Richard W Ziolkowski

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382 10,104 48 87 g-index

503 12,803 3 6.94 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
382	Wave propagation in media having negative permittivity and permeability. <i>Physical Review E</i> , 2001 , 64, 056625	2.4	650
381	Propagation in and scattering from a matched metamaterial having a zero index of refraction. <i>Physical Review E</i> , 2004 , 70, 046608	2.4	446
380	Metamaterial-based efficient electrically small antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 2113-2130	4.9	331
379	A positive future for double-negative metamaterials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 1535-1556	4.1	260
378	. IEEE Transactions on Antennas and Propagation, 2008 , 56, 691-707	4.9	259
377	Ultrafast pulse interactions with two-level atoms. <i>Physical Review A</i> , 1995 , 52, 3082-3094	2.6	258
376	Exact solutions of the wave equation with complex source locations. <i>Journal of Mathematical Physics</i> , 1985 , 26, 861-863	1.2	230
375	Localized transmission of electromagnetic energy. <i>Physical Review A</i> , 1989 , 39, 2005-2033	2.6	194
374	Metamaterial-Inspired Engineering of Antennas. <i>Proceedings of the IEEE</i> , 2011 , 99, 1720-1731	14.3	171
373	The design and simulated performance of a coated nano-particle laser. Optics Express, 2007, 15, 2622-	533.3	171
372	Characterization of a volumetric metamaterial realization of an artificial magnetic conductor for antenna applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 160-172	4.9	153
371	Pulsed and CW Gaussian beam interactions with double negative metamaterial slabs. <i>Optics Express</i> , 2003 , 11, 662-81	3.3	151
370	. IEEE Transactions on Antennas and Propagation, 2012 , 60, 102-109	4.9	150
369	A Three-Dimensional Modified Finite Volume Technique for Maxwell's Equations. <i>Electromagnetics</i> , 1990 , 10, 147-161	0.8	140
368	Superluminal transmission of information through an electromagnetic metamaterial. Physical	2.4	133
	Review E, 2001 , 63, 046604	2.4	-55
367	Review E, 2001, 63, 046604 A bidirectional traveling plane wave representation of exact solutions of the scalar wave equation. Journal of Mathematical Physics, 1989, 30, 1254-1269	1.2	129

365	Evidence of localized wave transmission. <i>Physical Review Letters</i> , 1989 , 62, 147-150	7.4	112
364	Multi-Frequency, Linear and Circular Polarized, Metamaterial-Inspired, Near-Field Resonant Parasitic Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 1446-1459	4.9	105
363	Propagation characteristics of ultrawide-bandwidth pulsed Gaussian beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1992 , 9, 2021	1.8	105
362	Metamaterial-Inspired, Electrically Small Huygens Sources. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 501-505	3.8	100
361	Multi-Band, Wide-Beam, Circularly Polarized, Crossed, Asymmetrically Barbed Dipole Antennas for GPS Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2013 , 61, 5771-5775	4.9	93
360	Wideband Pattern-Reconfigurable Antenna With Switchable Broadside and Conical Beams. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 2638-2641	3.8	91
359	Finite-difference time-domain modeling of nonperfectly conducting metallic thin-film gratings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995 , 12, 1974	1.8	89
358	Full-wave vector Maxwell equation modeling of the self-focusing of ultrashort optical pulses in a nonlinear Kerr medium exhibiting a finite response time. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1993 , 10, 186	1.7	80
357	Crossed Dipole Antennas: A review IEEE Antennas and Propagation Magazine, 2015, 57, 107-122	1.7	79
356	Numerical solution of Maxwell's equations in the time domain using irregular nonorthogonal grids. <i>Wave Motion</i> , 1988 , 10, 583-596	1.8	79
355	Broadband, Efficient, Electrically Small Metamaterial-Inspired Antennas Facilitated by Active Near-Field Resonant Parasitic Elements. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 318-3	3 <i>2</i> 17 ⁹	76
354	Asymptotic evaluation of high-frequency fields near a caustic: An introduction to Maslov's method. <i>Radio Science</i> , 1984 , 19, 1001-1025	1.4	76
353	Single-Negative, Double-Negative, and Low-index Metamaterials and their Electromagnetic Applications. <i>IEEE Antennas and Propagation Magazine</i> , 2007 , 49, 23-36	1.7	68
352	Mutual Coupling Reduction Using Meta-Structures for Wideband, Dual-Polarized, and High-Density Patch Arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 3986-3998	4.9	65
351	Body-of-revolution finite-difference time-domain modeling of spacetime focusing by a three-dimensional lens. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1994 , 11, 1471	1.8	64
350	Excitation of guided waves in layered structures with negative refraction. <i>Optics Express</i> , 2005 , 13, 481	-932.3	63
349	Causality and double-negative metamaterials. <i>Physical Review E</i> , 2003 , 68, 026615	2.4	63
348	Active Metamaterial-Inspired Broad-Bandwidth, Efficient, Electrically Small Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 1582-1585	3.8	59

347	The scattering of an H-polarized plane wave from an axially slotted infinite cylinder: A dual series approach. <i>Radio Science</i> , 1984 , 19, 275-291	1.4	57
346	Planar Ultrawideband Antennas With Improved Realized Gain Performance. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 61-69	4.9	54
345	. IEEE Transactions on Antennas and Propagation, 2016 , 64, 4607-4617	4.9	53
344	At and below the Chu limit: passive and active broad bandwidth metamaterial-based electrically small antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2007 , 1, 116	1.6	53
343	Verification of the localized-wave transmission effect. <i>Journal of Applied Physics</i> , 1990 , 68, 6083-6086	2.5	52
342	28 GHz Compact Omnidirectional Circularly Polarized Antenna for Device-to-Device Communications in the Future 5G Systems. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 6904-6914	4.9	51
341	Circularly Polarized Crossed Dipole on an HIS for 2.4/5.2/5.8-GHz WLAN Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 1464-1467	3.8	51
340	. IEEE Transactions on Antennas and Propagation, 2016 , 64, 3353-3360	4.9	51
339	Compact Planar Ultrawideband Antennas With Continuously Tunable, Independent Band-Notched Filters. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 3292-3301	4.9	51
338	CNP optical metamaterials. <i>Optics Express</i> , 2008 , 16, 6692-716	3.3	49
337	FDTD simulation of the nonlinear gain dynamics in active optical waveguides and semiconductor microcavities. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004 , 10, 1052-1062	3.8	49
336	FDTD analysis of PBG waveguides, power splitters and switches. <i>Optical and Quantum Electronics</i> , 1999 , 31, 843-855	2.4	49
335	Low Profile, Broadside Radiating, Electrically Small Huygens Source Antennas. <i>IEEE Access</i> , 2015 , 3, 264	1432565	1 48
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333	. IEEE Transactions on Antennas and Propagation, 2014 , 62, 2962-2969	4.9	47
332	Electrically Small, Low-Profile, Huygens Circularly Polarized Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 636-643	4.9	45
331	Dual-band wide-beam crossed asymmetric dipole antenna for GPS applications. <i>Electronics Letters</i> , 2012 , 48, 1580-1581	1.1	45
330	. IEEE Access, 2013 , 1, 16-28	3.5	45

329	A novel approach to the synthesis of nondispersive wave packet solutions to the Klein ordon and Dirac equations. <i>Journal of Mathematical Physics</i> , 1990 , 31, 2511-2519	1.2	45	
328	Reconfigurable, Wideband, Low-Profile, Circularly Polarized Antenna and Array Enabled by an Artificial Magnetic Conductor Ground. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 1564-	15 69	43	
327	Localized wave physics and engineering. <i>Physical Review A</i> , 1991 , 44, 3960-3984	2.6	43	
326	. IEEE Transactions on Antennas and Propagation, 2017 , 65, 1063-1072	4.9	42	
325	Broad-Bandwidth, Electrically Small Antenna Augmented With an Internal Non-Foster Element. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 1116-1120	3.8	42	
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323	. IEEE Transactions on Antennas and Propagation, 2007 , 55, 731-741	4.9	42	
322	Reciprocity between the effects of resonant scattering and enhanced radiated power by electrically small antennas in the presence of nested metamaterial shells. <i>Physical Review E</i> , 2005 , 72, 036602	2.4	41	
321	Photoconductive THz Antenna Designs With High Radiation Efficiency, High Directivity, and High Aperture Efficiency. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 721-730	3.4	40	
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319	Circularly Polarized Antenna With Reconfigurable Broadside and Conical Beams Facilitated by a Mode Switchable Feed Network. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 996-1001	4.9	38	
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317	Nondispersive accelerating wave packets. American Journal of Physics, 1994, 62, 519-521	0.7	37	
316	Localized energy pulse trains launched from an open, semi-infinite, circular waveguide. <i>Journal of Applied Physics</i> , 1989 , 65, 805-813	2.5	37	
315	Electrically Small, Broadside Radiating Huygens Source Antenna Augmented With Internal Non-Foster Elements to Increase Its Bandwidth. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 712-715	3.8	36	
314	A High-Directivity, Wideband, Efficient, Electrically Small Antenna System. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 6541-6547	4.9	36	
313	Active coated nano-particle excited by an arbitrarily located electric Hertzian dipoledesonance and transparency effects. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 024014	1.7	36	
312	n-Series Problems and the Coupling of Electromagnetic Waves to Apertures: A RiemannHilbert Approach. <i>SIAM Journal on Mathematical Analysis</i> , 1985 , 16, 358-378	1.7	36	

311	On the evanescent fields and the causality of the focus wave modes. <i>Journal of Mathematical Physics</i> , 1995 , 36, 5565-5587	1.2	35
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307	An efficient metamaterial-inspired electrically-small antenna. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 1287-1290	1.2	34
306	A Wideband Low-Profile Tightly Coupled Antenna Array With a Very High Figure of Merit. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 2332-2343	4.9	34
305	A high-Q reconfigurable planar EBG cavity resonator. <i>IEEE Microwave and Wireless Components Letters</i> , 2001 , 11, 255-257	2.6	33
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303	. IEEE Transactions on Antennas and Propagation, 2019 , 67, 4418-4428	4.9	31
302	Advances in Reconfigurable Antenna Systems Facilitated by Innovative Technologies. <i>IEEE Access</i> , 2018 , 6, 5780-5794	3.5	31
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300	Generation of approximate focus-wave-mode pulses from wide-band dynamic Gaussian apertures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 1954	1.8	31
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296	Induction Theorem Analysis of Resonant Nanoparticles: Design of a Huygens Source Nanoparticle Laser. <i>Physical Review Applied</i> , 2014 , 1,	4.3	29
295	Passive artificial molecule realizations of dielectric materials. <i>Journal of Applied Physics</i> , 1997 , 82, 3195	-3 <u>1</u> .98	29
294	Maxwellian material based absorbing boundary conditions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1999 , 169, 237-262	5.7	29

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2 90	Multifunctional, Electrically Small, Planar Near-Field Resonant Parasitic Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 200-204	3.8	28	
289	Tailoring double-negative metamaterial responses to achieve anomalous propagation effects along microstrip transmission lines. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2003 , 51, 2306-237	14 ^{.1}	28	
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285	Time-derivative Lorentz materials and their utilization as electromagnetic absorbers. <i>Physical Review E</i> , 1997 , 55, 7696-7703	2.4	27	
284	Investigating functionalized active coated nanoparticles for use in nano-sensing applications. <i>Optics Express</i> , 2007 , 15, 12562-82	3.3	27	
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282	Ultralow-Profile, Electrically Small, Pattern-Reconfigurable Metamaterial-Inspired Huygens Dipole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 1238-1248	4.9	26	
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267	Polarization-Reconfigurable Leaky-Wave Antenna With Continuous Beam Scanning Through Broadside. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 121-133	4.9	23
266	Compact, Low-Profile, Bandwidth-Enhanced Substrate Integrated Waveguide Filtenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1552-1556	3.8	22
265	Ultra-wideband electromagnetic pulse propagation in a homogeneous, cold plasma. <i>Radio Science</i> , 1997 , 32, 239-250	1.4	22
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262	A Scalable THz Photonic Crystal Fiber With Partially-Slotted Core That Exhibits Improved Birefringence and Reduced Loss. <i>Journal of Lightwave Technology</i> , 2018 , 36, 3408-3417	4	21
261	Two-dimensional efficient metamaterial-inspired electrically-small antenna. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 1669-1673	1.2	21
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259	Frequency-Agile, Efficient, Near-Field Resonant Parasitic Monopole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 1479-1483	4.9	20
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247	Wide-Beam Circularly Polarized Crossed Scythe-Shaped Dipoles for Global Navigation Satellite Systems. <i>Journal of the Korean Institute of Electromagnetic Engineering and Science</i> , 2013 , 13, 224-232	2.3	19	
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234	Lumped element-based, highly sub-wavelength, negative index metamaterials at UHF frequencies. Journal of Applied Physics, 2008 , 104, 034901	2.5	17
233	Excitation of an electrically small metamaterial-coated cylinder by an arbitrarily located line source. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 2598-2606	1.2	17
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