Andrea Alu

List of Publications by Year
in descending order

999	56,867	764	1851
papers	citations	119 h-index	209 g-index

1038	1038	1038	21376
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Achieving transparency with plasmonic and metamaterial coatings. Physical Review E, 2005, 72, 016623.	0.8	1,346
2	Controlling sound with acoustic metamaterials. Nature Reviews Materials, 2016, 1, .	23.3	1,328
3	Exceptional points in optics and photonics. Science, 2019, 363, .	6.0	1,156
4	Epsilon-near-zero metamaterials and electromagnetic sources: Tailoring the radiation phase pattern. Physical Review B, 2007, 75, .	1.1	876
5	Twisted optical metamaterials for planarized ultrathin broadband circular polarizers. Nature Communications, 2012, 3, 870.	5.8	868
6	Sound Isolation and Giant Linear Nonreciprocity in a Compact Acoustic Circulator. Science, 2014, 343, 516-519.	6.0	820
7	Performing Mathematical Operations with Metamaterials. Science, 2014, 343, 160-163.	6.0	757
8	Full Control of Nanoscale Optical Transmission with a Composite Metascreen. Physical Review Letters, 2013, 110, 203903.	2.9	682
9	Experimental Verification of Epsilon-Near-Zero Metamaterial Coupling and Energy Squeezing Using a Microwave Waveguide. Physical Review Letters, 2008, 100, 033903.	2.9	630
10	Non-reciprocal photonics based on time modulation. Nature Photonics, 2017, 11, 774-783.	15.6	611
11	Atomically Thin Surface Cloak Using Graphene Monolayers. ACS Nano, 2011, 5, 5855-5863.	7.3	605
12	Manipulating light polarization with ultrathin plasmonic metasurfaces. Physical Review B, 2011, 84, .	1.1	602
13	Circuit Elements at Optical Frequencies: Nanoinductors, Nanocapacitors, and Nanoresistors. Physical Review Letters, 2005, 95, 095504.	2.9	565
14	Giant nonlinear response from plasmonic metasurfaces coupled to intersubband transitions. Nature, 2014, 511, 65-69.	13.7	550
15	An invisible acoustic sensor based on parity-time symmetry. Nature Communications, 2015, 6, 5905.	5.8	549
16	Pairing an epsilon-negative slab with a mu-negative slab: Resonance, tunneling and transparency. IEEE Transactions on Antennas and Propagation, 2003, 51, 2558-2571.	3.1	537
17	Observation of higher-order topological acoustic states protected by generalized chiral symmetry. Nature Materials, 2019, 18, 113-120.	13.3	518
18	Magnetic-free non-reciprocity and isolation based on parametrically modulated coupled-resonator loops. Nature Physics, 2014, 10, 923-927.	6.5	511

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19	A Reconfigurable Active Huygens' Metalens. Advanced Materials, 2017, 29, 1606422.	11.1	470
20	Topologically robust sound propagation in an angular-momentum-biased graphene-like resonator lattice. Nature Communications, 2015, 6, 8260.	5.8	466
21	Nanophotonics: Shrinking light-based technology. Science, 2015, 348, 516-521.	6.0	463
22	Floquet topological insulators for sound. Nature Communications, 2016, 7, 11744.	5.8	459
23	Ultrathin Pancharatnamâ€“Berry Metasurface with Maximal Crossâ€Polarization Efficiency. Advanced Materials, 2015, 27, 1195-1200.	11.1	431
24	Topological polaritons and photonic magic angles in twisted Î±-MoO3 bilayers. Nature, 2020, 582, 209-213.	13.7	413
25	Nonlinear metasurfaces: a paradigm shift in nonlinear optics. Materials Today, 2018, 21, 8-21.	8.3	403
26	Mantle cloak: Invisibility induced by a surface. Physical Review B, 2009, 80, .	1.1	386
27	Multifrequency Optical Invisibility Cloak with Layered Plasmonic Shells. Physical Review Letters, 2008, 100, 113901.	2.9	381
28	Metagratings: Beyond the Limits of Graded Metasurfaces for Wave Front Control. Physical Review Letters, 2017, 119, 067404.	2.9	380
29	Tuning the scattering response of optical nanoantennas with nanocircuit loads. Nature Photonics, 2008, 2, 307-310.	15.6	378
30	Chirality detection of enantiomers using twisted optical metamaterials. Nature Communications, 2017, 8, 14180.	5.8	375
31	Electromagnetic Nonreciprocity. Physical Review Applied, 2018, 10, .	1.5	366
32	Giant non-reciprocity at the subwavelength scale using angular momentum-biased metamaterials. Nature Communications, 2013, 4, 2407.	5.8	358
33	Machine-learning reprogrammable metasurface imager. Nature Communications, 2019, 10, 1082.	5.8	343
34	Cloaking a Sensor. Physical Review Letters, 2009, 102, 233901.	2.9	325
35	Experimental observation of a polarization vortex at an optical bound state in the continuum. Nature Photonics, 2018, 12, 397-401.	15.6	325
36	Experimental Verification of Plasmonic Cloaking at Microwave Frequencies with Metamaterials. Physical Review Letters, 2009, 103, 153901.	2.9	321

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37	A subwavelength plasmonic metamolecule exhibiting magnetic-based optical Fano resonance. Nature Nanotechnology, 2013, 8, 95-99.	15.6	317
38	Input Impedance, Nanocircuit Loading, and Radiation Tuning of Optical Nanoantennas. Physical Review Letters, 2008, 101, 043901.	2.9	310
39	Space-time gradient metasurfaces. Physical Review B, 2015, 92, .	1.1	310
40	Plasmonic materials in transparency and cloaking problems: mechanism, robustness, and physical insights. Optics Express, 2007, 15, 3318.	1.7	309
41	Negative effective permeability and left-handed materials at optical frequencies. Optics Express, 2006, 14, 1557.	1.7	301
42	Programmable time-domain digital-coding metasurface for non-linear harmonic manipulation and new wireless communication systems. National Science Review, 2019, 6, 231-238.	4.6	298
43	Tunable nanophotonics enabled by chalcogenide phase-change materials. Nanophotonics, 2020, 9, 1189-1241.	2.9	294
44	Tailoring the Dispersion of Plasmonic Nanorods To Realize Broadband Optical Meta-Waveplates. Nano Letters, 2013, 13, 1086-1091.	4.5	290
45	Nonreciprocity and magnetic-free isolation based on optomechanical interactions. Nature Communications, 2016, 7, 13662.	5.8	282
46	First-principles homogenization theory for periodic metamaterials. Physical Review B, 2011, 84, .	1.1	281
47	Hyperbolic Plasmons and Topological Transitions Over Uniaxial Metasurfaces. Physical Review Letters, 2015, 114, 233901.	2.9	280
48	Coherent perfect absorbers: linear control of light with light. Nature Reviews Materials, 2017, 2, .	23.3	280
49	Hybrid bilayer plasmonic metasurface efficiently manipulates visible light. Science Advances, 2016, 2, e1501168.	4.7	278
50	Mantle cloaking using thin patterned metasurfaces. Physical Review B, 2011, 84, .	1.1	275
51	Embedded Photonic Eigenvalues in 3D Nanostructures. Physical Review Letters, 2014, 112, .	2.9	268
52	Higher-order topological states in photonic kagome crystals with long-range interactions. Nature Photonics, 2020, 14, 89-94.	15.6	266
53	Nanophotonic engineering of far-field thermal emitters. Nature Materials, 2019, 18, 920-930.	13.3	261
54	Nonlocal Metasurfaces for Optical Signal Processing. Physical Review Letters, 2018, 121, 173004.	2.9	250

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55	Nonreciprocity in acoustic and elastic materials. Nature Reviews Materials, 2020, 5, 667-685.	23.3	243
56	Static non-reciprocity in mechanical metamaterials. Nature, 2017, 542, 461-464.	13.7	237
57	Guided Modes in a Waveguide Filled With a Pair of Single-Negative (SNG), Double-Negative (DNG), and/or Double-Positive (DPS) Layers. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 199-210.	2.9	234
58	Wireless at the Nanoscale: Optical Interconnects using Matched Nanoantennas. Physical Review Letters, 2010, 104, 213902.	2.9	217
59	Antiâ€“parity-time symmetry in diffusive systems. Science, 2019, 364, 170-173.	6.0	217
60	Breaking temporal symmetries for emission and absorption. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3471-3475.	3.3	216
61	Plasmonic and metamaterial cloaking: physical mechanisms and potentials. Journal of Optics, 2008, 10, 093002.	1.5	215
62	Fullâ€Color Complexâ€Amplitude Vectorial Holograms Based on Multiâ€Freedom Metasurfaces. Advanced Functional Materials, 2020, 30, 1910610.	7.8	214
63	Negative Refraction and Planar Focusing Based on Parity-Time Symmetric Metasurfaces. Physical Review Letters, 2014, 113, 023903.	2.9	212
64	Parallel-plate metamaterials for cloaking structures. Physical Review E, 2007, 75, 036603.	0.8	207
65	Boosting optical nonlinearities in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Îµ</mml:mi></mml:math>-near-zero plasmonic channels. Physical Review B, 2012, 85, .	1.1	200
66	Theory of linear chains of metamaterial/plasmonic particles as subdiffraction optical nanotransmission lines. Physical Review B, 2006, 74, .	1.1	199
67	Subwavelength, Compact, Resonant Patch Antennas Loaded With Metamaterials. IEEE Transactions on Antennas and Propagation, 2007, 55, 13-25.	3.1	199
68	Extraordinary Sound Transmission through Density-Near-Zero Ultranarrow Channels. Physical Review Letters, 2013, 111, 055501.	2.9	193
69	Directional Janus Metasurface. Advanced Materials, 2020, 32, e1906352.	11.1	193
70	Analogue computing with metamaterials. Nature Reviews Materials, 2021, 6, 207-225.	23.3	193
71	Design of Miniaturized Metamaterial Patch Antennas With mu-Negative Loading. IEEE Transactions on Antennas and Propagation, 2008, 56, 1640-1647.	3.1	191
72	Gradient Nonlinear Pancharatnam-Berry Metasurfaces. Physical Review Letters, 2015, 115, 207403.	2.9	190

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73	Optical nanotransmission lines: synthesis of planar left-handed metamaterials in the infrared and visible regimes. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 571.	0.9	188
74	Leaky-Wave Theory, Techniques, and Applications: From Microwaves to Visible Frequencies. Proceedings of the IEEE, 2015, 103, 793-821.	16.4	188
75	Polarizabilities and effective parameters for collections of spherical nanoparticles formed by pairs of concentric double-negative, single-negative, andâˆ•or double-positive metamaterial layers. Journal of Applied Physics, 2005, 97, 094310.	1.1	187
76	Generalized parityâ€“time symmetry condition for enhanced sensor telemetry. Nature Electronics, 2018, 1, 297-304.	13.1	186
77	Analytical modeling of conformal mantle cloaks for cylindrical objects using sub-wavelength printed and slotted arrays. Journal of Applied Physics, 2012, 112, .	1.1	183
78	Broadband absorbers and selective emitters based on plasmonic Brewster metasurfaces. Physical Review B, 2013, 87, .	1.1	183
79	Wave-front Transformation with Gradient Metasurfaces. Physical Review X, 2016, 6, .	2.8	183
80	Unidirectional Cloaking Based on Metasurfaces with Balanced Loss and Gain. Physical Review Applied, 2015, 4, .	1.5	178
81	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="bold-script">P</mml:mi><mml:mi mathvariant="bold-script">T</mml:mi></mml:math>Metamaterials via Complex-Coordinate Transformation Optics. Physical Review Letters, 2013, 110, 173901.	2.9	176
82	Flatland Optics with Hyperbolic Metasurfaces. ACS Photonics, 2016, 3, 2211-2224.	3.2	175
83	Terahertz Antenna Phase Shifters Using Integrally-Gated Graphene Transmission-Lines. IEEE Transactions on Antennas and Propagation, 2013, 61, 1528-1537.	3.1	174
84	Plasmonic Brewster Angle: Broadband Extraordinary Transmission through Optical Gratings. Physical Review Letters, 2011, 106, 123902.	2.9	173
85	Invisibility and Cloaking Based on Scattering Cancellation. Advanced Materials, 2012, 24, OP281-304.	11.1	172
86	Photonics of time-varying media. Advanced Photonics, 2022, 4, .	6.2	169
87	Broadening the Cloaking Bandwidth with Non-Foster Metasurfaces. Physical Review Letters, 2013, 111, 233001.	2.9	167
88	MoirÃ© Hyperbolic Metasurfaces. Nano Letters, 2020, 20, 3217-3224.	4.5	167
89	Nanostructured graphene metasurface for tunable terahertz cloaking. New Journal of Physics, 2013, 15, 123029.	1.2	162
90	Anomalies in light scattering. Advances in Optics and Photonics, 2019, 11, 892.	12.1	161

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91	Broadband passive isolators based on coupled nonlinear resonances. Nature Electronics, 2018, 1, 113-119.	13.1	160
92	Recent progress in gradient metasurfaces. Journal of the Optical Society of America B: Optical Physics, 2016, 33, A21.	0.9	158
93	Experimental verification of three-dimensional plasmonic cloaking in free-space. New Journal of Physics, 2012, 14, 013054.	1.2	157
94	Metamaterial, plasmonic and nanophotonic devices. Reports on Progress in Physics, 2017, 80, 036401.	8.1	157
95	Self-induced topological protection in nonlinear circuit arrays. Nature Electronics, 2018, 1, 178-182.	13.1	155
96	Negative refraction, gain and nonlinear effects in hyperbolic metamaterials. Optics Express, 2013, 21, 15037.	1.7	152
97	Cloaking and transparency for collections of particles with metamaterial and plasmonic covers. Optics Express, 2007, 15, 7578.	1.7	150
98	Invisibility and Cloaking: Origins, Present, and Future Perspectives. Physical Review Applied, 2015, 4, .	1.5	149
99	Separation of valley excitons in a MoS2 monolayer using a subwavelength asymmetric groove array. Nature Photonics, 2019, 13, 180-184.	15.6	147
100	Roadmap on metasurfaces. Journal of Optics (United Kingdom), 2019, 21, 073002.	1.0	146
101	Overcoming Mutual Blockage Between Neighboring Dipole Antennas Using a Low-Profile Patterned Metasurface. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1414-1417.	2.4	145
102	Inverse-designed non-reciprocal pulse router for chip-based LiDAR. Nature Photonics, 2020, 14, 369-374.	15.6	145
103	Chiral Quasi-Bound States in the Continuum. Physical Review Letters, 2021, 126, 073001.	2.9	145
104	High-Index Dielectric Metasurfaces Performing Mathematical Operations. Nano Letters, 2019, 19, 8418-8423.	4.5	143
105	Interface nano-optics with van der Waals polaritons. Nature, 2021, 597, 187-195.	13.7	143
106	Self-induced topological transitions and edge states supported by nonlinear staggered potentials. Physical Review B, 2016, 93, .	1.1	141
107	Nonlinear Plasmonic Cloaks to Realize Giant All-Optical Scattering Switching. Physical Review Letters, 2012, 108, 263905.	2.9	139
108	Dielectric sensing in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïµ</mml:mi></mml:math>-near-zero narrow waveguide channels. Physical Review B, 2008, 78, .	1.1	137

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109	Phase-Induced Frequency Conversion and Doppler Effect With Time-Modulated Metasurfaces. IEEE Transactions on Antennas and Propagation, 2020, 68, 1607-1617.	3.1	135
110	Magnetless Microwave Circulators Based on Spatiotemporally Modulated Rings of Coupled Resonators. IEEE Transactions on Microwave Theory and Techniques, 2016, , 1-17.	2.9	134
111	Nanophotonics with 2D transition metal dichalcogenides [Invited]. Optics Express, 2018, 26, 15972.	1.7	134
112	Angular-Momentum-Biased Nanorings To Realize Magnetic-Free Integrated Optical Isolation. ACS Photonics, 2014, 1, 198-204.	3.2	133
113	Plasmonic piezoelectric nanomechanical resonator for spectrally selective infrared sensing. Nature Communications, 2016, 7, 11249.	5.8	132
114	Planar chiral metasurfaces with maximal and tunable chiroptical response driven by bound states in the continuum. Nature Communications, 2022, 13, .	5.8	131
115	Experimental realization of optical lumped nanocircuits at infrared wavelengths. Nature Materials, 2012, 11, 208-212.	13.3	130
116	Transmission-line analysis of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Îµ</mml:mi></mml:math>-near-zeroâ€“filled narrow channels. Physical Review E, 2008, 78, 016604.	0.8	127
117	Far-field probing of leaky topological states in all-dielectric metasurfaces. Nature Communications, 2018, 9, 909.	5.8	127
118	Anisotropic Mantle Cloaks for TM and TE Scattering Reduction. IEEE Transactions on Antennas and Propagation, 2015, 63, 1775-1788.	3.1	126
119	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency. Nature Communications, 2022, 13, 1696.	5.8	125
120	Intrinsic Optical Properties and Enhanced Plasmonic Response of Epitaxial Silver. Advanced Materials, 2014, 26, 6106-6110.	11.1	122
121	Hyperbolic metasurfaces: surface plasmons, light-matter interactions, and physical implementation using graphene strips [Invited]. Optical Materials Express, 2015, 5, 2313.	1.6	122
122	Spectroscopy and Biosensing with Optically Resonant Dielectric Nanostructures. Advanced Optical Materials, 2018, 6, 1701094.	3.6	120
123	Demonstration of a third-order hierarchy of topological states in a three-dimensional acoustic metamaterial. Science Advances, 2020, 6, eaay4166.	4.7	120
124	Dynamical theory of artificial optical magnetism produced by rings of plasmonic nanoparticles. Physical Review B, 2008, 78, .	1.1	119
125	Reflectionless sharp bends and corners in waveguides using epsilon-near-zero effects. Journal of Applied Physics, 2009, 105, .	1.1	119
126	Roadmap on optical metamaterials. Journal of Optics (United Kingdom), 2016, 18, 093005.	1.0	118

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127	The quest for magnetic plasmons at optical frequencies. Optics Express, 2009, 17, 5723.	1.7	117
128	Terahertz carpet cloak based on a ring resonator metasurface. Physical Review B, 2015, 91, .	1.1	114
129	Demonstration of a quantized acoustic octupole topological insulator. Nature Communications, 2020, 11, 2108.	5.8	114
130	Demonstration of an ultralow profile cloak for scattering suppression of a finite-length rod in free space. New Journal of Physics, 2013, 15, 033037.	1.2	113
131	Full-space Cloud of Random Points with a Scrambling Metasurface. Light: Science and Applications, 2018, 7, 63.	7.7	112
132	Restoring the physical meaning of metamaterial constitutive parameters. Physical Review B, 2011, 83, .	1.1	111
133	Individual Nanoantennas Loaded with Three-Dimensional Optical Nanocircuits. Nano Letters, 2013, 13, 142-147.	4.5	111
134	Subwavelength ultrasonic circulator based on spatiotemporal modulation. Physical Review B, 2015, 91, .	1.1	110
135	Modifying magnetic dipole spontaneous emission with nanophotonic structures. Laser and Photonics Reviews, 2017, 11, 1600268.	4.4	110
136	Mantle cloaking for co-site radio-frequency antennas. Applied Physics Letters, 2016, 108, .	1.5	109
137	Enhanced Sensing and Nondegraded Thermal Noise Performance Based on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:mrow></mml:math> -Symmetric Electronic Circuits with a Sixth-Order Exceptional Point. Physical Review Letters, 2019, 123, 213901.	2.9	109
138	Ultra-Thin Unidirectional Carpet Cloak and Wavefront Reconstruction With Graded Metasurfaces. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1775-1778.	2.4	108
139	Metamaterial Covers Over a Small Aperture. IEEE Transactions on Antennas and Propagation, 2006, 54, 1632-1643.	3.1	107
140	All Optical Metamaterial Circuit Board at the Nanoscale. Physical Review Letters, 2009, 103, 143902.	2.9	103
141	Black phosphorus plasmonics: anisotropic elliptical propagation and nonlocality-induced canalization. Journal of Optics (United Kingdom), 2016, 18, 104006.	1.0	102
142	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. Nature, 2021, 596, 362-366.	13.7	102
143	Nonreciprocal Graphene Devices and Antennas Based on Spatiotemporal Modulation. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1529-1532.	2.4	101
144	Maximum Willis Coupling in Acoustic Scatterers. Physical Review Letters, 2018, 120, 254301.	2.9	101

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145	Terahertz Metamaterial Devices Based on Graphene Nanostructures. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 748-756.	2.0	100
146	The quest for optical magnetism: from split-ring resonators to plasmonic nanoparticles and nanoclusters. Journal of Materials Chemistry C, 2014, 2, 9059-9072.	2.7	100
147	Three-dimensional nanotransmission lines at optical frequencies: A recipe for broadband negative-refraction optical metamaterials. Physical Review B, 2007, 75, .	1.1	99
148	Interplay of Magnetic Responses in All-Dielectric Oligomers To Realize Magnetic Fano Resonances. ACS Photonics, 2015, 2, 724-729.	3.2	99
149	Synchronized conductivity modulation to realize broadband lossless magnetic-free non-reciprocity. Nature Communications, 2017, 8, 795.	5.8	95
150	Origins of Willis coupling and acoustic bianisotropy in acoustic metamaterials through source-driven homogenization. Physical Review B, 2017, 96, .	1.1	95
151	Hertzian plasmonic nanodimer as an efficient optical nanoantenna. Physical Review B, 2008, 78, .	1.1	94
152	Homogenization of plasmonic metasurfaces modeled as transmission-line loads. Metamaterials, 2011, 5, 90-96.	2.2	94
153	Ultrafast Electrically Tunable Polaritonic Metasurfaces. Advanced Optical Materials, 2014, 2, 1057-1063.	3.6	93
154	Spin- and valley-polarized one-way Klein tunneling in photonic topological insulators. Science Advances, 2018, 4, eaap8802.	4.7	93
155	Optical nanoantenna arrays loaded with nonlinear materials. Physical Review B, 2010, 82, .	1.1	92
156	Spectrum Control through Discrete Frequency Diffraction in the Presence of Photonic Gauge Potentials. Physical Review Letters, 2018, 120, 133901.	2.9	92
157	Dual-interface gratings for broadband absorption enhancement in thin-film solar cells. Physical Review B, 2012, 85, .	1.1	91
158	Enhanced superradiance in epsilon-near-zero plasmonic channels. Physical Review B, 2013, 87, .	1.1	91
159	Metamaterials and plasmonics: From nanoparticles to nanoantenna arrays, metasurfaces, and metamaterials. Chinese Physics B, 2014, 23, 047809.	0.7	91
160	Self-Assembled Epitaxial Auâ€“Oxide Vertically Aligned Nanocomposites for Nanoscale Metamaterials. Nano Letters, 2016, 16, 3936-3943.	4.5	91
161	Optical circulation in a multimode optomechanical resonator. Nature Communications, 2018, 9, 1798.	5.8	91
162	Ultraâ€Narrowband Metamaterial Absorbers for High Spectral Resolution Infrared Spectroscopy. Advanced Optical Materials, 2019, 7, 1801236.	3.6	91

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163	Recent advances on optical metasurfaces. Journal of Optics (United Kingdom), 2014, 16, 123001.	1.0	90
164	Magnet-Less Circulators Based on Spatiotemporal Modulation of Bandstop Filters in a Delta Topology. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 911-926.	2.9	90
165	Ultrathin gradient nonlinear metasurface with a giant nonlinear response. Optica, 2016, 3, 283.	4.8	89
166	Tunable Fano Resonance and Plasmonâ€“Exciton Coupling in Single Au Nanotriangles on Monolayer WS₂ at Room Temperature. Advanced Materials, 2018, 30, e1705779.	11.1	88
167	Controlling Scattering and Absorption With Metamaterial Covers. IEEE Transactions on Antennas and Propagation, 2014, 62, 4220-4229.	3.1	87
168	Probing the Band Structure of Topological Silicon Photonic Lattices in the Visible Spectrum. Physical Review Letters, 2019, 122, 117401.	2.9	87
169	Phonon Polaritons and Hyperbolic Response in van der Waals Materials. Advanced Optical Materials, 2020, 8, 1901393.	3.6	87
170	Single-Negative, Double-Negative, and Low-index Metamaterials and their Electromagnetic Applications. IEEE Antennas and Propagation Magazine, 2007, 49, 23-36.	1.2	86
171	Ultrathin Secondâ€Harmonic Metasurfaces with Recordâ€High Nonlinear Optical Response. Advanced Optical Materials, 2016, 4, 664-670.	3.6	86
172	Optical Nonreciprocity Based on Optomechanical Coupling. Physical Review Applied, 2017, 7, .	1.5	86
173	Dual-Polarized Reduction of Dipole Antenna Blockage Using Mantle Cloaks. IEEE Transactions on Antennas and Propagation, 2015, 63, 4827-4834.	3.1	85
174	Observation of Hofstadter butterfly and topological edge states in reconfigurable quasi-periodic acoustic crystals. Communications Physics, 2019, 2, .	2.0	85
175	Comparing plasmonic and dielectric gratings for absorption enhancement in thin-film organic solar cells. Optics Express, 2012, 20, A39.	1.7	84
176	Electrically and Magnetically Biased Graphene-Based Cylindrical Waveguides: Analysis and Applications as Reconfigurable Antennas. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 951-960.	2.0	84
177	Tunneling of obliquely incident waves through<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric epsilon-near-zero bilayers. Physical Review B, 2014, 89, .	1.1	83
178	Doppler cloak restores invisibility to objects in relativistic motion. Physical Review B, 2017, 95, .	1.1	83
179	Tunable Resonance Coupling in Single Si Nanoparticleâ€“Monolayer WS₂ Structures. ACS Applied Materials & Interfaces, 2018, 10, 16690-16697.	4.0	82
180	Light squeezing through arbitrarily shaped plasmonic channels and sharp bends. Physical Review B, 2008, 78, .	1.1	81

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181	How does zero forward-scattering in magnetodielectric nanoparticles comply with the optical theorem?. Journal of Nanophotonics, 2010, 4, 041590.	0.4	81
182	Experimental Demonstration of Metasurfaceâ€Based Ultrathin Carpet Cloaks for Millimeter Waves. Advanced Optical Materials, 2017, 5, 1600606.	3.6	80
183	Subwavelength Imaging Using Phase-Conjugating Nonlinear Nanoantenna Arrays. Nano Letters, 2011, 11, 5514-5518.	4.5	79
184	Boosting Molecular Fluorescence with a Plasmonic Nanolauncher. Physical Review Letters, 2009, 103, 043902.	2.9	78
185	Hyperbolic shear polaritons in low-symmetry crystals. Nature, 2022, 602, 595-600.	13.7	78
186	Bistable and Self-Tunable Negative-Index Metamaterial at Optical Frequencies. Physical Review Letters, 2011, 106, 105503.	2.9	77
187	Coherent virtual absorption based on complex zero excitation for ideal light capturing. Optica, 2017, 4, 1457.	4.8	77
188	Giant enhancement of Faraday rotation due to electromagnetically induced transparency in all-dielectric magneto-optical metasurfaces. Optics Letters, 2018, 43, 1838.	1.7	77
189	Cloaked Near-Field Scanning Optical Microscope Tip for Noninvasive Near-Field Imaging. Physical Review Letters, 2010, 105, 263906.	2.9	76
190	Parity-Time Symmetric Nonlocal Metasurfaces: All-Angle Negative Refraction and Volumetric Imaging. Physical Review X, 2016, 6, .	2.8	76
191	Fundamental bounds on the operation of Fano nonlinear isolators. Physical Review B, 2018, 97, .	1.1	75
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