# Dominique Lesselier

List of Publications by Year
in descending order



| 164 | 3,145 | 172457 | 189892 |
|---|---|---|---|
| papers | citations | 29 h-index | 50 g-index |

| 168 | 168 | 168 | 1072 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Level set methods for inverse scattering. Inverse Problems, 2006, 22, R67-R131. | 2.0 | 337 |
| 2 | Reconstruction of a two-dimensional binary obstacle by controlled evolution of a level-set. Inverse Problems, 1998, 14, 685-706. | 2.0 | 214 |
| 3 | A MUSIC Algorithm for Locating Small Inclusions Buried in a Half-Space from the Scattering Amplitude at a Fixed Frequency. Multiscale Modeling and Simulation, 2005, 3, 597-628. | 1.6 | 168 |
| 4 | MUSICâ€Type Electromagnetic Imaging of a Collection of Small Threeâ€Dimensional Inclusions. SIAM Journal of Scientific Computing, 2007, 29, 674-709. | 2.8 | 146 |
| 5 | Diffraction tomography: contribution to the analysis of some applications in microwaves and ultrasonics. Inverse Problems, 1988, 4, 305-331. | 2.0 | 119 |
| 6 | A New Integral Equation Method to Solve Highly Nonlinear Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2016, 64, 1788-1799. | 5.1 | 81 |
| 7 | Modified gradient approach to inverse scattering for binary objects in stratified media. Inverse Problems, 1996, 12, 463-481. | 2.0 | 73 |
| 8 | MUSIC-type imaging of a thin penetrable inclusion from its multi-static response matrix. Inverse Problems, 2009, 25, 075002. | 2.0 | 68 |
| 9 | Electromagnetic MUSIC-type imaging of perfectly conducting, arc-like cracks at single frequency. Journal of Computational Physics, 2009, 228, 8093-8111. | 3.8 | 64 |
| 10 | Level set methods for inverse scatteringâ€”some recent developments. Inverse Problems, 2009, 25, 125001. | 2.0 | 57 |
| 11 | Reconstruction of thin electromagnetic inclusions by a level-set method. Inverse Problems, 2009, 25, 085010. | 2.0 | 54 |
| 12 | Shape reconstruction of buried obstacles by controlled evolution of a level set: from a min-max formulation to numerical experimentation. Inverse Problems, 2001, 17, 1087-1111. | 2.0 | 47 |
| 13 | Adaptive multiscale reconstruction of buried objects. Inverse Problems, 2004, 20, S1-S15. | 2.0 | 47 |
| 14 | Multistatic Response Matrix of a 3-D Inclusion in Half Space and MUSIC Imaging. IEEE Transactions on Antennas and Propagation, 2007, 55, 2598-2609. | 5.1 | 47 |
| 15 | On the inverse source method of solving inverse scattering problems. Inverse Problems, 1994, 10, 547-553. | 2.0 | 45 |
| 16 | Eddy current testing of anomalies in conductive materials. I. Qualitative imaging via diffraction tomography techniques. IEEE Transactions on Magnetics, 1991, 27, 4416-4437. | 2.1 | 43 |
| 17 | Adaptive Metamodels for Crack Characterization in Eddy-Current Testing. IEEE Transactions on Magnetics, 2011, 47, 746-755. | 2.1 | 41 |
| 18 | Multiple-Shape Reconstruction by Means of Multiregion Level Sets. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2330-2342. | 6.3 | 39 |

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| 19 | Optimization techniques and inverse problems: Reconstruction of conductivity profiles in the time domain. IEEE Transactions on Antennas and Propagation, 1982, 30, 59-65. | 0.8 | 38 |
| 20 | Wideband Reflector-Backed Folded Bowtie Antenna for Ground Penetrating Radar. IEEE Transactions on Antennas and Propagation, 2018, 66, 1056-1063. | 5.1 | 38 |
| 21 | Determination of conductivity profiles by time-domain reflectometry. IEEE Transactions on Antennas and Propagation, 1979, 27, 244-248. | 0.8 | 37 |
| 22 | Two Numerical Methods for Recovering Small Inclusions from the Scattering Amplitude at a Fixed Frequency. SIAM Journal of Scientific Computing, 2005, 27, 130-158. | 2.8 | 37 |
| 23 | A Fast Integral Equation-Based Method for Solving Electromagnetic Inverse Scattering Problems With Inhomogeneous Background. IEEE Transactions on Antennas and Propagation, 2018, 66, 4228-4239. | 5.1 | 36 |
| 24 | Time domain integral equation approach for inhomogeneous and dispersive slab problems. IEEE Transactions on Antennas and Propagation, 1978, 26, 658-667. | 0.8 | 34 |
| 25 | Shape inversion from TM and TE real data by controlled evolution of level sets. Inverse Problems, 2001, 17, 1585-1595. | 2.0 | 34 |
| 26 | Spectral and time domain approaches to some inverse scattering problems. IEEE Transactions on Antennas and Propagation, 1981, 29, 206-212. | 0.8 | 33 |
| 27 | The retrieval of a buried cylindrical obstacle by a constrained modified gradient method in the H -polarization case and for Maxwellian materials. Inverse Problems, 1998, 14, 1265-1283. | 2.0 | 30 |
| 28 | Fast electromagnetic imaging of thin inclusions in half-space affected by random scatterers. Waves in Random and Complex Media, 2012, 22, 3-23. | 2.7 | 30 |
| 29 | Eddy-current evaluation of three-dimensional defects in a metal plate. Inverse Problems, 2002, 18, 1857-1871. | 2.0 | 29 |
| 30 | Eddy current testing of anomalies in conductive materials. II. Quantitative imaging via deterministic and stochastic inversion techniques. IEEE Transactions on Magnetics, 1992, 28, 1850-1862. | 2.1 | 28 |
| 31 | Surrogate modeling based on resampled polynomial chaos expansions. Reliability Engineering and System Safety, 2020, 202, 107008. | 8.9 | 28 |
| 32 | Three-dimensional inversion of eddy current data for non-destructive evaluation of steam generator tubes. Inverse Problems, 1998, 14, 707-724. | 2.0 | 27 |
| 33 | Binary-constrained inversion of a buried cylindrical obstacle from complete and phaseless magnetic fields. Inverse Problems, 2000, 16, 563-576. | 2.0 | 27 |
| 34 | Eddy Current Modeling of Narrow Cracks in Planar-Layered Metal Structures. IEEE Transactions on Magnetics, 2012, 48, 2551-2559. | 2.1 | 27 |
| 35 | Hybrid Differential Evolution and Retrieval of Buried Spheres in Subsoil. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 788-792. | 3.1 | 24 |
| 36 | Efficient Modeling of ECT Signals for Realistic Cracks in Layered Half-Space. IEEE Transactions on Magnetics, 2013, 49, 2886-2892. | 2.1 | 24 |

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| 37 | Calculation of eddy current testing probe signal with global approximation. IEEE Transactions on Magnetics, 2006, 42, 1419-1422. | 2.1 | 23 |
| 38 | Electromagnetic Modeling of a Damaged Ferromagnetic Metal Tube by a Volume Integral Equation Formulation. IEEE Transactions on Magnetics, 2008, 44, 623-632. | 2.1 | 23 |
| 39 | Development of the specular echoes estimator to predict relevant modes for Total Focusing Method imaging. NDT and E International, 2018, 99, 134-140. | 3.7 | 23 |
| 40 | Localization and characterization of simple defects in finite-sized photonic crystals. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 146. | 1.5 | 22 |
| 41 | LOW-FREQUENCY SOLUTION FOR A PERFECTLY CONDUCTING SPHERE IN A CONDUCTIVE MEDIUM WITH DIPOLAR EXCITATION. Progress in Electromagnetics Research, 2004, 49, 87-111. | 4.4 | 21 |
| 42 | A two-step inverse scattering procedure for the qualitative imaging of homogeneous cracks in known host media - preliminary results. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 592-595. | 4.0 | 21 |
| 43 | A multi-resolution technique based on shape optimization for the reconstruction of homogeneous dielectric objects. Inverse Problems, 2009, 25, 015009. | 2.0 | 21 |
| 44 | Shape retrieval of an obstacle immersed in shallow water from single-frequency farfields using a complete family method. Inverse Problems, 1997, 13, 487-508. | 2.0 | 20 |
| 45 | Optimization of ultrasonic arrays design and setting using a differential evolution. NDT and E International, 2011, 44, 797-803. | 3.7 | 20 |
| 46 | Microwave Breast Imaging With Prior Ultrasound Information. IEEE Open Journal of Antennas and Propagation, 2020, 1, 472-482. | 3.7 | 20 |
| 47 | Full-Wave Computational Model of Electromagnetic Scattering by Arbitrarily Rotated 1-D Periodic Multilayer Structure. IEEE Transactions on Antennas and Propagation, 2016, 64, 1047-1060. | 5.1 | 19 |
| 48 | Foreword to the special section on electromagnetic and ultrasonic nondestructive evaluation. Inverse Problems, 2002, 18, . | 2.0 | 19 |
| 49 | Determination of index profiles by time domain reflectometry. Journal of Optics, 1978, 9, 349-358. | 0.3 | 18 |
| 50 | Multiple scattering calculations for nonspherical particles based on the vector radiative transfer theory. Radio Science, 1984, 19, 1356-1366. | 1.6 | 18 |
| 51 | Electromagnetic Response of Anisotropic Laminates to Distributed Sources. IEEE Transactions on Antennas and Propagation, 2014, 62, 247-256. | 5.1 | 18 |
| 52 | Optimization algorithms for ultrasonic array imaging in homogeneous anisotropic steel components with unknown properties. NDT and E International, 2020, 116, 102327. | 3.7 | 18 |
| 53 | Shape reconstruction of delamination defects using thermographic infrared signals based on an enhanced Canny approach. Infrared Physics and Technology, 2020, 111, 103527. | 2.9 | 17 |
| 54 | Acoustical Imaging of 2D Fluid Targets Buried in a Half-Space: A Diffraction Tomography Approach. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1987, 34, 540-549. | 3.0 | 16 |

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| 55 | Nonlinear inversion of a buried object in transverse electric scattering. Radio Science, 1999, 34, 1361-1371. | 1.6 | 16 |
| 56 | A Processing Framework for Tree-Root Reconstruction Using Ground-Penetrating Radar Under Heterogeneous Soil Conditions. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 208-219. | 6.3 | 15 |
| 57 | Diffraction tomography approach to acoustical imaging and media characterization. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 1943. | 1.5 | 14 |
| 58 | Conductive masses in a half-space Earth in the diffusive regime: fast hybrid modeling of a low-contrast ellipsoid. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 1585-1599. | 6.3 | 14 |
| 59 | Low-frequency dipolar excitation of a perfect ellipsoidal conductor. Quarterly of Applied Mathematics, 2010, 68, 513-536. | 0.7 | 14 |
| 60 | Joint Inversion of Electromagnetic and Acoustic Data With Edge-Preserving Regularization for Breast Imaging. IEEE Transactions on Computational Imaging, 2021, 7, 349-360. | 4.4 | 14 |
| 61 | HighTcSQUIDs and eddy-current NDE: a comprehensive investigation from real data to modelling. Measurement Science and Technology, 2000, 11, 1639-1648. | 2.6 | 13 |
| 62 | Dyad-Based Model of the Electric Field in a Conductive Cylinder at Eddy-Current Frequencies. IEEE Transactions on Magnetics, 2004, 40, 400-409. | 2.1 | 13 |
| 63 | Low-frequency on-site identification of a highly conductive body buried in Earth from a model ellipsoid. IMA Journal of Applied Mathematics, 2015, 80, 963-980. | 1.6 | 13 |
| 64 | Iterative Solution of Some Direct and Inverse Problems in Electromagnetics and Acoustics. Electromagnetics, 1985, 5, 147-189. | 0.7 | 12 |
| 65 | Electromagnetic scattering by a triaxial homogeneous penetrable ellipsoid: Low-frequency derivation and testing of the localized nonlinear approximation. Radio Science, 2000, 35, 463-481. | 1.6 | 12 |
| 66 | Multistatic Response Matrix of Spherical Scatterers and the Back-Propagation of Singular Fields. IEEE Transactions on Antennas and Propagation, 2008, 56, 825-833. | 5.1 | 12 |
| 67 | Low-frequency scattering from perfectly conducting spheroidal bodies in a conductive medium with magnetic dipole excitation. International Journal of Engineering Science, 2009, 47, 372-390. | 5.0 | 12 |
| 68 | Electromagnetic small-scale modeling of composite panels involving periodic arrays of circular fibers. Applied Physics A: Materials Science and Processing, 2014, 117, 567-572. | 2.3 | 12 |
| 69 | Fast Calculation of Scattering by 3-D Inhomogeneities in Uniaxial Anisotropic Multilayers. IEEE Transactions on Antennas and Propagation, 2014, 62, 6365-6374. | 5.1 | 12 |
| 70 | Coupled approach VIMâ€“BEM for efficient modeling of ECT signal due to narrow cracks and volumetric flaws in planar layered media. NDT and E International, 2014, 62, 178-183. | 3.7 | 12 |
| 71 | Subwavelength Microstructure Probing by Binary- Specialized Methods: Contrast Source and Convolutional Neural Networks. IEEE Transactions on Antennas and Propagation, 2021, 69, 1030-1039. | 5.1 | 12 |
| 72 | Electromagnetic Low-Frequency Dipolar Excitation of Two Metal Spheres in a Conductive Medium. Journal of Applied Mathematics, 2012, 2012, 1-37. | 0.9 | 11 |

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| 73 | Experimental investigation of a diffraction tomography technique in fluid ultrasonics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1988, 35, 437-444. | 3.0 | 10 |
| 74 | The localized nonlinear approximation in ellipsoidal geometry: a novel approach to the low-frequency scattering problem. International Journal of Engineering Science, 2002, 40, 67-91. | 5.0 | 10 |
| 75 | Scattering of Obliquely Incident Electromagnetic Plane Waves by Composite Panel Involving Periodic Arrays of Circular Fibers. IEEE Transactions on Antennas and Propagation, 2015, 63, 3168-3178. | 5.1 | 10 |
| 76 | Recursive matrix schemes for composite laminates under plane-wave and Gaussian beam illumination. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1539. | 2.1 | 10 |
| 77 | ECT-Signal Calculation of Cracks Near Fastener Holes Using an Integral Equation Formalism With Dedicated Greenâ€™s Kernel. IEEE Transactions on Magnetics, 2016, 52, 1-8. | 2.1 | 10 |
| 78 | Development and validation of a 3D model dedicated to eddy current non-destructive testing of tubes by encircling probes. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 313-317. | 0.6 | 9 |
| 79 | 3-D Eddy-Current Imaging of Metal Tubes by Gradient-Based, Controlled Evolution of Level Sets. IEEE Transactions on Magnetics, 2008, 44, 4721-4729. | 2.1 | 9 |
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| 81 | Physically motivated approximations in some inverse scattering problems. Radio Science, 1982, 17, 1567-1578. | 1.6 | 8 |
| 82 | Electromagnetic time reversal and scattering by a small dielectric inclusion. Journal of Physics: Conference Series, 2012, 386, 012010. | 0.4 | 8 |
| 83 | Three-Dimensional Generalized Finite-Difference Modeling of Electromagnetic Time Reversal: Impact of the Density of Dipoles for the Localization of a Dielectric Obstacle in Free Space. IEEE Transactions on Magnetics, 2012, 48, 359-362. | 2.1 | 8 |
| 84 | Mathematical and numerical analysis of low-frequency scattering from a PEC ring torus in a conductive medium. Applied Mathematical Modelling, 2016, 40, 6477-6500. | 4.2 | 8 |
| 85 | Conical antennas as coupling structures for microwave and infrared devices. Journal of Infrared, Millimeter and Terahertz Waves, 1981, 2, 859-876. | 0.6 | 7 |
| 86 | Optimization techniques and inverse problems: Probing of acoustic impedance profiles in time domain. Journal of the Acoustical Society of America, 1982, 72, 1276-1284. | 1.1 | 7 |
| 87 | Special section on electromagnetic characterization of buried obstacles. Inverse Problems, 2004, 20, . | 2.0 | 7 |
| 88 | Eddy-Current Modeling of Ferrite-Cored Probes. AIP Conference Proceedings, 2005, , . | 0.4 | 7 |
| 89 | Estimates for the lowâ€frequency electromagnetic fields scattered by two adjacent metal spheres in a lossless medium. Mathematical Methods in the Applied Sciences, 2015, 38, 4210-4237. | 2.3 | 7 |
| 90 | Fast Full-Wave Analysis of Damaged Periodic Fiber-Reinforced Laminates. IEEE Transactions on Antennas and Propagation, 2018, 66, 3540-3547. | 5.1 | 7 |

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| 92 | Wideband Electromagnetic Time Reversal With Finite Integration Technique: Localization in Heterogeneous Media and Experimental Validation. IEEE Transactions on Magnetics, 2014, 50, 137-140. | 2.1 | 6 |
| 93 | Electromagnetic Imaging of Damages in Fibered Layered Laminates via Equivalence Theory. IEEE Transactions on Computational Imaging, 2018, 4, 219-227. | 4.4 | 6 |
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| 95 | Level Set Techniques For Structural Inversion In Medical Imaging. , 2007, , 61-90. | | 6 |
| 96 | Electromagnetic retrieval of missing fibers in periodic fibered laminates via sparsity concepts. , 2016, , . | | 5 |
| 97 | MUSIC-type Imaging of Dielectric Spheres from Single-frequency, Asymptotic and Exact Array Data. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2007, 3, 1254-1258. | 0.4 | 5 |
| 98 | Ã‰tude numÃ©rique des antennes Ã©paisses par lâ€™Ã©quation intÃ©grale dâ€™Albert et Synge. Annales Des Telecommunications/Annals of Telecommunications, 1980, 35, 183-192. | 2.5 | 4 |
| 99 | First-order multiple scattering theory for nonspherical particles. Applied Optics, 1984, 23, 4132. | 2.1 | 4 |
| 100 | A diffraction tomographic algorithm for eddy current imaging from anomalous fields at fictitious imaginary frequencies. Inverse Problems, 1994, 10, 109-127. | 2.0 | 4 |
| 101 | Shape inversion from TM and TE real data by controlled evolution of level sets. Inverse Problems, 2002, 18, 279-282. | 2.0 | 4 |
| 102 | On inverse scattering and imaging solutions for objects buried within uniaxially anisotropic media. , 2015, , . | | 4 |
| 103 | Level Set Methods for Structural Inversion and Image Reconstruction. , 2015, , 471-532. | | 4 |
| 104 | Super-resolution characteristics based on time-reversed single-frequency electromagnetic wave. Journal of Electromagnetic Waves and Applications, 2016, 30, 1670-1680. | 1.6 | 4 |
| 105 | Electromagnetic Modeling of Damaged Single-Layer Fiber-Reinforced Laminates. IEEE Transactions on Antennas and Propagation, 2017, 65, 1855-1866. | 5.1 | 4 |
| 106 | On the Modeling and Diagnosis of a Micro-Structured Wire Antenna System. , 2018, , . | | 4 |
| 107 | Ultrasonic Array Imaging of Nuclear Austenitic V-Shape Welds with Inhomogeneous and Unknown Anisotropic Properties. Applied Sciences (Switzerland), 2021, 11, 6505. | 2.5 | 4 |
| 108 | SURROGATE MODELING OF INDOOR DOWN-LINK HUMAN EXPOSURE BASED ON SPARSE POLYNOMIAL CHAOS EXPANSION. , 2020, 10, 145-163. | | 4 |

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| 109 | On attenuation-matched inversion methods of diffusive wavefields. Inverse Problems, 1999, 15, 99-111. | 2.0 | 3 |
| 110 | Extended Born domain integral models of diffusive fields. IEEE Transactions on Magnetics, 2002, 38, 577-580. | 2.1 | 3 |
| 111 | Metamodel-Based Nested Sampling for Model Selection in Eddy-Current Testing. IEEE Transactions on Magnetics, 2017, 53, 1-12. | 2.1 | 3 |
| 112 | Semianalytical method for the identification of inclusions by airâ€cored coil interaction in ferromagnetic media. Mathematical Methods in the Applied Sciences, 2018, 41, 6422-6442. | 2.3 | 3 |
| 113 | Electromagnetic Micro-Structure Non-Destructive Testing: Sparsity-Constrained and Combined Convolutional Recurrent Neural Network Methods. Electronics (Switzerland), 2020, 9, 1750. | 3.1 | 3 |
| 114 | Optimization theory and timeâ€domain inverse scattering. Radio Science, 1981, 16, 1059-1063. | 1.6 | 2 |
| 115 | Practical problems in the time-domain probing of lossy dielectric media. IEEE Transactions on Antennas and Propagation, 1982, 30, 993-998. | 0.8 | 2 |
| 116 | <title>Multifrequency version of the modified gradient algorithm for reconstruction of complex refractive indices</title>. , 1997, 3171, 76. | | 2 |
| 117 | Recent Advances in Simulation of Eddy Current Testing of Tubes and Experimental Validations. AIP Conference Proceedings, 2007, , . | 0.4 | 2 |
| 118 | Hybridization of volumetric and surface models for the computation of the T/R EC probe response due to a thin opening flaw. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 298-306. | 0.9 | 2 |
| 119 | New discretisation scheme based on splines for volume integral method. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 288-297. | 0.9 | 2 |
| 120 | A modified gradient descent reconstruction algorithm for breast cancer detection using Microwave Radar and Digital Breast Tomosynthesis. , 2016, , . | | 2 |
| 121 | Electromagnetic modeling of periodically-structured fiber-reinforced single-layer laminate with multiple fibers missing. Applied Physics A: Materials Science and Processing, 2016, 122, 1. | 2.3 | 2 |
| 122 | Fast simulation approach dedicated to infrared thermographic inspection of delaminated planar pieces. AIP Conference Proceedings, 2019, , . | 0.4 | 2 |
| 123 | Imaging of Subwavelength Microstructures by Time Reversal and Neural Networks, From Synthetic to Laboratory-Controlled Data. IEEE Transactions on Antennas and Propagation, 2021, 69, 8753-8762. | 5.1 | 2 |
| 124 | Group Sparsity Penalized Contrast Source Solution Method for 2-D Non-Linear Inverse Scattering. IEEE Open Journal of Antennas and Propagation, 2022, 3, 48-58. | 3.7 | 2 |
| 125 | Probing of a Stratified Medium by Means of a Magnetic Dipole: A Geometrical Optics Approach. IEEE Transactions on Geoscience and Remote Sensing, 1985, GE-23, 819-826. | 6.3 | 1 |
| 126 | Bornâ€type schemes for the acoustic probing of 1â€D fluid media from timeâ€harmonic planar reflection coefficients at two incidences. Journal of the Acoustical Society of America, 1996, 99, 243-253. | 1.1 | 1 |

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| 128 | Shape reconstruction of buried obstacles by controlled evolution of a level set: from a min-max formulation to numerical experimentation. Inverse Problems, 2001, 17, 2017-2022. | 2.0 | 1 |
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| 131 | Imaging of scattering screens via fast methods. , 2009, , . | | 1 |
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| 133 | Particle optimization with metamodel for crack characterization. , 2010, , . | | 1 |
| 134 | Ultrasonic NDT optimization using Randomized Adaptive Differential Evolution. Journal of Physics: Conference Series, 2011, 269, 012008. | 0.4 | 1 |
| 135 | SIMULATION-BASED OPTIMIZATION OF THE DESIGN AND SETTINGS OF ULTRASONIC PHASED-ARRAY TRANSDUCERS WITH AN EVOLUTIONARY ALGORITHM. , 2011, , . | | 1 |
| 136 | Localization of metal targets by time reversal of electromagnetic waves. EPJ Applied Physics, 2013, 64, 24512. | 0.7 | 1 |
| 137 | Model based characterisation of delamination by means of thermographic inspection. Journal of Physics: Conference Series, 2020, 1476, 012005. | 0.4 | 1 |
| 138 | Electromagnetic modeling of damaged fiber-reinforced laminates. Journal of Computational Physics, 2020, 409, 109318. | 3.8 | 1 |
| 139 | A wavelet-based contrast source inversion method. , 2021, , . | | 1 |
| 140 | Use of sparsity in nonlinear electromagnetic imaging: wavelet-based contrast source method. , 2021, , . | | 1 |
| 141 | Level Set Method for Reconstruction of Thin Electromagnetic Inclusions. Springer Proceedings in Physics, 2010, , 99-108. | 0.2 | 1 |
| 142 | A Complete Framework for Acousto-Electric Tomography With Numerical Examples. IEEE Access, 2020, 8, 98508-98517. | 4.2 | 1 |
| 143 | On Breast Imaging from Joint Microwave and Acoustic Data Within a Bayesian Framework. , 2022, , . | | 1 |
| 144 | Dipole approximations applied to the inverse problem in boreholes: A numerical study. Wave Motion, 1989, 11, 137-150. | 2.0 | 0 |

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| 145 | Error estimation of calculated ECT signal due to thin crack in a plate using a global approximation of the dipole density. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 347-356. | 0.6 | 0 |
| 146 | A qualitative two-step inversion approach for the reconstruction of subsurface defects. , 2009, , . | | 0 |
| 147 | On a new stable modeling of dyadic Green's functions of electrically uniaxial planar-layered media. , 2011, , . | | 0 |
| 148 | Multi-frequency imaging of perfectly conducting cracks via boundary measurements. Journal of Physics: Conference Series, 2013, 410, 012018. | 0.4 | 0 |
| 149 | Comparison of two modeling approaches of eddy current industrial non-destructive testing of steel pipes. , 2014, , . | | 0 |
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| 151 | Fullâ€wave model and numerical study of electromagnetic plane wave scattering by multilayered, fiberâ€based periodic composites. Radio Science, 2015, 50, 688-697. | 1.6 | 0 |
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| 154 | Full-wave model and numerical study of electromagnetic plane-wave scattering by multilayered, fiber-based periodic composites. , 2015, , . | | 0 |
| 155 | On the Electromagnetic Probing of Man-Made and Natural Buried Structures. , 2018, , . | | 0 |
| 156 | Full-Wave Model of 3D Scattering by a Fibered Laminate. , 2018, , . | | 0 |
| 157 | On the Characterization of Objects in Shallow Water Using Rigorous Inversion Methods. , 2001, , 127-147. | | 0 |
| 158 | LOW-FREQUENCY INTERACTION OF MAGNETIC DIPOLES AND PERFECTLY CONDUCTING SPHEROIDAL BODIES IN A CONDUCTIVE MEDIUM. , 2008, , . | | 0 |
| 159 | LOWâ€“FREQUENCY MODELING OF THE INTERACTION OF A MAGNETIC DIPOLE AND TWO METALLIC SPHERICAL BODIES IN A CONDUCTIVE MEDIUM. , 2010, , . | | 0 |
| 160 | Level Set Methods for Structural Inversion and Image Reconstruction. , 2011, , 385-444. | | 0 |
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| 163 | Non-iterative MUSIC-Type Imaging Algorithm for Reconstructing Penetrable Thin Dielectric Inclusions. Springer Proceedings in Physics, 0, , 297-305. | 0.2 | 0 |
| 164 | Introduction to Inverse Scattering in Acoustics and Elasticity. , 0, , 413-430. | | 0 |