Sergei A Tretyakov

List of Publications by Year in Descending Order

413 papers	14,025 citations	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	Fast and Robust Characterization of Lossy Dielectric Slabs Using Rectangular Waveguides. *IEEE Transactions on Microwave Theory and Techniques*, **2022**, 1-1	4.1	1
412	High-Efficiency Omnidirectional Wireless Power Transfer System. *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, **2022**, 1-1	2.6	
411	Cylindrical Transmitting Coil for Two-Dimensional Omnidirectional Wireless Power Transfer. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	2
410	Reradiation and Scattering from a Reconfigurable Intelligent Surface: A General Macroscopic Model. *IEEE Transactions on Antennas and Propagation*, **2022**, 1-1	4.9	4
409	Machine Learning assisted Characteristics Prediction for Wireless Power Transfer Systems. *IEEE Access*, **2022**, 1-1	3.5	0
408	On the Integration of Reconfigurable Intelligent Surfaces in Real-World Environments: A Convenient Approach for Estimation Reflection and Transmission.. *IEEE Antennas and Propagation Magazine*, **2022**, 2-13	1.7	2
407	Wireless power transfer based on novel physical concepts. *Nature Electronics*, **2021**, 4, 707-716	28.4	17
406	Complementary Metasurfaces for Guiding Electromagnetic Wave. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 1815-1820	4.9	4
405	A Multi-Functional Reconfigurable Metasurface: Electromagnetic Design Accounting for Fabrication Aspects. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 1440-1454	4.9	31
404	Macroscopic Modeling of Anomalously Reflecting Metasurfaces: Angular Response and Far-Field Scattering. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	9
403	High-Impedance Wireless Power Transfer Transmitter Coils for Freely Positioning Receivers. *IEEE Access*, **2021**, 9, 42994-43000	3.5	3
402	Time-Varying Components for Enhancing Wireless Transfer of Power and Information. *Physical Review Applied*, **2021**, 16,	4.3	4
401	On the Path-Loss of Reconfigurable Intelligent Surfaces: An Approach Based on Green Theorem Applied to Vector Fields. *IEEE Transactions on Communications*, **2021**, 69, 5573-5592	6.9	34
400	Self-tuning Omnidirectional Wireless Power Transfer using Double Toroidal Helix Coils. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	2
399	Optical Forces Acting on a Double DNA-Like Helix, Its Unwinding and Strands Rupture. *Photonics*, **2020**, 7, 83	2.2	2
398	Metasurfaces **2020**, 63-92		
397	Plasmonics **2020**, 154-173		

396	Building Blocks for All-Optical Signal Processing: Metatronics **2020**, 174-195		
395	Nanostructures for Enhancement of Thermophotovoltaic Systems **2020**, 304-334		
394	Metamaterials **2020**, 26-62		
393	Self-Tuning Multi-Transmitter Wireless Power Transfer to Freely Positioned Receivers. *IEEE Access*, **2020**, 8, 119940-119950	3.5	9
392	Toward Intelligent Metasurfaces: The Progress from Globally Tunable Metasurfaces to Software-Defined Metasurfaces with an Embedded Network of Controllers. *Advanced Optical Materials*, **2020**, 8, 2000783	8.1	66
391	Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. *IEEE Open Journal of the Communications Society*, **2020**, 1, 798-807	6.7	221
390	Instantaneous radiation from time-varying electric and magnetic dipoles. *Physical Review A*, **2020**, 102,	2.6	9
389	A review of exact solutions for conversion of a surface wave into a propagating wave. *Journal of Physics: Conference Series*, **2020**, 1461, 012175	0.3	
388	Physical Meaning of the Dipole Radiation Resistance in Lossless and Lossy Media: What is the Radiation Resistance of Antennas in Lossy Media?. *IEEE Antennas and Propagation Magazine*, **2020**, 62, 75-81	1.7	4
387	Perfect Conversion of a TM Surface Wave Into a TM Leaky Wave by an Isotropic Periodic Metasurface Printed on a Grounded Dielectric Slab. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 6145-6153	4.9	4
386	Nonreciprocity in Bianisotropic Systems with Uniform Time Modulation. *Physical Review Letters*, **2020**, 125, 266102	7.4	16
385	Time-modulated reactive elements for control of electromagnetic energy. *URSI Radio Science Bulletin*, **2020**, 2020, 39-45	0.1	
384	An Introduction to Metamaterials and Nanophotonics **2020**,		9
383	. *IEEE Journal on Selected Areas in Communications*, **2020**, 38, 2450-2525	14.2	525
382	Analytical Modeling of the Path-Loss for Reconfigurable Intelligent Surfaces Anomalous Mirror or Scatterer ? **2020**,		40
381	Tutorial on Electromagnetic Nonreciprocity and its Origins. *Proceedings of the IEEE*, **2020**, 108, 1684-1727	14.3	35
380	Independent Control of Multiple Channels in Metasurface Devices. *Physical Review Applied*, **2020**, 14,	4.3	6
379	Nonscattering Metasurface-Bound Cavities for Field Localization, Enhancement, and Suppression. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 1689-1703	4.9	7

378	Parallel-Plate Waveguides Formed by Penetrable Metasurfaces. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 1773-1785	4.9	7
377	Theory and Design of Multifunctional Space-Time Metasurfaces. *Physical Review Applied*, **2020**, 13,	4.3	33
376	Modular Analysis of Arbitrary Dipolar Scatterers. *Physical Review Applied*, **2019**, 12,	4.3	4
375	Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces. *IEEE Access*, **2019**, 7, 122931-122948	3.5	27
374	Omega-bianisotropic metasurface for converting a propagating wave into a surface wave. *Physical Review B*, **2019**, 100,	3.3	6
373	Brewster effect when approaching exceptional points of degeneracy: Epsilon-near-zero behavior. *Physical Review B*, **2019**, 99,	3.3	7
372	On the quasistatic optimal plasmonic resonances in lossy media. *Journal of Applied Physics*, **2019**, 125, 103105	2.5	3
371	Exact Solution for Conversion of Surface Waves to Space Waves by Periodical Impenetrable Metasurfaces. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 3200-3207	4.9	11
370	Intelligent Metasurfaces with Continuously Tunable Local Surface Impedance for Multiple Reconfigurable Functions. *Physical Review Applied*, **2019**, 11,	4.3	67
369	Highly Efficient Generation of Angular Momentum with Cylindrical Bianisotropic Metasurfaces. *Physical Review Applied*, **2019**, 11,	4.3	19
368	Optimal plasmonic multipole resonances of a sphere in lossy media. *Physical Review B*, **2019**, 99,	3.3	7
367	Roadmap on metasurfaces. *Journal of Optics (United Kingdom)*, **2019**, 21, 073002	1.7	69
366	High-Efficiency Wireless Power Transfer System for Capsule Endoscope **2019**,		2
365	Time-modulated meta-atoms. *Physical Review Research*, **2019**, 1,	3.9	21
364	Microwave Tunneling and Robust Information Transfer Based on Parity-Time-Symmetric Absorber-Emitter Pairs. *Research*, **2019**, 2019, 7108494	7.8	7
363	Nanoscale Channel Modeling in Highly Integrated Computing Packages **2019**, 127-150		
362	Power flow-conformal metamirrors for engineering wave reflections. *Science Advances*, **2019**, 5, eaau7288	4.3	27
361	Pulsed Self-Oscillating Nonlinear Systems for Robust Wireless Power Transfer. *Physical Review Applied*, **2019**, 12,	4.3	2

360	Parallel-Plate Waveguides Formed by Arbitrary Impedance Sheets **2019**,		1
359	All-dielectric metamirror for independent and asymmetric wave-front control. *Physical Review B*, **2019**, 100,	3.3	3
358	Active Metasurfaces as a Platform for CapacitiveWireless Power Transfer Supporting Multiple Receivers **2019**,		2
357	Time-Modulated Reactive Elements for Control of Electromagnetic Energy **2019**,		3
356	Instantaneous Control of Scattering From a Time-Modulated Meta-Atom **2019**,		2
355	Toward Ultimate Control of Terahertz Wave Absorption in Graphene. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 2452-2461	4.9	27
354	Time-Varying Reactive Elements for Extreme Accumulation of Electromagnetic Energy. *Physical Review Applied*, **2019**, 11,	4.3	43
353	Transmission Magnitude and Phase Control for Polarization-Preserving Reflectionless Metasurfaces. *Physical Review Applied*, **2018**, 9,	4.3	14
352	Systematic design and experimental demonstration of bianisotropic metasurfaces for scattering-free manipulation of acoustic wavefronts. *Nature Communications*, **2018**, 9, 1342	17.4	125
351	Bianisotropic metasurfaces: physics and applications. *Nanophotonics*, **2018**, 7, 1069-1094	6.3	108
350	Susceptibility Derivation and Experimental Demonstration of Refracting Metasurfaces Without Spurious Diffraction. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 1321-1330	4.9	87
349	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 1340-1351	4.9	18
348	Arbitrary beam control using passive lossless metasurfaces enabled by orthogonally polarized custom surface waves. *Physical Review B*, **2018**, 97,	3.3	21
347	Shadow-free multimers as extreme-performance meta-atoms. *Physical Review B*, **2018**, 97,	3.3	11
346	Stored and absorbed energy of fields in lossy chiral single-component metamaterials. *Physical Review B*, **2018**, 97,	3.3	10
345	Near-perfect conversion of a propagating plane wave into a surface wave using metasurfaces. *Physical Review B*, **2018**, 97,	3.3	27
344	On-Site Wireless Power Generation. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 4260-4268	4.9	17
343	Intercell Wireless Communication in Software-defined Metasurfaces **2018**,		22

342	Tunable Perfect Anomalous Reflection in Metasurfaces with Capacitive Lumped Elements **2018**,		6
341	Extreme Asymmetry in Metasurfaces via Evanescent Fields Engineering: Angular-Asymmetric Absorption. *Physical Review Letters*, **2018**, 121, 256802	7.4	39
340	Software-Defined Metasurface Paradigm: Concept, Challenges, Prospects **2018**,		11
339	Electromagnetic Nonreciprocity. *Physical Review Applied*, **2018**, 10,	4.3	198
338	Physical Conditions for Full Control of Transmission Through Non-Reflecting Metasurfaces **2018**,		1
337	Planar Broadband Huygens Metasurfaces for Wave Manipulations. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 7117-7127	4.9	23
336	Programmable Metasurfaces: State of the Art and Prospects **2018**,		32
335	Breaking the black-body limit with resonant surfaces. *EPJ Applied Metamaterials*, **2017**, 4, 5	0.8	
334	Planar Interfaces **2017**, 165-250		
333	Metasurfaces for perfect control of reflection **2017**,		6
332	Far-field Scattering **2017**, 87-164		
331	Equivalent realizations of reciprocal metasurfaces: Role of tangential and normal polarization. *Physical Review B*, **2017**, 95,	3.3	22
330	A personal view on the origins and developments of the metamaterial concept. *Journal of Optics (United Kingdom)*, **2017**, 19, 013002	1.7	28
329	From the generalized reflection law to the realization of perfect anomalous reflectors. *Science Advances*, **2017**, 3, e1602714	14.3	204
328	Flat Engineered Multichannel Reflectors. *Physical Review X*, **2017**, 7,	9.1	68
327	Acoustic metasurfaces for scattering-free anomalous reflection and refraction. *Physical Review B*, **2017**, 96,	3.3	74
326	The century of metamaterials. *Journal of Optics (United Kingdom)*, **2017**, 19, 080404	1.7	9
325	Complex-media electromagnetics and metamaterials. *Journal of Optics (United Kingdom)*, **2017**, 19, 084006	1.7	12

324	An Accurate Method for Measuring the Sheet Impedance of Thin Conductive Films at Microwave and Millimeter-Wave Frequencies. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 5009-5018	4.1	18
323	Metasurfaces for General Control of Reflection and Transmission. *World Scientific Series in Nanoscience and Nanotechnology*, **2017**, 249-293	0.1	5
322	Non-local metasurfaces for perfect control of reflection and transmission **2017**,		2
321	Normal vs tangential polarizations in metasurfaces **2017**,		1
320	Perfect reflection control for impenetrable surfaces using surface waves of orthogonal polarization. *Physical Review B*, **2017**, 96,	3.3	23
319	Functional metasurfaces: Do we need normal polarizations? **2017**,		2
318	**2017**,		50
317	Super-Resolution and Near-Field Enhancement with Layers of Resonant Arrays of Nanoparticles **2017**, 4-1-4-12		
316	Phase-change material-based nanoantennas with tunable radiation patterns. *Optics Letters*, **2016**, 41, 4099-102	3	35
315	Perfect control of reflection and refraction using spatially dispersive metasurfaces. *Physical Review B*, **2016**, 94,	3.3	235
314	Multifunctional Cascaded Metamaterials: Integrated Transmitarrays. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 4266-4276	4.9	37
313	Nonreciprocal metamaterials: A global perspective **2016**,		1
312	Thin absorbers: operational principles and various realizations. *IEEE Electromagnetic Compatibility Magazine*, **2016**, 5, 61-66	0.4	9
311	Theoretical concepts of unlimited-power reflectors, absorbers, and emitters with conjugately matched layers. *Physical Review B*, **2016**, 94,	3.3	6
310	Homogenization of metasurfaces formed by random resonant particles in periodical lattices. *Physical Review B*, **2016**, 93,	3.3	20
309	Parity-time-symmetric teleportation. *Physical Review B*, **2016**, 93,	3.3	23
308	Electromagnetic characterization of bianisotropic metasurfaces on refractive substrates: General theoretical framework. *Annalen Der Physik*, **2016**, 528, 721-737	2.6	33
307	Metasurfaces for perfect and full control of refraction and reflection **2016**,		4

306	Towards printed millimeter-wave components: Material characterization **2016**,		3
305	Magnetoelectric coupling without electric and magnetic response? **2016**,		1
304	Overcoming black body radiation limit in free space: metamaterial superemitter. *New Journal of Physics*, **2016**, 18, 013034	2.9	31
303	Optical metamirror: all-dielectric frequency-selective mirror with fully controllable reflection phase. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, A16	1.7	28
302	Scanning Characteristics of Metamirror Antennas With Subwavelength Focal Distance. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 3656-3660	4.9	4
301	Purely bianisotropic scatterers. *Physical Review B*, **2016**, 94,	3.3	14
300	Scanning properties of novel metasurface-based reflector antennas **2016**,		1
299	Suitability of roll-to-roll reverse offset printing for mass production of millimeter-wave antennas: Progress report **2016**,		3
298	Broadband power transfer through a metallic wire medium slab **2016**,		3
297	Metasurfaces: From microwaves to visible. *Physics Reports*, **2016**, 634, 1-72	27.7	627
296	Enhancement of Radiation With Irregular Wire Media. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 5469-5474	4.9	4
295	Functional metamirrors using bianisotropic elements. *Physical Review Letters*, **2015**, 114, 095503	7.4	117
294	Metasurfaces for general transformations of electromagnetic fields. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2015**, 373,	3	88
293	A Bianisotropic Metasurface With Resonant Asymmetric Absorption. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 3004-3015	4.9	44
292	Full Light Absorption in Single Arrays of Spherical Nanoparticles. *ACS Photonics*, **2015**, 2, 653-660	6.3	41
291	Thin Perfect Absorbers for Electromagnetic Waves: Theory, Design, and Realizations. *Physical Review Applied*, **2015**, 3,	4.3	324
290	Perfect magnetic mirror and simple perfect absorber in the visible spectrum. *Physical Review B*, **2015**, 91,	3.3	45
289	Wire-Medium Hyperlens for Enhancing Radiation From Subwavelength Dipole Sources. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 4848-4856	4.9	7

288	Electromagnetic energy sink. *Physical Review B*, **2015**, 92,	3.3	26
287	An antenna model for the Purcell effect. *Scientific Reports*, **2015**, 5, 12956	4.9	115
286	Nihility in non-reciprocal bianisotropic media. *EPJ Applied Metamaterials*, **2015**, 2, 6	0.8	3
285	MULTI-MODE BROADBAND POWER TRANSFER THROUGH A WIRE MEDIUM SLAB (INVITED PAPER). *Progress in Electromagnetics Research*, **2015**, 154, 171-180	3.8	5
284	Broadband Reflectionless Metasheets: Frequency-Selective Transmission and Perfect Absorption. *Physical Review X*, **2015**, 5,	9.1	90
283	Hyperlens makes thermal emission strongly super-Planckian. *Photonics and Nanostructures - Fundamentals and Applications*, **2015**, 13, 31-41	2.6	19
282	Resonant metasurfaces at oblique incidence: interplay of order and disorder. *Scientific Reports*, **2014**, 4, 4484	4.9	48
281	One-way transparent sheets. *Physical Review B*, **2014**, 89,	3.3	53
280	On the Minimal Scattering Response of PEC Cylinders in a Dielectric Cloak. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 403-406	3.8	12
279	Extreme coupling: A route towards local magnetic metamaterials. *Physical Review B*, **2014**, 89,	3.3	6
278	Hyperbolic-metamaterial antennas for broadband enhancement of dipole emission to free space. *Journal of Applied Physics*, **2014**, 116, 163106	2.5	23
277	Tailoring Reflections From Thin Composite Metamirrors. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 3749-3760	4.9	61
276	Multifunctional stretchable metasurface for the THz range. *Journal of Optics (United Kingdom)*, **2014**, 16, 032001	1.7	18
275	. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 5089-5098	4.9	24
274	Determining polarizability tensors for an arbitrary small electromagnetic scatterer. *Photonics and Nanostructures - Fundamentals and Applications*, **2014**, 12, 298-304	2.6	57
273	Maximizing Absorption and Scattering by Dipole Particles. *Plasmonics*, **2014**, 9, 935-944	2.4	88
272	Least Upper Bounds of the Powers Extracted and Scattered by Bi-anisotropic Particles. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 4726-4735	4.9	15
271	Polarizabilities of Nonreciprocal Bianisotropic Particles. *Physical Review Applied*, **2014**, 1,	4.3	19

270	METAMORPHOSE VI □ The Virtual Institute for artificial electromagnetic materials and metamaterials: origin, mission, and activities. *EPJ Applied Metamaterials*, **2014**, 1, 1	0.8	
269	The potential energy of non-resonant optimal bianisotropic particles in an electromagnetic field does not depend on time. *EPJ Applied Metamaterials*, **2014**, 1, 4	0.8	4
268	INHOMOGENEOUS MICROWAVE LENS BASED ON PERIODICALLY LOADED TRANSMISSION LINES. *Progress in Electromagnetics Research*, **2014**, 148, 141-150	3.8	2
267	Transmission lines emulating moving media. *New Journal of Physics*, **2014**, 16, 093065	2.9	12
266	Emulating hyperbolic-media properties with conventional structures. *New Journal of Physics*, **2014**, 16, 063004	2.9	8
265	Omega transmission lines with applications to effective medium models of metamaterials. *Journal of Applied Physics*, **2014**, 115, 134905	2.5	13
264	Analytical polarizabilities of nonreciprocal bianisotropic particles **2014**,		1
263	On screening of antenna near fields by a finite ground plane **2014**,		1
262	Experimental Characterization of Electromagnetic Cloaking Devices at Microwaves **2014**, 315-347		
261	Synthesis of Polarization Transformers. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 3102-3111	4.9	170
260	Total Absorption of Electromagnetic Waves in Ultimately Thin Layers. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 4606-4614	4.9	124
259	Eliminating Electromagnetic Scattering From Small Particles. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 3747-3756	4.9	23
258	Compact negative-epsilon stop-band structures based on double-layer chiral inclusions. *IET Microwaves, Antennas and Propagation*, **2013**, 7, 621-629	1.6	4
257	. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 4101-4108	4.9	9
256	Advanced self-interference cancellation and multiantenna techniques for full-duplex radios **2013**,		23
255	Nonlinear active Huygens metasurfaces for reflectionless phase conjugation of electromagnetic waves in electrically thin layers. *Journal of Electromagnetic Waves and Applications*, **2013**, 27, 1309-1328	1.3	3
254	Experimental study of anti-resonant behavior of material parameters in periodic and aperiodic composite materials. *Journal of Applied Physics*, **2013**, 113, 224903	2.5	15
253	Non-reciprocal one-way transparent sheets **2013**,		1

252	Polarization effects in stretchable metasurfaces for THz frequency range **2013**,		1
251	Equivalent circuit model of radiative heat transfer. *Physical Review B*, **2013**, 87,	3.3	17
250	Optimization of radiative heat transfer in hyperbolic metamaterials for thermophotovoltaic applications. *Optics Express*, **2013**, 21, 14988-5013	3.3	93
249	Balanced and optimal bianisotropic particles: maximizing power extracted from electromagnetic fields. *New Journal of Physics*, **2013**, 15, 053008	2.9	49
248	Amorphous Metamaterials and Potential Nanophotonics Applications. *Nano-optics and Nanophotonics*, **2013**, 39-66	0	2
247	Reconfigurable Artificial Surfaces Based on Impedance Loaded Wires Close to a Ground Plane. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 1921-1930	4.9	8
246	Isotropic Chiral Objects With Zero Backscattering. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 4449-4452	4.9	13
245	Effective response of metasurfaces: From periodical to random structures **2012**,		1
244	Experimental demonstration of antenna blockage reduction with a transmission-line cloak. *IET Microwaves, Antennas and Propagation*, **2012**, 6, 830	1.6	26
243	Electrically small Huygens source antenna for linear polarisation. *IET Microwaves, Antennas and Propagation*, **2012**, 6, 735	1.6	43
242	Circularly Polarized Receiving Antenna Incorporating Two Helices to Achieve Low Backscattering. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 3471-3475	4.9	11
241	Experimental Characterization of a Broadband Transmission-Line Cloak in Free Space. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 4963-4968	4.9	24
240	Experimental characterization of electromagnetic cloaking structures with bistatic measurements at X-band **2012**,		2
239	Synthesizing a twist polarizer **2012**,		4
238	Effective electric and magnetic properties of metasurfaces in transition from crystalline to amorphous state. *Physical Review B*, **2012**, 85,	3.3	41
237	Numerical modeling and characterization of selected electromagnetic cloaking structures (Invited paper). *International Journal of RF and Microwave Computer-Aided Engineering*, **2012**, 22, 483-495	1.5	4
236	Perfect lensing with phase-conjugating surfaces: toward practical realization. *New Journal of Physics*, **2012**, 14, 035007	2.9	17
235	Bistatic scattering characterization of a three-dimensional broadband cloaking structure. *Journal of Applied Physics*, **2012**, 111, 034901	2.5	15

234	TE Surface Wave Resonances on High-Impedance Surface Based Antennas: Analysis and Modeling. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 3588-3596	4.9	93
233	Transmission-Line Cloak as an Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 1594-1597	3.8	10
232	On the effective permittivity of arrays of ferromagnetic wires. *Journal of Applied Physics*, **2011**, 110, 104902	2.5	9
231	Choosing Dielectric or Magnetic Material to Optimize the Bandwidth of Miniaturized Resonant Antennas. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 3991-3998	4.9	15
230	A Stepwise Nicolson–Ross–Weir-Based Material Parameter Extraction Method. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 1295-1298	3.8	153
229	Additional effective medium parameters for composite materials (excess surface currents). *Optics Express*, **2011**, 19, 6699-704	3.3	23
228	Simple cloak for antenna blockage reduction **2011**,		8
227	Electromagnetic response and homogenization of grids of ferromagnetic microwires. *Journal of Applied Physics*, **2011**, 110, 064909	2.5	22
226	Effective medium model for two-dimensional periodic arrays of carbon nanotubes. *Photonics and Nanostructures - Fundamentals and Applications*, **2011**, 9, 374-380	2.6	14
225	Experimental studies on antenna miniaturisation using magneto-dielectric and dielectric materials. *IET Microwaves, Antennas and Propagation*, **2011**, 5, 495	1.6	32
224	Design and realisation of an electrically small Huygens source for circular polarisation. *IET Microwaves, Antennas and Propagation*, **2011**, 5, 783	1.6	28
223	Broadband Electromagnetic Cloaking Realized With Transmission-Line and Waveguiding Structures. *Proceedings of the IEEE*, **2011**, 99, 1646-1659	14.3	43
222	Ultrabroadband electromagnetically indefinite medium formed by aligned carbon nanotubes. *Physical Review B*, **2011**, 84,	3.3	27
221	High-Impedance-Surface-Based Antenna With Two Orthogonal Radiating Modes. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 247-250	3.8	7
220	Effective model and investigation of the near-field enhancement and subwavelength imaging properties of multilayer arrays of plasmonic nanospheres. *Physical Review E*, **2011**, 84, 016607	2.4	33
219	Nonlinear transformation optics and engineering of the Kerr effect. *Physical Review B*, **2011**, 84,	3.3	21
218	Three-dimensional metamaterial nanotips. *Physical Review B*, **2010**, 81,	3.3	30
217	Corrections to "Simple and Accurate Analytical Model of Planar Grids and High-Impedance Surfaces Comprising Metal Strips or Patches" [Jun 08 1624-1632]. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 2162-2162	4.9	6

216	Cloaking a metal object from an electromagnetic pulse: A comparison between various cloaking techniques. *Journal of Applied Physics*, **2010**, 107, 034905	2.5	22
215	Metamaterial-based cloaking with sparse distribution of spiral resonators **2010**,		1
214	A tri-band low-profile antenna based on a high-impedance surface **2010**,		1
213	A comparative study of cloaking of metal objects from electromagnetic pulses **2010**,		2
212	Experimental verification of the suppression of spatial dispersion in artificial plasma. *Applied Physics Letters*, **2010**, 96, 081501	3.4	10
211	Validity of effective material parameters for optical fishnet metamaterials. *Physical Review B*, **2010**, 81,	3.3	104
210	Electromagnetic cloaking of strongly scattering cylindrical objects by a volumetric structure composed of conical metal plates. *Physical Review B*, **2010**, 82,	3.3	17
209	On effective electromagnetic parameters of artificial nanostructured magnetic materials. *Photonics and Nanostructures - Fundamentals and Applications*, **2010**, 8, 254-263	2.6	27
208	GROUNDED UNIAXIAL MATERIAL SLABS AS MAGNETIC CONDUCTORS. *Progress in Electromagnetics Research B*, **2009**, 15, 267-283	0.7	11
207	Experimental verification of broadband cloaking using a volumetric cloak composed of periodically stacked cylindrical transmission-line networks. *Applied Physics Letters*, **2009**, 94, 014103	3.4	69
206	Broadband cloaking of selected objects in the microwave regime with a volumetric cloak comprising layered networks of transmission lines. *Digest / IEEE Antennas and Propagation Society International Symposium*, **2009**,		2
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6	Numerical simulations of patch antennas with stacked split-ring resonators as artificial magnetic substrates		3
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