Andrea Alu

List of Publications by Citations

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	Achieving transparency with plasmonic and metamaterial coatings. *Physical Review E*, **2005**, 72, 016623	2.4	1063
726	Controlling sound with acoustic metamaterials. *Nature Reviews Materials*, **2016**, 1,	73.3	867
725	Twisted optical metamaterials for planarized ultrathin broadband circular polarizers. *Nature Communications*, **2012**, 3, 870	17.4	702
724	Epsilon-near-zero metamaterials and electromagnetic sources: Tailoring the radiation phase pattern. *Physical Review B*, **2007**, 75,	3.3	688
723	Sound isolation and giant linear nonreciprocity in a compact acoustic circulator. *Science*, **2014**, 343, 516-9	33.3	597
722	Full control of nanoscale optical transmission with a composite metascreen. *Physical Review Letters*, **2013**, 110, 203903	7.4	554
721	Atomically thin surface cloak using graphene monolayers. *ACS Nano*, **2011**, 5, 5855-63	16.7	525
720	Experimental verification of epsilon-near-zero metamaterial coupling and energy squeezing using a microwave waveguide. *Physical Review Letters*, **2008**, 100, 033903	7.4	513
719	Performing mathematical operations with metamaterials. *Science*, **2014**, 343, 160-3	33.3	504
718	Exceptional points in optics and photonics. *Science*, **2019**, 363,	33.3	503
717	Manipulating light polarization with ultrathin plasmonic metasurfaces. *Physical Review B*, **2011**, 84,	3.3	488
716	Pairing an epsilon-negative slab with a mu-negative slab: resonance, tunneling and transparency. *IEEE Transactions on Antennas and Propagation*, **2003**, 51, 2558-2571	4.9	444
715	Circuit elements at optical frequencies: nanoinductors, nanocapacitors, and nanoresistors. *Physical Review Letters*, **2005**, 95, 095504	7.4	438
714	Giant nonlinear response from plasmonic metasurfaces coupled to intersubband transitions. *Nature* , **2014**, 511, 65-9	50.4	400
713	An invisible acoustic sensor based on parity-time symmetry. *Nature Communications*, **2015**, 6, 5905	17.4	385
712	Magnetic-free non-reciprocity and isolation based on parametrically modulated coupled-resonator loops. *Nature Physics*, **2014**, 10, 923-927	16.2	360
711	Nanophotonics: shrinking light-based technology. *Science*, **2015**, 348, 516-21	33.3	356

710	Non-reciprocal photonics based on time modulation. *Nature Photonics*, **2017**, 11, 774-783	33.9	348
709	Topologically robust sound propagation in an angular-momentum-biased graphene-like resonator lattice. *Nature Communications*, **2015**, 6, 8260	17.4	344
708	Ultrathin pancharatnam-berry metasurface with maximal cross-polarization efficiency. *Advanced Materials*, **2015**, 27, 1195-200	24	341
707	Multifrequency optical invisibility cloak with layered plasmonic shells. *Physical Review Letters*, **2008**, 100, 113901	7.4	341
706	Floquet topological insulators for sound. *Nature Communications*, **2016**, 7, 11744	17.4	327
705	Tuning the scattering response of optical nanoantennas with nanocircuit loads. *Nature Photonics*, **2008**, 2, 307-310	33.9	307
704	A Reconfigurable Active HuygensNMetalens. *Advanced Materials*, **2017**, 29, 1606422	24	301
703	Mantle cloak: Invisibility induced by a surface. *Physical Review B*, **2009**, 80,	3.3	273
702	A subwavelength plasmonic metamolecule exhibiting magnetic-based optical Fano resonance. *Nature Nanotechnology*, **2013**, 8, 95-9	28.7	271
701	Cloaking a sensor. *Physical Review Letters*, **2009**, 102, 233901	7.4	269
700	Observation of higher-order topological acoustic states protected by generalized chiral symmetry. *Nature Materials*, **2019**, 18, 113-120	27	264
699	Experimental verification of plasmonic cloaking at microwave frequencies with metamaterials. *Physical Review Letters*, **2009**, 103, 153901	7.4	258
698	Input impedance, nanocircuit loading, and radiation tuning of optical nanoantennas. *Physical Review Letters*, **2008**, 101, 043901	7.4	256
697	Giant non-reciprocity at the subwavelength scale using angular momentum-biased metamaterials. *Nature Communications*, **2013**, 4, 2407	17.4	247
696	Chirality detection of enantiomers using twisted optical metamaterials. *Nature Communications*, **2017**, 8, 14180	17.4	242
695	Nonlinear metasurfaces: a paradigm shift in nonlinear optics. *Materials Today*, **2018**, 21, 8-21	21.8	241
694	Tailoring the dispersion of plasmonic nanorods to realize broadband optical meta-waveplates. *Nano Letters*, **2013**, 13, 1086-91	11.5	238
693	Plasmonic materials in transparency and cloaking problems: mechanism, robustness, and physical insights. *Optics Express*, **2007**, 15, 3318-32	3.3	236

692	Negative effective permeability and left-handed materials at optical frequencies. *Optics Express*, **2006**, 14, 1557-67	3.3	236
691	Metagratings: Beyond the Limits of Graded Metasurfaces for Wave Front Control. *Physical Review Letters*, **2017**, 119, 067404	7.4	223
690	Hybrid bilayer plasmonic metasurface efficiently manipulates visible light. *Science Advances*, **2016**, 2, e1501168	14.3	218
689	First-principles homogenization theory for periodic metamaterials. *Physical Review B*, **2011**, 84,	3.3	210
688	Space-time gradient metasurfaces. *Physical Review B*, **2015**, 92,	3.3	205
687	Mantle cloaking using thin patterned metasurfaces. *Physical Review B*, **2011**, 84,	3.3	201
686	Electromagnetic Nonreciprocity. *Physical Review Applied*, **2018**, 10,	4.3	198
685	Embedded Photonic Eigenvalues in 3D Nanostructures. *Physical Review Letters*, **2014**, 112,	7.4	195
684	Machine-learning reprogrammable metasurface imager. *Nature Communications*, **2019**, 10, 1082	17.4	194
683	Hyperbolic Plasmons and Topological Transitions Over Uniaxial Metasurfaces. *Physical Review Letters*, **2015**, 114, 233901	7.4	193
682	Nonreciprocity and magnetic-free isolation based on optomechanical interactions. *Nature Communications*, **2016**, 7, 13662	17.4	188
681	. *IEEE Transactions on Microwave Theory and Techniques*, **2004**, 52, 199-210	4.1	180
680	Topological polaritons and photonic magic angles in twisted □MoO bilayers. *Nature*, **2020**, 582, 209-213	50.4	174
679	Programmable time-domain digital-coding metasurface for non-linear harmonic manipulation and new wireless communication systems. *National Science Review*, **2019**, 6, 231-238	10.8	172
678	Experimental observation of a polarization vortex at an optical bound state in the continuum. *Nature Photonics*, **2018**, 12, 397-401	33.9	171
677	Parallel-plate metamaterials for cloaking structures. *Physical Review E*, **2007**, 75, 036603	2.4	167
676	Boosting optical nonlinearities in □near-zero plasmonic channels. *Physical Review B*, **2012**, 85,	3.3	165
675	Plasmonic and metamaterial cloaking: physical mechanisms and potentials. *Journal of Optics*, **2008**, 10, 093002		165

674	Coherent perfect absorbers: linear control of light with light. *Nature Reviews Materials*, **2017**, 2,	73.3	163
673	Extraordinary sound transmission through density-near-zero ultranarrow channels. *Physical Review Letters*, **2013**, 111, 055501	7.4	163
672	Negative refraction and planar focusing based on parity-time symmetric metasurfaces. *Physical Review Letters*, **2014**, 113, 023903	7.4	162
671	Wireless at the nanoscale: optical interconnects using matched nanoantennas. *Physical Review Letters*, **2010**, 104, 213902	7.4	162
670	Theory of linear chains of metamaterial/plasmonic particles as subdiffraction optical nanotransmission lines. *Physical Review B*, **2006**, 74,	3.3	160
669	. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 13-25	4.9	160
668	Polarizabilities and effective parameters for collections of spherical nanoparticles formed by pairs of concentric double-negative, single-negative, and□r double-positive metamaterial layers. *Journal of Applied Physics*, **2005**, 97, 094310	2.5	159
667	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	1.7	159
666	Static non-reciprocity in mechanical metamaterials. *Nature*, **2017**, 542, 461-464	50.4	154
665	Broadband absorbers and selective emitters based on plasmonic Brewster metasurfaces. *Physical Review B*, **2013**, 87,	3.3	152
664	. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 1640-1647	4.9	141
663	Invisibility and cloaking based on scattering cancellation. *Advanced Materials*, **2012**, 24, OP281-304	24	140
662	Breaking temporal symmetries for emission and absorption. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 3471-5	11.5	139
661	PT metamaterials via complex-coordinate transformation optics. *Physical Review Letters*, **2013**, 110, 173901	7.4	139
660	Recent progress in gradient metasurfaces. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, A21	1.7	138
659	Broadening the cloaking bandwidth with non-Foster metasurfaces. *Physical Review Letters*, **2013**, 111, 233001	7.4	138
658	Nonlocal Metasurfaces for Optical Signal Processing. *Physical Review Letters*, **2018**, 121, 173004	7.4	136
657	Tunable nanophotonics enabled by chalcogenide phase-change materials. *Nanophotonics*, **2020**, 9, 1189-1241	6.3	134

656	Terahertz Antenna Phase Shifters Using Integrally-Gated Graphene Transmission-Lines. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 1528-1537	4.9	133
655	Plasmonic Brewster angle: broadband extraordinary transmission through optical gratings. *Physical Review Letters*, **2011**, 106, 123902	7.4	133
654	Gradient Nonlinear Pancharatnam-Berry Metasurfaces. *Physical Review Letters*, **2015**, 115, 207403	7.4	132
653	Leaky-Wave Theory, Techniques, and Applications: From Microwaves to Visible Frequencies. *Proceedings of the IEEE*, **2015**, 103, 793-821	14.3	132
652	Experimental verification of three-dimensional plasmonic cloaking in free-space. *New Journal of Physics*, **2012**, 14, 013054	2.9	132
651	Analytical modeling of conformal mantle cloaks for cylindrical objects using sub-wavelength printed and slotted arrays. *Journal of Applied Physics*, **2012**, 112, 034907	2.5	129
650	Cloaking and transparency for collections of particles with metamaterial and plasmonic covers. *Optics Express*, **2007**, 15, 7578-90	3.3	127
649	Unidirectional Cloaking Based on Metasurfaces with Balanced Loss and Gain. *Physical Review Applied*, **2015**, 4,	4.3	124
648	Nanophotonic engineering of far-field thermal emitters. *Nature Materials*, **2019**, 18, 920-930	27	122
647	Nanostructured graphene metasurface for tunable terahertz cloaking. *New Journal of Physics*, **2013**, 15, 123029	2.9	121
646	Nonlinear plasmonic cloaks to realize giant all-optical scattering switching. *Physical Review Letters*, **2012**, 108, 263905	7.4	121
645	Negative refraction, gain and nonlinear effects in hyperbolic metamaterials. *Optics Express*, **2013**, 21, 15037-47	3.3	118
644	Full-Color Complex-Amplitude Vectorial Holograms Based on Multi-Freedom Metasurfaces. *Advanced Functional Materials*, **2020**, 30, 1910610	15.6	116
643	Anti-parity-time symmetry in diffusive systems. *Science*, **2019**, 364, 170-173	33.3	116
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641	Directional Janus Metasurface. *Advanced Materials*, **2020**, 32, e1906352	24	111
640	The quest for magnetic plasmons at optical frequencies. *Optics Express*, **2009**, 17, 5723-30	3.3	106
639	Transmission-line analysis of epsilon -near-zero-filled narrow channels. *Physical Review E*, **2008**, 78, 016604	2.4	106

638	Dielectric sensing in ?-near-zero narrow waveguide channels. *Physical Review B*, **2008**, 78,	3.3	106
637	Demonstration of an ultralow profile cloak for scattering suppression of a finite-length rod in free space. *New Journal of Physics*, **2013**, 15, 033037	2.9	103
636	Generalized parity□time symmetry condition for enhanced sensor telemetry. *Nature Electronics*, **2018**, 1, 297-304	28.4	103
635	Experimental realization of optical lumped nanocircuits at infrared wavelengths. *Nature Materials*, **2012**, 11, 208-12	27	102
634	Intrinsic optical properties and enhanced plasmonic response of epitaxial silver. *Advanced Materials* , **2014**, 26, 6106-10	24	101
633	Metamaterial, plasmonic and nanophotonic devices. *Reports on Progress in Physics*, **2017**, 80, 036401	14.4	100
632	Flatland Optics with Hyperbolic Metasurfaces. *ACS Photonics*, **2016**, 3, 2211-2224	6.3	100
631	Plasmonic piezoelectric nanomechanical resonator for spectrally selective infrared sensing. *Nature Communications*, **2016**, 7, 11249	17.4	99
630	Reflectionless sharp bends and corners in waveguides using epsilon-near-zero effects. *Journal of Applied Physics*, **2009**, 105, 044905	2.5	99
629	Dynamical theory of artificial optical magnetism produced by rings of plasmonic nanoparticles. *Physical Review B*, **2008**, 78,	3.3	99
628	Broadband passive isolators based on coupled nonlinear resonances. *Nature Electronics*, **2018**, 1, 113-119	28.4	98
627	Restoring the physical meaning of metamaterial constitutive parameters. *Physical Review B*, **2011**, 83,	3.3	98
626	Spectroscopy and Biosensing with Optically Resonant Dielectric Nanostructures. *Advanced Optical Materials*, **2018**, 6, 1701094	8.1	97
625	Magnetless Microwave Circulators Based on Spatiotemporally Modulated Rings of Coupled Resonators. *IEEE Transactions on Microwave Theory and Techniques*, **2016**, 1-17	4.1	96
624	Angular-Momentum-Biased Nanorings To Realize Magnetic-Free Integrated Optical Isolation. *ACS Photonics*, **2014**, 1, 198-204	6.3	96
623	Individual nanoantennas loaded with three-dimensional optical nanocircuits. *Nano Letters*, **2013**, 13, 1427	11.5	94
622	Overcoming Mutual Blockage Between Neighboring Dipole Antennas Using a Low-Profile Patterned Metasurface. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 1414-1417	3.8	93
621	Nonreciprocity in acoustic and elastic materials. *Nature Reviews Materials*, **2020**, 5, 667-685	73.3	92

620	Invisibility and Cloaking: Origins, Present, and Future Perspectives. *Physical Review Applied*, **2015**, 4,	4.3	92
619	Self-induced topological transitions and edge states supported by nonlinear staggered potentials. *Physical Review B*, **2016**, 93,	3.3	91
618	Nanophotonics with 2D transition metal dichalcogenides [Invited]. *Optics Express*, **2018**, 26, 15972-15994	3.3	91
617	Higher-order topological states in photonic kagome crystals with long-range interactions. *Nature Photonics*, **2020**, 14, 89-94	33.9	91
616	Roadmap on optical metamaterials. *Journal of Optics (United Kingdom)*, **2016**, 18, 093005	1.7	89
615	. *IEEE Transactions on Antennas and Propagation*, **2006**, 54, 1632-1643	4.9	88
614	Separation of valley excitons in a MoS2 monolayer using a subwavelength asymmetric groove array. *Nature Photonics*, **2019**, 13, 180-184	33.9	86
613	Terahertz carpet cloak based on a ring resonator metasurface. *Physical Review B*, **2015**, 91,	3.3	86
612	Hyperbolic metasurfaces: surface plasmons, light-matter interactions, and physical implementation using graphene strips [Invited]. *Optical Materials Express*, **2015**, 5, 2313	2.6	85
611	Subwavelength ultrasonic circulator based on spatiotemporal modulation. *Physical Review B*, **2015**, 91,	3.3	84
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609	Interplay of Magnetic Responses in All-Dielectric Oligomers To Realize Magnetic Fano Resonances. *ACS Photonics*, **2015**, 2, 724-729	6.3	82
608	The quest for optical magnetism: from split-ring resonators to plasmonic nanoparticles and nanoclusters. *Journal of Materials Chemistry C*, **2014**, 2, 9059-9072	7.1	82
607	Ultra-Thin Unidirectional Carpet Cloak and Wavefront Reconstruction With Graded Metasurfaces. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 1775-1778	3.8	82
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601	Anomalies in light scattering. *Advances in Optics and Photonics*, **2019**, 11, 892	16.7	76
600	Full-space Cloud of Random Points with a Scrambling Metasurface. *Light: Science and Applications*, **2018**, 7, 63	16.7	76
599	Moir□Hyperbolic Metasurfaces. *Nano Letters*, **2020**, 20, 3217-3224	11.5	75
598	Metamaterials and plasmonics: From nanoparticles to nanoantenna arrays, metasurfaces, and metamaterials. *Chinese Physics B*, **2014**, 23, 047809	1.2	75
597	Dual-interface gratings for broadband absorption enhancement in thin-film solar cells. *Physical Review B*, **2012**, 85,	3.3	75
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595	Modifying magnetic dipole spontaneous emission with nanophotonic structures. *Laser and Photonics Reviews*, **2017**, 11, 1600268	8.3	73
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585	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	3.4	69

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578	Comparing plasmonic and dielectric gratings for absorption enhancement in thin-film organic solar cells. *Optics Express*, **2012**, 20, A39-50	3.3	67
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574	Ultrafast Electrically Tunable Polaritonic Metasurfaces. *Advanced Optical Materials*, **2014**, 2, 1057-1063	8.1	64
573	Bistable and self-tunable negative-index metamaterial at optical frequencies. *Physical Review Letters*, **2011**, 106, 105503	7.4	64
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559	Active negative-index metamaterial powered by an electron beam. *Physical Review B*, **2012**, 86,	3.3	58
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546	Enhanced nonlinearities using plasmonic nanoantennas. *Nanophotonics*, **2012**, 1, 221-233	6.3	54
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