

Andrea Alu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

727
papers

38,090
citations

99
h-index

171
g-index

1,038
ext. papers

48,137
ext. citations

7.6
avg, IF

8.4
L-index

#	Paper	IF	Citations
727	Observation of localized magnetic plasmon skyrmions.. <i>Nature Communications</i> , 2022 , 13, 8	17.4	11
726	Reciprocity of thermal diffusion in time-modulated systems.. <i>Nature Communications</i> , 2022 , 13, 167	17.4	4
725	Low-Symmetry Nanophotonics. <i>ACS Photonics</i> , 2022 , 9, 2-24	6.3	0
724	Metagratings for Efficient Wavefront Manipulation. <i>IEEE Photonics Journal</i> , 2022 , 14, 1-13	1.8	4
723	Hyperbolic shear polaritons in low-symmetry crystals.. <i>Nature</i> , 2022 , 602, 595-600	50.4	15
722	Nonlocal Scatterer for Compact Wave-Based Analog Computing.. <i>Physical Review Letters</i> , 2022 , 128, 073201	7.4	3
721	Photonics of time-varying media. <i>Advanced Photonics</i> , 2022 , 4,	8.1	17
720	Stability bounds on superluminal propagation in active structures.. <i>Nature Communications</i> , 2022 , 13, 1115	17.4	
719	Moiré-Driven Topological Transitions and Extreme Anisotropy in Elastic Metasurfaces.. <i>Advanced Science</i> , 2022 , e2200181	13.6	1
718	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency.. <i>Nature Communications</i> , 2022 , 13, 1696	17.4	21
717	Non-reciprocal parity-time symmetry breaking based on magneto-optical and gain/loss double ring resonators. <i>Optical Materials Express</i> , 2022 , 12, 1453	2.6	1
716	Room-temperature Observation of Near-intrinsic Exciton Linewidth in Monolayer WS ₂ .. <i>Advanced Materials</i> , 2022 , e2108721	24	2
715	Radio-transparent dipole antenna based on a metasurface cloak.. <i>Nature Communications</i> , 2022 , 13, 1114	7.4	2
714	Fast encirclement of an exceptional point for highly efficient and compact chiral mode converters.. <i>Nature Communications</i> , 2022 , 13, 2123	17.4	3
713	Room-Temperature Observation of Near-Intrinsic Exciton Linewidth in Monolayer WS ₂ (Adv. Mater. 15/2022). <i>Advanced Materials</i> , 2022 , 34, 2270115	24	
712	Nonreciprocity and Faraday Rotation at Time Interfaces.. <i>Physical Review Letters</i> , 2022 , 128, 173901	7.4	10
711	Fundamentals of acoustic Willis media. <i>Wave Motion</i> , 2022 , 102930	1.8	

710	Rydberg atom-based field sensing enhancement using a split-ring resonator. <i>Applied Physics Letters</i> , 2022 , 120, 204001	3.4	2
709	Parity-Time Symmetry and Exceptional Points [Electromagnetic Perspectives]. <i>IEEE Antennas and Propagation Magazine</i> , 2021 , 63, 110-121	1.7	1
708	Optomechanical dissipative solitons. <i>Nature</i> , 2021 , 600, 75-80	50.4	3
707	Temporal switching to extend the bandwidth of thin absorbers. <i>Optica</i> , 2021 , 8, 24	8.6	19
706	Efficient nonreciprocal mode transitions in spatiotemporally modulated acoustic metamaterials. <i>Science Advances</i> , 2021 , 7, eabj1198	14.3	6
705	Propagation and scattering effects in temporal metastructures. <i>Journal of Physics: Conference Series</i> , 2021 , 2015, 012120	0.3	
704	Overcoming Intensity Saturation in Nonlinear Multiple-Quantum-Well Metasurfaces for High-Efficiency Frequency Upconversion. <i>Advanced Materials</i> , 2021 , e2106902	24	
703	Highly Chiral Exceptional Point in Perturbed Coupled Resonators. <i>Journal of Physics: Conference Series</i> , 2021 , 2015, 012122	0.3	
702	Temporal Parity-Time Symmetry for Extreme Energy Transformations. <i>Physical Review Letters</i> , 2021 , 127, 153903	7.4	7
701	Topological phonon-polariton funneling in midinfrared metasurfaces. <i>Science</i> , 2021 , 374, 225-227	33.3	10
700	Topological photonics and beyond: introduction. <i>Photonics Research</i> , 2021 , 9, TPB1	6	0
699	Tunable Chiral Optics in All-Solid-Phase Reconfigurable Dielectric Nanostructures. <i>Nano Letters</i> , 2021 , 21, 973-979	11.5	21
698	Broadband Field Localization, Density of States, and Nonlinearity Enhancement in Nonreciprocal and Topological Hotspots. <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
697	Optically transparent microwave absorber based on water-based moth-eye structures. <i>Optics Express</i> , 2021 , 29, 9190-9198	3.3	7
696	Temporal multilayer structures for designing higher-order transfer functions using time-varying metamaterials. <i>Applied Physics Letters</i> , 2021 , 118, 101901	3.4	27
695	Near-Field Characterization of Higher-Order Topological Photonic States at Optical Frequencies. <i>Advanced Materials</i> , 2021 , 33, e2004376	24	9
694	Wavefront-selective Fano resonant metasurfaces. <i>Advanced Photonics</i> , 2021 , 3,	8.1	13
693	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. <i>Advanced Materials</i> , 2021 , 33, e2007236	24	5

692	Free-Space Nonreciprocal Transmission Based on Nonlinear Coupled Fano Metasurfaces. <i>Photonics</i> , 2021 , 8, 139	2.2	5
691	Ultrafast optical switching and power limiting in intersubband polaritonic metasurfaces. <i>Optica</i> , 2021 , 8, 606	8.6	5
690	Surface-Wave Propagation on Non-Hermitian Metasurfaces With Extreme Anisotropy. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2060-2071	4.1	4
689	Twistronics for photons: opinion. <i>Optical Materials Express</i> , 2021 , 11, 1377	2.6	14
688	Quantum Embedded Superstates. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2000121	4.3	3
687	Dielectric Nanospheres: Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres (Adv. Mater. 20/2021). <i>Advanced Materials</i> , 2021 , 33, 2170153	24	0
686	Odd Willis coupling induced by broken time-reversal symmetry. <i>Nature Communications</i> , 2021 , 12, 2615	17.4	6
685	Higher-order topoelectrical semimetal realized via synthetic gauge fields. <i>APL Photonics</i> , 2021 , 6, 050802	5.2	3
684	Ultra-Wideband Switched-Capacitor Delays and Circulators—Theory and Implementation. <i>IEEE Journal of Solid-State Circuits</i> , 2021 , 56, 1412-1424	5.5	2
683	Enhanced light-matter interactions at photonic magic-angle topological transitions. <i>Applied Physics Letters</i> , 2021 , 118, 211101	3.4	14
682	Tailoring Light with Layered and Moiré Metasurfaces. <i>Trends in Chemistry</i> , 2021 , 3, 342-358	14.8	29
681	All-optical nonreciprocity due to valley polarization pumping in transition metal dichalcogenides. <i>Nature Communications</i> , 2021 , 12, 3746	17.4	18
680	Acoustic nonreciprocity. <i>Journal of Applied Physics</i> , 2021 , 129, 210903	2.5	5
679	Thermal Metasurfaces: Complete Emission Control by Combining Local and Nonlocal Light-Matter Interactions. <i>Physical Review X</i> , 2021 , 11,	9.1	8
678	Optical isolator based on chiral light-matter interactions in a ring resonator integrating a dichroic magneto-optical material. <i>Applied Physics Letters</i> , 2021 , 118, 241104	3.4	3
677	Detection of Subsurface, Nanometer-Scale Crystallographic Defects by Nonlinear Light Scattering and Localization. <i>Advanced Optical Materials</i> , 2021 , 9, 2002252	8.1	0
676	Non-Foster acoustic radiation from an active piezoelectric transducer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
675	Unitary Excitation Transfer between Coupled Cavities Using Temporal Switching. <i>Physical Review Letters</i> , 2021 , 127, 013902	7.4	1

674	Gain-Free Parity-Time Symmetry for Evanescent Fields. <i>Physical Review Letters</i> , 2021 , 127, 014301	7.4	1
673	Experimental observation of topological Z exciton-polaritons in transition metal dichalcogenide monolayers. <i>Nature Communications</i> , 2021 , 12, 4425	17.4	12
672	Topological insulator in two synthetic dimensions based on an optomechanical resonator. <i>Optica</i> , 2021 , 8, 1024	8.6	2
671	Efficient Analysis of Wave Propagation in Metasurface Arrays Based on Eigenvalue Perturbation. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 2706-2714	4.9	1
670	Analogue computing with metamaterials. <i>Nature Reviews Materials</i> , 2021 , 6, 207-225	73.3	63
669	Self-Assembled Periodic Nanostructures Using Martensitic Phase Transformations. <i>Nano Letters</i> , 2021 , 21, 1246-1252	11.5	4
668	Universal Frequency-Domain Analysis of N-Path Networks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 569-580	3.9	1
667	Dual-Layer Radio-Transparent Dielectric Core Metasurface Antenna. <i>IEEE Open Journal of Antennas and Propagation</i> , 2021 , 2, 585-590	1.9	2
666	Tunable plasmonic bound states in the continuum in the visible range. <i>Physical Review B</i> , 2021 , 103,	3.3	18
665	Dual-Circularly Polarized Topological Patch Antenna With Pattern Diversity. <i>IEEE Access</i> , 2021 , 9, 48769-48776	3.7	3
664	. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	7
663	Solving integral equations with inverse-designed metagratings at optical wavelengths 2021 ,		1
662	Homogenization and design of acoustic Willis metasurfaces. <i>Physical Review B</i> , 2021 , 103,	3.3	3
661	Reflecting metagrating-enhanced thin-film organic light emitting devices. <i>Applied Physics Letters</i> , 2021 , 118, 053302	3.4	2
660	Chiral Quasi-Bound States in the Continuum. <i>Physical Review Letters</i> , 2021 , 126, 073001	7.4	36
659	Glide-Symmetric Acoustic Waveguides for Extreme Sensing and Isolation. <i>Physical Review Applied</i> , 2021 , 15,	4.3	2
658	Compressibility-Near-Zero Acoustic Radiation. <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
657	Tailoring exceptional points in a hybrid PT-symmetric and anti-PT-symmetric scattering system. <i>Nanophotonics</i> , 2021 ,	6.3	1

656	Nonlinearity-Induced Nonreciprocity Part II. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 3584-3597	4.1	9
655	Nonlinearity-Induced Nonreciprocity Part I. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 3569-3583	4.1	10
654	Design of High-Q Passband Filters Implemented Through Multipolar All-Dielectric Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5142-5147	4.9	5
653	Ghost hyperbolic surface polaritons in bulk anisotropic crystals. <i>Nature</i> , 2021 , 596, 362-366	50.4	22
652	Extreme anisotropy and dispersion engineering in locally resonant acoustic metamaterials. <i>Journal of the Acoustical Society of America</i> , 2021 , 150, 2040	2.2	5
651	Acoustic spoof surface plasmon polaritons for filtering, isolation and sensing. <i>Results in Physics</i> , 2021 , 28, 104645	3.7	1
650	Broadband Topological Slow Light through Brillouin Zone Winding. <i>Physical Review Letters</i> , 2021 , 127, 123601	7.4	2
649	Interface nano-optics with van der Waals polaritons. <i>Nature</i> , 2021 , 597, 187-195	50.4	28
648	Magnetless Circulators Based on Synthetic Angular-Momentum Bias: Recent Advances and Applications. <i>IEEE Antennas and Propagation Magazine</i> , 2021 , 0-0	1.7	0
647	Observation of anti-parity-time-symmetry, phase transitions and exceptional points in an optical fibre. <i>Nature Communications</i> , 2021 , 12, 486	17.4	16
646	Scalable Metagrating for Efficient Ultrasonic Focusing. <i>Physical Review Applied</i> , 2021 , 16,	4.3	1
645	Loss-Assisted Metasurface at an Exceptional Point. <i>ACS Photonics</i> , 2020 , 7, 3321-3327	6.3	8
644	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. <i>Nature Communications</i> , 2020 , 11, 6086	17.4	32
643	Scattering cancellation technique for acoustic spinning objects. <i>Physical Review B</i> , 2020 , 101,	3.3	7
642	Virtual Critical Coupling. <i>ACS Photonics</i> , 2020 , 7, 1468-1475	6.3	14
641	Virtual Parity-Time Symmetry. <i>Physical Review Letters</i> , 2020 , 124, 193901	7.4	23
640	Topological polaritons and photonic magic angles in twisted hMoO bilayers. <i>Nature</i> , 2020 , 582, 209-213	50.4	174
639	Robust Multiplexing with Topoelectrical Higher-Order Chern Insulators. <i>Physical Review Applied</i> , 2020 , 13,	4.3	6

638	Dual-Polarization Analog 2D Image Processing with Nonlocal Metasurfaces. <i>ACS Photonics</i> , 2020 , 7, 1799-1805	6.3	26
637	Full-Color Complex-Amplitude Vectorial Holograms Based on Multi-Freedom Metasurfaces. <i>Advanced Functional Materials</i> , 2020 , 30, 1910610	15.6	116
636	Metamaterials and Metasurfaces: Historical Context, Recent Advances, and Future Directions. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1223-1231	4.9	26
635	Inverse-designed non-reciprocal pulse router for chip-based LiDAR. <i>Nature Photonics</i> , 2020 , 14, 369-374	33.9	73
634	Robust Scattered Fields from Adiabatically Driven Targets around Exceptional Points. <i>Physical Review Letters</i> , 2020 , 124, 133905	7.4	4
633	Reconfigurable Acoustic Metagrating for High-Efficiency Anomalous Reflection. <i>Physical Review Applied</i> , 2020 , 13,	4.3	22
632	Line Waves in Non-Hermitian Metasurfaces. <i>ACS Photonics</i> , 2020 , 7, 2064-2072	6.3	4
631	Berremian Embedded Eigenstates for Narrow-Band Absorption and Thermal Emission. <i>Physical Review Applied</i> , 2020 , 13,	4.3	19
630	Routing Optical Spin and Pseudospin with Metasurfaces. <i>Physical Review Applied</i> , 2020 , 14,	4.3	4
629	Nonreciprocity in acoustic and elastic materials. <i>Nature Reviews Materials</i> , 2020 , 5, 667-685	73.3	92
628	Scattering theory and cancellation of gravity-flexural waves of floating plates. <i>Physical Review B</i> , 2020 , 101,	3.3	2
627	New Self-Organization Route to Tunable Narrowband Optical Filters and Polarizers Demonstrated with ZnO/ZnWO ₄ Eutectic Composite. <i>Advanced Optical Materials</i> , 2020 , 8, 1901617	8.1	13
626	Demonstration of a quantized acoustic octupole topological insulator. <i>Nature Communications</i> , 2020 , 11, 2108	17.4	43
625	Eutectic Nano/Microstructure: New Self-Organization Route to Tunable Narrowband Optical Filters and Polarizers Demonstrated with ZnO/ZnWO ₄ Eutectic Composite (Advanced Optical Materials 7/2020). <i>Advanced Optical Materials</i> , 2020 , 8, 2070027	8.1	
624	Resonant Metagratings for Spectral and Angular Control of Light for Colored Rooftop Photovoltaics. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3150-3156	6.1	7
623	Efficient Focusing with Large Numerical Aperture Using a Hybrid Metalens. <i>Physical Review Applied</i> , 2020 , 13,	4.3	18
622	Demonstration of a third-order hierarchy of topological states in a three-dimensional acoustic metamaterial. <i>Science Advances</i> , 2020 , 6, eaay4166	14.3	50
621	. <i>Proceedings of the IEEE</i> , 2020 , 108, 628-654	14.3	18

620	Moiré Hyperbolic Metasurfaces. <i>Nano Letters</i> , 2020 , 20, 3217-3224	11.5	75
619	Manipulating the scattering pattern with non-Hermitian particle arrays. <i>Optics Express</i> , 2020 , 28, 19492-19507	19.5	3
618	Nonreciprocal Devices in Silicon Photonics. <i>Optics and Photonics News</i> , 2020 , 31, 38	1.9	1
617	Nonreciprocal cavities and the time-bandwidth limit: reply. <i>Optica</i> , 2020 , 7, 1102	8.6	2
616	Tunable nanophotonics enabled by chalcogenide phase-change materials. <i>Nanophotonics</i> , 2020 , 9, 1189-1241	13.4	134
615	Giant midinfrared nonlinearity based on multiple quantum well polaritonic metasurfaces. <i>Nanophotonics</i> , 2020 , 10, 667-678	6.3	5
614	Mantle cloaking for decoupling of interleaved phased antenna arrays in 5G applications 2020 ,		2
613	Inverse designed metagratings for far-field integral equations solving 2020 ,		1
612	Probability-Density-Based Deep Learning Paradigm for the Fuzzy Design of Functional Metastructures. <i>Research</i> , 2020 , 2020, 8757403	7.8	11
611	Structuring Nonlinear Wavefront Emitted from Monolayer Transition-Metal Dichalcogenides. <i>Research</i> , 2020 , 2020, 9085782	7.8	25
610	Topological wave insulators: a review. <i>Comptes Rendus Physique</i> , 2020 , 21, 467-499	1.4	2
609	Ultrafast optical switching and power limiting in intersubband polaritonic metasurfaces 2020 ,		2
608	Phonon Polaritons and Hyperbolic Response in van der Waals Materials. <i>Advanced Optical Materials</i> , 2020 , 8, 1901393	8.1	49
607	One-Way Hyperbolic Metasurfaces Based on Synthetic Motion. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1739-1747	4.9	6
606	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1607-1617	4.9	55
605	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1851-1859	4.9	17
604	Directional Janus Metasurface. <i>Advanced Materials</i> , 2020 , 32, e1906352	24	111
603	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1542-1552	4.9	26

602	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1799-1811	4.9	13
601	Decoupling and Cloaking of Interleaved Phased Antenna Arrays Using Elliptical Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 4997-5002	4.9	18
600	Higher-order topological states in photonic kagome crystals with long-range interactions. <i>Nature Photonics</i> , 2020 , 14, 89-94	33.9	91
599	Gap-Plasmon-Enhanced Second-Harmonic Generation in Epsilon-Near-Zero Nanolayers. <i>ACS Photonics</i> , 2020 , 7, 174-179	6.3	13
598	Suppressing material loss in the visible and near-infrared range for functional nanophotonics using bandgap engineering. <i>Nature Communications</i> , 2020 , 11, 5055	17.4	17
597	Nonreciprocal photonic topological order driven by uniform optical pumping. <i>Physical Review B</i> , 2020 , 102,	3.3	5
596	. <i>Proceedings of the IEEE</i> , 2020 , 108, 1728-1758	14.3	25
595	Reconfigurable Floquet elastodynamic topological insulator based on synthetic angular momentum bias. <i>Science Advances</i> , 2020 , 6, eaba8656	14.3	22
594	Collective near-field coupling and nonlocal phenomena in infrared-phononic metasurfaces for nano-light canalization. <i>Nature Communications</i> , 2020 , 11, 3663	17.4	35
593	Coherent Perfect Diffraction in Metagratings. <i>Advanced Materials</i> , 2020 , 32, e2002341	24	12
592	Hamiltonian Hopping for Efficient Chiral Mode Switching in Encircling Exceptional Points. <i>Physical Review Letters</i> , 2020 , 125, 187403	7.4	11
591	Full-visible transmissive metagratings with large angle/wavelength/polarization tolerance. <i>Nanoscale</i> , 2020 , 12, 20604-20609	7.7	10
590	Wood Anomalies and Surface-Wave Excitation with a Time Grating. <i>Physical Review Letters</i> , 2020 , 125, 127403	7.4	21
589	Parity-time Symmetry Based on Time Modulation. <i>Physical Review Applied</i> , 2020 , 14,	4.3	11
588	Acoustic Power Divider Based on Compressibility-Near-Zero Propagation. <i>Physical Review Applied</i> , 2020 , 14,	4.3	2
587	Harnessing Spectral Singularities in Non-Hermitian Cylindrical Structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1704-1716	4.9	7
586	Metasurface Modeling for the Manipulation of Goos-Hänchen and Imbert-Fedorov Shifts. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1523-1532	4.9	2
585	Nonreciprocal Wavefront Manipulation in Synthetically Moving Metagratings. <i>Photonics</i> , 2020 , 7, 28	2.2	6

584	Theory and Design of Multifunctional Space-Time Metasurfaces. <i>Physical Review Applied</i> , 2020 , 13,	4.3	33
583	Magnetless Circulators with Harmonic Rejection Based on N-Way Cyclic-Symmetric Time-Varying Networks. <i>Physical Review Applied</i> , 2019 , 12,	4.3	5
582	Coherent virtual absorption of elastodynamic waves. <i>Science Advances</i> , 2019 , 5, eaaw3255	14.3	21
581	Radio Frequency Angular Momentum Biased Quasi-LTI Nonreciprocal Acoustic Filters. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019 , 66, 1814-1825	3.2	13
580	Controlling photonic spin Hall effect via exceptional points. <i>Physical Review B</i> , 2019 , 100,	3.3	31
579	Refractory Brewster metasurfaces control the frequency and angular spectrum of light absorption. <i>Nanomaterials and Nanotechnology</i> , 2019 , 9, 184798041882481	2.9	6
578	Near-field imaging of spin-locked edge states in all-dielectric topological metasurfaces. <i>Applied Physics Letters</i> , 2019 , 114, 031103	3.4	29
577	Nanophotonic engineering of far-field thermal emitters. <i>Nature Materials</i> , 2019 , 18, 920-930	27	122
576	Dark-Exciton-Mediated Fano Resonance from a Single Gold Nanostructure on Monolayer WS at Room Temperature. <i>Small</i> , 2019 , 15, e1900982	11	16
575	Observation of Hofstadter butterfly and topological edge states in reconfigurable quasi-periodic acoustic crystals. <i>Communications Physics</i> , 2019 , 2,	5.4	43
574	Passive Acoustic Metasurface with Unitary Reflection Based on Nonlocality. <i>Physical Review Applied</i> , 2019 , 11,	4.3	28
573	Magnet-Free Circulator Based on Spatiotemporal Modulation of Photonic Crystal Defect Cavities. <i>ACS Photonics</i> , 2019 , 6, 2056-2066	6.3	18
572	Nonlinearity-based circulator. <i>Applied Physics Letters</i> , 2019 , 114, 181102	3.4	11
571	Scattering Cancellation-Based Cloaking for the Maxwell-Cattaneo Heat Waves. <i>Physical Review Applied</i> , 2019 , 11,	4.3	25
570	Noninvasive Glucose Sensor Based on Parity-Time Symmetry. <i>Physical Review Applied</i> , 2019 , 11,	4.3	20
569	Angular-momentum selectivity and asymmetry in highly confined wave propagation along sheath-helical metasurface tubes. <i>Physical Review B</i> , 2019 , 99,	3.3	4
568	Theoretical limits for negative elastic moduli in subacoustic lattice materials. <i>Physical Review B</i> , 2019 , 99,	3.3	22
567	Probing the Band Structure of Topological Silicon Photonic Lattices in the Visible Spectrum. <i>Physical Review Letters</i> , 2019 , 122, 117401	7.4	56

566	Combined Metagratings for Efficient Broad-Angle Scattering Metasurface. <i>ACS Photonics</i> , 2019 , 6, 1010-1017	6.9	27
565	Machine-learning reprogrammable metasurface imager. <i>Nature Communications</i> , 2019 , 10, 1082	17.4	194
564	All-optical reconfigurable chiral meta-molecules. <i>Materials Today</i> , 2019 , 25, 10-20	21.8	40
563	Willis Metamaterial on a Structured Beam. <i>Physical Review X</i> , 2019 , 9,	9.1	18
562	Enhanced excitation and emission from 2D transition metal dichalcogenides with all-dielectric nanoantennas. <i>Nanotechnology</i> , 2019 , 30, 254004	3.4	11
561	The Design of Optical Circuit-Analog Absorbers through Electrically Small Nanoparticles. <i>Photonics</i> , 2019 , 6, 26	2.2	9
560	Enhancing functionalities of atomically thin semiconductors with plasmonic nanostructures. <i>Nanophotonics</i> , 2019 , 8, 577-598	6.3	17
559	Separation of valley excitons in a MoS2 monolayer using a subwavelength asymmetric groove array. <i>Nature Photonics</i> , 2019 , 13, 180-184	33.9	86
558	Nonreciprocal acoustic propagation and leaky-wave radiation in a waveguide with flow. <i>Journal of the Acoustical Society of America</i> , 2019 , 146, 802	2.2	13
557	Nonreciprocal Willis Coupling in Zero-Index Moving Media. <i>Physical Review Letters</i> , 2019 , 123, 064301	7.4	26
556	CMOS Integrated Magnetless Circulators Based on Spatiotemporal Modulation Angular-Momentum Biasing. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 2649-2662	4.1	28
555	Topological nanophotonics. <i>Nanophotonics</i> , 2019 , 8, 1315-1317	6.3	7
554	Topological phases and nonreciprocal edge states in non-Hermitian Floquet insulators. <i>Physical Review B</i> , 2019 , 100,	3.3	28
553	Dark Excitons: Dark-Exciton-Mediated Fano Resonance from a Single Gold Nanostructure on Monolayer WS2 at Room Temperature (Small 31/2019). <i>Small</i> , 2019 , 15, 1970164	11	
552	Quasielectrostatic Wave Propagation Beyond the Delay-Bandwidth Limit in Switched Networks. <i>Physical Review X</i> , 2019 , 9,	9.1	10
551	Acoustic meta-atom with experimentally verified maximum Willis coupling. <i>Nature Communications</i> , 2019 , 10, 3148	17.4	34
550	Nonscattering-to-Superscattering Switch with Phase-Change Materials. <i>ACS Photonics</i> , 2019 , 6, 2126-2132	3.3	20
549	Optomechanically Induced Birefringence and Optomechanically Induced Faraday Effect. <i>Physical Review Letters</i> , 2019 , 123, 023602	7.4	8

548	Broadband delay lines and nonreciprocal resonances in unidirectional waveguides. <i>Physical Review B</i> , 2019 , 100,	3.3	7
547	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 073002	1.7	69
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309	Leaky waves, woodpile anomalies and extraordinary optical trapping 2015 ,		1
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