Jeremy J Baumberg

List of Publications by Year
in descending order

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390 papers	31,232 citations	3726 89 h-index	5384 164 g-index
402 all docs	402 docs citations	402 times ranked	25511 citing authors

#	Article	IF	Citations
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	7.3	2,153
2	Single-molecule strong coupling at room temperature in plasmonic nanocavities. Nature, 2016, 535, 127-130.	13.7	1,391
3	Revealing the quantum regime in tunnelling plasmonics. Nature, 2012, 491, 574-577.	13.7	939
4	Room-Temperature Polariton Lasing in Semiconductor Microcavities. Physical Review Letters, 2007, 98, 126405.	2.9	833
5	Angle-Resonant Stimulated Polariton Amplifier. Physical Review Letters, 2000, 84, 1547-1550.	2.9	753
6	Single-molecule optomechanics in â€œpicocavitiesâ€• Science, 2016, 354, 726-729.	6.0	607
7	Quantum mechanical effects in plasmonic structures with subnanometre gaps. Nature Communications, 2016, 7, 11495.	5.8	605
8	Chirality and Chiroptical Effects in Plasmonic Nanostructures: Fundamentals, Recent Progress, and Outlook. Advanced Materials, 2013, 25, 2517-2534.	11.1	591
9	Complete photonic bandgaps in 12-fold symmetric quasicrystals. Nature, 2000, 404, 740-743.	13.7	553
10	Extreme nanophotonics from ultrathin metallic gaps. Nature Materials, 2019, 18, 668-678.	13.3	488
11	Pointillist structural color in Pollia fruit. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15712-15715.	3.3	475
12	Omnidirectional absorption in nanostructured metal surfaces. Nature Photonics, 2008, 2, 299-301.	15.6	430
13	Continuous Wave Observation of Massive Polariton Redistribution by Stimulated Scattering in Semiconductor Microcavities. Physical Review Letters, 2000, 85, 3680-3683.	2.9	401
14	Ultrafast Coherent Control and Destruction of Excitons in Quantum Wells. Physical Review Letters, 1995, 75, 2598-2601.	2.9	395
15	DNA origami based assembly of gold nanoparticle dimers for surface-enhanced Raman scattering. Nature Communications, 2014, 5, 3448.	5.8	377
16	Mimicking the colourful wing scale structure of the Papilio blumei butterfly. Nature Nanotechnology, 2010, 5, 511-515.	15.6	353
17	Highly Ordered Macroporous Gold and Platinum Films Formed by Electrochemical Deposition through Templates Assembled from Submicron Diameter Monodisperse Polystyrene Spheres. Chemistry of Materials, 2002, 14, 2199-2208.	3.2	328
18	Precise Subnanometer Plasmonic Junctions for SERS within Gold Nanoparticle Assemblies Using Cucurbit[n]uril â€œGlueâ€• ACS Nano, 2011, 5, 3878-3887.	7.3	322

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19	Optical spin resonance and transverse spin relaxation in magnetic semiconductor quantum wells. Physical Review B, 1997, 56, 7574-7588.	1.1	307
20	Current status of AlInN layers lattice-matched to GaN for photonics and electronics. Journal Physics D: Applied Physics, 2007, 40, 6328-6344.	1.3	304
21	Strong-coupling of WSe2 in ultra-compact plasmonic nanocavities at room temperature. Nature Communications, 2017, 8, 1296.	5.8	290
22	A 3D Optical Metamaterial Made by Selfâ€Assembly. Advanced Materials, 2012, 24, OP23-7.	11.1	288
23	Strong Coupling between Localized Plasmons and Organic Excitons in Metal Nanovoids. Physical Review Letters, 2006, 97, 266808.	2.9	269
24	Angle-Resolved Surface-Enhanced Raman Scattering on Metallic Nanostructured Plasmonic Crystals. Nano Letters, 2005, 5, 2262-2267.	4.5	250
25	Tuning localized plasmons in nanostructured substrates for surface-enhanced Raman scattering. Optics Express, 2006, 14, 847.	1.7	227
26	Parametric oscillation in a vertical microcavity: A polariton condensate or micro-optical parametric oscillation. Physical Review B, 2000, 62, R16247-R16250.	1.1	222
27	Digital Color in Cellulose Nanocrystal Films. ACS Applied Materials & Interfaces, 2014, 6, 12302-12306.	4.0	222
28	Al-doped ZnO inverse opal networks as efficient electron collectors in BiVO₄ photoanodes for solar water oxidation. Energy and Environmental Science, 2014, 7, 1402-1408.	15.6	220
29	Wetting of Regularly Structured Gold Surfaces. Langmuir, 2005, 21, 1753-1757.	1.6	217
30	Optical Properties of Gyroid Structured Materials: From Photonic Crystals to Metamaterials. Advanced Optical Materials, 2015, 3, 12-32.	3.6	213
31	Controlling Subnanometer Gaps in Plasmonic Dimers Using Graphene. Nano Letters, 2013, 13, 5033-5038.	4.5	210
32	Spontaneous Polarization Buildup in a Room-Temperature Polariton Laser. Physical Review Letters, 2008, 101, 136409.	2.9	197
33	Sculpting oscillators with light within a nonlinear quantum fluid. Nature Physics, 2012, 8, 190-194.	6.5	191
34	Terahertz Spin Precession and Coherent Transfer of Angular Momenta in Magnetic Quantum Wells. Physical Review Letters, 1996, 77, 2814-2817.	2.9	188
35	Actively Tuned Plasmons on Elastomerically Driven Au Nanoparticle Dimers. Nano Letters, 2010, 10, 1787-1792.	4.5	188
36	Optical properties of nanostructured metal films. Faraday Discussions, 2004, 125, 117.	1.6	185

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37	SERS at Structured Palladium and Platinum Surfaces. Journal of the American Chemical Society, 2007, 129, 7399-7406.	6.6	185
38	Demonstrating Photoluminescence from Au is Electronic Inelastic Light Scattering of a Plasmonic Metal: The Origin of SERS Backgrounds. Nano Letters, 2015, 15, 2600-2604.	4.5	183
39	Understanding Plasmons in Nanoscale Voids. Nano Letters, 2007, 7, 2094-2100.	4.5	182
40	Room-temperature polariton lasers based on GaN microcavities. Applied Physics Letters, 2002, 81, 412-414.	1.5	179
41	Controlled, Bioâ€inspired Selfâ€Assembly of Celluloseâ€Based Chiral Reflectors. Advanced Optical Materials, 2014, 2, 646-650.	3.6	179
42	Bioâ€Inspired Bandâ€Gap Tunable Elastic Optical Multilayer Fibers. Advanced Materials, 2013, 25, 2239-2245.	11.1	176
43	Electrochemical SERS at a structured gold surface. Electrochemistry Communications, 2005, 7, 740-744.	2.3	171
44	Confined Plasmons in Metallic Nanocavities. Physical Review Letters, 2001, 87, 176801.	2.9	170
45	Photo-Rechargeable Organo-Halide Perovskite Batteries. Nano Letters, 2018, 18, 1856-1862.	4.5	170
46	Nanoparticle-tuned structural color from polymer opals. Optics Express, 2007, 15, 9553.	1.7	168
47	SERS of Individual Nanoparticles on a Mirror: Size Does Matter, but so Does Shape. Journal of Physical Chemistry Letters, 2016, 7, 2264-2269.	2.1	163
48	Nanooptics of Molecular-Shunted Plasmonic Nanojunctions. Nano Letters, 2015, 15, 669-674.	4.5	162
49	Birefringent Fresnel zone plates in silica fabricated by femtosecond laser machining. Optics Letters, 2002, 27, 2200.	1.7	157
50	Plasmonic Band Gaps and Trapped Plasmons on Nanostructured Metal Surfaces. Physical Review Letters, 2005, 95, 116802.	2.9	154
51	Plasmonic Enhancement in BiVO₄ Photonic Crystals for Efficient Water Splitting. Small, 2014, 10, 3970-3978.	5.2	152
52	Relaxation bottleneck and its suppression in semiconductor microcavities. Physical Review B, 2000, 62, R2283-R2286.	1.1	147
53	Threading plasmonic nanoparticle strings with light. Nature Communications, 2014, 5, 4568.	5.8	144
54	Light-induced actuating nanotransducers. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5503-5507.	3.3	143

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55	Quantitative SERS Using the Sequestration of Small Molecules Inside Precise Plasmonic Nanoconstructs. Nano Letters, 2012, 12, 5924-5928.	4.5	142
56	Sculpted substrates for SERS. Faraday Discussions, 2006, 132, 191-199.	1.6	141
57	Scalable electrochromic nanopixels using plasmonics. Science Advances, 2019, 5, eaaw2205.	4.7	139
58	Suppressed Quenching and Strong-Coupling of Purcell-Enhanced Single-Molecule Emission in Plasmonic Nanocavities. ACS Photonics, 2018, 5, 186-191.	3.2	137
59	Optical Superfluid Phase Transitions and Trapping of Polariton Condensates. Physical Review Letters, 2013, 110, 186403.	2.9	135
60	Large-scale fabrication of structurally coloured cellulose nanocrystal films and effect pigments. Nature Materials, 2022, 21, 352-358.	13.3	129
61	Exfoliation of self-assembled 2D organic-inorganic perovskite semiconductors. Applied Physics Letters, 2014, 104, .	1.5	126
62	Mapping Nanoscale Hotspots with Single-Molecule Emitters Assembled into Plasmonic Nanocavities Using DNA Origami. Nano Letters, 2018, 18, 405-411.	4.5	126
63	Surface Enhanced Coherent Anti-Stokes Raman Scattering on Nanostructured Gold Surfaces. Nano Letters, 2011, 11, 5339-5343.	4.5	125
64	How Light Is Emitted by Plasmonic Metals. Nano Letters, 2017, 17, 2568-2574.	4.5	125
65	Spin beats and dynamical magnetization in quantum structures. Physical Review Letters, 1994, 72, 717-720.	2.9	124
66	Large-scale ordering of nanoparticles using viscoelastic shear processing. Nature Communications, 2016, 7, 11661.	5.8	123
67	Photoluminescence of Colloidal CdSe/ZnS Quantum Dots: The Critical Effect of Water Molecules. Journal of Physical Chemistry C, 2010, 114, 12069-12077.	1.5	120
68	Nonlinear Superchiral Metaâ€Surfaces: Tuning Chirality and Disentangling Nonâ€Reciprocity at the Nanoscale. Advanced Materials, 2014, 26, 4074-4081.	11.1	120
69	Coupling Quantum Tunneling with Cavity Photons. Science, 2012, 336, 704-707.	6.0	119
70	Coreâ€“Shell Gold Nanorod@Zirconium-Based Metalâ€“Organic Framework Composites as in Situ Size-Selective Raman Probes. Journal of the American Chemical Society, 2019, 141, 3893-3900.	6.6	119
71	Understanding the Surface-Enhanced Raman Spectroscopy â€œBackgroundâ€. Journal of Physical Chemistry C, 2010, 114, 7242-7250.	1.5	118
72	Plasmonic tunnel junctions for single-molecule redox chemistry. Nature Communications, 2017, 8, 994.	5.8	116

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73	How Ultranarrow Gap Symmetries Control Plasmonic Nanocavity Modes: From Cubes to Spheres in the Nanoparticle-on-Mirror. ACS Photonics, 2017, 4, 469-475.	3.2	115
74	Quantum electrodynamics at room temperature coupling a single vibrating molecule with a plasmonic nanocavity. Nature Communications, 2019, 10, 1049.	5.8	114
75	Lightâ€Directed Writing of Chemically Tunable Narrowâ€Band Holographic Sensors. Advanced Optical Materials, 2014, 2, 250-254.	3.6	110
76	A one-piece 3D printed flexure translation stage for open-source microscopy. Review of Scientific Instruments, 2016, 87, 025104.	0.6	108
77	Tuning plasmons on nano-structured substrates for NIR-SERS. Physical Chemistry Chemical Physics, 2007, 9, 104-109.	1.3	107
78	Ultrafast Faraday spectroscopy in magnetic semiconductor quantum structures. Physical Review B, 1994, 50, 7689-7700.	1.1	103
79	Metal Oxide Nanoparticle Mediated Enhanced Raman Scattering and Its Use in Direct Monitoring of Interfacial Chemical Reactions. Nano Letters, 2012, 12, 4242-4246.	4.5	103
80	Dressing Plasmons in Particle-in-Cavity Architectures. Nano Letters, 2011, 11, 1221-1226.	4.5	101
81	Reproducible Deep-UV SERRS on Aluminum Nanovoids. Journal of Physical Chemistry Letters, 2013, 4, 1449-1452.	2.1	101
82	Monitoring Morphological Changes in 2D Monolayer Semiconductors Using Atom-Thick Plasmonic Nanocavities. ACS Nano, 2015, 9, 825-830.	7.3	101
83	Canonical Quantization of Light in a Linear Dielectric. Europhysics Letters, 1991, 16, 177-182.	0.7	100
84	In Situ Intercalation Dynamics in Inorganicâ€“Organic Layered Perovskite Thin Films. ACS Applied Materials & Interfaces, 2014, 6, 10238-10247.	4.0	98
85	Surfaceâ€Enhanced Raman Scattering Using Microstructured Optical Fiber Substrates. Advanced Functional Materials, 2007, 17, 2024-2030.	7.8	97
86	Roll-to-roll fabrication of touch-responsive cellulose photonic laminates. Nature Communications, 2018, 9, 4632.	5.8	96
87	Robotic microscopy for everyone: the OpenFlexure microscope. Biomedical Optics Express, 2020, 11, 2447.	1.5	95
88	Nanoimprint Lithography of Al Nanovoids for Deep-UV SERS. ACS Applied Materials & Interfaces, 2014, 6, 17358-17363.	4.0	94
89	3D Bulk Ordering in Macroscopic Solid Opaline Films by Edgeâ€Induced Rotational Shearing. Advanced Materials, 2011, 23, 1540-1544.	11.1	93
90	Strong Photocurrent from Two-Dimensional Excitons in Solution-Processed Stacked Perovskite Semiconductor Sheets. ACS Applied Materials & Interfaces, 2015, 7, 25227-25236.	4.0	93

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91	A sub-femtojoule electrical spin-switch based on optically trapped polariton condensates. Nature Materials, 2016, 15, 1074-1078.	13.3	91
92	Coherent Spectroscopy of Optically Gated Charged Single InGaAs Quantum Dots. Physical Review Letters, 2003, 90, 257402.	2.9	89
93	Reproducible SERRS from structured gold surfaces. Physical Chemistry Chemical Physics, 2007, 9, 6016.	1.3	89
94	Revealing Invisible Photonic Inscriptions: Images from Strain. ACS Applied Materials & Interfaces, 2015, 7, 13497-13502.	4.0	89
95	Compact strain-sensitive flexible photonic crystals for sensors. Applied Physics Letters, 2005, 87, 101902.	1.5	88
96	Room-Temperature Optical Picocavities below 1 nm³ Accessing Single-Atom Geometries. Journal of Physical Chemistry Letters, 2018, 9, 7146-7151.	2.1	88
97	In Situ SERS Monitoring of Photochemistry within a Nanojunction Reactor. Nano Letters, 2013, 13, 5985-5990.	4.5	85
98	Quantitative multiplexing with nano-self-assemblies in SERS. Scientific Reports, 2014, 4, 6785.	1.6	84
99	Embedded anisotropic microreflectors by femtosecond-laser nanomachining. Applied Physics Letters, 2002, 81, 196-198.	1.5	83
100	Relating SERS Intensity to Specific Plasmon Modes on Sphere Segment Void Surfaces. Journal of Physical Chemistry C, 2009, 113, 9284-9289.	1.5	83
101	Citrate Coordination and Bridging of Gold Nanoparticles: The Role of Gold Adatoms in AuNP Aging. ACS Nano, 2020, 14, 8689-8696.	7.3	82
102	Preparation of Arrays of Isolated Spherical Cavities by Self-Assembly of Polystyrene Spheres on Self-Assembled Pre-patterned Macroporous Films. Advanced Materials, 2004, 16, 90-93.	11.1	80
103	Shearâ€Induced Organization in Flexible Polymer Opals. Advanced Materials, 2008, 20, 1484-1487.	11.1	80
104	Tunable 3D Extended Selfâ€Assembled Gold Metamaterials with Enhanced Light Transmission. Advanced Materials, 2013, 25, 2713-2716.	11.1	80
105	In Situ Observations of Phase Transitions in Metastable Nickel (Carbide)/Carbon Nanocomposites. Journal of Physical Chemistry C, 2016, 120, 22571-22584.	1.5	80
106	Determination of nonlinear refractive index in a Ta2O5 rib waveguide using self-phase modulation. Optics Express, 2004, 12, 5110.	1.7	79
107	How Chain Plasmons Govern the Optical Response in Strongly Interacting Self-Assembled Metallic Clusters of Nanoparticles. Langmuir, 2012, 28, 8881-8890.	1.6	77
108	Coupled counterrotating polariton condensates in optically defined annular potentials. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8770-8775.	3.3	76

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109	Ultrathin CdSe in Plasmonic Nanogaps for Enhanced Photocatalytic Water Splitting. Journal of Physical Chemistry Letters, 2015, 6, 1099-1103.	2.1	75
110	Gap-Dependent Coupling of Agâ€“Au Nanoparticle Heterodimers Using DNA Origami-Based Self-Assembly. ACS Photonics, 2016, 3, 1589-1595.	3.2	75
111	Engineering Gold Nanotubes with Controlled Length and Nearâ€Infrared Absorption for Theranostic Applications. Advanced Functional Materials, 2015, 25, 2117-2127.	7.8	74
112	Ordering in stretch-tunable polymeric opal fibers. Optics Express, 2011, 19, 3144.	1.7	73
113	Spontaneous Spin Bifurcations and Ferromagnetic Phase Transitions in a Spinor Exciton-Polariton Condensate. Physical Review X, 2015, 5, .	2.8	73
114	Observing Single Molecules Complexing with Cucurbit[7]uril through Nanogap Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 704-710.	2.1	73
115	Raman and SERS spectroscopy of cucurbit[n]urils. Physical Chemistry Chemical Physics, 2010, 12, 10429.	1.3	71
116	Thermoâ€Responsive Actuation of a DNA Origami Flexor. Advanced Functional Materials, 2018, 28, 1706410.	7.8	71
117	Spin Order and Phase Transitions in Chains of Polariton Condensates. Physical Review Letters, 2017, 119, 067401.	2.9	66
118	Light-Directed Tuning of Plasmon Resonances via Plasmon-Induced Polymerization Using Hot Electrons. ACS Photonics, 2017, 4, 1453-1458.	3.2	65
119	Quantitative Electrochemical SERS of Flavin at a Structured Silver Surface. Langmuir, 2008, 24, 7018-7023.	1.6	64
120	Stretch-tuneable dielectric mirrors and optical microcavities. Optics Express, 2010, 18, 4356.	1.7	63
121	Optical Trirefringence in Photonic Crystal Waveguides. Physical Review Letters, 2001, 86, 1526-1529.	2.9	62
122	Generalized circuit model for coupled plasmonic systems. Optics Express, 2015, 23, 33255.	1.7	62
123	Detecting mid-infrared light by molecular frequency upconversion in dual-wavelength nanoantennas. Science, 2021, 374, 1268-1271.	6.0	61
124	Hollow-core optical fibre sensors for operando Raman spectroscopy investigation of Li-ion battery liquid electrolytes. Nature Communications, 2022, 13, 1651.	5.8	61
125	Probing Confined Phonon Modes in Individual CdSe Nanoplatelets Using Surface-Enhanced Raman Scattering. Physical Review Letters, 2014, 113, 087402.	2.9	60
126	Strong Coupling of Localized Surface Plasmons to Excitons in Light-Harvesting Complexes. Nano Letters, 2016, 16, 6850-6856.	4.5	60

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127	Stretch-induced plasmonic anisotropy of self-assembled gold nanoparticle mats. Applied Physics Letters, 2012, 100, .	1.5	57
128	Nanoscale Plasmonâ€Enhanced Spectroscopy in Memristive Switches. Small, 2016, 12, 1334-1341.	5.2	57
129	Surface-enhanced Raman spectroscopy of CdSe quantum dots on nanostructured plasmonic surfaces. Applied Physics Letters, 2009, 95, 141111.	1.5	56
130	Fast Dynamic Color Switching in Temperatureâ€Responsive Plasmonic Films. Advanced Optical Materials, 2016, 4, 877-882.	3.6	56
131	Soft-x-ray wavelength shift induced by ionization effects in a capillary. Optics Letters, 2006, 31, 374.	1.7	55
132	Controllable Tuning Plasmonic Coupling with Nanoscale Oxidation. ACS Nano, 2015, 9, 6110-6118.	7.3	55
133	Metamaterial high pass filter based on periodic wire arrays of multiwalled carbon nanotubes. Applied Physics Letters, 2010, 97, 163102.	1.5	53
134	Size Dependent Plasmonic Effect on BiVO4 Photoanodes for Solar Water Splitting. Scientific Reports, 2015, 5, 16660.	1.6	53
135	Anomalous Spectral Shift of Near- and Far-Field Plasmonic Resonances in Nanogaps. ACS Photonics, 2016, 3, 471-477.	3.2	53
136	Plasmonic Nanocavity Modes: From Near-Field to Far-Field Radiation. ACS Photonics, 2020, 7, 463-471.	3.2	53
137	Unfolding the contents of sub-nm plasmonic gaps using normalising plasmon resonance spectroscopy. Faraday Discussions, 2015, 178, 185-193.	1.6	52
138	Electrodeposition of highly ordered macroporous iridium oxide through self-assembled colloidal templates. Journal of Materials Chemistry, 2009, 19, 3855.	6.7	51
139	Gold Nanorods with Subâ€Nanometer Separation using Cucurbit[n]uril for SERS Applications. Small, 2014, 10, 4298-4303.	5.2	50
140	Polymer-assisted self-assembly of gold nanoparticle monolayers and their dynamical switching. Nanoscale, 2016, 8, 15864-15869.	2.8	49
141	Polariton ring condensates and sunflower ripples in an expanding quantum liquid. Physical Review B, 2012, 85, .	1.1	48
142	Watching individual molecules flex within lipid membranes using SERS. Scientific Reports, 2014, 4, 5940.	1.6	48
143	Linking classical and molecular optomechanics descriptions of SERS. Faraday Discussions, 2017, 205, 31-65.	1.6	47
144	Pulsed Molecular Optomechanics in Plasmonic Nanocavities: From Nonlinear Vibrational Instabilities to Bond-Breaking. Physical Review X, 2018, 8, .	2.8	47

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145	Plasmon-directed polymerization: Regulating polymer growth with light. Nano Research, 2018, 11, 6384-6390.	5.8	47
146	Optimizing SERS from Gold Nanoparticle Clusters: Addressing the Near Field by an Embedded Chain Plasmon Model. Journal of Physical Chemistry C, 2016, 120, 10512-10522.	1.5	46
147	Strong coupling of light to flat metals via a buried nanovoid lattice: the interplay of localized and free plasmons. Optics Express, 2006, 14, 1965.	1.7	45
148	Structural tunability and switchable exciton emission in inorganic-organic hybrids with mixed halides. Journal of Applied Physics, 2013, 114, 233511.	1.1	45
149	Scalable integration of nano-, and microfluidics with hybrid two-photon lithography. Microsystems and Nanoengineering, 2019, 5, 40.	3.4	45
150	Stretchable metal-elastomer nanovoids for tunable plasmons. Applied Physics Letters, 2009, 95, .	1.5	43
151	Oriented polaritons in strongly-coupled asymmetric double quantum well microcavities. Applied Physics Letters, 2011, 98, .	1.5	43
152	Real-time in situ optical tracking of oxygen vacancy migration in memristors. Nature Electronics, 2020, 3, 687-693.	13.1	43
153	Nanowire-based multifunctional antireflection coatings for solar cells. Nanoscale, 2014, 6, 14555-14562.	2.8	42
154	Tracking Nanoelectrochemistry Using Individual Plasmonic Nanocavities. Nano Letters, 2017, 17, 4840-4845.	4.5	42
155	Eliminating irreproducibility in SERS substrates. Journal of Raman Spectroscopy, 2021, 52, 412-419.	1.2	42
156	Stamping colloidal photonic crystals: a facile way towards complex pixel colour patterns for sensing and displays. Nanoscale, 2015, 7, 1857-1863.	2.8	41
157	Directional scattering from the glossy flower of Ranunculus : how the buttercup lights up your chin. Journal of the Royal Society Interface, 2012, 9, 1295-1301.	1.5	40
158	Electric-field-tuned color in photonic crystal elastomers. Applied Physics Letters, 2012, 100, 101902.	1.5	40
159	Polymer opals as novel photonic materials. Polymer International, 2013, 62, 1403-1407.	1.6	40
160	Gyroid Optical Metamaterials: Calculating the Effective Permittivity of Multidomain Samples. ACS Photonics, 2016, 3, 1888-1896.	3.2	38
161	One-step fabrication of hollow-channel gold nanoflowers with excellent catalytic performance and large single-particle SERS activity. Nanoscale, 2016, 8, 14932-14942.	2.8	38
162	Ultrafast Nonlinear Response of Gold Gyroid Three-Dimensional Metamaterials. Physical Review Applied, 2014, 2, .	1.5	37

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163	Energy-resolved plasmonic chemistry in individual nanoreactors. Nature Nanotechnology, 2021, 16, 1378-1385.	15.6	37
164	SERS from molecules bridging the gap of particle-in-cavity structures. Chemical Communications, 2011, 47, 6335.	2.2	36
165	Electrokinetic Assembly of One-Dimensional Nanoparticle Chains with Cucurbit[7]uril Controlled Subnanometer Junctions. Nano Letters, 2013, 13, 6016-6022.	4.5	36
166	Optical Response of Metallic Nanoparticle Heteroaggregates with Subnanometric Gaps. Particle and Particle Systems Characterization, 2014, 31, 152-160.	1.2	36
167	Mechanistic study of an immobilized molecular electrocatalyst by in situ gap-plasmon-assisted spectro-electrochemistry. Nature Catalysis, 2021, 4, 157-163.	16.1	36
168	Simple Composite Dipole Model for the Optical Modes of Strongly-Coupled Plasmonic Nanoparticle Aggregates. Journal of Physical Chemistry C, 2012, 116, 25044-25051.	1.5	35
169	Actuating Single Nanoâ€Oscillators with Light. Advanced Optical Materials, 2018, 6, 1701281.	3.6	35
170	Anomalously Large Spectral Shifts near the Quantum Tunnelling Limit in Plasmonic Rulers with Subatomic Resolution. Nano Letters, 2019, 19, 2051-2058.	4.5	35
171	Inducing Symmetry Breaking in Nanostructures: Anisotropic Stretch-Tuning Photonic Crystals. Physical Review Letters, 2010, 105, 233909.	2.9	34
172	Monitoring Earlyâ€Stage Nanoparticle Assembly in Microdroplets by Optical Spectroscopy and SERS. Small, 2016, 12, 1788-1796.	5.2	34
173	Controlling Optically Driven Atomic Migration Using Crystal-Facet Control in Plasmonic Nanocavities. ACS Nano, 2020, 14, 10562-10568.	7.3	34
174	Selectively Patterning Polymer Opal Films via Microimprint Lithography. Advanced Optical Materials, 2014, 2, 1098-1104.	3.6	33
175	Revealing Nanostructures through Plasmon Polarimetry. ACS Nano, 2017, 11, 850-855.	7.3	33
176	In situmonitoring of the growth of ice films by laser picosecond acoustics. Journal of Applied Physics, 2006, 100, 073506.	1.1	32
177	Control of polariton scattering in resonant-tunneling double-quantum-well semiconductor microcavities. Physical Review B, 2010, 82, .	1.1	32
178	Spatiotemporal Dynamics and Control of Strong Coupling in Plasmonic Nanocavities. ACS Photonics, 2017, 4, 2410-2418.	3.2	32
179	Selective CO production from aqueous CO₂ using a Cu₉₆In₄ catalyst and its integration into a bias-free solar perovskiteâ€“BiVO₄ tandem device. Energy and Environmental Science, 2020, 13, 3536-3543.	15.6	32
180	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. Nature Communications, 2021, 12, 6519.	5.8	32

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181	Excitons in a mirror: Formation of â€œoptical bilayersâ€•using MoS2 monolayers on gold substrates. Applied Physics Letters, 2014, 104, .	1.5	31
182	Interfering Plasmons in Coupled Nanoresonators to Boost Light Localization and SERS. Nano Letters, 2021, 21, 2512-2518.	4.5	31
183	Elucidating the Role of Antisolvents on the Surface Chemistry and Optoelectronic Properties of CsPbBr_xI_{3-x} Perovskite Nanocrystals. Journal of the American Chemical Society, 2022, 144, 12102-12115.	6.6	31
184	Scalable Cylindrical Metallodielectric Metamaterials. Advanced Materials, 2009, 21, 3933-3936.	11.1	30
185	Engineering SERS via absorption control in novel hybrid Ni/Au nanovoids. Optics Express, 2009, 17, 13298.	1.7	30
186	Selfâ€Aligned Colloidal Lithography for Controllable and Tuneable Plasmonic Nanogaps. Small, 2015, 11, 2139-2143.	5.2	30
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