

Chrysoula Tsogka

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5191057/publications.pdf>

Version: 2024-02-01

77
papers

2,209
citations

393982

19
h-index

223531

46
g-index

85
all docs

85
docs citations

85
times ranked

1212
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of the perfectly matched absorbing layer model to the linear elastodynamic problem in anisotropic heterogeneous media. <i>Geophysics</i> , 2001, 66, 294-307.	1.4	665
2	Imaging and time reversal in random media. <i>Inverse Problems</i> , 2002, 18, 1247-1279.	1.0	241
3	An Analysis of New Mixed Finite Elements for the Approximation of Wave Propagation Problems. <i>SIAM Journal on Numerical Analysis</i> , 2000, 37, 1053-1084.	1.1	117
4	Interferometric array imaging in clutter. <i>Inverse Problems</i> , 2005, 21, 1419-1460.	1.0	98
5	Theory and applications of time reversal and interferometric imaging. <i>Inverse Problems</i> , 2003, 19, S139-S164.	1.0	95
6	Adaptive interferometric imaging in clutter and optimal illumination. <i>Inverse Problems</i> , 2006, 22, 1405-1436.	1.0	89
7	Simulation of seismic response in an idealized city. <i>Soil Dynamics and Earthquake Engineering</i> , 2003, 23, 391-402.	1.9	66
8	A New Family of Mixed Finite Elements for the Linear Elastodynamic Problem. <i>SIAM Journal on Numerical Analysis</i> , 2002, 39, 2109-2132.	1.1	65
9	Statistically stable ultrasonic imaging in random media. <i>Journal of the Acoustical Society of America</i> , 2002, 112, 1509-1522.	0.5	58
10	Coherent interferometric imaging in clutter. <i>Geophysics</i> , 2006, 71, SI165-SI175.	1.4	52
11	FICTITIOUS DOMAINS, MIXED FINITE ELEMENTS AND PERFECTLY MATCHED LAYERS FOR 2-D ELASTIC WAVE PROPAGATION. <i>Journal of Computational Acoustics</i> , 2001, 09, 1175-1201.	1.0	47
12	The Stretching Method for Vibration-Based Structural Health Monitoring of Civil Structures. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017, 32, 288-303.	6.3	42
13	Time reversal imaging for sensor networks with optimal compensation in time. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 2071-2085.	0.5	41
14	Enhanced statistical stability in coherent interferometric imaging. <i>Inverse Problems</i> , 2011, 27, 085004.	1.0	35
15	Time reversal through a solid-liquid interface and super-resolution. <i>Inverse Problems</i> , 2002, 18, 1639-1657.	1.0	24
16	Simulation of seismic response in a city-like environment. <i>Soil Dynamics and Earthquake Engineering</i> , 2005, 25, 487-504.	1.9	24
17	A TIME DOMAIN METHOD FOR MODELING VISCOACOUSTIC WAVE PROPAGATION. <i>Journal of Computational Acoustics</i> , 2006, 14, 201-236.	1.0	22
18	Optimal waveform design for array imaging. <i>Inverse Problems</i> , 2007, 23, 1973-2020.	1.0	21

#	ARTICLE	IF	CITATIONS
19	Source Localization in Random Acoustic Waveguides. <i>Multiscale Modeling and Simulation</i> , 2010, 8, 1981-2022.	0.6	19
20	Asymptotics for the Space-Time Wigner Transform with Applications to Imaging. <i>Interdisciplinary Mathematical Sciences</i> , 2007, , 91-111.	0.4	19
21	Coherent Interferometry in Finely Layered Random Media. <i>Multiscale Modeling and Simulation</i> , 2006, 5, 62-83.	0.6	18
22	Resolution and denoising in near-field imaging. <i>Inverse Problems</i> , 2006, 22, 1437-1456.	1.0	15
23	Detection and imaging in strongly backscattering randomly layered media. <i>Inverse Problems</i> , 2011, 27, 025004.	1.0	15
24	Filtering Random Layering Effects in Imaging. <i>Multiscale Modeling and Simulation</i> , 2010, 8, 751-781.	0.6	14
25	Coherent interferometric imaging, time gating and beamforming. <i>Inverse Problems</i> , 2011, 27, 065008.	1.0	14
26	Low Rank Plus Sparse Decomposition of Synthetic Aperture Radar Data for Target Imaging. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 491-502.	2.6	14
27	Optimal illumination and wave form design for imaging in random media. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 3507-3518.	0.5	13
28	Signal to Noise Ratio Analysis in Virtual Source Array Imaging. <i>SIAM Journal on Imaging Sciences</i> , 2015, 8, 248-279.	1.3	13
29	Adaptive Time-Frequency Detection and Filtering for Imaging in Heavy Clutter. <i>SIAM Journal on Imaging Sciences</i> , 2011, 4, 827-849.	1.3	12
30	Robust seismic velocity change estimation using ambient noise recordings. <i>Geophysical Journal International</i> , 2016, 205, 1926-1936.	1.0	12
31	Filtering Deterministic Layer Effects in Imaging. <i>Multiscale Modeling and Simulation</i> , 2009, 7, 1267-1301.	0.6	11
32	Signal-to-Noise Ratio Estimation in Passive Correlation-Based Imaging. <i>SIAM Journal on Imaging Sciences</i> , 2013, 6, 1092-1110.	1.3	11
33	Selective Imaging of Extended Reflectors in Two-Dimensional Waveguides. <i>SIAM Journal on Imaging Sciences</i> , 2013, 6, 2714-2739.	1.3	10
34	Synthetic Aperture Imaging of Direction- and Frequency-Dependent Reflectivities. <i>SIAM Journal on Imaging Sciences</i> , 2016, 9, 52-81.	1.3	10
35	Multifrequency Interferometric Imaging with Intensity-Only Measurements. <i>SIAM Journal on Imaging Sciences</i> , 2017, 10, 1005-1032.	1.3	10
36	A quantitative study of source imaging in random waveguides. <i>Communications in Mathematical Sciences</i> , 2015, 13, 749-776.	0.5	9

#	ARTICLE	IF	CITATIONS
37	Partial-aperture array imaging in acoustic waveguides. <i>Inverse Problems</i> , 2016, 32, 125011.	1.0	8
38	Resolution Analysis of Passive Synthetic Aperture Imaging of Fast Moving Objects. <i>SIAM Journal on Imaging Sciences</i> , 2017, 10, 665-710.	1.3	8
39	Matched-Filter and Correlation-Based Imaging for Fast Moving Objects Using a Sparse Network of Receivers. <i>SIAM Journal on Imaging Sciences</i> , 2017, 10, 2165-2216.	1.3	8
40	A Time Domain Method for Modeling Wave Propagation Phenomena in Viscoacoustic Media. , 2003, , 911-915.		7
41	Seismic response of a set of blocks partially imbedded in soft soil. <i>Comptes Rendus - Mecanique</i> , 2003, 331, 217-224.	2.1	6
42	Efficient numerical simulation for long range wave propagation. <i>Journal of Computational Physics</i> , 2006, 215, 448-464.	1.9	6
43	Signal-to-Noise Ratio analysis for time-reversal based imaging techniques in bounded domains. <i>Wave Motion</i> , 2018, 79, 23-43.	1.0	6
44	Imaging Extended Reflectors in a Terminating Waveguide. <i>SIAM Journal on Imaging Sciences</i> , 2018, 11, 1680-1716.	1.3	6
45	Robust multifrequency imaging with MUSIC. <i>Inverse Problems</i> , 2019, 35, 015007.	1.0	6
46	The Noise Collector for sparse recovery in high dimensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11226-11232.	3.3	5
47	A Fictitious Domain Method with Mixed Finite Elements for Elastodynamics. <i>SIAM Journal of Scientific Computing</i> , 2007, 29, 1244-1267.	1.3	4
48	Convergence results of the fictitious domain method for a mixed formulation of the wave equation with a Neumann boundary condition. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2009, 43, 377-398.	0.8	4
49	Time and direction of arrival detection and filtering for imaging in strongly scattering random media. <i>Waves in Random and Complex Media</i> , 2017, 27, 664-689.	1.6	4
50	Quantitative signal subspace imaging. <i>Inverse Problems</i> , 2021, 37, 125006.	1.0	4
51	Synthetic Aperture Imaging and Motion Estimation Using Tensor Methods. <i>SIAM Journal on Imaging Sciences</i> , 2020, 13, 2213-2249.	1.3	4
52	Filtering Deterministic Layer Effects in Imaging. <i>SIAM Review</i> , 2012, 54, 757-798.	4.2	3
53	Generalized Correlation-Based Imaging for Satellites. <i>SIAM Journal on Imaging Sciences</i> , 2020, 13, 1331-1366.	1.3	3
54	Correlation Based Imaging for Rotating Satellites. <i>SIAM Journal on Imaging Sciences</i> , 2021, 14, 271-303.	1.3	3

#	ARTICLE	IF	CITATIONS
55	Finite Element Methods with Discontinuous Displacement. Numerical Insights, 2008, , 331-537.	0.0	3
56	Quantitative subsurface imaging in strongly scattering media. Optics Express, 2018, 26, 27346.	1.7	3
57	Forward and inverse scattering in synthetic aperture radar using machine learning. , 2020, , .		3
58	Subspace projection filters for imaging in random media. Comptes Rendus - Mecanique, 2010, 338, 390-401.	2.1	2
59	Stretching Method-Based Operational Modal Analysis of An Old Masonry Lighthouse. Sensors, 2019, 19, 3599.	2.1	2
60	Synthetic Aperture Imaging With Intensity-Only Data. IEEE Transactions on Computational Imaging, 2020, 6, 87-94.	2.6	2
61	Imaging with highly incomplete and corrupted data. Inverse Problems, 2020, 36, 035010.	1.0	2
62	Fast Signal Recovery From Quadratic Measurements. IEEE Transactions on Signal Processing, 2021, 69, 2042-2055.	3.2	2
63	TIME REVERSAL IN ELASTODYNAMICS AND APPLICATIONS TO STRUCTURAL HEALTH MONITORING. , 2015, , .		2
64	A comparative study of data filtering methods for imaging in strongly scattering media. Wave Motion, 2017, 68, 97-113.	1.0	1
65	Incoherent source localization in random acoustic waveguides. Waves in Random and Complex Media, 2020, 30, 81-106.	1.6	1
66	Staggered explicit-implicit time-discretization for elastodynamics with dissipative internal variables. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, S397-S416.	0.8	1
67	Multi-Frequency Quantitative Imaging of High Contrast Objects: A Canonical Approximation. Acoustical Imaging, 2004, , 675-682.	0.2	1
68	Statistical Stability and Time-Reversal Imaging in Random Media. The IMA Volumes in Mathematics and Its Applications, 2004, , 15-24.	0.5	1
69	Resolution Estimation for Imaging and Time Reversal in Scattering Media. , 2003, , 631-636.		1
70	Intensity-only inverse scattering with MUSIC. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1829.	0.8	1
71	Stretching Method-Based Damage Detection Using Neural Networks. Sensors, 2022, 22, 830.	2.1	1
72	Correlation-based imaging of fast moving objects using a sparse network of passive receivers. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	A Mixed Finite Element-Based Numerical Method for Elastodynamics Considering Adhesive Interface Damage for Dynamic Fracture. Journal of Theoretical and Computational Acoustics, 2021, 29, 2150010.	0.5	0
74	Fictitious Domains Methods for Wave Diffraction. Numerical Insights, 2008, , 359-384.	0.0	0
75	3. Boundary Conditions. , 2012, , 77-98.		0
76	Imaging in Three-Dimensional Waveguides with Partial Aperture Data. Journal of Theoretical and Computational Acoustics, 2021, 29, .	0.5	0
77	Sparse signal recovery from correlation measurements using the noise collector. , 2021, , .		0