

Stefan A Maier

List of Publications by Year in descending order

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608
papers

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all docs

635
docs citations

635
times ranked

37490
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanophotonic Materials for Twisted Light Manipulation. <i>Advanced Materials</i> , 2023, 35, e2106692.	21.0	24
2	High-Q collective Mie resonances in monocrystalline silicon nanoantenna arrays for the visible light. <i>Fundamental Research</i> , 2023, 3, 822-830.	3.3	11
3	Advances and applications of nanophotonic biosensors. <i>Nature Nanotechnology</i> , 2022, 17, 5-16.	31.5	308
4	Nanophotonics shines light on hyperbolic metamaterials. <i>Light: Science and Applications</i> , 2022, 11, 9.	16.6	22
5	Accelerating CO ₂ Electroreduction to Multicarbon Products via Synergistic Electric Thermal Field on Copper Nanoneedles. <i>Journal of the American Chemical Society</i> , 2022, 144, 3039-3049.	13.7	147
6	Trends in Nanophotonics Enabled Optofluidic Biosensors. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	28
7	Recent Progress and Future Opportunities for Hot Carrier Photodetectors: From Ultraviolet to Infrared Bands. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	26
8	Ultrafast Sub-100 fs All-Optical Modulation and Efficient Third-Harmonic Generation in Weyl Semimetal Niobium Phosphide Thin Films. <i>Advanced Materials</i> , 2022, 34, e2106733.	21.0	4
9	Experimental characterization techniques for plasmon-assisted chemistry. <i>Nature Reviews Chemistry</i> , 2022, 6, 259-274.	30.2	56
10	High-Throughput Fabrication of Triangular Nanogap Arrays for Surface-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2022, 16, 7438-7447.	14.6	27
11	High-Quality Optical Hotspots with Topology-Protected Robustness. <i>ACS Photonics</i> , 2022, 9, 241-248.	6.6	5
12	Controlling Plasmonic Chemistry Pathways through Specific Ion Effects. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	10
13	Near-field nano-spectroscopy of strong mode coupling in phonon-polaritonic crystals. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	4
14	Low Band Gap Perovskite Concentrator Solar Cells: Physics, Device Simulation, and Experiment. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29856-29866.	8.0	1
15	Optical Metasurfaces for Energy Conversion. <i>Chemical Reviews</i> , 2022, 122, 15082-15176.	47.7	52
16	Imaging elliptically polarized infrared near-fields on nanoparticles by strong-field dissociation of functional surface groups. <i>European Physical Journal D</i> , 2022, 76, .	1.3	2
17	Giant second-harmonic generation in ferroelectric NbOI ₂ . <i>Nature Photonics</i> , 2022, 16, 644-650.	31.4	57
18	The Optofluidic Light Cage – On-Chip Integrated Spectroscopy Using an Antiresonance Hollow Core Waveguide. <i>Analytical Chemistry</i> , 2021, 93, 752-760.	6.5	16

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19	Synthetic Plasmonic Nanocircuits and the Evolution of Their Correlated Spatial Arrangement and Resonance Spectrum. ACS Photonics, 2021, 8, 166-174.	6.6	6
20	<i>In Situ</i> Photothermal Response of Single Gold Nanoparticles through Hyperspectral Imaging Anti-Stokes Thermometry. ACS Nano, 2021, 15, 2458-2467.	14.6	42
21	Critical Coupling of a Single Metallic Nanoantenna under Focused Illumination. , 2021, , .		0
22	One-Pot Confined Epitaxial Growth of 2D Heterostructure Arrays. , 2021, 3, 217-223.		8
23	The Light Cage - Integrated on-Chip Spectroscopy Using a Nano-Printed Hollow Core Waveguide. , 2021, , .		0
24	lon pair dynamics and collinear magnetic ordering in Sb_5S_3 Physical Review B, 2021, 103, .	3.2	1
25	Topological-Insulator-Based Gap-Surface Plasmon Metasurfaces. Photonics, 2021, 8, 40.	2.0	2
26	Ultrabroad-Band Direct Digital Refractive Index Imaging Based on Suspended Graphene Plasmon Nanocavities. ACS Applied Nano Materials, 2021, 4, 1635-1642.	5.0	2
27	Mark Stockman: Evangelist for Plasmonics. ACS Photonics, 2021, 8, 683-698.	6.6	2
28	Eu_2CuSe_3 Revisited by Means of Experimental and Quantum-Chemical Techniques. European Journal of Inorganic Chemistry, 2021, 2021, 1510-1517.	2.0	9
29	Ultrahigh-aspect-ratio light cages: fabrication limits and tolerances of free-standing 3D nanoprined waveguides. Optical Materials Express, 2021, 11, 1046.	3.0	9
30	Ultrahigh numerical aperture meta-fibre for flexible optical trapping. Light: Science and Applications, 2021, 10, 57.	16.6	84
31	Optically Tunable Mie Resonance VO_2 Nanoantennas for Metasurfaces in the Visible. ACS Photonics, 2021, 8, 1048-1057.	6.6	52
32	Disorder-Induced Material-Insensitive Optical Response in Plasmonic Nanostructures: Vibrant Structural Colors from Noble Metals. Advanced Materials, 2021, 33, e2007623.	21.0	21
33	Anapole-Assisted Absorption Engineering in Arrays of Coupled Amorphous Gallium Phosphide Nanodisks. ACS Photonics, 2021, 8, 1469-1476.	6.6	29
34	Coherent interaction of atoms with a beam of light confined in a light cage. Light: Science and Applications, 2021, 10, 114.	16.6	16
35	Massively Parallel Arrays of Size-Controlled Metallic Nanogaps with Gap-Widths Down to the Sub- β nm Level. Advanced Materials, 2021, 33, e2100491.	21.0	24
36	Material-Insensitive Optical Response From Disordered Plasmonic Nanostructures. , 2021, , .		0

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37	Fiber-integrated hollow-core light cage for gas spectroscopy. <i>APL Photonics</i> , 2021, 6, .	5.7	6
38	Gallium Phosphide Nanostructures on Transparent Substrates for Nonlinear and Ultrafast Nanophotonics. , 2021, , .		0
39	Generating, probing and utilising photo-induced surface oxygen vacancies for trace molecular detection. , 2021, , .		0
40	Self-Constructed Multiple Plasmonic Hotspots on an Individual Fractal to Amplify Broadband Hot Electron Generation. <i>ACS Nano</i> , 2021, 15, 10553-10564.	14.6	37
41	Anapole-Assisted Absorption Engineering in Arrays of Coupled Amorphous GaP Nanodisks. , 2021, , .		0
42	Fabrication tolerance impact on BIC metasurface resonances. , 2021, , .		0
43	Enhanced light-matter interaction in atomically thin semiconductors and 2D single photon emitters coupled to dielectric nano-antennas. , 2021, , .		0
44	Super-Resolution Mapping of Light-Driven Reactions on Metal Nanostructures. , 2021, , .		0
45	Tailoring the Response of Gold Nanoantennas in Optical Near-Field Measurements: Orientation and Field Size. , 2021, , .		0
46	Orbital-Angular-Momentum-Controlled Hybrid Nanowire Circuit. <i>Nano Letters</i> , 2021, 21, 6220-6227.	9.1	19
47	All-Dielectric Crescent Metasurface Sensor Driven by Bound States in the Continuum. <i>Advanced Functional Materials</i> , 2021, 31, 2104652.	14.9	115
48	Fabrication robustness in BIC metasurfaces. <i>Nanophotonics</i> , 2021, 10, 4305-4312.	6.0	57
49	Acoustic Coupling between Plasmonic Nanoantennas: Detection and Directionality of Surface Acoustic Waves. <i>ACS Photonics</i> , 2021, 8, 2846-2852.	6.6	13
50	Engineering gallium phosphide nanostructures for efficient nonlinear photonics and enhanced spectroscopies. <i>Nanophotonics</i> , 2021, 10, 4261-4271.	6.0	13
51	The Effect of Photoinduced Surface Oxygen Vacancies on the Charge Carrier Dynamics in TiO ₂ Films. <i>Nano Letters</i> , 2021, 21, 8348-8354.	9.1	29
52	Single-step-fabricated disordered metasurfaces for enhanced light extraction from LEDs. <i>Light: Science and Applications</i> , 2021, 10, 180.	16.6	23
53	Fiber-connected 3D Printed Hollow-core Light Cage for Gas Detection. , 2021, , .		0
54	Few Percent Efficient Polarization-Sensitive Conversion in Nonlinear Plasmonic Interactions Inside Oligomeric Gold Structures. <i>Sensors</i> , 2021, 21, 59.	3.8	1

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55	Optical vortices in nanophotonics. Chinese Optics, 2021, 14, 1-20.	0.6	4
56	Tip Coupling and Array Effects of Gold Nanoantennas in Near-Field Microscopy. ACS Photonics, 2021, 8, 3486-3494.	6.6	7
57	Bright single photon emitters with enhanced quantum efficiency in a two-dimensional semiconductor coupled with dielectric nano-antennas. Nature Communications, 2021, 12, 6063.	12.8	36
58	Metasurface Photoelectrodes for Enhanced Solar Fuel Generation. Advanced Energy Materials, 2021, 11, 2102877.	19.5	21
59	Scalable Fabrication of Metallic Nanogaps at the Sub-10 Ånm Level. Advanced Science, 2021, 8, e2102756.	11.2	32
60	Probing the Role of Atomic Defects in Photocatalytic Systems through Photoinduced Enhanced Raman Scattering. ACS Energy Letters, 2021, 6, 4273-4281.	17.4	22
61	3D meta-optics for high-bandwidth twisted light holography. , 2021, , .		0
62	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
63	Broadband SERS detection with disordered plasmonic hybrid aggregates. Nanoscale, 2020, 12, 93-102.	5.6	34
64	Near- and Far-Field Excitation of Topological Plasmonic Metasurfaces. Photonics, 2020, 7, 81.	2.0	8
65	Nanostructured amorphous gallium phosphide on silica for nonlinear and ultrafast nanophotonics. Nanoscale Horizons, 2020, 5, 1500-1508.	8.0	24
66	Mode-Matching Enhancement of Second-Harmonic Generation with Plasmonic Nanopatch Antennas. ACS Photonics, 2020, 7, 3333-3340.	6.6	29
67	Template Dissolution Interfacial Patterning of Single Colloids for Nanoelectrochemistry and Nanosensing. ACS Nano, 2020, 14, 17693-17703.	14.6	25
68	Lead Chalcogenides: Discovering Electron-Transfer-Driven Changes in Chemical Bonding in Lead Chalcogenides (PbX, where X = Te, Se, S, O) (Adv. Mater. 49/2020). Advanced Materials, 2020, 32, 2070370.	21.0	1
69	Dielectric Nanoantennas for Strain Engineering in Atomically Thin Two-Dimensional Semiconductors. ACS Photonics, 2020, 7, 2413-2422.	6.6	26
70	All-Dielectric Silicon Nanoslots for E_r^3 Photoluminescence Enhancement. Physical Review Applied, 2020, 14, .	3.8	17
71	Electron tunneling at the molecularly thin 2D perovskite and graphene van der Waals interface. Nature Communications, 2020, 11, 5483.	12.8	35
72	Complex-amplitude metasurface-based orbital angular momentum holography in momentum space. Nature Nanotechnology, 2020, 15, 948-955.	31.5	386

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73	Electrical control of single-photon emission in highly charged individual colloidal quantum dots. Science Advances, 2020, 6, .	10.3	33
74	Efficient ultrafast all-optical modulation in a nonlinear crystalline gallium phosphide nanodisk at the anapole excitation. Science Advances, 2020, 6, .	10.3	61
75	Direct Detection of Optical Forces of Magnetic Nature in Dielectric Nanoantennas. Nano Letters, 2020, 20, 7627-7634.	9.1	11
76	Plasmonic linear nanomotor using lateral optical forces. Science Advances, 2020, 6, .	10.3	41
77	Discovering Electron-Transfer-Driven Changes in Chemical Bonding in Lead Chalcogenides (PbX, where X = S, Se, Te). ACS Photonics, 2020, 7, 1403-1409.	6.6	19
78	Determination of Nanoscale Mechanical Properties of Polymers via Plasmonic Nanoantennas. ACS Photonics, 2020, 7, 1403-1409.	6.6	19
79	Near-Field Spectroscopy of Cylindrical Phonon-Polariton Antennas. ACS Nano, 2020, 14, 8508-8517.	14.6	11
80	Genetic-Algorithm-Aided Meta-Atom Multiplication for Improved Absorption and Coloration in Nanophotonics. ACS Photonics, 2020, 7, 1716-1722.	6.6	31
81	Manipulating topological valley modes in plasmonic metasurfaces. Nanophotonics, 2020, 9, 657-665.	6.0	27
82	Manipulating disordered plasmonic systems by external cavity with transition from broadband absorption to reconfigurable reflection. Nature Communications, 2020, 11, 1538.	12.8	54
83	Monolayer Conveyor for Stably Trapping and Transporting Sub-10 nm Particles. Laser and Photonics Reviews, 2020, 14, 2000030.	8.7	17
84	IR hot carrier based photodetection in titanium nitride oxide thin film-Si junctions. MRS Advances, 2020, 5, 1843-1850.	0.9	0
85	Anapole Excitations in Oxygen-Vacancy-Rich TiO ₂ Nanoresonators: Tuning the Absorption for Photocatalysis in the Visible Spectrum. ACS Nano, 2020, 14, 2456-2464.	14.6	58
86	Negative Refraction in Time-Varying Strongly Coupled Plasmonic-Antenna-Epsilon-Near-Zero Systems. Physical Review Letters, 2020, 124, 043902.	7.8	69
87	Hot carrier optoelectronics with titanium nitride. , 2020, , .		1
88	Fine-tuning of the optical properties of hollow-core light cages using dielectric nanofilms. Optics Letters, 2020, 45, 196.	3.3	10
89	Complex-amplitude metasurfaces for orbital angular momentum multiplexing holography. , 2020, , .		1
90	Mixed order nonlinear processes from metasurfaces of multi-resonant gold antennas. , 2020, , .		0

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91	Nonlinear Geometric Phase Gradient Metasurfaces beyond the Dipole Approximation. , 2020, , .		0
92	Size-selective optical printing of silicon nanoparticles through their dipolar magnetic resonance. , 2020, , .		0
93	Enhancing hybrid metal-semiconductor systems beyond SERS with PIERS (photo-induced enhanced) Tj ETQq1 1 0.784314 rgBT /Over		2
94	Giant polarization anisotropic optical response from anodic aluminum oxide templates embedded with plasmonic metamaterials. Optics Express, 2020, 28, 29513.	3.4	1
95	Hybrid plasmonic-SERS based biosensing. , 2020, , .		0
96	Nanophotonic approaches to biosensing applications. , 2020, , .		0
97	Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmentedâ€Gold Substrates via Coldâ€Etching. Advanced Optical Materials, 2019, 7, 1900905.	7.3	13
98	Nonlinear PancharatnamâˆBerry Phase Metasurfaces beyond the Dipole Approximation. ACS Photonics, 2019, 6, 2335-2341.	6.6	17
99	From Optical to Chemical Hot Spots in Plasmonics. Accounts of Chemical Research, 2019, 52, 2525-2535.	15.6	131
100	Ultrafast All-Optical Modulation in 2D Hybrid Perovskites. ACS Nano, 2019, 13, 9504-9510.	14.6	71
101	Metasurface orbital angular momentum holography. Nature Communications, 2019, 10, 2986.	12.8	303
102	Plasmon-Enhanced Electron Harvesting in Robust Titanium Nitride Nanostructures. Journal of Physical Chemistry C, 2019, 123, 18521-18527.	3.1	23
103	Selfâ€Assembly of Nanoparticleâ€Spiked Pillar Arrays for Plasmonic Biosensing. Advanced Functional Materials, 2019, 29, 1904257.	14.9	47
104	Enhanced light-matter interaction in an atomically thin semiconductor coupled with dielectric nano-antennas. Nature Communications, 2019, 10, 5119.	12.8	87
105	The Light Cage â€” An on-Chip Hollow-Core Waveguide Implemented by 3D Nanoprinting. , 2019, , .		0
106	Exciting Pseudospin-Dependent Edge States in Plasmonic Metasurfaces. ACS Photonics, 2019, 6, 2985-2995.	6.6	29
107	Dynamics of Photoâ€Induced Surface Oxygen Vacancies in Metalâ€Oxide Semiconductors Studied Under Ambient Conditions. Advanced Science, 2019, 6, 1901841.	11.2	62
108	Coherent Multiphoton Control of Gallium Phosphide Nanodisk Resonances. ACS Photonics, 2019, 6, 2487-2491.	6.6	19

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109	Monitoring plasmonic hot-carrier chemical reactions at the single particle level. Faraday Discussions, 2019, 214, 73-87.	3.2	28
110	Phase-matching and Peak Nonlinearity Enhanced Third-Harmonic Generation in Graphene Plasmonic Coupler. Physical Review Applied, 2019, 11, .	3.8	21
111	Quantifying Figures of Merit for Localized Surface Plasmon Resonance Applications: A Materials Survey. ACS Photonics, 2019, 6, 240-259.	6.6	93
112	Giant and Tunable Optical Nonlinearity in Single-Crystalline 2D Perovskites due to Excitonic and Plasma Effects. Advanced Materials, 2019, 31, e1902685.	21.0	56
113	Ultrafast sub-30-fs all-optical switching based on gallium phosphide. Science Advances, 2019, 5, eaaw3262.	10.3	61
114	Extraordinarily transparent compact metallic metamaterials. Nature Communications, 2019, 10, 2118.	12.8	32
115	Resonant Far- to Near-Field Channeling in Synergetic Multiscale Antennas. ACS Photonics, 2019, 6, 1466-1473.	6.6	4
116	Dynamics of hot electron generation in metallic nanostructures: general discussion. Faraday Discussions, 2019, 214, 123-146.	3.2	21
117	Compact Integration of TiO ₂ Nanoparticles into the Cross-Points of 3D Vertically Stacked Ag Nanowires for Plasmon-Enhanced Photocatalysis. Nanomaterials, 2019, 9, 468.	4.1	17
118	Size-Selective Optical Printing of Silicon Nanoparticles through Their Dipolar Magnetic Resonance. ACS Photonics, 2019, 6, 815-822.	6.6	40
119	TiO ₂ -Enhanced IR Hot Carrier Based Photodetection in Metal Thin Film-Si Junctions. ACS Photonics, 2019, 6, 953-960.	6.6	31
120	Hybrid longitudinal-transverse phonon polaritons. Nature Communications, 2019, 10, 1682.	12.8	46
121	Spectral Screening of the Energy of Hot Holes over a Particle Plasmon Resonance. Nano Letters, 2019, 19, 1867-1874.	9.1	106
122	Fabric Electronics: Autocatalytic Metallization of Fabrics Using Si Ink, for Biosensors, Batteries and Energy Harvesting (Adv. Funct. Mater. 1/2019). Advanced Functional Materials, 2019, 29, 1970002.	14.9	0
123	Nanoscale Design of the Local Density of Optical States. Nano Letters, 2019, 19, 1613-1617.	9.1	38
124	Surface Oxygen Vacancies: Dynamics of Photo-Induced Surface Oxygen Vacancies in Metal-Oxide Semiconductors Studied Under Ambient Conditions (Adv. Sci. 22/2019). Advanced Science, 2019, 6, 1970132.	11.2	3
125	Hollow Core Light Cage: Trapping Light Behind Bars. ACS Photonics, 2019, 6, 649-658.	6.6	31
126	Autocatalytic Metallization of Fabrics Using Si Ink, for Biosensors, Batteries and Energy Harvesting. Advanced Functional Materials, 2019, 29, 1804798.	14.9	27

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127	Efficient Quantum Photonic Phase Shift in a Low Q-Factor Regime. ACS Photonics, 2019, 6, 429-435.	6.6	14
128	Thermodynamic loss mechanisms and strategies for efficient hot-electron photoconversion. Nano Energy, 2019, 55, 164-172.	16.0	50
129	Photo-induced enhanced Raman spectroscopy (PIERS): sensing atomic-defects, explosives and biomolecules. , 2019, , .		2
130	Light guidance in photonic band gap guiding dual-ring light cages implemented by direct laser writing. Optics Letters, 2019, 44, 4016.	3.3	17
131	Dielectric nanocavities with enhanced local density of states. , 2019, , .		0
132	Size-Selective Optical Printing of Silicon Nanoparticles through Their Dipolar Magnetic Resonance. , 2019, , .		0
133	Efficient four wave mixing and low-loss in-coupling in hybrid gap plasmonic waveguides. , 2019, , .		1
134	Exploiting the Nonlinear Optical Response of Gold Nanoantennas for ultrafast pulse characterisation. , 2019, , .		0
135	Plasmonic photo-thermo-electric effect in graphene. , 2019, , .		0
136	Giant and Tunable Optical Nonlinearity in Single-Crystalline 2D Perovskites due to Excitonic and Plasma Effects. , 2019, , .		0
137	The hollow core light cage: diffractionless propagation of light in "quasi-air" inside a 3D nano-printed on-chip hollow core device (Conference Presentation). , 2019, , .		0
138	Collective modes of self-assembled supercluster metamaterials: towards label-free sensing. , 2019, , .		0
139	Surface-Enhanced Spectroscopies of a Molecular Monolayer in an All-Dielectric Nanoantenna. ACS Photonics, 2018, 5, 1546-1557.	6.6	48
140	Highly Stable Plasmon Induced Hot Hole Transfer into Silicon via a SrTiO ₃ Passivation Interface. Advanced Functional Materials, 2018, 28, 1705829.	14.9	24
141	Raman photostability of off-resonant gap-enhanced Raman tags. RSC Advances, 2018, 8, 14434-14444.	3.6	29
142	Nanoscale Mapping and Spectroscopy of Nonradiative Hyperbolic Modes in Hexagonal Boron Nitride Nanostructures. Nano Letters, 2018, 18, 1628-1636.	9.1	55
143	Polarization control of high transmission/reflection switching by all-dielectric metasurfaces. Applied Physics Letters, 2018, 112, .	3.3	34
144	Nanoscale Control of Molecular Self-Assembly Induced by Plasmonic Hot-Electron Dynamics. ACS Nano, 2018, 12, 2184-2192.	14.6	60

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145	Energyâ€Momentum Cathodoluminescence Spectroscopy of Dielectric Nanostructures. ACS Photonics, 2018, 5, 1381-1387.	6.6	22
146	Highly Enhanced Third-Harmonic Generation in 2D Perovskites at Excitonic Resonances. ACS Nano, 2018, 12, 644-650.	14.6	100
147	Selectively Plasmon-Enhanced Second-Harmonic Generation from Monolayer Tungsten Diselenide on Flexible Substrates. ACS Nano, 2018, 12, 1859-1867.	14.6	97
148	Imaging Plasmon Hybridization of Fano Resonances via Hot-Electron-Mediated Absorption Mapping. Nano Letters, 2018, 18, 3400-3406.	9.1	41
149	Metalâ€Dielectric Parabolic Antenna for Directing Single Photons. Nano Letters, 2018, 18, 3060-3065.	9.1	26
150	Photonic surface waves enabled perfect infrared absorption by monolayer graphene. Nano Energy, 2018, 48, 161-169.	16.0	33
151	Synthesis, electronic structure and physical properties of polycrystalline Ba ₂ FePnSe ₅ (Pn = Sb, Bi). Materials Chemistry and Physics, 2018, 203, 202-211.	4.0	4
152	Dynamical Instability of a Nonequilibrium Exciton-Polariton Condensate. ACS Photonics, 2018, 5, 111-118.	6.6	41
153	Enhancing Third-Harmonic Generation with Spatial Nonlocality. ACS Photonics, 2018, 5, 592-598.	6.6	17
154	Facile Electrochemical Synthesis of Pd Nanoparticles with Enhanced Electrocatalytic Properties from Surfactantâ€Free Electrolyte. ChemElectroChem, 2018, 5, 619-629.	3.4	6
155	Homoepitaxial Growth of Largeâ€Scale Highly Organized Transition Metal Dichalcogenide Patterns. Advanced Materials, 2018, 30, 1704674.	21.0	63
156	Sub-20 fs All-Optical Switching in a Single Au-Clad Si Nanodisk. Nano Letters, 2018, 18, 7896-7900.	9.1	45
157	Theory of Graphene Plasmon Cavity. , 2018, , .		0
158	Plasmonic particle-on-film nanocavities: a versatile platform for plasmon-enhanced spectroscopy and photochemistry. Nanophotonics, 2018, 7, 1865-1889.	6.0	141
159	Acoustic Far-Field Hypersonic Surface Wave Detection with Single Plasmonic Nanoantennas. Physical Review Letters, 2018, 121, 253902.	7.8	23
160	Plasmon induced thermoelectric effect in graphene. Nature Communications, 2018, 9, 5190.	12.8	67
161	Second harmonic generation from strongly coupled localized and propagating phonon-polariton modes. Physical Review B, 2018, 98, .	3.2	20
162	Raman Scattering Mapping: Sensitive and Reproducible Immunoassay of Multiple Mycotoxins Using Surfaceâ€Enhanced Raman Scattering Mapping on 3D Plasmonic Nanopillar Arrays (Small 39/2018). Small, 2018, 14, 1870179.	10.0	21

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163	Interaction of an Archimedean spiral structure with orbital angular momentum light. <i>New Journal of Physics</i> , 2018, 20, 095005.	2.9	20
164	Adsorption dynamics of CVD graphene investigated by a contactless microwave method. <i>2D Materials</i> , 2018, 5, 035024.	4.4	6
165	Sensitive and Reproducible Immunoassay of Multiple Mycotoxins Using Surface-Enhanced Raman Scattering Mapping on 3D Plasmonic Nanopillar Arrays. <i>Small</i> , 2018, 14, e1801623.	10.0	67
166	All-dielectric planar chiral metasurface with gradient geometric phase. <i>Optics Express</i> , 2018, 26, 6067.	3.4	117
167	Temperature stability of thin film refractory plasmonic materials. <i>Optics Express</i> , 2018, 26, 15726.	3.4	34
168	Multiphase strontium molybdate thin films for plasmonic local heating applications. <i>Optical Materials Express</i> , 2018, 8, 1806.	3.0	7
169	Theoretical analysis of graphene plasmon cavities. <i>Applied Materials Today</i> , 2018, 12, 283-293.	4.3	12
170	Sub-nanometer Thin Oxide Film Sensing with Localized Surface Phonon Polaritons. <i>ACS Photonics</i> , 2018, 5, 2807-2815.	6.6	52
171	Double Blind Ultrafast Pulse Characterization by Mixed Frequency Generation in a Gold Antenna. <i>ACS Photonics</i> , 2018, 5, 3166-3171.	6.6	20
172	Nanofocusing in SOI-based hybrid plasmonic metal slot waveguides. <i>Optics Express</i> , 2018, 26, 30634.	3.4	17
173	Nonlinear frequency conversion in optical nanoantennas and metasurfaces: materials evolution and fabrication. <i>Opto-Electronic Advances</i> , 2018, 1, 18002101-18002112.	13.3	65
174	Dielectric and low-dimensional-materials nanocavities for non-linear nanophotonics and sensing. , 2018, , .		1
175	Charge transfer in nanoplasmonics as an avenue for control of chemical SERS enhancement and molecular self-assembly. , 2018, , .		0
176	Giant nonlinear response at a plasmonic nanofocus drives efficient four wave mixing over micron length scales. , 2018, , .		0
177	Generation and Detection of Surface Acoustic Waves using Single Plasmonic Nanoresonators. , 2018, , .		1
178	Bridging the Gap between Dielectric Nanophotonics and the Visible Regime with Effectively Lossless Gallium Phosphide Antennas. <i>Nano Letters</i> , 2017, 17, 1219-1225.	9.1	208
179	High-performance functional Renormalization Group calculations for interacting fermions. <i>Computer Physics Communications</i> , 2017, 213, 100-110.	7.5	47
180	Slow cooling and efficient extraction of C-exciton hot carriers in MoS2 monolayer. <i>Nature Communications</i> , 2017, 8, 13906.	12.8	132

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181	Influence of Silver Film Quality on the Threshold of Plasmonic Nanowire Lasers. <i>Advanced Optical Materials</i> , 2017, 5, 1600856.	7.3	22
182	Experimental Demonstration of Tunable Directional Scattering of Visible Light from All-Dielectric Asymmetric Dimers. <i>ACS Photonics</i> , 2017, 4, 489-494.	6.6	78
183	Decoupling absorption and emission processes in super-resolution localization of emitters in a plasmonic hotspot. <i>Nature Communications</i> , 2017, 8, 14513.	12.8	47
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