Dominique Lesselier

List of Publications by Year
in descending order

164 papers	3,145 citations	172457 29 h-index	189892 50 g-index
168 all docs	168 docs citations	168 times ranked	1072 citing authors

#	Article	IF	Citations
1	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
2	On Breast Imaging from Joint Microwave and Acoustic Data Within a Bayesian Framework. , 2022, , .		1
3	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
4	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
5	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
6	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
7	Ultrasonic Array Imaging of Nuclear Austenitic V-Shape Welds with Inhomogeneous and Unknown Anisotropic Properties. Applied Sciences (Switzerland), 2021, 11, 6505.	2.5	4
8	A wavelet-based contrast source inversion method. , 2021, , .		1
9	Use of sparsity in nonlinear electromagnetic imaging: wavelet-based contrast source method. , 2021, , .		1
10	Optimization algorithms for ultrasonic array imaging in homogeneous anisotropic steel components with unknown properties. NDT and E International, 2020, 116, 102327.	3.7	18
11	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
12	Microwave Breast Imaging With Prior Ultrasound Information. IEEE Open Journal of Antennas and Propagation, 2020, 1, 472-482.	3.7	20
13	Model based characterisation of delamination by means of thermographic inspection. Journal of Physics: Conference Series, 2020, 1476, 012005.	0.4	1
14	Electromagnetic Micro-Structure Non-Destructive Testing: Sparsity-Constrained and Combined Convolutional Recurrent Neural Network Methods. Electronics (Switzerland), 2020, 9, 1750.	3.1	3
15	Surrogate modeling based on resampled polynomial chaos expansions. Reliability Engineering and System Safety, 2020, 202, 107008.	8.9	28
16	Electromagnetic modeling of damaged fiber-reinforced laminates. Journal of Computational Physics, 2020, 409, 109318.	3.8	1
17	SURROGATE MODELING OF INDOOR DOWN-LINK HUMAN EXPOSURE BASED ON SPARSE POLYNOMIAL CHAOS EXPANSION. , 2020, 10, 145-163.		4
18	A Complete Framework for Acousto-Electric Tomography With Numerical Examples. IEEE Access, 2020, 8, 98508-98517.	4.2	1

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19	Fast simulation approach dedicated to infrared thermographic inspection of delaminated planar pieces. AIP Conference Proceedings, 2019, , .	0.4	2
20	Electromagnetic imaging of a dielectric micro-structure via convolutional neural networks. , 2019, , .		6
21	Wideband Reflector-Backed Folded Bowtie Antenna for Ground Penetrating Radar. IEEE Transactions on Antennas and Propagation, 2018, 66, 1056-1063.	5.1	38
22	Electromagnetic Imaging of Damages in Fibered Layered Laminates via Equivalence Theory. IEEE Transactions on Computational Imaging, 2018, 4, 219-227.	4.4	6
23	On the Electromagnetic Probing of Man-Made and Natural Buried Structures. , 2018, , .		0
24	Full-Wave Model of 3D Scattering by a Fibered Laminate. , 2018, , .		0
25	On the Modeling and Diagnosis of a Micro-Structured Wire Antenna System. , 2018, , .		4
26	Fast Full-Wave Analysis of Damaged Periodic Fiber-Reinforced Laminates. IEEE Transactions on Antennas and Propagation, 2018, 66, 3540-3547.	5.1	7
27	Semianalytical method for the identification of inclusions by air€cored coil interaction in ferromagnetic media. Mathematical Methods in the Applied Sciences, 2018, 41, 6422-6442.	2.3	3
28	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
29	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
30	Metamodel-based Markov-Chain-Monte-Carlo parameter inversion applied in eddy current flaw characterization. NDT and E International, 2018, 99, 13-22.	3.7	9
31	Electromagnetic Modeling of Damaged Single-Layer Fiber-Reinforced Laminates. IEEE Transactions on Antennas and Propagation, 2017, 65, 1855-1866.	5.1	4
32	Metamodel-Based Nested Sampling for Model Selection in Eddy-Current Testing. IEEE Transactions on Magnetics, 2017, 53, 1-12.	2.1	3
33	A modified gradient descent reconstruction algorithm for breast cancer detection using Microwave Radar and Digital Breast Tomosynthesis. , 2016, , .		2
34	Super-resolution characteristics based on time-reversed single-frequency electromagnetic wave. Journal of Electromagnetic Waves and Applications, 2016, 30, 1670-1680.	1.6	4
35	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
36	Electromagnetic retrieval of missing fibers in periodic fibered laminates via sparsity concepts. , 2016, , .		5

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37	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
38	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
39	ECT-Signal Calculation of Cracks Near Fastener Holes Using an Integral Equation Formalism With Dedicated Green's Kernel. IEEE Transactions on Magnetics, 2016, 52, 1-8.	2.1	10
40	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
41	A new optimization method for solving electromagnetic inverse scattering problems. , 2016, , .		0
42	On inverse scattering and imaging solutions for objects buried within uniaxially anisotropic media. , 2015, , .		4
43	Full-wave model and numerical study of electromagnetic plane wave scattering by multilayered, fiber-based periodic composites. Radio Science, 2015, 50, 688-697.	1.6	0
44	MUSIC imaging method for electromagnetic inspection of composite multi-layers. , 2015, , .		0
45	A fast integral equation model with a dedicated Green's kernel for eddy-current inspection of fastener holes. , 2015, , .		0
46	Full-wave model and numerical study of electromagnetic plane-wave scattering by multilayered, fiber-based periodic composites. , 2015, , .		0
47	Estimates for the low-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
48	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
49	Level Set Methods for Structural Inversion and Image Reconstruction. , 2015, , 471-532.		4
50	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
51	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
52	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
53	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
54	Comparison of two modeling approaches of eddy current industrial non-destructive testing of steel pipes. , 2014, , .		0

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55	Electromagnetic Response of Anisotropic Laminates to Distributed Sources. IEEE Transactions on Antennas and Propagation, 2014, 62, 247-256.	5.1	18
56	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
57	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
58	Scattering of obliquely incident electromagnetic plane waves by composite panels involving periodic arrays of circular fibers. , 2014, , .		0
59	Efficient Modeling of ECT Signals for Realistic Cracks in Layered Half-Space. IEEE Transactions on Magnetics, 2013, 49, 2886-2892.	2.1	24
60	Localization of metal targets by time reversal of electromagnetic waves. EPJ Applied Physics, 2013, 64, 24512.	0.7	1
61	Multi-frequency imaging of perfectly conducting cracks via boundary measurements. Journal of Physics: Conference Series, 2013, 410, 012018.	0.4	0
62	Radio and Antenna Days of the Indian Ocean (RADIO 2012). IOP Conference Series: Materials Science and Engineering, 2013, 44, 011001.	0.6	0
63	Electromagnetic Low-Frequency Dipolar Excitation of Two Metal Spheres in a Conductive Medium. Journal of Applied Mathematics, 2012, 2012, 1-37.	0.9	11
64	Eddy Current Modeling of Narrow Cracks in Planar-Layered Metal Structures. IEEE Transactions on Magnetics, 2012, 48, 2551-2559.	2.1	27
65	Electromagnetic time reversal and scattering by a small dielectric inclusion. Journal of Physics: Conference Series, 2012, 386, 012010.	0.4	8
66	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
67	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
68	On a new stable modeling of dyadic Green's functions of electrically uniaxial planar-layered media. , 2011, , .		0
69	Ultrasonic NDT optimization using Randomized Adaptive Differential Evolution. Journal of Physics: Conference Series, 2011, 269, 012008.	0.4	1
70	Optimization of ultrasonic arrays design and setting using a differential evolution. NDT and E International, 2011, 44, 797-803.	3.7	20
71	Adaptive Metamodels for Crack Characterization in Eddy-Current Testing. IEEE Transactions on Magnetics, 2011, 47, 746-755.	2.1	41
72	SIMULATION-BASED OPTIMIZATION OF THE DESIGN AND SETTINGS OF ULTRASONIC PHASED-ARRAY TRANSDUCERS WITH AN EVOLUTIONARY ALGORITHM. , 2011, , .		1

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73	Level Set Methods for Structural Inversion and Image Reconstruction. , 2011, , 385-444.		0
74	Multiple-Shape Reconstruction by Means of Multiregion Level Sets. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2330-2342.	6.3	39
75	Low-frequency dipolar excitation of a perfect ellipsoidal conductor. Quarterly of Applied Mathematics, 2010, 68, 513-536.	0.7	14
76	Particle optimization with metamodel for crack characterization. , 2010, , .		1
77	Level Set Method for Reconstruction of Thin Electromagnetic Inclusions. Springer Proceedings in Physics, 2010, , 99-108.	0.2	1
78	LOWâ€"FREQUENCY MODELING OF THE INTERACTION OF A MAGNETIC DIPOLE AND TWO METALLIC SPHERICAL BODIES IN A CONDUCTIVE MEDIUM. , 2010, , .		0
79	Imaging of scattering screens via fast methods. , 2009, , .		1
80	A qualitative two-step inversion approach for the reconstruction of subsurface defects. , 2009, , .		0
81	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
82	Electromagnetic MUSIC-type imaging of perfectly conducting, arc-like cracks at single frequency. Journal of Computational Physics, 2009, 228, 8093-8111.	3.8	64
83	Reconstruction of thin electromagnetic inclusions by a level-set method. Inverse Problems, 2009, 25, 085010.	2.0	54
84	Level set methods for inverse scatteringâ€"some recent developments. Inverse Problems, 2009, 25, 125001.	2.0	57
85	A multi-resolution technique based on shape optimization for the reconstruction of homogeneous dielectric objects. Inverse Problems, 2009, 25, 015009.	2.0	21
86	Lowâ€frequency electromagnetic modeling of conductive obstacles buried in subsoil as coupled ellipsoids. Radio Science, 2009, 44, .	1.6	1
87	MUSIC-type imaging of a thin penetrable inclusion from its multi-static response matrix. Inverse Problems, 2009, 25, 075002.	2.0	68
88	Hybrid Differential Evolution and Retrieval of Buried Spheres in Subsoil. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 788-792.	3.1	24
89	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
90	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

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91	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
92	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
93	Low-frequency electromagnetic characterization of buried obstacles by differential evolution with strategy of communication between groups and multi-resolution. Journal of Physics: Conference Series, 2008, 135, 012024.	0.4	1
94	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
95	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
96	LOW-FREQUENCY INTERACTION OF MAGNETIC DIPOLES AND PERFECTLY CONDUCTING SPHEROIDAL BODIES IN A CONDUCTIVE MEDIUM. , 2008, , .		0
97	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
98	MUSIC–Type Electromagnetic Imaging of a Collection of Small Three–Dimensional Inclusions. SIAM Journal of Scientific Computing, 2007, 29, 674-709.	2.8	146
99	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
100	Recent Advances in Simulation of Eddy Current Testing of Tubes and Experimental Validations. AIP Conference Proceedings, 2007, , .	0.4	2
101	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
102	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
103	Level Set Techniques For Structural Inversion In Medical Imaging. , 2007, , 61-90.		6
104	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
105	Level set methods for inverse scattering. Inverse Problems, 2006, 22, R67-R131.	2.0	337
106	Calculation of eddy current testing probe signal with global approximation. IEEE Transactions on Magnetics, 2006, 42, 1419-1422.	2.1	23
107	Eddy-Current Modeling of Ferrite-Cored Probes. AIP Conference Proceedings, 2005, , .	0.4	7
108	Shared issues of wavefield inversion and illustrations in 3-D diffusive electromagnetics. Comptes Rendus Physique, 2005, 6, 618-625.	0.9	1

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109	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
110	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
111	Special section on electromagnetic characterization of buried obstacles. Inverse Problems, 2004, 20, .	2.0	7
112	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
113	Adaptive multiscale reconstruction of buried objects. Inverse Problems, 2004, 20, S1-S15.	2.0	47
114	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
115	Extended Born domain integral models of diffusive fields. IEEE Transactions on Magnetics, 2002, 38, 577-580.	2.1	3
116	Eddy-current evaluation of three-dimensional defects in a metal plate. Inverse Problems, 2002, 18, 1857-1871.	2.0	29
117	Shape inversion from TM and TE real data by controlled evolution of level sets. Inverse Problems, 2002, 18, 279-282.	2.0	4
118	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
119	Foreword to the special section on electromagnetic and ultrasonic nondestructive evaluation. Inverse Problems, 2002, 18, .	2.0	19
120	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
121	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
122	Shape inversion from TM and TE real data by controlled evolution of level sets. Inverse Problems, 2001, 17, 1585-1595.	2.0	34
123	On the Characterization of Objects in Shallow Water Using Rigorous Inversion Methods. , 2001, , 127-147.		0
124	HighTcSQUIDs and eddy-current NDE: a comprehensive investigation from real data to modelling. Measurement Science and Technology, 2000, 11, 1639-1648.	2.6	13
125	Binary-constrained inversion of a buried cylindrical obstacle from complete and phaseless magnetic fields. Inverse Problems, 2000, 16, 563-576.	2.0	27
126	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

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127	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
128	On attenuation-matched inversion methods of diffusive wavefields. Inverse Problems, 1999, 15, 99-111.	2.0	3
129	Nonlinear inversion of a buried object in transverse electric scattering. Radio Science, 1999, 34, 1361-1371.	1.6	16
130	Reconstruction of a two-dimensional binary obstacle by controlled evolution of a level-set. Inverse Problems, 1998, 14, 685-706.	2.0	214
131	Three-dimensional inversion of eddy current data for non-destructive evaluation of steam generator tubes. Inverse Problems, 1998, 14, 707-724.	2.0	27
132	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
133	<title>Multifrequency version of the modified gradient algorithm for reconstruction of complex refractive indices</title>. , 1997, 3171, 76.		2
134	Location and reconstruction of objects using a modified gradient approach. Lecture Notes in Physics, 1997, , 143-158.	0.7	1
135	Inversion of the 1996 Ipswich data using binary specialization of modified gradient methods. IEEE Antennas and Propagation Magazine, 1997, 39, 9-12.	1.4	6
136	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
137	Modified gradient approach to inverse scattering for binary objects in stratified media. Inverse Problems, 1996, 12, 463-481.	2.0	73
138	Born€type schemes for the acoustic probing of 1€D fluid media from time€harmonic planar reflection coefficients at two incidences. Journal of the Acoustical Society of America, 1996, 99, 243-253.	1.1	1
139	A diffraction tomographic algorithm for eddy current imaging from anomalous fields at fictitious imaginary frequencies. Inverse Problems, 1994, 10, 109-127.	2.0	4
140	On the inverse source method of solving inverse scattering problems. Inverse Problems, 1994, 10, 547-553.	2.0	45
141	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
142	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
143	Dipole approximations applied to the inverse problem in boreholes: A numerical study. Wave Motion, 1989, 11, 137-150.	2.0	0
144	Diffraction tomography: contribution to the analysis of some applications in microwaves and ultrasonics. Inverse Problems, 1988, 4, 305-331.	2.0	119

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145	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
146	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
147	Iterative Solution of Some Direct and Inverse Problems in Electromagnetics and Acoustics. Electromagnetics, 1985, 5, 147-189.	0.7	12
148	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
149	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
150	First-order multiple scattering theory for nonspherical particles. Applied Optics, 1984, 23, 4132.	2.1	4
151	Multiple scattering calculations for nonspherical particles based on the vector radiative transfer theory. Radio Science, 1984, 19, 1356-1366.	1.6	18
152	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
153	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
154	Physically motivated approximations in some inverse scattering problems. Radio Science, 1982, 17, 1567-1578.	1.6	8
155	Practical problems in the time-domain probing of lossy dielectric media. IEEE Transactions on Antennas and Propagation, 1982, 30, 993-998.	0.8	2
156	Optimization theory and time‐domain inverse scattering. Radio Science, 1981, 16, 1059-1063.	1.6	2
157	Spectral and time domain approaches to some inverse scattering problems. IEEE Transactions on Antennas and Propagation, 1981, 29, 206-212.	0.8	33
158	Conical antennas as coupling structures for microwave and infrared devices. Journal of Infrared, Millimeter and Terahertz Waves, 1981, 2, 859-876.	0.6	7
159	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
160	Determination of conductivity profiles by time-domain reflectometry. IEEE Transactions on Antennas and Propagation, 1979, 27, 244-248.	0.8	37
161	Time domain integral equation approach for inhomogeneous and dispersive slab problems. IEEE Transactions on Antennas and Propagation, 1978, 26, 658-667.	0.8	34
162	Determination of index profiles by time domain reflectometry. Journal of Optics, 1978, 9, 349-358.	0.3	18

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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