

Miguel Moscoso

List of Publications by Year in descending order

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81
papers

1,768
citations

236925

25
h-index

276875

41
g-index

81
all docs

81
docs citations

81
times ranked

925
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Signal Recovery From Quadratic Measurements. IEEE Transactions on Signal Processing, 2021, 69, 2042-2055.	5.3	2
2	Sparse signal recovery from correlation measurements using the noise collector. , 2021, , .		0
3	Synthetic Aperture Imaging With Intensity-Only Data. IEEE Transactions on Computational Imaging, 2020, 6, 87-94.	4.4	2
4	Imaging with highly incomplete and corrupted data. Inverse Problems, 2020, 36, 035010.	2.0	2
5	The Noise Collector for sparse recovery in high dimensions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11226-11232.	7.1	5
6	Robust multifrequency imaging with MUSIC. Inverse Problems, 2019, 35, 015007.	2.0	6
7	A Closed-Form Formula for the RBF-Based Approximation of the Laplaceâ€™Beltrami Operator. Journal of Scientific Computing, 2018, 77, 1115-1132.	2.3	4
8	Quantitative subsurface imaging in strongly scattering media. Optics Express, 2018, 26, 27346.	3.4	3
9	Multifrequency Interferometric Imaging with Intensity-Only Measurements. SIAM Journal on Imaging Sciences, 2017, 10, 1005-1032.	2.2	10
10	Optimized Finite Difference Formulas for Accurate High Frequency Components. Mathematical Problems in Engineering, 2016, 2016, 1-15.	1.1	4
11	Coherent Imaging without Phases. SIAM Journal on Imaging Sciences, 2016, 9, 1689-1707.	2.2	7
12	Array imaging of localized objects in homogeneous and heterogeneous media. Inverse Problems, 2016, 32, 104003.	2.0	4
13	Synthetic Aperture Imaging of Direction- and Frequency-Dependent Reflectivities. SIAM Journal on Imaging Sciences, 2016, 9, 52-81.	2.2	10
14	Radial basis function interpolation in the limit of increasingly flat basis functions. Journal of Computational Physics, 2016, 307, 225-242.	3.8	16
15	Laurent expansion of the inverse of perturbed, singular matrices. Journal of Computational Physics, 2015, 299, 307-319.	3.8	8
16	Illumination Strategies for Intensity-Only Imaging. SIAM Journal on Imaging Sciences, 2015, 8, 1547-1573.	2.2	22
17	Laurent series based RBF-FD method to avoid ill-conditioning. Engineering Analysis With Boundary Elements, 2015, 52, 24-31.	3.7	21
18	Imaging Strong Localized Scatterers with Sparsity Promoting Optimization. SIAM Journal on Imaging Sciences, 2014, 7, 1358-1387.	2.2	25

#	ARTICLE	IF	CITATIONS
19	Robust imaging of localized scatterers using the singular value decomposition and ℓ_1 minimization. Inverse Problems, 2013, 29, 025016.	2.0	29
20	Robust depth selectivity in mesoscopic scattering regimes using angle-resolved measurements. Optics Letters, 2013, 38, 787.	3.3	4
21	Recovering fluorophore location and orientation from lifetimes. Optics Express, 2013, 21, 421.	3.4	1
22	Combining diffuse optical tomography and spectroscopy to detect and characterize lesions in two-layered tissues. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 450.	1.5	0
23	Source location from fluorescence lifetime in disordered media. Optics Letters, 2012, 37, 951.	3.3	5
24	A differential equations approach to ℓ_1 -minimization with applications to array imaging. Inverse Problems, 2012, 28, 105001.	2.0	16
25	Gaussian RBF-FD weights and its corresponding local truncation errors. Engineering Analysis With Boundary Elements, 2012, 36, 1361-1369.	3.7	37
26	Shape reconstruction of cardiac ischemia from non-contact intracardiac recordings: A model study. Mathematical and Computer Modelling, 2012, 55, 1770-1781.	2.0	16
27	Optimal variable shape parameter for multiquadric based RBF-FD method. Journal of Computational Physics, 2012, 231, 2466-2481.	3.8	52
28	Diffusion of Polarized Light. Multiscale Modeling and Simulation, 2011, 9, 1624-1645.	1.6	8
29	Optimal constant shape parameter for multiquadric based RBF-FD method. Journal of Computational Physics, 2011, 230, 7384-7399.	3.8	102
30	Array imaging using intensity-only measurements. Inverse Problems, 2011, 27, 015005.	2.0	130
31	Passive imaging with cross correlations in a discrete random medium. Proceedings of SPIE, 2010, , .	0.8	0
32	RBF-FD formulas and convergence properties. Journal of Computational Physics, 2010, 229, 8281-8295.	3.8	140
33	Application of the RBF meshless method to the solution of the radiative transport equation. Journal of Computational Physics, 2010, 229, 1897-1908.	3.8	40
34	Structural level set inversion for microwave breast screening. Inverse Problems, 2010, 26, 035015.	2.0	32
35	Microwave Imaging for Early Breast Cancer Detection Using a Shape-based Strategy. IEEE Transactions on Biomedical Engineering, 2009, 56, 1143-1153.	4.2	47
36	Crack reconstruction using a level-set strategy. Journal of Computational Physics, 2009, 228, 5710-5721.	3.8	58

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37	Detecting and imaging dielectric objects from real data: A shape-based approach. <i>Mathematical and Computer Modelling</i> , 2009, 50, 743-749.	2.0	3
38	Fluorescence lifetime imaging from time resolved measurements using a shape-based approach. <i>Optics Express</i> , 2009, 17, 8843.	3.4	26
39	An Adjoint-Field Technique for Shape Reconstruction of 3-D Penetrable Object Immersed in Lossy Medium. <i>IEEE Transactions on Antennas and Propagation</i> , 2009, 57, 520-534.	5.1	39
40	Inversion Algorithm for Microwave Breast Cancer Detection Using Level Sets. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , 2009, 5, 461-465.	0.4	0
41	A level set evolution strategy in microwave imaging for early breast cancer detection. <i>Computers and Mathematics With Applications</i> , 2008, 56, 607-618.	2.7	23
42	Reservoir characterization using stochastic initializations and the level set method. <i>Computers and Mathematics With Applications</i> , 2008, 56, 697-708.	2.7	7
43	Iterative Microwave Inversion for Breast Cancer Detection Using Level Sets. <i>Mathematics in Industry</i> , 2008, , 592-596.	0.3	1
44	Characterization of Reservoirs by Evolving Level Set Functions Obtained from Geostatistics. <i>Mathematics in Industry</i> , 2008, , 597-602.	0.3	1
45	Polarization-Based Optical Imaging. <i>Lecture Notes in Mathematics</i> , 2008, , 67-83.	0.2	0
46	Introduction to Image Reconstruction. <i>Lecture Notes in Mathematics</i> , 2008, , 1-16.	0.2	1
47	Iterative Microwave Inversion Algorithm Based on the Adjoint-Field Method for Breast Cancer Application. <i>Mathematics in Industry</i> , 2008, , 587-591.	0.3	2
48	On the stability of surface shape reconstruction using microwave algorithm for 3-D breast tumor based on the adjoint-fields scheme. , 2007, , .		1
49	Reconstruction of transmembrane currents using Support Vector machines and its application to endocardial mapping: A model study. , 2007, , .		0
50	Imaging low sensitivity regions in petroleum reservoirs using topological perturbations and level sets. <i>Journal of Inverse and Ill-Posed Problems</i> , 2007, 15, 199-223.	1.0	4
51	Reconstructing a thin absorbing obstacle in a half-space of tissue. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 3456.	1.5	5
52	Level-set techniques for microwave medical imaging. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 1151601-1151602.	0.2	2
53	Shape Reconstruction from Two-Phase Incompressible Flow Data using Level Sets. <i>Mathematics and Visualization</i> , 2007, , 381-401.	0.6	4
54	Radiative transport theory for optical molecular imaging. <i>Inverse Problems</i> , 2006, 22, 23-42.	2.0	25

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55	Detection of Small Tumors in Microwave Medical Imaging Using Level Sets and Music. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2006, 2, 43-47.	0.4	13
56	History matching problem in reservoir engineering using the propagationâ€“backpropagation method. Inverse Problems, 2005, 21, 565-590.	2.0	35
57	Light transport in two-layer tissues. Journal of Biomedical Optics, 2005, 10, 034015.	2.6	17
58	Beam propagation in sharply peaked forward scattering media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 797.	1.5	28
59	Backscattering of beams by forward-peaked scattering media. Optics Letters, 2004, 29, 74.	3.3	15
60	Radiative transfer computations for optical beams. Journal of Computational Physics, 2003, 185, 50-60.	3.8	19
61	Beam propagation in multiple scattering media. , 2003, 4976, 98.		1
62	Backscattering of circularly polarized pulses. , 2003, , .		0
63	Backscattering of circularly polarized pulses. Optics Letters, 2002, 27, 1589.	3.3	49
64	Chebyshev Spectral Methods for Radiative Transfer. SIAM Journal of Scientific Computing, 2002, 23, 2074-2094.	2.8	39
65	Depolarization and blurring of optical images by biological tissue. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 948.	1.5	74
66	Optical polarization imaging in biological tissue. , 2001, 4261, 105.		0
67	Theoretical and numerical analysis of polarization for time-dependent radiative transfer equations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 70, 75-98.	2.3	9
68	SPATIOTEMPORAL STRUCTURES IN UNDOPED PHOTOEXCITED SEMICONDUCTOR SUPERLATTICES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 2817-2822.	1.7	3
69	Influence of the relative refractive index on the depolarization of multiply scattered waves. Physical Review E, 2001, 64, 026612.	2.1	49
70	Polarization effects of seismic waves on the basis of radiative transport theory. Geophysical Journal International, 2000, 142, 571-585.	2.4	21
71	Dynamics of electric field domain walls in semiconductor superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 299-301.	2.7	2
72	Bifurcation Behavior of a Superlattice Model. SIAM Journal on Applied Mathematics, 2000, 60, 2029-2057.	1.8	15

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73	Wave Propagation and Oscillations in a Semiconductor Nanostructure. , 2000, , 209-217.		0
74	Current self-oscillations, spikes, and crossover between charge monopole and dipole waves in semiconductor superlattices. Physical Review B, 1999, 60, 4489-4492.	3.2	42
75	Microscopic model for sequential tunneling in semiconductor multiple quantum wells. Physical Review B, 1997, 55, R16053-R16056.	3.2	48
76	Current-voltage characteristic and stability in resonant-tunneling n-doped semiconductor superlattices. Physical Review B, 1997, 55, 2466-2475.	3.2	69
77	Periodic Generation and Propagation of Traveling Fronts in DC Voltage Biased Semiconductor Superlattices. SIAM Journal on Applied Mathematics, 1997, 57, 1588-1614.	1.8	29
78	Spikes in the Current Self-Oscillations of Doped GaAs/AlAs Superlattices. Physica Status Solidi (B): Basic Research, 1997, 204, 500-503.	1.5	15
79	Dynamics of electric-field domains and chaos in semiconductor superlattices. Solid-State Electronics, 1996, 40, 161-165.	1.4	5
80	Self-Oscillations of the Current in Doped Semiconductor Superlattices. Japanese Journal of Applied Physics, 1995, 34, 4526-4528.	1.5	64
81	Self-oscillations of domains in doped GaAs-AlAs superlattices. Physical Review B, 1995, 52, 13761-13764.	3.2	95