

# Chrysoula Tsogka

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73  
papers

1,738  
citations

17  
h-index

40  
g-index

85  
ext. papers

1,973  
ext. citations

2.5  
avg, IF

4.72  
L-index

#	Paper	IF	Citations
73	Application of the perfectly matched absorbing layer model to the linear elastodynamic problem in anisotropic heterogeneous media. <i>Geophysics</i> , <b>2001</b> , 66, 294-307	3.1	520
72	Imaging and time reversal in random media. <i>Inverse Problems</i> , <b>2002</b> , 18, 1247-1279	2.3	195
71	An Analysis of New Mixed Finite Elements for the Approximation of Wave Propagation Problems. <i>SIAM Journal on Numerical Analysis</i> , <b>2000</b> , 37, 1053-1084	2.4	98
70	Interferometric array imaging in clutter. <i>Inverse Problems</i> , <b>2005</b> , 21, 1419-1460	2.3	78
69	Theory and applications of time reversal and interferometric imaging. <i>Inverse Problems</i> , <b>2003</b> , 19, S139-S164	2.3	73
68	Adaptive interferometric imaging in clutter and optimal illumination. <i>Inverse Problems</i> , <b>2006</b> , 22, 1405-1436	2.3	71
67	Statistically stable ultrasonic imaging in random media. <i>Journal of the Acoustical Society of America</i> , <b>2002</b> , 112, 1509-22	2.2	52
66	A New Family of Mixed Finite Elements for the Linear Elastodynamic Problem. <i>SIAM Journal on Numerical Analysis</i> , <b>2002</b> , 39, 2109-2132	2.4	52
65	Simulation of seismic response in an idealized city. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2003</b> , 23, 391-402	3.5	50
64	FICTITIOUS DOMAINS, MIXED FINITE ELEMENTS AND PERFECTLY MATCHED LAYERS FOR 2-D ELASTIC WAVE PROPAGATION. <i>Journal of Computational Acoustics</i> , <b>2001</b> , 09, 1175-1201		45
63	Coherent interferometric imaging in clutter. <i>Geophysics</i> , <b>2006</b> , 71, S1165-S1175	3.1	39
62	The Stretching Method for Vibration-Based Structural Health Monitoring of Civil Structures. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2017</b> , 32, 288-303	8.4	34
61	Time reversal imaging for sensor networks with optimal compensation in time. <i>Journal of the Acoustical Society of America</i> , <b>2007</b> , 121, 2071-85	2.2	31
60	Enhanced statistical stability in coherent interferometric imaging. <i>Inverse Problems</i> , <b>2011</b> , 27, 085004	2.3	21
59	Optimal waveform design for array imaging. <i>Inverse Problems</i> , <b>2007</b> , 23, 1973-2020	2.3	20
58	Simulation of seismic response in a city-like environment. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2005</b> , 25, 487-504	3.5	20
57	Time reversal through a solid/liquid interface and super-resolution. <i>Inverse Problems</i> , <b>2002</b> , 18, 1639-1657	2.3	19

56	Etude d'un nouvel échant fini mixte permettant la condensation de masse. <i>Comptes Rendus Mathématique</i> , <b>1997</b> , 324, 1281-1286		17
55	Source Localization in Random Acoustic Waveguides. <i>Multiscale Modeling and Simulation</i> , <b>2010</b> , 8, 1981-2022		16
54	A TIME DOMAIN METHOD FOR MODELING VISCOACOUSTIC WAVE PROPAGATION. <i>Journal of Computational Acoustics</i> , <b>2006</b> , 14, 201-236		16
53	Coherent Interferometry in Finely Layered Random Media. <i>Multiscale Modeling and Simulation</i> , <b>2006</b> , 5, 62-83	1.8	15
52	Resolution and denoising in near-field imaging. <i>Inverse Problems</i> , <b>2006</b> , 22, 1437-1456	2.3	13
51	Detection and imaging in strongly backscattering randomly layered media. <i>Inverse Problems</i> , <b>2011</b> , 27, 025004	2.3	12
50	Optimal illumination and wave form design for imaging in random media. <i>Journal of the Acoustical Society of America</i> , <b>2007</b> , 122, 3507-18	2.2	12
49	A resolution study for imaging and time reversal in random media. <i>Contemporary Mathematics</i> , <b>2003</b> , 63-77	1.6	12
48	Robust seismic velocity change estimation using ambient noise recordings. <i>Geophysical Journal International</i> , <b>2016</b> , 205, 1926-1936	2.6	12
47	Filtering Random Layering Effects in Imaging. <i>Multiscale Modeling and Simulation</i> , <b>2010</b> , 8, 751-781	1.8	11
46	Asymptotics for the Space-Time Wigner Transform with Applications to Imaging. <i>Interdisciplinary Mathematical Sciences</i> , <b>2007</b> , 91-111	0.5	11
45	Signal to Noise Ratio Analysis in Virtual Source Array Imaging. <i>SIAM Journal on Imaging Sciences</i> , <b>2015</b> , 8, 248-279	1.9	10
44	Low Rank Plus Sparse Decomposition of Synthetic Aperture Radar Data for Target Imaging. <i>IEEE Transactions on Computational Imaging</i> , <b>2020</b> , 6, 491-502	4.5	9
43	Signal-to-Noise Ratio Estimation in Passive Correlation-Based Imaging. <i>SIAM Journal on Imaging Sciences</i> , <b>2013</b> , 6, 1092-1110	1.9	9
42	Adaptive Time-Frequency Detection and Filtering for Imaging in Heavy Clutter. <i>SIAM Journal on Imaging Sciences</i> , <b>2011</b> , 4, 827-849	1.9	9
41	Selective Imaging of Extended Reflectors in Two-Dimensional Waveguides. <i>SIAM Journal on Imaging Sciences</i> , <b>2013</b> , 6, 2714-2739	1.9	8
40	Multifrequency Interferometric Imaging with Intensity-Only Measurements. <i>SIAM Journal on Imaging Sciences</i> , <b>2017</b> , 10, 1005-1032	1.9	8
39	Filtering Deterministic Layer Effects in Imaging. <i>Multiscale Modeling and Simulation</i> , <b>2009</b> , 7, 1267-1301	1.8	8

38	Théorèmes finis mixtes et condensation de masse en élastodynamique linéaire. (I) Construction. <i>Comptes Rendus Mathématique</i> , <b>1997</b> , 325, 545-550		8
37	A quantitative study of source imaging in random waveguides. <i>Communications in Mathematical Sciences</i> , <b>2015</b> , 13, 749-776	1	8
36	Synthetic Aperture Imaging of Direction- and Frequency-Dependent Reflectivities. <i>SIAM Journal on Imaging Sciences</i> , <b>2016</b> , 9, 52-81	1.9	6
35	Resolution Analysis of Passive Synthetic Aperture Imaging of Fast Moving Objects. <i>SIAM Journal on Imaging Sciences</i> , <b>2017</b> , 10, 665-710	1.9	6
34	Coherent interferometric imaging, time gating and beamforming. <i>Inverse Problems</i> , <b>2011</b> , 27, 065008	2.3	6
33	Efficient numerical simulation for long range wave propagation. <i>Journal of Computational Physics</i> , <b>2006</b> , 215, 448-464	4.1	6
32	Matched-Filter and Correlation-Based Imaging for Fast Moving Objects Using a Sparse Network of Receivers. <i>SIAM Journal on Imaging Sciences</i> , <b>2017</b> , 10, 2165-2216	1.9	5
31	Seismic response of a set of blocks partially imbedded in soft soil. <i>Comptes Rendus - Mécanique</i> , <b>2003</b> , 331, 217-224	2.1	5
30	The Noise Collector for sparse recovery in high dimensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 11226-11232	11.5	4
29	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> , <b>2009</b> , 43, 377-398	1.8	4
28	A Fictitious Domain Method with Mixed Finite Elements for Elastodynamics. <i>SIAM Journal of Scientific Computing</i> , <b>2007</b> , 29, 1244-1267	2.6	4
27	A Time Domain Method for Modeling Wave Propagation Phenomena in Viscoacoustic Media <b>2003</b> , 911-915		4
26	Partial-aperture array imaging in acoustic waveguides. <i>Inverse Problems</i> , <b>2016</b> , 32, 125011	2.3	4
25	Imaging Extended Reflectors in a Terminating Waveguide. <i>SIAM Journal on Imaging Sciences</i> , <b>2018</b> , 11, 1680-1716	1.9	4
24	Signal-to-Noise Ratio analysis for time-reversal based imaging techniques in bounded domains. <i>Wave Motion</i> , <b>2018</b> , 79, 23-43	1.8	3
23	Filtering Deterministic Layer Effects in Imaging. <i>SIAM Review</i> , <b>2012</b> , 54, 757-798	7.4	3
22	Finite Element Methods with Discontinuous Displacement <b>2008</b> , 331-537		3
21	Generalized Correlation-Based Imaging for Satellites. <i>SIAM Journal on Imaging Sciences</i> , <b>2020</b> , 13, 1331-1366		3

20	Robust multifrequency imaging with MUSIC. <i>Inverse Problems</i> , <b>2019</b> , 35, 015007	2.3	3
19	Time and direction of arrival detection and filtering for imaging in strongly scattering random media. <i>Waves in Random and Complex Media</i> , <b>2017</b> , 27, 664-689	1.9	2
18	Stretching Method-Based Operational Modal Analysis of An Old Masonry Lighthouse. <i>Sensors</i> , <b>2019</b> , 19,	3.8	2
17	Subspace projection filters for imaging in random media. <i>Comptes Rendus - Mecanique</i> , <b>2010</b> , 338, 390-401	2.1	2
16	TIME REVERSAL IN ELASTODYNAMICS AND APPLICATIONS TO STRUCTURAL HEALTH MONITORING <b>2015</b> ,		2
15	Synthetic Aperture Imaging and Motion Estimation Using Tensor Methods. <i>SIAM Journal on Imaging Sciences</i> , <b>2020</b> , 13, 2213-2249	1.9	2
14	Imaging with highly incomplete and corrupted data. <i>Inverse Problems</i> , <b>2020</b> , 36, 035010	2.3	2
13	A comparative study of data filtering methods for imaging in strongly scattering media. <i>Wave Motion</i> , <b>2017</b> , 68, 97-113	1.8	1
12	Stretching Method-Based Damage Detection Using Neural Networks.. <i>Sensors</i> , <b>2022</b> , 22,	3.8	1
11	Resolution Estimation for Imaging and Time Reversal in Scattering Media <b>2003</b> , 631-636		1
10	Incoherent source localization in random acoustic waveguides. <i>Waves in Random and Complex Media</i> , <b>2020</b> , 30, 81-106	1.9	1
9	Synthetic Aperture Imaging With Intensity-Only Data. <i>IEEE Transactions on Computational Imaging</i> , <b>2020</b> , 6, 87-94	4.5	1
8	Fast Signal Recovery From Quadratic Measurements. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 2042-2055	4.8	1
7	Staggered explicit-implicit time-discretization for elastodynamics with dissipative internal variables. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , <b>2021</b> , 55, S397-S416	1.8	1
6	Correlation Based Imaging for Rotating Satellites. <i>SIAM Journal on Imaging Sciences</i> , <b>2021</b> , 14, 271-303	1.9	1
5	Multi-Frequency Quantitative Imaging of High Contrast Objects: A Canonical Approximation. <i>Acoustical Imaging</i> , <b>2004</b> , 675-682		1
4	Statistical Stability and Time-Reversal Imaging in Random Media. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>2004</b> , 15-24	0.5	1
3	Quantitative subsurface imaging in strongly scattering media. <i>Optics Express</i> , <b>2018</b> , 26, 27346-27357	3.3	0

- 2 Intensity-only inverse scattering with MUSIC. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2019**, 36, 1829-1837 1.8 0
- 1 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 0.8