

# Loukas F Kallivokas

## List of Publications by Year in descending order

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46  
papers

775  
citations

623734

14  
h-index

526287

27  
g-index

47  
all docs

47  
docs citations

47  
times ranked

330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Site characterization using full waveform inversion. <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 47, 62-82.	3.8	81
2	Time-domain hybrid formulations for wave simulations in three-dimensional PML-truncated heterogeneous media. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 101, 165-198.	2.8	72
3	Seismic wave amplification by topographic features: A parametric study. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 92, 503-527.	3.8	62
4	A symmetric hybrid formulation for transient wave simulations in PML-truncated heterogeneous media. <i>Wave Motion</i> , 2013, 50, 57-79.	2.0	56
5	Full-waveform inversion in three-dimensional PML-truncated elastic media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 296, 39-72.	6.6	51
6	Three-dimensional P- and S-wave velocity profiling of geotechnical sites using full-waveform inversion driven by field data. <i>Soil Dynamics and Earthquake Engineering</i> , 2016, 87, 63-81.	3.8	51
7	Symmetric Local Absorbing Boundaries in Time and Space. <i>Journal of Engineering Mechanics - ASCE</i> , 1991, 117, 2027-2048.	2.9	30
8	Mixed unsplit-field perfectly matched layers for transient simulations of scalar waves in heterogeneous domains. <i>Computational Geosciences</i> , 2010, 14, 623-648.	2.4	29
9	The inverse medium problem in heterogeneous PML-truncated domains using scalar probing waves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 265-283.	6.6	28
10	Time-domain analysis of transient structural acoustics problems based on the finite element method and a novel absorbing boundary element. <i>Journal of the Acoustical Society of America</i> , 1993, 94, 3480-3492.	1.1	24
11	A simple impedance-infinite element for the finite element solution of the three-dimensional wave equation in unbounded domains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1997, 147, 235-262.	6.6	23
12	The inverse medium problem in 1D PML-truncated heterogeneous semi-infinite domains. <i>Inverse Problems in Science and Engineering</i> , 2010, 18, 759-786.	1.2	21
13	Model dimensionality effects on the amplification of seismic waves. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 113, 572-592.	3.8	18
14	Inverse metamaterial design for controlling band gaps in scalar wave problems. <i>Wave Motion</i> , 2019, 88, 85-105.	2.0	18
15	NEAR-SURFACE LOCALIZATION AND SHAPE IDENTIFICATION OF A SCATTERER EMBEDDED IN A HALFPLANE USING SCALAR WAVES. <i>Journal of Computational Acoustics</i> , 2009, 17, 277-308.	1.0	14
16	Non-convolutional second-order complex-frequency-shifted perfectly matched layers for transient elastic wave propagation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 377, 113704.	6.6	14
17	Stable localized symmetric integral equation method for acoustic scattering problems. <i>Journal of the Acoustical Society of America</i> , 1992, 91, 2510-2518.	1.1	12
18	Inverse band gap design of elastic metamaterials for P and SV wave control. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 370, 113263.	6.6	12

#	ARTICLE	IF	CITATIONS
19	On the feasibility of inducing oil mobilization in existing reservoirs via wellbore harmonic fluid action. <i>Journal of Petroleum Science and Engineering</i> , 2011, 76, 116-123.	4.2	11
20	Wave energy focusing to subsurface poroelastic formations to promote oil mobilization. <i>Geophysical Journal International</i> , 2015, 202, 119-141.	2.4	11
21	On an inverse source problem for enhanced oil recovery by wave motion maximization in reservoirs. <i>Computational Geosciences</i> , 2015, 19, 233-256.	2.4	11
22	Local absorbing boundaries of elliptical shape for scalar waves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 4979-5015.	6.6	10
23	Optimization of sources for focusing wave energy in targeted formations. <i>Journal of Geophysics and Engineering</i> , 2010, 7, 242-256.	1.4	10
24	A framework for assessing the uncertainty in wave energy delivery to targeted subsurface formations. <i>Journal of Applied Geophysics</i> , 2016, 125, 26-36.	2.1	10
25	Time-domain forward and inverse modeling of lossy soils with frequency-independent Q for near-surface applications. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 43, 139-159.	3.8	9
26	Parameter Estimation in Layered Media Using Dispersion-Constrained Inversion. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, .	2.9	9
27	On the full-waveform inversion of Lamé parameters in semi-infinite solids in plane strain. <i>International Journal of Solids and Structures</i> , 2019, 164, 104-119.	2.7	9
28	Maximization of Oil Mobility within a Hydrocarbon Reservoir for Elastic Wave-based Enhanced Oil Recovery. , 2011, , .		8
29	A comparison of time-reversal and inverse-source methods for the optimal delivery of wave energy to subsurface targets. <i>Wave Motion</i> , 2016, 67, 121-140.	2.0	8
30	Group Velocity-Driven Inverse Metamaterial Design. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, 04019094.	2.9	8
31	Local absorbing boundaries of elliptical shape for scalar wave propagation in a half-plane. <i>Finite Elements in Analysis and Design</i> , 2004, 40, 2063-2084.	3.2	7
32	The inverse medium problem for Timoshenko beams and frames: damage detection and profile reconstruction in the time-domain. <i>Computational Mechanics</i> , 2011, 47, 117-136.	4.0	7
33	Direct time-domain soil profile reconstruction for one-dimensional semi-infinite domains. <i>Soil Dynamics and Earthquake Engineering</i> , 2009, 29, 1016-1026.	3.8	5
34	Hybrid perfectly-matched-layers for transient simulation of scalar elastic waves. <i>Structural Engineering and Mechanics</i> , 2014, 51, 685-705.	1.0	5
35	Estimation of Oil Production Rates in Reservoirs Exposed to Focused Vibrational Energy. , 2014, , .		4
36	Partial-differential-equation-constrained amplitude-based shape detection in inverse acoustic scattering. <i>Computational Mechanics</i> , 2007, 41, 579-594.	4.0	3

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37	On the inverse problem of soil profile reconstruction: a comparison of time-domain approaches. Computational Mechanics, 2008, 42, 921-942.	4.0	3
38	Bayesian Inversion of Heterogeneous Media: Introducing the Next Generation of Integrated Studies for Offshore Site Investigations. , 2013, , .		3
39	Source parameter inversion for wave energy focusing to a target inclusion embedded in a three-dimensional heterogeneous halfspace. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 1016-1037.	3.3	3
40	Resolution improving filter for time-reversal (TR) with a switching TR mirror in a halfspace. Journal of the Acoustical Society of America, 2019, 145, 2328-2336.	1.1	2
41	An Extension of the Mobility Analysis of the Impulse Response Method for Coupled Pile-soil Integrity Testing. Journal of Earthquake Engineering, 2022, 26, 3703-3723.	2.5	1
42	Ellipsoidally-shaped local absorbing boundaries for three-dimensional scalar wave propagation. Computational Mechanics, 2004, 35, 11-23.	4.0	0
43	Assessment of a fictitious domain method for patient-specific biomechanical modelling of press-fit orthopaedic implantation. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 501-516.	1.6	0
44	A mixed symmetric BEM for multi-domain, multi-material and crack interface problems in elastostatics. WIT Transactions on State-of-the-art in Science and Engineering, 2010, , 349-363.	0.0	0
45	Green's analysis of conducting lattices. Journal of Engineering Mathematics, 2022, 132, 1.	1.2	0
46	The inverse problem for conducting defective lattices. Computer Methods in Applied Mechanics and Engineering, 2022, 393, 114788.	6.6	0