

# Tomasz M Grzegorzcyk

## List of Publications by Year in descending order

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55  
papers

5,044  
citations

201575

27  
h-index

168321

53  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3141  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Optical Mirror from Laser-Trapped Mesoscopic Particles. <i>Physical Review Letters</i> , 2014, 112, 023902.  | 2.9 | 29        |
| 2  | Operation of the Pedemis Sensor at the Aberdeen Proving Ground Standardized Test Site: Single and Multi-Target Inversions. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 394-398.  | 1.4 | 1         |
| 3  | Real-Time Processing of Electromagnetic Induction Dynamic Data Using Kalman Filters for Unexploded Ordnance Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 3439-3451.                                  | 2.7 | 13        |
| 4  | Fast 3-D Tomographic Microwave Imaging for Breast Cancer Detection. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1584-1592.   | 5.4 | 273       |
| 5  | Subsurface electromagnetic induction imaging for unexploded ordnance detection. <i>Journal of Applied Geophysics</i> , 2012, 79, 38-45.  | 0.9 | 20        |
| 6  | Pedemis: a portable electromagnetic induction sensor with integrated positioning. <i>Proceedings of SPIE</i> , 2012, , .   | 0.8 | 4         |
| 7  | Importance of phase unwrapping for the reconstruction of microwave tomographic images. <i>Biomedical Optics Express</i> , 2011, 2, 315.  | 1.5 | 22        |
| 8  | The observable pressure of light in dielectric fluids. <i>Optics Letters</i> , 2011, 36, 493.  | 1.7 | 25        |
| 9  | Simultaneous Identification of Multiple Unexploded Ordnance Using Electromagnetic Induction Sensors. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 2507-2517.  | 2.7 | 44        |
| 10 | A Man-Portable Vector Sensor for Identification of Unexploded Ordnance. <i>IEEE Sensors Journal</i> , 2011, 11, 2542-2555.   | 2.4 | 47        |
| 11 | Importance of phase unwrapping for the reconstruction of microwave tomographic images. <i>Biomedical Optics Express</i> , 2011, 2, 315-30.   | 1.5 | 12        |
| 12 | Applying a volume dipole distribution model to next-generation sensor data for multi-object data inversion and discrimination. , 2010, , .   |     | 8         |
| 13 | Kalman filters applied to the detection of unexploded ordnance. <i>Proceedings of SPIE</i> , 2010, , .   | 0.8 | 2         |
| 14 | Detection of multiple subsurface metallic targets using EMI data. <i>Proceedings of SPIE</i> , 2009, , .   | 0.8 | 2         |
| 15 | Transfer of optical momentum: reconciliations of the Abraham and Minowski formulations. <i>Proceedings of SPIE</i> , 2008, , .   | 0.8 | 9         |
| 16 | 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. | 0.9 | 20        |
| 17 | Negative refraction and cross polarization effects in metamaterial realized with bianisotropic S-ring resonator. <i>Physical Review B</i> , 2007, 76, .  | 1.1 | 29        |
| 18 | Surface wave suppression in antenna systems using magnetic metamaterial. <i>Journal of Applied Physics</i> , 2007, 101, 114913.  | 1.1 | 20        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Reversal of wave momentum in isotropic left-handed media. <i>Physical Review A</i> , 2007, 75, .  | 1.0 | 65        |
| 20 | Band-stop filter based on a substrate embedded with metamaterials. <i>Microwave and Optical Technology Letters</i> , 2007, 49, 530-534.   | 0.9 | 5         |
| 21 | Spheroidal Mode Approach for the Characterization of Metallic Objects Using Electromagnetic Induction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 697-706.                                 | 2.7 | 19        |
| 22 | Experimental Observation of Left-Handed Behavior in an Array of Standard Dielectric Resonators. <i>Physical Review Letters</i> , 2007, 98, 157403.  | 2.9 | 278       |
| 23 | Controllable left-handed metamaterial and its application to a steerable antenna. <i>Applied Physics Letters</i> , 2006, 89, 053509.  | 1.5 | 83        |
| 24 | Electrodynamics of moving media inducing positive and negative refraction. <i>Physical Review B</i> , 2006, 74, .   | 1.1 | 27        |
| 25 | Stable Optical Trapping Based on Optical Binding Forces. <i>Physical Review Letters</i> , 2006, 96, 113903.   | 2.9 | 90        |
| 26 | Passive guiding and sorting of small particles with optical binding forces. <i>Optics Letters</i> , 2006, 31, 3378.   | 1.7 | 29        |
| 27 | 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. | 0.8 | 58        |
| 28 | Anisotropic metamaterials as antenna substrate to enhance directivity. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 680-683.   | 0.9 | 35        |
| 29 | Enhanced microstrip stopband filter using a metamaterial substrate. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 1522-1525.  | 0.9 | 8         |
| 30 | Backward coupling waveguide coupler using left-handed material. <i>Applied Physics Letters</i> , 2006, 88, 211903.  | 1.5 | 24        |
| 31 | Optical Momentum Transfer to Absorbing Mie Particles. <i>Physical Review Letters</i> , 2006, 97, 133902.  | 2.9 | 59        |
| 32 | Imaging properties of finite-size left-handed material slabs. <i>Physical Review E</i> , 2006, 74, 046615.  | 0.8 | 8         |
| 33 | Measurement of negative permittivity and permeability from experimental transmission and reflection with effects of cell misalignment. <i>Journal of Applied Physics</i> , 2006, 99, 123114.                          | 1.1 | 11        |
| 34 | Retrieval of the effective constitutive parameters of bianisotropic metamaterials. <i>Physical Review E</i> , 2005, 71, 046610.   | 0.8 | 225       |
| 35 | Negative refraction of a combined double S-shaped metamaterial. <i>Applied Physics Letters</i> , 2005, 86, 151909.  | 1.5 | 107       |
| 36 | Effect of poles on subwavelength focusing by an LHM slab. <i>Microwave and Optical Technology Letters</i> , 2005, 45, 49-53.  | 0.9 | 7         |

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|----|--|-----|-----------|
| 37 | MAGNETIC PROPERTIES OF S-SHAPED SPLIT-RING RESONATORS. Progress in Electromagnetics Research, 2005, 51, 231-247.   | 1.6 | 78        |
| 38 | EXPERIMENTAL STUDY ON SEVERAL LEFT-HANDED MATAMATERIALS. Progress in Electromagnetics Research, 2005, 51, 249-279.   | 1.6 | 97        |
| 39 | A STUDY OF USING METAMATERIALS AS ANTENNA SUBSTRATE TO ENHANCE GAIN. Progress in Electromagnetics Research, 2005, 51, 295-328.   | 1.6 | 267       |
| 40 | REFLECTION COEFFICIENTS AND GOOS-HANCHEN SHIFTS IN ANISOTROPIC AND BIANISOTROPIC LEFT-HANDED METAMATERIALS. Progress in Electromagnetics Research, 2005, 51, 83-113.                   | 1.6 | 74        |
| 41 | Inversion of critical angle and Brewster angle in anisotropic left-handed metamaterials. Applied Physics Letters, 2005, 86, 251909.  | 1.5 | 44        |
| 42 | Role of evanescent waves in the positive and negative Goos-HÄnchen shifts with left-handed material slabs. Journal of Applied Physics, 2005, 98, 094905.                               | 1.1 | 13        |
| 43 | Design and measurement of a four-port device using metamaterials. Optics Express, 2005, 13, 4737.  | 1.7 | 18        |
| 44 | Ab initio study of the radiation pressure on dielectric and magnetic media. Optics Express, 2005, 13, 9280.  | 1.7 | 71        |
| 45 | Limitation of FDTD in simulation of a perfect lens imaging system. Optics Express, 2005, 13, 10840.  | 1.7 | 20        |
| 46 | Beam shifting experiment for the characterization of left-handed properties. Journal of Applied Physics, 2004, 95, 2238-2241.  | 1.1 | 30        |
| 47 | Metamaterial exhibiting left-handed properties over multiple frequency bands. Journal of Applied Physics, 2004, 96, 5338-5340.   | 1.1 | 102       |
| 48 | Left-handed materials composed of only S-shaped resonators. Physical Review E, 2004, 70, 057605.   | 0.8 | 363       |
| 49 | Robust method to retrieve the constitutive effective parameters of metamaterials. Physical Review E, 2004, 70, 016608.   | 0.8 | 1,719     |
| 50 | Experimental confirmation of negative refractive index of a metamaterial composed of $\hat{\epsilon}$ -like metallic patterns. Applied Physics Letters, 2004, 84, 1537-1539.           | 1.5 | 220       |
| 51 | Guided modes with imaginary transverse wave number in a slab waveguide with negative permittivity and permeability. Journal of Applied Physics, 2003, 93, 9386-9388.                   | 1.1 | 179       |
| 52 | T-junction waveguide experiment to characterize left-handed properties of metamaterials. Journal of Applied Physics, 2003, 94, 3712-3716.  | 1.1 | 20        |
| 53 | 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. | 0.9 | 4         |
| 54 | Integrated SSFIP-horn antenna at 75 GHz. Microwave and Optical Technology Letters, 2000, 26, 298-302.  | 0.9 | 4         |

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|----|---|----|-----------|
| 55 | Refraction Experiments in Waveguide Environments. , 0, , 113-140. |    | 3         |