

Sergei A Tretyakov

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413
papers

14,025
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61
h-index

103
g-index

534
ext. papers

17,358
ext. citations

3.2
avg, IF

7.06
L-index

#	Paper	IF	Citations
413	Metasurfaces: From microwaves to visible. <i>Physics Reports</i> , 2016 , 634, 1-72	27.7	627
412	. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 2450-2525	14.2	525
411	Simple and Accurate Analytical Model of Planar Grids and High-Impedance Surfaces Comprising Metal Strips or Patches. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 1624-1632	4.9	489
410	Strong spatial dispersion in wire media in the very large wavelength limit. <i>Physical Review B</i> , 2003 , 67,	3.3	435
409	Waves and Energy in Chiral Nihility. <i>Journal of Electromagnetic Waves and Applications</i> , 2003 , 17, 695-706	1.3	339
408	Thin Perfect Absorbers for Electromagnetic Waves: Theory, Design, and Realizations. <i>Physical Review Applied</i> , 2015 , 3,	4.3	324
407	BW media media with negative parameters, capable of supporting backward waves. <i>Microwave and Optical Technology Letters</i> , 2001 , 31, 129-133	1.2	299
406	Perfect control of reflection and refraction using spatially dispersive metasurfaces. <i>Physical Review B</i> , 2016 , 94,	3.3	235
405	Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 798-807	6.7	221
404	From the generalized reflection law to the realization of perfect anomalous reflectors. <i>Science Advances</i> , 2017 , 3, e1602714	14.3	204
403	Electromagnetic Nonreciprocity. <i>Physical Review Applied</i> , 2018 , 10,	4.3	198
402	A Thin Electromagnetic Absorber for Wide Incidence Angles and Both Polarizations. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 3119-3125	4.9	188
401	Local constitutive parameters of metamaterials from an effective-medium perspective. <i>Physical Review B</i> , 2007 , 75,	3.3	174
400	Synthesis of Polarization Transformers. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 3102-3111	4.1	170
399	Broadband electromagnetic cloaking of long cylindrical objects. <i>Physical Review Letters</i> , 2009 , 103, 103905	9.4	155
398	A Stepwise Nicolson-Ross-Weir-Based Material Parameter Extraction Method. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1295-1298	3.8	153
397	Backward-wave regime and negative refraction in chiral composites. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2005 , 3, 107-115	2.6	144

396	Magnetodielectric Substrates in Antenna Miniaturization: Potential and Limitations. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 3391-3399	4.9	137
395	Dispersion and Reflection Properties of Artificial Media Formed By Regular Lattices of Ideally Conducting Wires. <i>Journal of Electromagnetic Waves and Applications</i> , 2002 , 16, 1153-1170	1.3	134
394	Systematic design and experimental demonstration of bianisotropic metasurfaces for scattering-free manipulation of acoustic wavefronts. <i>Nature Communications</i> , 2018 , 9, 1342	17.4	125
393	Wire media with negative effective permittivity: A quasi-static model. <i>Microwave and Optical Technology Letters</i> , 2002 , 35, 47-51	1.2	125
392	Total Absorption of Electromagnetic Waves in Ultimately Thin Layers. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 4606-4614	4.9	124
391	Electromagnetic cloaking with metamaterials. <i>Materials Today</i> , 2009 , 12, 22-29	21.8	123
390	Transmission-Line Networks Cloaking Objects From Electromagnetic Fields. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 416-424	4.9	123
389	Modeling of isotropic backward-wave materials composed of resonant spheres. <i>Journal of Applied Physics</i> , 2006 , 99, 043102	2.5	120
388	Analytical antenna model for chiral scatterers: comparison with numerical and experimental data. <i>IEEE Transactions on Antennas and Propagation</i> , 1996 , 44, 1006-1014	4.9	119
387	Functional metamirrors using bianisotropic elements. <i>Physical Review Letters</i> , 2015 , 114, 095503	7.4	117
386	An antenna model for the Purcell effect. <i>Scientific Reports</i> , 2015 , 5, 12956	4.9	115
385	Bianisotropic metasurfaces: physics and applications. <i>Nanophotonics</i> , 2018 , 7, 1069-1094	6.3	108
384	Validity of effective material parameters for optical fishnet metamaterials. <i>Physical Review B</i> , 2010 , 81,	3.3	104
383	Thin absorbing structure for all incidence angles based on the use of a high-impedance surface. <i>Microwave and Optical Technology Letters</i> , 2003 , 38, 175-178	1.2	104
382	Optimization of radiative heat transfer in hyperbolic metamaterials for thermophotovoltaic applications. <i>Optics Express</i> , 2013 , 21, 14988-5013	3.3	93
381	TE Surface Wave Resonances on High-Impedance Surface Based Antennas: Analysis and Modeling. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 3588-3596	4.9	93
380	On Artificial Magnetodielectric Loading for Improving the Impedance Bandwidth Properties of Microstrip Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 1654-1662	4.9	92
379	Meta-materials with wideband negative permittivity and permeability. <i>Microwave and Optical Technology Letters</i> , 2001 , 31, 163-165	1.2	92

378	Contemporary notes on metamaterials. <i>IET Microwaves, Antennas and Propagation</i> , 2007 , 1, 3	1.6	91
377	Broadband Reflectionless Metasheets: Frequency-Selective Transmission and Perfect Absorption. <i>Physical Review X</i> , 2015 , 5,	9.1	90
376	Metasurfaces for general transformations of electromagnetic fields. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	88
375	Maximizing Absorption and Scattering by Dipole Particles. <i>Plasmonics</i> , 2014 , 9, 935-944	2.4	88
374	Susceptibility Derivation and Experimental Demonstration of Refracting Metasurfaces Without Spurious Diffraction. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1321-1330	4.9	87
373	Phase conjugation and perfect lensing. <i>Journal of Applied Physics</i> , 2003 , 94, 4241-4243	2.5	86
372	Transmission of images with subwavelength resolution to distances of several wavelengths in the microwave range. <i>Physical Review B</i> , 2008 , 77,	3.3	84
371	Double Split-Ring Resonators: Analytical Modeling and Numerical Simulations. <i>Electromagnetics</i> , 2004 , 24, 317-338	0.8	84
370	Proposed composite material for nonreflecting shields and antenna radomes. <i>Electronics Letters</i> , 1993 , 29, 1048	1.1	83
369	DYNAMIC MODEL OF ARTIFICIAL REACTIVE IMPEDANCE SURFACES. <i>Journal of Electromagnetic Waves and Applications</i> , 2003 , 17, 131-145	1.3	79
368	Near-field enhancement and imaging in double planar polariton-resonant structures. <i>Journal of Applied Physics</i> , 2004 , 96, 1293-1300	2.5	78
367	Model of isotropic resonant magnetism in the visible range based on core-shell clusters. <i>Physical Review B</i> , 2009 , 79,	3.3	76
366	ARTIFICIAL MAGNETIC MATERIALS BASED ON THE NEW MAGNETIC PARTICLE: METASOLENOID. <i>Progress in Electromagnetics Research</i> , 2005 , 54, 61-81	3.8	76
365	Acoustic metasurfaces for scattering-free anomalous reflection and refraction. <i>Physical Review B</i> , 2017 , 96,	3.3	74
364	Roadmap on metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 073002	1.7	69
363	Experimental verification of broadband cloaking using a volumetric cloak composed of periodically stacked cylindrical transmission-line networks. <i>Applied Physics Letters</i> , 2009 , 94, 014103	3.4	69
362	Magnetolectric Interactions in Bi-Anisotropic Media. <i>Journal of Electromagnetic Waves and Applications</i> , 1998 , 12, 481-497	1.3	69
361	Flat Engineered Multichannel Reflectors. <i>Physical Review X</i> , 2017 , 7,	9.1	68

360	On geometrical scaling of split-ring and double-bar resonators at optical frequencies. <i>Metamaterials</i> , 2007 , 1, 40-43		68
359	Intelligent Metasurfaces with Continuously Tunable Local Surface Impedance for Multiple Reconfigurable Functions. <i>Physical Review Applied</i> , 2019 , 11,	4.3	67
358	Resonator mode in chains of silver spheres and its possible application. <i>Physical Review E</i> , 2005 , 72, 066604	0.4	67
357	Toward Intelligent Metasurfaces: The Progress from Globally Tunable Metasurfaces to Software-Defined Metasurfaces with an Embedded Network of Controllers. <i>Advanced Optical Materials</i> , 2020 , 8, 2000783	8.1	66
356	Resonance Properties of Bi-Helix Media at Microwaves. <i>Electromagnetics</i> , 1997 , 17, 213-237	0.8	66
355	Magnification of subwavelength field distributions at microwave frequencies using a wire medium slab operating in the canalization regime. <i>Applied Physics Letters</i> , 2007 , 91, 104102	3.4	65
354	Photonic band gap structure containing metamaterial with negative permittivity and permeability. <i>Physical Review E</i> , 2002 , 66, 036611	2.4	63
353	Tailoring Reflections From Thin Composite Metamirrors. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 3749-3760	4.9	61
352	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 2692-2699	4.1	58
351	Determining polarizability tensors for an arbitrary small electromagnetic scatterer. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2014 , 12, 298-304	2.6	57
350	Angular stabilisation of resonant frequency of artificial magnetic conductors for TE-incidence. <i>Electronics Letters</i> , 2004 , 40, 92	1.1	54
349	One-way transparent sheets. <i>Physical Review B</i> , 2014 , 89,	3.3	53
348	Characterization of Surface-Wave and Leaky-Wave Propagation on Wire-Medium Slabs and Mushroom Structures Based on Local and Nonlocal Homogenization Models. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 2700-2714	4.1	52
347	2017 ,		50
346	Antenna Model for Conductive Omega Particles. <i>Journal of Electromagnetic Waves and Applications</i> , 1997 , 11, 1509-1530	1.3	50
345	Higher order impedance boundary conditions for sparse wire grids. <i>IEEE Transactions on Antennas and Propagation</i> , 2000 , 48, 720-727	4.9	50
344	Balanced and optimal bianisotropic particles: maximizing power extracted from electromagnetic fields. <i>New Journal of Physics</i> , 2013 , 15, 053008	2.9	49
343	Resonant metasurfaces at oblique incidence: interplay of order and disorder. <i>Scientific Reports</i> , 2014 , 4, 4484	4.9	48

342	Three-dimensional isotropic perfect lens based on LC-loaded transmission lines. <i>Journal of Applied Physics</i> , 2006 , 99, 064912	2.5	48
341	Line of periodically arranged passive dipole scatterers. <i>Electrical Engineering</i> , 2000 , 82, 353-361	1.5	48
340	Plane-wave propagation in a uniaxial chiro-omega medium. <i>Microwave and Optical Technology Letters</i> , 1993 , 6, 517-520	1.2	47
339	Electromagnetic field energy density in artificial microwave materials with strong dispersion and loss. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 343, 231-237	2.3	46
338	Perfect magnetic mirror and simple perfect absorber in the visible spectrum. <i>Physical Review B</i> , 2015 , 91,	3.3	45
337	. <i>IEEE Antennas and Propagation Magazine</i> , 2007 , 49, 37-43	1.7	45
336	A Bianisotropic Metasurface With Resonant Asymmetric Absorption. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 3004-3015	4.9	44
335	Artificial Tellegen Particle. <i>Electromagnetics</i> , 2003 , 23, 665-680	0.8	44
334	Electrically small Huygens source antenna for linear polarisation. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 735	1.6	43
333	Broadband Electromagnetic Cloaking Realized With Transmission-Line and Waveguiding Structures. <i>Proceedings of the IEEE</i> , 2011 , 99, 1646-1659	14.3	43
332	Bianisotropic route to the realization and matching of backward-wave metamaterial slabs. <i>Physical Review B</i> , 2007 , 75,	3.3	43
331	Experimental verification of the key properties of a three-dimensional isotropic transmission-line superlens. <i>Journal of Applied Physics</i> , 2006 , 99, 124910	2.5	43
330	An analytical model of metamaterials based on loaded wire dipoles. <i>IEEE Transactions on Antennas and Propagation</i> , 2003 , 51, 2652-2658	4.9	43
329	Time-Varying Reactive Elements for Extreme Accumulation of Electromagnetic Energy. <i>Physical Review Applied</i> , 2019 , 11,	4.3	43
328	On potential applications of metamaterials for the design of broadband phase shifters. <i>Microwave and Optical Technology Letters</i> , 2005 , 45, 98-102	1.2	42
327	Full Light Absorption in Single Arrays of Spherical Nanoparticles. <i>ACS Photonics</i> , 2015 , 2, 653-660	6.3	41
326	Effective electric and magnetic properties of metasurfaces in transition from crystalline to amorphous state. <i>Physical Review B</i> , 2012 , 85,	3.3	41
325	Vector Circuit Theory for Isotropic and Chiral Slabs. <i>Journal of Electromagnetic Waves and Applications</i> , 1990 , 4, 613-643	1.3	40

324	Analytical Modeling of the Path-Loss for Reconfigurable Intelligent Surfaces [Anomalous Mirror or Scatterer ? 2020 ,		40
323	A condition imposed on the electromagnetic polarizability of a bianisotropic lossless scatterer. <i>Technical Physics Letters</i> , 2003 , 29, 718-720	0.7	39
322	Extreme Asymmetry in Metasurfaces via Evanescent Fields Engineering: Angular-Asymmetric Absorption. <i>Physical Review Letters</i> , 2018 , 121, 256802	7.4	39
321	Multifunctional Cascaded Metamaterials: Integrated Transmitarrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 4266-4276	4.9	37
320	Generalized field-transforming metamaterials. <i>New Journal of Physics</i> , 2008 , 10, 115028	2.9	37
319	Metamaterials with extreme material parameters. <i>Journal of Communications Technology and Electronics</i> , 2007 , 52, 986-990	0.5	37
318	Two-dimensional electromagnetic crystals formed by reactively loaded wires. <i>Physical Review E</i> , 2002 , 66, 036610	2.4	36
317	Phase-change material-based nanoantennas with tunable radiation patterns. <i>Optics Letters</i> , 2016 , 41, 4099-102	3	35
316	Transmission characteristics of bianisotropic metamaterials based on omega shaped metallic inclusions. <i>New Journal of Physics</i> , 2007 , 9, 326-326	2.9	35
315	Propagating and evanescent modes in two-dimensional wire media. <i>Physical Review E</i> , 2005 , 71, 046612	2.4	35
314	Near-field enhancement and subwavelength imaging in the optical region using a pair of two-dimensional arrays of metal nanospheres. <i>Physical Review B</i> , 2006 , 74,	3.3	35
313	Tutorial on Electromagnetic Nonreciprocity and its Origins. <i>Proceedings of the IEEE</i> , 2020 , 108, 1684-1727	4.3	35
312	Nonreciprocal microwave band-gap structures. <i>Physical Review E</i> , 2002 , 66, 016608	2.4	34
311	On the Path-Loss of Reconfigurable Intelligent Surfaces: An Approach Based on Green's Theorem Applied to Vector Fields. <i>IEEE Transactions on Communications</i> , 2021 , 69, 5573-5592	6.9	34
310	Electromagnetic characterization of bianisotropic metasurfaces on refractive substrates: General theoretical framework. <i>Annalen Der Physik</i> , 2016 , 528, 721-737	2.6	33
309	Effective model and investigation of the near-field enhancement and subwavelength imaging properties of multilayer arrays of plasmonic nanospheres. <i>Physical Review E</i> , 2011 , 84, 016607	2.4	33
308	Theory and Design of Multifunctional Space-Time Metasurfaces. <i>Physical Review Applied</i> , 2020 , 13,	4.3	33
307	Experimental studies on antenna miniaturisation using magneto-dielectric and dielectric materials. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 495	1.6	32

306	Modeling of Spirals with Equal Dielectric, Magnetic, and Chiral Susceptibilities. <i>Electromagnetics</i> , 2008 , 28, 476-493	0.8	32
305	Programmable Metasurfaces: State of the Art and Prospects 2018 ,		32
304	Overcoming black body radiation limit in free space: metamaterial superemitter. <i>New Journal of Physics</i> , 2016 , 18, 013034	2.9	31
303	Maxwell Garnett modeling of uniaxial chiral composites with bianisotropic inclusions. <i>Journal of Electromagnetic Waves and Applications</i> , 1995 , 9, 1011-1025	1.3	31
302	A Multi-Functional Reconfigurable Metasurface: Electromagnetic Design Accounting for Fabrication Aspects. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 1440-1454	4.9	31
301	Three-dimensional metamaterial nanotips. <i>Physical Review B</i> , 2010 , 81,	3.3	30
300	Plane waves in regular arrays of dipole scatterers and effective-medium modeling. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000 , 17, 1791-7	1.8	30
299	A personal view on the origins and developments of the metamaterial concept. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 013002	1.7	28
298	Optical metamirror: all-dielectric frequency-selective mirror with fully controllable reflection phase. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, A16	1.7	28
297	Design and realisation of an electrically small Huygens source for circular polarisation. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 783	1.6	28
296	Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces. <i>IEEE Access</i> , 2019 , 7, 122931-122948	3.5	27
295	Near-perfect conversion of a propagating plane wave into a surface wave using metasurfaces. <i>Physical Review B</i> , 2018 , 97,	3.3	27
294	Ultrabroadband electromagnetically indefinite medium formed by aligned carbon nanotubes. <i>Physical Review B</i> , 2011 , 84,	3.3	27
293	Symmetry and reciprocity constraints on diffraction by gratings of quasi-planar particles. <i>Journal of Optics</i> , 2009 , 11, 074004		27
292	On effective electromagnetic parameters of artificial nanostructured magnetic materials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2010 , 8, 254-263	2.6	27
291	Power flow-conformal metamirrors for engineering wave reflections. <i>Science Advances</i> , 2019 , 5, eaau7288	4.3	27
290	Toward Ultimate Control of Terahertz Wave Absorption in Graphene. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 2452-2461	4.9	27
289	Electromagnetic energy sink. <i>Physical Review B</i> , 2015 , 92,	3.3	26

288	Experimental demonstration of antenna blockage reduction with a transmission-line cloak. <i>IET Microwaves, Antennas and Propagation</i> , 2012 , 6, 830	1.6	26
287	Electromagnetic cloaking with canonical spiral inclusions. <i>New Journal of Physics</i> , 2008 , 10, 115037	2.9	26
286	Plane-wave reflection from double arrays of small magnetoelectric scatterers. <i>IEEE Transactions on Antennas and Propagation</i> , 2003 , 51, 2-11	4.9	26
285	Waveguide containing a backward-wave slab. <i>Radio Science</i> , 2003 , 38, n/a-n/a	1.4	26
284	MEMS-based high-impedance surfaces for millimeter and submillimeter wave applications. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 2570-2573	1.2	25
283	The influence of complex material coverings on the quality factor of simple radiating systems. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 965-970	4.9	25
282	On the surface effect in thin molecular or composite layers. <i>EPJ Applied Physics</i> , 2000 , 9, 195-204	1.1	25
281	Modeling effective properties of chiral composites. <i>IEEE Antennas and Propagation Magazine</i> , 1996 , 38, 22-32	1.7	25
280	Isotropic chiral composite modeling: Comparison between analytical, numerical, and experimental results. <i>Microwave and Optical Technology Letters</i> , 1994 , 7, 861-864	1.2	25
279	Geometrical Optics in Inhomogeneous Chiral Media with Application to Polarization Correction of Inhomogeneous Microwave Lens Antennas. <i>Journal of Electromagnetic Waves and Applications</i> , 1990 , 4, 533-548	1.3	25
278	. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 5089-5098	4.9	24
277	Experimental Characterization of a Broadband Transmission-Line Cloak in Free Space. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 4963-4968	4.9	24
276	Subwavelength imaging: Resolution enhancement using metal wire gratings. <i>Physical Review B</i> , 2006 , 73,	3.3	24
275	Reflection and transmission of plane electromagnetic waves in uniaxial bianisotropic materials. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1994 , 15, 829-856		24
274	Parity-time-symmetric teleportation. <i>Physical Review B</i> , 2016 , 93,	3.3	23
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272	Eliminating Electromagnetic Scattering From Small Particles. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 3747-3756	4.9	23
271	Advanced self-interference cancellation and multiantenna techniques for full-duplex radios 2013 ,		23

- 270 Perfect reflection control for impenetrable surfaces using surface waves of orthogonal polarization. *Physical Review B*, **2017**, 96, 3-3 23
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- 268 On the definition of effective permittivity and permeability for thin composite layers. *Journal of Applied Physics*, **2007**, 101, 114910 2.5 23
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- 266 . *Journal of Lightwave Technology*, **1992**, 10, 150-155 4 23
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- 261 Electromagnetic response and homogenization of grids of ferromagnetic microwires. *Journal of Applied Physics*, **2011**, 110, 064909 2.5 22
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- 256 Thin pseudo-chiral layers: Approximate boundary conditions and potential applications. *Microwave and Optical Technology Letters*, **1993**, 6, 112-115 1.2 22
- 255 Eigensolutions for the reflection problem of the interface of two chiral half-spaces. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1990**, 7, 683 1.8 22
- 254 Arbitrary beam control using passive lossless metasurfaces enabled by orthogonally polarized custom surface waves. *Physical Review B*, **2018**, 97, 3-3 21
- 253 Nonlinear transformation optics and engineering of the Kerr effect. *Physical Review B*, **2011**, 84, 3-3 21

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251	Electromagnetic wave refraction at an interface of a double wire medium. <i>Physical Review B</i> , 2005 , 72,	3.3	21
250	Influence of Chiral Shapes of Individual Inclusions on the Absorption in Chiral Composite Coatings. <i>Electromagnetics</i> , 1996 , 16, 113-127	0.8	21
249	Time-modulated meta-atoms. <i>Physical Review Research</i> , 2019 , 1,	3.9	21
248	Homogenization of metasurfaces formed by random resonant particles in periodical lattices. <i>Physical Review B</i> , 2016 , 93,	3.3	20
247	Example of bianisotropic electromagnetic crystals: the spiral medium. <i>Physical Review E</i> , 2003 , 67, 056622	4	20
246	Vector Transmission-Line and Circuit Theory for Bi-Isotropic Layered Structures. <i>Journal of Electromagnetic Waves and Applications</i> , 1993 , 7, 147-173	1.3	20
245	Highly Efficient Generation of Angular Momentum with Cylindrical Bianisotropic Metasurfaces. <i>Physical Review Applied</i> , 2019 , 11,	4.3	19
244	Polarizabilities of Nonreciprocal Bianisotropic Particles. <i>Physical Review Applied</i> , 2014 , 1,	4.3	19
243	Hyperlens makes thermal emission strongly super-Planckian. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2015 , 13, 31-41	2.6	19
242	Determination of Generalized Permeability Function and Field Energy Density in Artificial Magnetics Using the Equivalent-Circuit Method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 92-99	4.1	19
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240	Conductor-backed tellegen slab as twist polariser. <i>Electronics Letters</i> , 1992 , 28, 281	1.1	19
239	Analytical Modeling of Surface Waves on High Impedance Surfaces. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009 , 239-254	0.2	19
238	. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1340-1351	4.9	18
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