

Tomasz M Grzegorzcyk

List of Publications by Year in descending order

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55
papers

5,044
citations

201674

27
h-index

168389

53
g-index

55
all docs

55
docs citations

55
times ranked

3141
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust method to retrieve the constitutive effective parameters of metamaterials. Physical Review E, 2004, 70, 016608.	2.1	1,719
2	Left-handed materials composed of only S-shaped resonators. Physical Review E, 2004, 70, 057605.	2.1	363
3	Experimental Observation of Left-Handed Behavior in an Array of Standard Dielectric Resonators. Physical Review Letters, 2007, 98, 157403.	7.8	278
4	Fast 3-D Tomographic Microwave Imaging for Breast Cancer Detection. IEEE Transactions on Medical Imaging, 2012, 31, 1584-1592.	8.9	273
5	A STUDY OF USING METAMATERIALS AS ANTENNA SUBSTRATE TO ENHANCE GAIN. Progress in Electromagnetics Research, 2005, 51, 295-328.	4.4	267
6	Retrieval of the effective constitutive parameters of bianisotropic metamaterials. Physical Review E, 2005, 71, 046610.	2.1	225
7	Experimental confirmation of negative refractive index of a metamaterial composed of $\hat{\epsilon}$ -like metallic patterns. Applied Physics Letters, 2004, 84, 1537-1539.	3.3	220
8	Guided modes with imaginary transverse wave number in a slab waveguide with negative permittivity and permeability. Journal of Applied Physics, 2003, 93, 9386-9388.	2.5	179
9	Negative refraction of a combined double S-shaped metamaterial. Applied Physics Letters, 2005, 86, 151909.	3.3	107
10	Metamaterial exhibiting left-handed properties over multiple frequency bands. Journal of Applied Physics, 2004, 96, 5338-5340.	2.5	102
11	EXPERIMENTAL STUDY ON SEVERAL LEFT-HANDED MATAMATERIALS. Progress in Electromagnetics Research, 2005, 51, 249-279.	4.4	97
12	Stable Optical Trapping Based on Optical Binding Forces. Physical Review Letters, 2006, 96, 113903.	7.8	90
13	Controllable left-handed metamaterial and its application to a steerable antenna. Applied Physics Letters, 2006, 89, 053509.	3.3	83
14	MAGNETIC PROPERTIES OF S-SHAPED SPLIT-RING RESONATORS. Progress in Electromagnetics Research, 2005, 51, 231-247.	4.4	78
15	REFLECTION COEFFICIENTS AND GOOS-HANCHEN SHIFTS IN ANISOTROPIC AND BIANISOTROPIC LEFT-HANDED METAMATERIALS. Progress in Electromagnetics Research, 2005, 51, 83-113.	4.4	74
16	Ab initio study of the radiation pressure on dielectric and magnetic media. Optics Express, 2005, 13, 9280.	3.4	71
17	Reversal of wave momentum in isotropic left-handed media. Physical Review A, 2007, 75, .	2.5	65
18	Optical Momentum Transfer to Absorbing Mie Particles. Physical Review Letters, 2006, 97, 133902.	7.8	59

#	ARTICLE	IF	CITATIONS
19	Trapping and binding of an arbitrary number of cylindrical particles in an in-plane electromagnetic field. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 2324.	1.5	58
20	A Man-Portable Vector Sensor for Identification of Unexploded Ordnance. <i>IEEE Sensors Journal</i> , 2011, 11, 2542-2555.	4.7	47
21	Inversion of critical angle and Brewster angle in anisotropic left-handed metamaterials. <i>Applied Physics Letters</i> , 2005, 86, 251909.	3.3	44
22	Simultaneous Identification of Multiple Unexploded Ordnance Using Electromagnetic Induction Sensors. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 2507-2517.	6.3	44
23	Anisotropic metamaterials as antenna substrate to enhance directivity. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 680-683.	1.4	35
24	Beam shifting experiment for the characterization of left-handed properties. <i>Journal of Applied Physics</i> , 2004, 95, 2238-2241.	2.5	30
25	Passive guiding and sorting of small particles with optical binding forces. <i>Optics Letters</i> , 2006, 31, 3378.	3.3	29
26	Negative refraction and cross polarization effects in metamaterial realized with bianisotropic S-ring resonator. <i>Physical Review B</i> , 2007, 76, .	3.2	29
27	Optical Mirror from Laser-Trapped Mesoscopic Particles. <i>Physical Review Letters</i> , 2014, 112, 023902.	7.8	29
28	Electrodynamics of moving media inducing positive and negative refraction. <i>Physical Review B</i> , 2006, 74, .	3.2	27
29	The observable pressure of light in dielectric fluids. <i>Optics Letters</i> , 2011, 36, 493.	3.3	25
30	Backward coupling waveguide coupler using left-handed material. <i>Applied Physics Letters</i> , 2006, 88, 211903.	3.3	24
31	Importance of phase unwrapping for the reconstruction of microwave tomographic images. <i>Biomedical Optics Express</i> , 2011, 2, 315.	2.9	22
32	T-junction waveguide experiment to characterize left-handed properties of metamaterials. <i>Journal of Applied Physics</i> , 2003, 94, 3712-3716.	2.5	20
33	Limitation of FDTD in simulation of a perfect lens imaging system. <i>Optics Express</i> , 2005, 13, 10840.	3.4	20
34	Analytical expression of the force due to multiple TM plane-wave incidences on an infinite lossless dielectric circular cylinder of arbitrary size. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 644.	2.1	20
35	Surface wave suppression in antenna systems using magnetic metamaterial. <i>Journal of Applied Physics</i> , 2007, 101, 114913.	2.5	20
36	Subsurface electromagnetic induction imaging for unexploded ordnance detection. <i>Journal of Applied Geophysics</i> , 2012, 79, 38-45.	2.1	20

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37	Spheroidal Mode Approach for the Characterization of Metallic Objects Using Electromagnetic Induction. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 697-706.	6.3	19
38	Design and measurement of a four-port device using metamaterials. Optics Express, 2005, 13, 4737.	3.4	18
39	Role of evanescent waves in the positive and negative Goos-Hänchen shifts with left-handed material slabs. Journal of Applied Physics, 2005, 98, 094905.	2.5	13
40	Real-Time Processing of Electromagnetic Induction Dynamic Data Using Kalman Filters for Unexploded Ordnance Detection. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3439-3451.	6.3	13
41	Importance of phase unwrapping for the reconstruction of microwave tomographic images. Biomedical Optics Express, 2011, 2, 315-30.	2.9	12
42	Measurement of negative permittivity and permeability from experimental transmission and reflection with effects of cell misalignment. Journal of Applied Physics, 2006, 99, 123114.	2.5	11
43	Transfer of optical momentum: reconciliations of the Abraham and Minowski formulations. Proceedings of SPIE, 2008, , .	0.8	9
44	Enhanced microstrip stopband filter using a metamaterial substrate. Microwave and Optical Technology Letters, 2006, 48, 1522-1525.	1.4	8
45	Imaging properties of finite-size left-handed material slabs. Physical Review E, 2006, 74, 046615.	2.1	8
46	Applying a volume dipole distribution model to next-generation sensor data for multi-object data inversion and discrimination. , 2010, , .		8
47	Effect of poles on subwavelength focusing by an LHM slab. Microwave and Optical Technology Letters, 2005, 45, 49-53.	1.4	7
48	Band-stop filter based on a substrate embedded with metamaterials. Microwave and Optical Technology Letters, 2007, 49, 530-534.	1.4	5
49	Integrated SSFIP-horn antenna at 75 GHz. Microwave and Optical Technology Letters, 2000, 26, 298-302.	1.4	4
50	Green's functions for vertical current sources embedded in uniform waveguides or cavities filled with multilayered media. Microwave and Optical Technology Letters, 2002, 33, 186-191.	1.4	4
51	Pedemis: a portable electromagnetic induction sensor with integrated positioning. Proceedings of SPIE, 2012, , .	0.8	4
52	Refraction Experiments in Waveguide Environments. , 0, , 113-140.		3
53	Detection of multiple subsurface metallic targets using EMI data. Proceedings of SPIE, 2009, , .	0.8	2
54	Kalman filters applied to the detection of unexploded ordnance. Proceedings of SPIE, 2010, , .	0.8	2

#	ARTICLE	IF	CITATIONS
55	Operation of the Pedemis Sensor at the Aberdeen Proving Ground Standardized Test Site: Single and Multi-Target Inversions. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 394-398.	3.1	1