

# Andrea Alu

## List of Publications by Year in descending order

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999  
papers

56,867  
citations

764

119  
h-index

1851

209  
g-index

1038  
all docs

1038  
docs citations

1038  
times ranked

21376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on multimode light shaping. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 013001.	1.0	41
2	Metagratings for Efficient Wavefront Manipulation. <i>IEEE Photonics Journal</i> , 2022, 14, 1-13.	1.0	26
3	Roadmap on topological photonics. <i>JPhys Photonics</i> , 2022, 4, 032501.	2.2	56
4	Observation of localized magnetic plasmon skyrmions. <i>Nature Communications</i> , 2022, 13, 8.	5.8	61
5	Reciprocity of thermal diffusion in time-modulated systems. <i>Nature Communications</i> , 2022, 13, 167.	5.8	24
6	Dark-State Induced Quantum Nonreciprocity. <i>Advanced Quantum Technologies</i> , 2022, 5, .	1.8	8
7	Pseudospin-Orbit Coupling for Chiral Light Routings in Gauge-Flux-Biased Coupled Microring Resonators. <i>ACS Photonics</i> , 2022, 9, 586-596.	3.2	2
8	Low-Symmetry Nanophotonics. <i>ACS Photonics</i> , 2022, 9, 2-24.	3.2	13
9	Relaxing Symmetry Rules for Nonlinear Optical Interactions in Van der Waals Materials via Strong Light-Matter Coupling. <i>ACS Photonics</i> , 2022, 9, 503-510.	3.2	5
10	Metastructures: From physics to application. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
11	Efficient Phase Conjugation in a Space-Time Leaky Waveguide. <i>ACS Photonics</i> , 2022, 9, 979-984.	3.2	13
12	Diffusive topological transport in spatiotemporal thermal lattices. <i>Nature Physics</i> , 2022, 18, 450-456.	6.5	39
13	Hyperbolic shear polaritons in low-symmetry crystals. <i>Nature</i> , 2022, 602, 595-600.	13.7	78
14	Nonlocal Scatterer for Compact Wave-Based Analog Computing. <i>Physical Review Letters</i> , 2022, 128, 073201.	2.9	19
15	Photonics of time-varying media. <i>Advanced Photonics</i> , 2022, 4, .	6.2	169
16	Stability bounds on superluminal propagation in active structures. <i>Nature Communications</i> , 2022, 13, 1115.	5.8	1
17	Enhanced light-matter interaction in two-dimensional transition metal dichalcogenides. <i>Reports on Progress in Physics</i> , 2022, 85, 046401.	8.1	74
18	Moiré-Driven Topological Transitions and Extreme Anisotropy in Elastic Metasurfaces. <i>Advanced Science</i> , 2022, 9, e2200181.	5.6	7

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19	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency. Nature Communications, 2022, 13, 1696.	5.8	125
20	Extreme Diffraction Control in Metagratings Leveraging Bound States in the Continuum and Exceptional Points. Laser and Photonics Reviews, 2022, 16, .	4.4	29
21	Non-reciprocal parity-time symmetry breaking based on magneto-optical and gain/loss double ring resonators. Optical Materials Express, 2022, 12, 1453.	1.6	5
22	Room-temperature Observation of Near-Intrinsic Exciton Linewidth in Monolayer WS <sub>2</sub> . Advanced Materials, 2022, 34, e2108721.	11.1	11
23	Quasi-bound states in resonant dielectric metastructures for integrated photonics. , 2022, , .		0
24	Radio-transparent dipole antenna based on a metasurface cloak. Nature Communications, 2022, 13, 1114.	5.8	14
25	Boundary-Induced Embedded Eigenstate in a Single Resonator for Advanced Sensing. ACS Photonics, 2022, 9, 1936-1943.	3.2	13
26	Message from the incoming Editor-In-Chief: editorial. Optical Materials Express, 2022, 12, 374.	1.6	1
27	Fast encirclement of an exceptional point for highly efficient and compact chiral mode converters. Nature Communications, 2022, 13, 2123.	5.8	33
28	Room-temperature Observation of Near-Intrinsic Exciton Linewidth in Monolayer WS <sub>2</sub> (Adv. Mater. 15/2022). Advanced Materials, 2022, 34, .	11.1	2
29	Limitations of Sensing at an Exceptional Point. ACS Photonics, 2022, 9, 1554-1566.	3.2	16
30	Nonreciprocity and Faraday Rotation at Time Interfaces. Physical Review Letters, 2022, 128, 173901.	2.9	26
31	Chip-scale Floquet topological insulators for 5G wireless systems. Nature Electronics, 2022, 5, 300-309.	13.1	24
32	Fundamentals of acoustic Willis media. Wave Motion, 2022, 112, 102930.	1.0	1
33	Floquet metamaterials. ELight, 2022, 2, .	11.9	72
34	Rydberg atom-based field sensing enhancement using a split-ring resonator. Applied Physics Letters, 2022, 120, .	1.5	22
35	On-Chip Microwave Frequency Combs in a Superconducting Nanoelectromechanical Device. Nano Letters, 2022, 22, 5459-5465.	4.5	4
36	Design of electromagnetic spatial filters exploiting the normal polarization of all-dielectric metasurfaces. , 2022, , .		0

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37	Exploiting Composite Vortices in the Design of Reconfigurable Intelligent Surfaces. , 2022, , .		0
38	Zero-index metamaterials for classical and quantum light. Applied Physics Letters, 2022, 120, 260401.	1.5	1
39	Spin-orbit-locked hyperbolic polariton vortices carrying reconfigurable topological charges. ELight, 2022, 2, .	11.9	49
40	Planar chiral metasurfaces with maximal and tunable chiroptical response driven by bound states in the continuum. Nature Communications, 2022, 13, .	5.8	131
41	Surface-wave coupling in double Floquet sheets supporting phased temporal Wood anomalies. Nanophotonics, 2022, 11, 3509-3517.	2.9	3
42	Diffraction Nonlocal Metasurfaces. Laser and Photonics Reviews, 2022, 16, .	4.4	63
43	Efficient Analysis of Wave Propagation in Metasurface Arrays Based on Eigenvalue Perturbation. IEEE Transactions on Antennas and Propagation, 2021, 69, 2706-2714.	3.1	5
44	Analogue computing with metamaterials. Nature Reviews Materials, 2021, 6, 207-225.	23.3	193
45	Self-Assembled Periodic Nanostructures Using Martensitic Phase Transformations. Nano Letters, 2021, 21, 1246-1252.	4.5	9
46	Universal Frequency-Domain Analysis of N-Path Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 569-580.	3.5	1
47	Dual-Layer Radio-Transparent Dielectric Core Metasurface Antenna. IEEE Open Journal of Antennas and Propagation, 2021, 2, 585-590.	2.5	3
48	Embedded eigenstate in a single resonator for sensing. , 2021, , .		0
49	Tunable plasmonic bound states in the continuum in the visible range. Physical Review B, 2021, 103, .	1.1	43
50	Dual-Circularly Polarized Topological Patch Antenna With Pattern Diversity. IEEE Access, 2021, 9, 48769-48776.	2.6	21
51	Angular Memory of Photonic Metasurfaces. IEEE Transactions on Antennas and Propagation, 2021, 69, 7720-7728.	3.1	29
52	Solving integral equations with inverse-designed metagratings at optical wavelengths. , 2021, , .		2
53	Homogenization and design of acoustic Willis metasurfaces. Physical Review B, 2021, 103, .	1.1	17
54	Reflecting metagrating-enhanced thin-film organic light emitting devices. Applied Physics Letters, 2021, 118, .	1.5	5

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55	Chiral Quasi-Bound States in the Continuum. <i>Physical Review Letters</i> , 2021, 126, 073001.	2.9	145
56	Glide-Symmetric Acoustic Waveguides for Extreme Sensing and Isolation. <i>Physical Review Applied</i> , 2021, 15, .	1.5	10
57	Compressibility-Near-Zero Acoustic Radiation. <i>Physical Review Applied</i> , 2021, 15, .	1.5	2
58	Broadband Field Localization, Density of States, and Nonlinearity Enhancement in Nonreciprocal and Topological Hotspots. <i>Physical Review Applied</i> , 2021, 15, .	1.5	2
59	Optically transparent microwave absorber based on water-based moth-eye structures. <i>Optics Express</i> , 2021, 29, 9190.	1.7	18
60	Temporal multilayer structures for designing higher-order transfer functions using time-varying metamaterials. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	66
61	Near-Field Characterization of Higher-Order Topological Photonic States at Optical Frequencies. <i>Advanced Materials</i> , 2021, 33, e2004376.	11.1	24
62	Wavefront-selective Fano resonant metasurfaces. <i>Advanced Photonics</i> , 2021, 3, .	6.2	40
63	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. <i>Advanced Materials</i> , 2021, 33, e2007236.	11.1	15
64	Free-Space Nonreciprocal Transmission Based on Nonlinear Coupled Fano Metasurfaces. <i>Photonics</i> , 2021, 8, 139.	0.9	14
65	Ultrafast optical switching and power limiting in intersubband polaritonic metasurfaces. <i>Optica</i> , 2021, 8, 606.	4.8	26
66	Topological scattering singularities and embedded eigenstates for polarization control and sensing applications. <i>Photonics Research</i> , 2021, 9, 1310.	3.4	31
67	Surface-Wave Propagation on Non-Hermitian Metasurfaces With Extreme Anisotropy. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021, 69, 2060-2071.	2.9	10
68	Twistronics for photons: opinion. <i>Optical Materials Express</i> , 2021, 11, 1377.	1.6	30
69	Quantum Embedded Superstates. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000121.	1.8	7
70	Parametric Enhancement of Radiation from Electrically Small Antennas. <i>Physical Review Applied</i> , 2021, 15, .	1.5	8
71	Dielectric Nanospheres: Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres ( <i>Adv. Mater.</i> 20/2021). <i>Advanced Materials</i> , 2021, 33, 2170153.	11.1	1
72	Odd Willis coupling induced by broken time-reversal symmetry. <i>Nature Communications</i> , 2021, 12, 2615.	5.8	21

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73	Reply to "Comment on "Scattering Cancellation-Based Cloaking for the Maxwell-Cattaneo Heat Waves" Physical Review Applied, 2021, 15, .	1.5	1
74	Higher-order topoelectrical semimetal realized via synthetic gauge fields. APL Photonics, 2021, 6, .	3.0	12
75	Ultra-Wideband Switched-Capacitor Delays and Circulators Theory and Implementation. IEEE Journal of Solid-State Circuits, 2021, 56, 1412-1424.	3.5	10
76	Enhanced light-matter interactions at photonic magic-angle topological transitions. Applied Physics Letters, 2021, 118, .	1.5	36
77	Tailoring Light with Layered and Moiré Metasurfaces. Trends in Chemistry, 2021, 3, 342-358.	4.4	69
78	All-optical nonreciprocity due to valley polarization pumping in transition metal dichalcogenides. Nature Communications, 2021, 12, 3746.	5.8	44
79	Acoustic nonreciprocity. Journal of Applied Physics, 2021, 129, .	1.1	33
80	Thermal Metasurfaces: Complete Emission Control by Combining Local and Nonlocal Light-Matter Interactions. Physical Review X, 2021, 11, .	2.8	39
81	Optical isolator based on chiral light-matter interactions in a ring resonator integrating a dichroic magneto-optical material. Applied Physics Letters, 2021, 118, .	1.5	13
82	Detection of Subsurface, Nanometer-Scale Crystallographic Defects by Nonlinear Light Scattering and Localization. Advanced Optical Materials, 2021, 9, 2002252.	3.6	2
83	Non-Foster acoustic radiation from an active piezoelectric transducer. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	4
84	Unitary Excitation Transfer between Coupled Cavities Using Temporal Switching. Physical Review Letters, 2021, 127, 013902.	2.9	8
85	Gain-Free Parity-Time Symmetry for Evanescent Fields. Physical Review Letters, 2021, 127, 014301.	2.9	6
86	Experimental observation of topological Z2 exciton-polaritons in transition metal dichalcogenide monolayers. Nature Communications, 2021, 12, 4425.	5.8	42
87	Topological insulator in two synthetic dimensions based on an optomechanical resonator. Optica, 2021, 8, 1024.	4.8	8
88	Tailoring exceptional points in a hybrid PT-symmetric and anti-PT-symmetric scattering system. Nanophotonics, 2021, 10, 3723-3733.	2.9	8
89	Transverse acoustic spin and torque from pure spinning of objects. Physical Review B, 2021, 104, .	1.1	3
90	Approximate analog computing with metatronic circuits. Communications Physics, 2021, 4, .	2.0	16

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91	Nonlinearity-Induced Nonreciprocityâ€™Part II. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3584-3597.	2.9	23
92	Nonlocal topological insulators: Deterministic aperiodic arrays supporting localized topological states protected by nonlocal symmetries. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2100691118.	3.3	5
93	Nonlinearity-Induced Nonreciprocityâ€™Part I. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3569-3583.	2.9	30
94	Exploiting the spatial dispersion of all-dielectric metasurfaces for realizing ultra-thin angular filters and anti-reflection coatings at extreme angles. , 2021, , .		0
95	Topological Fields and Their Applications to Antenna Systems. , 2021, , .		0
96	Design of High-Q Passband Filters Implemented Through Multipolar All-Dielectric Metasurfaces. IEEE Transactions on Antennas and Propagation, 2021, 69, 5142-5147.	3.1	18
97	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. Nature, 2021, 596, 362-366.	13.7	102
98	Extreme anisotropy and dispersion engineering in locally resonant acoustic metamaterials. Journal of the Acoustical Society of America, 2021, 150, 2040-2045.	0.5	10
99	Acoustic spoof surface plasmon polaritons for filtering, isolation and sensing. Results in Physics, 2021, 28, 104645.	2.0	6
100	Broadband Topological Slow Light through Brillouin Zone Winding. Physical Review Letters, 2021, 127, 123601.	2.9	15
101	Interface nano-optics with van der Waals polaritons. Nature, 2021, 597, 187-195.	13.7	143
102	Magnetless Circulators Based on Synthetic Angular-Momentum Bias: Recent Advances and Applications. IEEE Antennas and Propagation Magazine, 2021, , 0-0.	1.2	3
103	Observation of anti-parity-time-symmetry, phase transitions and exceptional points in an optical fibre. Nature Communications, 2021, 12, 486.	5.8	59
104	Tunable Chiral Optics in All-Solid-Phase Reconfigurable Dielectric Nanostructures. Nano Letters, 2021, 21, 973-979.	4.5	42
105	Temporal switching to extend the bandwidth of thin absorbers. Optica, 2021, 8, 24.	4.8	44
106	Higher-order harmonics scattering cancellation by thin metasurfaces for dielectric cylinders. , 2021, , .		1
107	Unitary Energy Transfer Between Coupled Cavities Using Temporal Switching. , 2021, , .		0
108	Propagation and scattering effects in metastructures based on temporal metamaterials. , 2021, , .		2

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109	Advanced Functionalities Enabled by Dipolar and Multipolar All-Dielectric Metasurfaces. , 2021, , .		0
110	Exceptional Point Conditions in Perturbed Coupled Resonators: A Generalized Approach. , 2021, , .		0
111	Structuring the Reflected Beams by a Single Metasurface by Exploiting Composite Vortex Properties. , 2021, , .		0
112	Temporal Parity-Time Symmetry for Extreme Energy Transformations. Physical Review Letters, 2021, 127, 153903.	2.9	36
113	Bandwidth of Singular Plasmonic Resonators in Relation to the Chu Limit. ACS Photonics, 2021, 8, 3249-3260.	3.2	3
114	Topological phonon-polariton funneling in midinfrared metasurfaces. Science, 2021, 374, 225-227.	6.0	48
115	Topological photonics and beyond: introduction. Photonics Research, 2021, 9, TPB1.	3.4	4
116	Generalization of exceptional point conditions in perturbed coupled resonators. Physical Review B, 2021, 104, .	1.1	3
117	Efficient nonreciprocal mode transitions in spatiotemporally modulated acoustic metamaterials. Science Advances, 2021, 7, eabj1198.	4.7	40
118	Propagation and scattering effects in temporal metastructures. Journal of Physics: Conference Series, 2021, 2015, 012120.	0.3	0
119	Overcoming Intensity Saturation in Nonlinear Multiple-Quantum-Well Metasurfaces for High-Efficiency Frequency Upconversion. Advanced Materials, 2021, , 2106902.	11.1	1
120	Highly Chiral Exceptional Point in Perturbed Coupled Resonators. Journal of Physics: Conference Series, 2021, 2015, 012122.	0.3	0
121	Nonreciprocal pulse shaping and chaotic modulation with asymmetric noninstantaneous nonlinear resonators. Physical Review A, 2021, 104, .	1.0	3
122	Parity-Time Symmetry and Exceptional Points [Electromagnetic Perspectives]. IEEE Antennas and Propagation Magazine, 2021, 63, 110-121.	1.2	21
123	Optomechanical dissipative solitons. Nature, 2021, 600, 75-80.	13.7	48
124	Filter Architecture Operating Beyond the Q Limit and With Real-Time Bandwidth Tunability. , 2021, , .		0
125	Scalable Metagrating for Efficient Ultrasonic Focusing. Physical Review Applied, 2021, 16, .	1.5	20
126	Opportunities for Millimeter-Wave Wireless Technologies Using Metasurfaces. , 2021, , .		0



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127	A Self-Filtering Horn Antenna Based on Multipolar All-Dielectric Metasurfaces. , 2021, , .		0
128	Harnessing Spectral Singularities in Non-Hermitian Cylindrical Structures. IEEE Transactions on Antennas and Propagation, 2020, 68, 1704-1716.	3.1	11
129	Metasurface Modeling for the Manipulation of Goos-Hänchen and Imbert-Fedorov Shifts. IEEE Transactions on Antennas and Propagation, 2020, 68, 1523-1532.	3.1	6
130	Phonon Polaritons and Hyperbolic Response in van der Waals Materials. Advanced Optical Materials, 2020, 8, 1901393.	3.6	87
131	One-Way Hyperbolic Metasurfaces Based on Synthetic Motion. IEEE Transactions on Antennas and Propagation, 2020, 68, 1739-1747.	3.1	21
132	Phase-Induced Frequency Conversion and Doppler Effect With Time-Modulated Metasurfaces. IEEE Transactions on Antennas and Propagation, 2020, 68, 1607-1617.	3.1	135
133	A Topological Design Tool for the Synthesis of Antenna Radiation Patterns. IEEE Transactions on Antennas and Propagation, 2020, 68, 1851-1859.	3.1	41
134	Directional Janus Metasurface. Advanced Materials, 2020, 32, e1906352.	11.1	193
135	Dynamic Beam Steering With Reconfigurable Metagratings. IEEE Transactions on Antennas and Propagation, 2020, 68, 1542-1552.	3.1	52
136	Surface Impedance Modeling of All-Dielectric Metasurfaces. IEEE Transactions on Antennas and Propagation, 2020, 68, 1799-1811.	3.1	38
137	Decoupling and Cloaking of Interleaved Phased Antenna Arrays Using Elliptical Metasurfaces. IEEE Transactions on Antennas and Propagation, 2020, 68, 4997-5002.	3.1	30
138	Higher-order topological states in photonic kagome crystals with long-range interactions. Nature Photonics, 2020, 14, 89-94.	15.6	266
139	Gap-Plasmon-Enhanced Second-Harmonic Generation in Epsilon-Near-Zero Nanolayers. ACS Photonics, 2020, 7, 174-179.	3.2	23
140	Magnet-Free Nonreciprocity [Scanning the Section]. Proceedings of the IEEE, 2020, 108, 1682-1683.	16.4	2
141	Suppressing material loss in the visible and near-infrared range for functional nanophotonics using bandgap engineering. Nature Communications, 2020, 11, 5055.	5.8	29
142	Nonreciprocal photonic topological order driven by uniform optical pumping. Physical Review B, 2020, 102, .	1.1	9
143	Ultra Compact, Ultra Wideband, DC-1GHz CMOS Circulator Based on Quasi-Electrostatic Wave Propagation in Commutated Switched Capacitor Networks. , 2020, , .		5
144	Multifunctional Nonreciprocal Metasurfaces Based on Spatiotemporal Modulation. , 2020, , .		0

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145	Microwave Nonreciprocity. Proceedings of the IEEE, 2020, 108, 1728-1758.	16.4	62
146	Reconfigurable Floquet elastodynamic topological insulator based on synthetic angular momentum bias. Science Advances, 2020, 6, eaba8656.	4.7	51
147	Doppler Cloak: Concept and Realistic Implementation Through Space-Time Modulated Metamaterials and Time-Modulated Metasurfaces. , 2020, , .		1
148	Metasurface-Based Radar Jammers and Deceptors Implemented Through Time-Varying Metasurfaces. , 2020, , .		5
149	Collective near-field coupling and nonlocal phenomena in infrared-phononic metasurfaces for nano-light canalization. Nature Communications, 2020, 11, 3663.	5.8	70
150	Coherent Perfect Diffraction in Metagratings. Advanced Materials, 2020, 32, e2002341.	11.1	29
151	Hamiltonian Hopping for Efficient Chiral Mode Switching in Encircling Exceptional Points. Physical Review Letters, 2020, 125, 187403.	2.9	44
152	Re-moving the Scattered Energy from Dielectric Objects in Spatial and Frequency Domain for Cloaking Techniques. , 2020, , .		0
153	Full-visible transmissive metagratings with large angle/wavelength/polarization tolerance. Nanoscale, 2020, 12, 20604-20609.	2.8	22
154	Wood Anomalies and Surface-Wave Excitation with a Time Grating. Physical Review Letters, 2020, 125, 127403.	2.9	46
155	Parity-time Symmetry Based on Time Modulation. Physical Review Applied, 2020, 14, .	1.5	22
156	Acoustic Power Divider Based on Compressibility-Near-Zero Propagation. Physical Review Applied, 2020, 14, .	1.5	5
157	Implementing radial anisotropy with self-similar structures. Physical Review B, 2020, 102, .	1.1	0
158	Demonstration of higher-order topological States in photonic kagome lattice with next-nearest-neighbour coupling. AIP Conference Proceedings, 2020, , .	0.3	0
159	Guest Editorial: Special Cluster on Space-Time Modulated Antennas and Materials. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1838-1841.	2.4	4
160	Loss-Assisted Metasurface at an Exceptional Point. ACS Photonics, 2020, 7, 3321-3327.	3.2	39
161	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. Nature Communications, 2020, 11, 6086.	5.8	67
162	Scattering cancellation technique for acoustic spinning objects. Physical Review B, 2020, 101, .	1.1	19

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163	Virtual Critical Coupling. ACS Photonics, 2020, 7, 1468-1475.	3.2	36
164	Virtual Parity-Time Symmetry. Physical Review Letters, 2020, 124, 193901.	2.9	53
165	Topological polaritons and photonic magic angles in twisted $\text{I}\pm\text{MoO}_3$ bilayers. Nature, 2020, 582, 209-213.	13.7	413
166	Robust Multiplexing with Topoelectrical Higher-Order Chern Insulators. Physical Review Applied, 2020, 13, .	1.5	19
167	Role of Synchronization in Magnetless Nonreciprocal Devices Based on Commutated Transmission Lines. Physical Review Applied, 2020, 13, .	1.5	1
168	Dual-Polarization Analog 2D Image Processing with Nonlocal Metasurfaces. ACS Photonics, 2020, 7, 1799-1805.	3.2	59
169	Full-Color Complex-Amplitude Vectorial Holograms Based on Multi-Freedom Metasurfaces. Advanced Functional Materials, 2020, 30, 1910610.	7.8	214
170	Metamaterials and Metasurfaces—Historical Context, Recent Advances, and Future Directions. IEEE Transactions on Antennas and Propagation, 2020, 68, 1223-1231.	3.1	56
171	Inverse-designed non-reciprocal pulse router for chip-based LiDAR. Nature Photonics, 2020, 14, 369-374.	15.6	145
172	Robust Scattered Fields from Adiabatically Driven Targets around Exceptional Points. Physical Review Letters, 2020, 124, 133905.	2.9	10
173	Reconfigurable Acoustic Metagrating for High-Efficiency Anomalous Reflection. Physical Review Applied, 2020, 13, .	1.5	54
174	Line Waves in Non-Hermitian Metasurfaces. ACS Photonics, 2020, 7, 2064-2072.	3.2	29
175	Berberman Embedded Eigenstates for Narrow-Band Absorption and Thermal Emission. Physical Review Applied, 2020, 13, .	1.5	39
176	Routing Optical Spin and Pseudospin with Metasurfaces. Physical Review Applied, 2020, 14, .	1.5	14
177	Nonreciprocity in acoustic and elastic materials. Nature Reviews Materials, 2020, 5, 667-685.	23.3	243
178	Scattering theory and cancellation of gravity-flexural waves of floating plates. Physical Review B, 2020, 101, .	1.1	5
179	New Self-Organization Route to Tunable Narrowband Optical Filters and Polarizers Demonstrated with $\text{ZnO}/\text{ZnWO}_4$ Eutectic Composite. Advanced Optical Materials, 2020, 8, 1901617.	3.6	19
180	Active Nanophotonics [Scanning the Issue]. Proceedings of the IEEE, 2020, 108, 625-627.	16.4	1

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181	Demonstration of a quantized acoustic octupole topological insulator. Nature Communications, 2020, 11, 2108.	5.8	114
182	Eutectic Nano/Microstructure: New Self-Organization Route to Tunable Narrowband Optical Filters and Polarizers Demonstrated with ZnO/ZnWO <sub>4</sub> Eutectic Composite (Advanced Optical) Tj ETQq0 30rgBT /Overlock 10	3.0	0
183	Resonant Metagratings for Spectral and Angular Control of Light for Colored Rooftop Photovoltaics. ACS Applied Energy Materials, 2020, 3, 3150-3156.	2.5	14
184	Efficient Focusing with Large Numerical Aperture Using a Hybrid Metalens. Physical Review Applied, 2020, 13, .	1.5	52
185	Demonstration of a third-order hierarchy of topological states in a three-dimensional acoustic metamaterial. Science Advances, 2020, 6, eaay4166.	4.7	120
186	Active Nanophotonics. Proceedings of the IEEE, 2020, 108, 628-654.	16.4	40
187	Moiré Hyperbolic Metasurfaces. Nano Letters, 2020, 20, 3217-3224.	4.5	167
188	Nonreciprocal Wavefront Manipulation in Synthetically Moving Metagratings. Photonics, 2020, 7, 28.	0.9	14
189	Theory and Design of Multifunctional Space-Time Metasurfaces. Physical Review Applied, 2020, 13, .	1.5	75
190	Manipulating the scattering pattern with non-Hermitian particle arrays. Optics Express, 2020, 28, 19492.	1.7	6
191	Nonreciprocal Devices in Silicon Photonics. Optics and Photonics News, 2020, 31, 38.	0.4	1
192	Nonreciprocal cavities and the time-bandwidth limit: reply. Optica, 2020, 7, 1102.	4.8	4
193	Tunable nanophotonics enabled by chalcogenide phase-change materials. Nanophotonics, 2020, 9, 1189-1241.	2.9	294
194	Giant midinfrared nonlinearity based on multiple quantum well polaritonic metasurfaces. Nanophotonics, 2020, 10, 667-678.	2.9	9
195	Probability-Density-Based Deep Learning Paradigm for the Fuzzy Design of Functional Metastructures. Research, 2020, 2020, 8757403.	2.8	19
196	Structuring Nonlinear Wavefront Emitted from Monolayer Transition-Metal Dichalcogenides. Research, 2020, 2020, 9085782.	2.8	40
197	Topological wave insulators: a review. Comptes Rendus Physique, 2020, 21, 467-499.	0.3	18
198	Exceptional points in fiber optomechanics. , 2020, , .		0

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