptics. Nature Reviews Physics, 2022, 4, 113-124.	19.2	106
70	Effects of Plasmonic Metal Core -Dielectric Shell Nanoparticles on the Broadband Light Absorption Enhancement in Thin Film Solar Cells. Scientific Reports, 2017, 7, 7696.	3.4	105
71	Hotspot-mediated non-dissipative and ultrafast plasmon passage. Nature Physics, 2017, 13, 761-765.	11.8	103
72	Intensifying Heat Using MOFâ€Isolated Graphene for Solarâ€Driven Seawater Desalination at 98% Solarâ€toâ€Thermal Efficiency. Advanced Functional Materials, 2021, 31, 2008904.	16.5	103

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73	3D plasmonic chiral colloids. Nanoscale, 2014, 6, 2077.	5.8	100
74	Cooperative expression of atomic chirality in inorganic nanostructures. Nature Communications, 2017, 8, 14312.	13.2	100
75	Fractal Nanoparticle Plasmonics: The Cayley Tree. ACS Nano, 2015, 9, 3284-3292.	15.3	99
76	Nearâ€Infrared, Heavy Metalâ€Free Colloidal â€œGiantâ€•Core/Shell Quantum Dots. Advanced Energy Materials, 2018, 8, 1701432.	22.2	99
77	Optical properties of a semiconductor quantum dot with a single magnetic impurity: photoinduced spin orientation. Physical Review B, 2005, 71, .	3.3	98
78	Plasmonic Chirality and Circular Dichroism in Bioassembled and Nonbiological Systems: Theoretical Background and Recent Progress. Advanced Materials, 2020, 32, e1801790.	24.3	98
79	Quantum theory of the nonlinear Fano effect in hybrid metal-semiconductor nanostructures: The case of strong nonlinearity. Physical Review B, 2011, 84, .	3.3	92
80	Plasmonic Nanostars with Hot Spots for Efficient Generation of Hot Electrons under Solar Illumination. Advanced Optical Materials, 2017, 5, .	7.9	87
81	Chiral Plasmonic Nanocrystals for Generation of Hot Electrons: Toward Polarization-Sensitive Photochemistry. Nano Letters, 2019, 19, 1395-1407.	9.5	85
82	Plasmon-induced CD response of oligonucleotide-conjugated metal nanoparticles. Chemical Communications, 2011, 47, 7383.	4.2	83
83	Spectrally Resolved Ultrafast Exciton Transfer in Mixed Perovskite Quantum Wells. Journal of Physical Chemistry Letters, 2019, 10, 419-426.	4.9	79
84	Identifying Performance-Limiting Deep Traps in Ta₃N₅ for Solar Water Splitting. ACS Catalysis, 2020, 10, 10316-10324.	11.7	78
85	Determination of hot carrier energy distributions from inversion of ultrafast pump-probe reflectivity measurements. Nature Communications, 2018, 9, 1853.	13.2	75
86	Confinement and Interaction of Single Indirect Excitons in a Voltage-Controlled Trap Formed Inside Double InGaAs Quantum Wells. Physical Review Letters, 2013, 110, 127403.	8.0	73
87	Optoelectronic Properties in Nearâ€Infrared Colloidal Heterostructured Pyramidal â€œGiantâ€•Core/Shell Quantum Dots. Advanced Science, 2018, 5, 1800656.	12.4	72
88	Optical Properties of Chiral Plasmonic Tetramers: Circular Dichroism and Multipole Effects. Journal of Physical Chemistry C, 2013, 117, 14770-14777.	3.3	71
89	Kinetic Density Functional Theory for Plasmonic Nanostructures: Breaking of the Plasmon Peak in the Quantum Regime and Generation of Hot Electrons. Journal of Physical Chemistry C, 2015, 119, 6181-6194.	3.3	71
90	Nanoparticle Assemblies with Molecular Springs: A Nanoscale Thermometer. Angewandte Chemie, 2005, 117, 7605-7608.	2.1	70

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91	Broadband efficiency enhancement in quantum dot solar cells coupled with multispiked plasmonic nanostars. Nano Energy, 2015, 13, 827-835.	16.5	70
92	Tunable Nonthermal Distribution of Hot Electrons in a Semiconductor Injected from a Plasmonic Gold Nanostructure. ACS Nano, 2018, 12, 7117-7126.	15.3	69
93	Chiral Assembly of Goldâ€“Silver Coreâ€“Shell Plasmonic Nanorods on DNA Origami with Strong Optical Activity. ACS Nano, 2020, 14, 7454-7461.	15.3	69
94	Excitonics of semiconductor quantum dots and wires for lighting and displays. Laser and Photonics Reviews, 2014, 8, 73-93.	10.1	68
95	Localization of Excess Temperature Using Plasmonic Hot Spots in Metal Nanostructures: Combining Nano-Optical Antennas with the Fano Effect. Journal of Physical Chemistry C, 2016, 120, 13215-13226.	3.3	68
96	Generation of Hot Electrons with Chiral Metamaterial Perfect Absorbers: Giant Optical Chirality for Polarization-Sensitive Photochemistry. ACS Photonics, 2019, 6, 3241-3252.	6.9	68
97	Metamaterial perfect absorber with unabated size-independent absorption. Optics Express, 2018, 26, 20471.	3.4	67
98	Optical Aharonov-Bohm effect in stacked type-II quantum dots. Physical Review B, 2007, 76, .	3.3	66
99	Multitask deep-learning-based design of chiral plasmonic metamaterials. Photonics Research, 2020, 8, 1213.	6.9	66
100	Efficiency of Hot-Electron Generation in Plasmonic Nanocrystals with Complex Shapes: Surface-Induced Scattering, Hot Spots, and Interband Transitions. ACS Photonics, 2020, 7, 2807-2824.	6.9	65
101	Theory of Quantum Plasmon Resonances in Doped Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 16035-16042.	3.3	64
102	Towards enhancing photocatalytic hydrogen generation: Which is more important, alloy synergistic effect or plasmonic effect?. Applied Catalysis B: Environmental, 2018, 221, 77-85.	20.7	64
103	DNA-Enabled Chiral Gold Nanoparticleâ€“Chromophore Hybrid Structure with Resonant Plasmonâ€“Exciton Coupling Gives Unusual and Strong Circular Dichroism. Journal of the American Chemical Society, 2019, 141, 19336-19341.	14.6	64
104	How does mTOR sense glucose starvation? AMPK is the usual suspect. Cell Death Discovery, 2020, 6, 27.	4.8	63
105	Superchiral Plasmonic Phase Sensitivity for Fingerprinting of Protein Interface Structure. ACS Nano, 2017, 11, 12049-12056.	15.3	62
106	Photostimulated Au Nanoheaters in Polymer and Biological Media: Characterization of Mechanical Destruction and Boiling. Advanced Functional Materials, 2012, 22, 294-303.	16.5	61
107	Experimental and Theoretical Observation of Photothermal Chirality in Gold Nanoparticle Helicoids. ACS Nano, 2020, 14, 4188-4195.	15.3	61
108	Distance Dependence of FÃ¶rster Resonance Energy Transfer Rates in 2D Perovskite Quantum Wells via Control of Organic Spacer Length. Journal of the American Chemical Society, 2021, 143, 4244-4252.	14.6	60

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109	Hot Electrons Generated in Chiral Plasmonic Nanocrystals as a Mechanism for Surface Photochemistry and Chiral Growth. Journal of the American Chemical Society, 2020, 142, 4193-4205.	14.6	59
110	Enhanced generation and anisotropic Coulomb scattering of hot electrons in an ultra-broadband plasmonic nanopatch metasurface. Nature Communications, 2017, 8, 986.	13.2	58
111	Impurity effects on the Aharonov-Bohm optical signatures of neutral quantum-ring magnetoexcitons. Physical Review B, 2004, 70, .	3.3	57
112	Exciton energy transfer between nanoparticles and nanowires. Physical Review B, 2008, 78, .	3.3	57
113	Highly Efficient Copper Sulfideâ€Based Nearâ€Infrared Photothermal Agents: Exploring the Limits of Macroscopic Heat Conversion. Small, 2018, 14, e1803282.	11.2	56
114	Photoactivated Biotemplated Nanoparticles as an Enzyme Mimic. Angewandte Chemie - International Edition, 2008, 47, 5335-5339.	14.8	55
115	Generalized Theory of FÃ¶rster-Type Nonradiative Energy Transfer in Nanostructures with Mixed Dimensionality. Journal of Physical Chemistry C, 2013, 117, 10203-10212.	3.3	55
116	Enhanced Luminescence, Collective Heating, and Nanothermometry in an Ensemble System Composed of Lanthanideâ€Doped Upconverting Nanoparticles and Gold Nanorods. Advanced Optical Materials, 2015, 3, 1606-1613.	7.9	55
117	Chiral Generation of Hot Carriers for Polarization-Sensitive Plasmonic Photocatalysis. Journal of the American Chemical Society, 2022, 144, 1663-1671.	14.6	55
118	Optical measurements of the superconducting gap in single-crystal K3C60 and Rb3C60. Nature, 1994, 369, 541-543.	36.2	54
119	Spin-FÃ¶rster transfer in optically excited quantum dots. Physical Review B, 2005, 71, .	3.3	53
120	Many-body exciton states in self-assembled quantum dots coupled to a Fermi sea. Nature Physics, 2010, 6, 534-538.	11.8	52
121	Long- and short-ranged chiral interactions in DNA-assembled plasmonic chains. Nature Communications, 2021, 12, 2025.	13.2	51
122	Comparison of Vapor Formation of Water at the Solid/Water Interface to Colloidal Solutions Using Optically Excited Gold Nanostructures. ACS Nano, 2014, 8, 1439-1448.	15.3	49
123	Controlling Metamaterial Transparency with Superchiral Fields. ACS Photonics, 2018, 5, 535-543.	6.9	49
124	Chiroptical Activity in Silver Cholate Nanostructures Induced by the Formation of Nanoparticle Assemblies. Journal of Physical Chemistry C, 2013, 117, 22240-22244.	3.3	48
125	DNA Scaffolds for the Dictated Assembly of Left-/Right-Handed Plasmonic Au NP Helices with Programmed Chiro-Optical Properties. Journal of the American Chemical Society, 2016, 138, 9895-9901.	14.6	48
126	Plasmonic Glasses and Films Based on Alternative Inexpensive Materials for Blocking Infrared Radiation. Nano Letters, 2018, 18, 3147-3156.	9.5	48

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127	Hydrodynamic Effects in Interacting Fermi Electron Jets. Physical Review Letters, 2004, 92, 026803.	8.0	45
128	Aluminum Nanoparticles with Hot Spots for Plasmonâ€Induced Circular Dichroism of Chiral Molecules in the UV Spectral Interval. Advanced Optical Materials, 2017, 5, 1700069.	7.9	45
129	Hot plasmonic electrons for generation of enhanced photocurrent in gold-TiO2 nanocomposites. Nanoscale Research Letters, 2015, 10, 38.	5.9	44
130	Broadband Tamm plasmon-enhanced planar hot-electron photodetector. Nanoscale, 2020, 12, 23945-23952.	5.8	43
131	Local Growth Mediated by Plasmonic Hot Carriers: Chirality from Achiral Nanocrystals Using Circularly Polarized Light. Nano Letters, 2021, 21, 10315-10324.	9.5	42
132	Resonant Excitation and Imaging of Nonequilibrium Exciton Spins in Single Coreâ^'Shell GaAsâ^'AlGaAs Nanowires. Nano Letters, 2007, 7, 588-595.	9.5	41
133	Optimized Conductivity and Spin States in N-Doped LaCoO₃ for Oxygen Electrocatalysis. ACS Applied Materials & Interfaces, 2021, 13, 2447-2454.	8.3	41
134	InGaAs and GaAs quantum dot solar cells grown by droplet epitaxy. Solar Energy Materials and Solar Cells, 2017, 161, 377-381.	6.3	40
135	Spatial control of chemical processes on nanostructures through nano-localized water heating. Nature Communications, 2016, 7, 10946.	13.2	39
136	Photophysical Effects behind the Efficiency of Hot Electron Injection in Plasmon-Assisted Catalysis: The Joint Role of Morphology and Composition. ACS Energy Letters, 2020, 5, 395-402.	18.4	39
137	Quantifying the photothermal conversion efficiency of plasmonic nanoparticles by means of terahertz radiation. APL Photonics, 2019, 4, .	5.5	37
138	Semiconductor-metal nanoparticle molecules in a magnetic field: Spin-plasmon and exciton-plasmon interactions. Physical Review B, 2010, 82, .	3.3	36
139	Orientation-Sensitive Peptide-Induced Plasmonic Circular Dichroism in Silver Nanocubes. Journal of Physical Chemistry C, 2016, 120, 12751-12756.	3.3	36
140	Chiral Bioinspired Plasmonics: A Paradigm Shift for Optical Activity and Photochemistry. ACS Photonics, 2022, 9, 2219-2236.	6.9	34
141	Ultrastable Plasmonic Cu-Based Coreâ€“Shell Nanoparticles. Chemistry of Materials, 2021, 33, 695-705.	7.1	33
142	Enhanced Optical Properties of a Photosynthetic System Conjugated with Semiconductor Nanoparticles: The Role of FÃ¶rster Transfer. Advanced Materials, 2008, 20, 4330-4335.	24.3	31
143	A facile route to magnetic mesoporous coreâ€“shell structured silicas containing covalently bound cyclodextrins for the removal of the antibiotic doxycycline from water. RSC Advances, 2018, 8, 31348-31357.	3.7	30
144	Upcycling of biomass waste into photothermal superhydrophobic coating for efficient anti-icing and deicing. Materials Today Physics, 2022, 24, 100683.	6.3	30

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145	Engineering Strongly Chiral Plasmonic Lattices with Achiral Unit Cells for Sensing and Photodetection. Advanced Optical Materials, 2022, 10, .	7.9	30
146	Cation exchange synthesis and optoelectronic properties of type II CdTeâ€“Cu2âˆ’xTe nano-heterostructures. Journal of Materials Chemistry C, 2014, 2, 3189.	5.6	29
147	Are Forward Designed or Reverse-Engineered UML diagrams more helpful for code maintenance?: A family of experiments. Information and Software Technology, 2015, 57, 644-663.	4.7	29
148	Development of a New Care Model for Hospitalized Children With Medical Complexity. Hospital Pediatrics, 2017, 7, 410-414.	1.4	29
149	Search for long-lived neutral particles in pp collisions at $${sqrt{s}} = 13~{ext { TeV}}$$ that decay into displaced hadronic jets in the ATLAS calorimeter. European Physical Journal C, 2019, 79, 1.	4.0	29
150	Manipulating the Optoelectronic Properties of Quasi-type II CuInS₂/CdS Core/Shell Quantum Dots for Photoelectrochemical Cell Applications. ACS Applied Materials & Interfaces, 2020, 12, 36277-36286.	8.3	29
151	Chiral Optofluidics with a Plasmonic Metasurface Using the Photothermal Effect. ACS Nano, 2021, 15, 16357-16367.	15.3	29
152	Enantioselective Synthesis of Intrinsically Chiral Mercury Sulfide Nanocrystals. Angewandte Chemie, 2013, 125, 1313-1317.	2.1	28
153	FÃ¶rster-Type Nonradiative Energy Transfer for Assemblies of Arrayed Nanostructures: Confinement Dimension vs Stacking Dimension. Journal of Physical Chemistry C, 2014, 118, 4951-4958.	3.3	28
154	Generation of hot electrons in nanostructures incorporating conventional and unconventional plasmonic materials. Faraday Discussions, 2019, 214, 199-213.	3.7	28
155	Thermo-optical Responses of Nanoparticles: Melting of Ice and Nanocalorimetry Approach. Journal of Electronic Materials, 2007, 36, 1587-1593.	2.2	27
156	Optical Emission and Energy Transfer in Nanoparticleâˆ’Nanorod Assemblies: Potential Energy Pump System for Negative Refractive Index Materials. Journal of Physical Chemistry C, 2008, 112, 18314-18320.	3.3	27
157	Mechanisms of plant adaptation/memory in rice seedlings under arsenic and heat stress: expression of heat-shock protein gene HSP70. AoB PLANTS, 2010, 2010, plq023.	2.4	27
158	Optophononics with coupled quantum dots. Nature Communications, 2014, 5, 3299.	13.2	27
159	Cucurbituril mediated single molecule detection and identification via recognition tunneling. Nanotechnology, 2018, 29, 365501.	2.7	27
160	Effects of neck muscles vibration on the perception of the head and trunk midline position. Experimental Brain Research, 2006, 170, 136-140.	1.5	26
161	Measurement of coherent tunneling between InGaAs quantum wells and InAs quantum dots using photoluminescence spectroscopy. Physical Review B, 2010, 82, .	3.3	26
162	Structureâ€“function studies of acinetobactin analogs. Metallomics, 2017, 9, 463-470.	2.5	26

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163	Terahertz Thermometry: Combining Hyperspectral Imaging and Temperature Mapping at Terahertz Frequencies. Laser and Photonics Reviews, 2017, 11, 1600342.	10.1	26
164	Size-dependent longitudinal plasmon resonance wavelength and extraordinary scattering properties of Au nanobipyramids. Nanotechnology, 2018, 29, 355402.	2.7	26
165	Broadband mid-infrared perfect absorber using fractal Gosper curve. Journal Physics D: Applied Physics, 2020, 53, 105106.	2.9	26
166	Planar hot-electron photodetector utilizing high refractive index MoS₂ in Fabryâ€“PÃ©rot perfect absorber. Nanotechnology, 2020, 31, 274001.	2.7	26
167	Tailoring the optoelectronic properties of ecoâ€friendly <scp>CuGaS₂</scp>/<scp>ZnSe</scp> core/shell quantum dots for boosted photoelectrochemical solar hydrogen production. EcoMat, 2022, 4, .	12.0	26
168	Spin displacements of a Gaussian beam at an airâ€“multilayer-film interface. Physical Review A, 2013, 88, .	2.5	25
169	Rational design of colloidal core/shell quantum dots for optoelectronic applications. Journal of Electronic Science and Technology, 2020, 18, 100018.	3.7	25
170	Broadband Absorbing Excitonâ€“Plasmon Metafluids with Narrow Transparency Windows. Nano Letters, 2016, 16, 1472-1477.	9.5	24
171	Temporal plasmonics: Fano and Rabi regimes in the time domain in metal nanostructures. Nanophotonics, 2020, 9, 3587-3595.	6.3	24
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