

Odile N L Abraham

List of Publications by Year in descending order

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51
papers

1,251
citations

304743

22
h-index

361022

35
g-index

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all docs

53
docs citations

53
times ranked

963
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of stress-induced velocity variation in concrete under direct tensile force and monitoring of the damage level by using thermally-compensated Coda Wave Interferometry. <i>Ultrasonics</i> , 2012, 52, 1038-1045.	3.9	79
2	Small crack detection in cementitious materials using nonlinear coda wave modulation. <i>NDT and E International</i> , 2014, 68, 98-104.	3.7	64
3	Surface-wave Inversion Limitations from Laser-Doppler Physical Modeling. <i>Journal of Environmental and Engineering Geophysics</i> , 2005, 10, 151-162.	0.5	60
4	Acoustic techniques for concrete evaluation: Improvements, comparisons and consistency. <i>Construction and Building Materials</i> , 2013, 43, 598-613.	7.2	59
5	Validation of a thermal bias control technique for Coda Wave Interferometry (CWI). <i>Ultrasonics</i> , 2013, 53, 658-664.	3.9	58
6	2D elastic full-waveform imaging of the near-surface: application to synthetic and physical modelling data sets. <i>Near Surface Geophysics</i> , 2013, 11, 307-316.	1.2	58
7	Non-contact, automated surface wave measurements for the mechanical characterisation of concrete. <i>Construction and Building Materials</i> , 2012, 37, 904-915.	7.2	57
8	Concrete Crack Monitoring Using a Novel Strain Transfer Model for Distributed Fiber Optics Sensors. <i>Sensors</i> , 2020, 20, 2220.	3.8	56
9	The Modelling of the Opening and Closure of a Crack. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1995, 117, 370-377.	1.6	54
10	Near-offset effects on Rayleigh-wave dispersion measurements: Physical modeling. <i>Journal of Applied Geophysics</i> , 2009, 68, 95-103.	2.1	52
11	Analysis of coherent surface wave dispersion and attenuation for non-destructive testing of concrete. <i>Ultrasonics</i> , 2009, 49, 743-751.	3.9	46
12	Non-destructive testing of fired tunnel walls: the Mont-Blanc Tunnel case study. <i>NDT and E International</i> , 2003, 36, 411-418.	3.7	44
13	Monitoring of autogenous crack healing in cementitious materials by the nonlinear modulation of ultrasonic coda waves, 3D microscopy and X-ray microtomography. <i>Construction and Building Materials</i> , 2016, 123, 143-152.	7.2	42
14	Distributed Fiber Optics Sensing and Coda Wave Interferometry Techniques for Damage Monitoring in Concrete Structures. <i>Sensors</i> , 2019, 19, 356.	3.8	42
15	Small-scale modeling of onshore seismic experiment: A tool to validate numerical modeling and seismic imaging methods. <i>Geophysics</i> , 2011, 76, T101-T112.	2.6	38
16	GPR and seismic imaging in a gypsum quarry. <i>Journal of Applied Geophysics</i> , 2000, 45, 157-169.	2.1	36
17	Mechanical properties estimation of functionally graded materials using surface waves recorded with a laser interferometer. <i>NDT and E International</i> , 2011, 44, 169-177.	3.7	35
18	Nonlinear mixing of ultrasonic coda waves with lower frequency-swept pump waves for a global detection of defects in multiple scattering media. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	34

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19	A comparative study of two non-destructive testing methods to assess near-surface mechanical damage in concrete structures. <i>NDT and E International</i> , 2008, 41, 448-456.	3.7	33
20	Comparison of NDT techniques on a post-tensioned beam before its autopsy. <i>NDT and E International</i> , 2002, 35, 541-548.	3.7	32
21	Counter-intuitive quasi-periodic motion in the autonomous vibration of cracked Timoshenko beams. <i>Journal of Sound and Vibration</i> , 1995, 185, 415-430.	3.9	31
22	Nonlinear coda wave interferometry for the global evaluation of damage levels in complex solids. <i>Ultrasonics</i> , 2017, 73, 245-252.	3.9	28
23	Quantitative evaluation of contactless impact echo for non-destructive assessment of void detection within tendon ducts. <i>Construction and Building Materials</i> , 2012, 37, 885-892.	7.2	21
24	Remark on the Determination of Compliance Coefficients at the Crack Section of a Uniform Beam with Circular Cross-Section. <i>Journal of Sound and Vibration</i> , 1994, 169, 570-574.	3.9	19
25	Characterization of Heterogeneous Soils Using Surface Waves: Homogenization and Numerical Modeling. <i>International Journal of Geomechanics</i> , 2003, 3, 55-63.	2.7	19
26	Evaluation of crack status in a meter-size concrete structure using the ultrasonic nonlinear coda wave interferometry. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 2233-2241.	1.1	18
27	Development of an ultrasonic experimental device to characterise concrete for structural repair. <i>Construction and Building Materials</i> , 2012, 37, 934-942.	7.2	17
28	Numerical modeling of ultrasonic coda wave interferometry in a multiple scattering medium with a localized nonlinear defect. <i>Wave Motion</i> , 2017, 72, 228-243.	2.0	15
29	Influence of multiple scattering in heterogeneous concrete on results of the surface wave inverse problem. <i>NDT and E International</i> , 2016, 79, 53-62.	3.7	13
30	Tracking fluids in multiple scattering and highly porous materials: Toward applications in non-destructive testing and seismic monitoring. <i>Ultrasonics</i> , 2020, 102, 106019.	3.9	10
31	FOLLOWING STRESS LEVEL MODIFICATION OF REAL SIZE CONCRETE STRUCTURES WITH CODA WAVE INTERFEROMETRY (CWI). <i>AIP Conference Proceedings</i> , 2011, , .	0.4	9
32	<i>Ultrasonic Methods</i> , 2018, , 21-85.		9
33	Comparison between a multiple scattering method and direct numerical simulations for elastic wave propagation in concrete. <i>Springer Proceedings in Physics</i> , 2009, , 317-327.	0.2	8
34	Numerical parametric study of Nonlinear Coda Wave Interferometry sensitivity to microcrack size in a multiple scattering medium. <i>Ultrasonics</i> , 2021, 116, 106483.	3.9	7
35	Use of surface waves and seismic refraction for the inspection of circular concrete structures. <i>Cement and Concrete Composites</i> , 2006, 28, 337-348.	10.7	5
36	Nonlinear Coda Wave Interferometry: Sensitivity to wave-induced material property changes analyzed via numerical simulations in 2D. <i>Ultrasonics</i> , 2019, 99, 105968.	3.9	5

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37	Monitoring the Stress Level of Concrete Structures with CODA Wave Interferometry: Experimental Illustration of an Investigated Zone. RILEM Bookseries, 2013, , 233-238.	0.4	5
38	Surface wave techniques for evaluation of concrete structures. , 2010, , 441-465.		4
39	Laser ultrasonics for civil engineering : some applications in development for concrete non destructive testing. Journal of Physics: Conference Series, 2011, 278, 012014.	0.4	4
40	Probabilistic Evaluation to Improve Design of Impactâ€™Echo Sources. Transportation Research Record, 2012, 2313, 109-115.	1.9	4
41	Study of concrete's behavior under 4-point bending load using Coda Wave Interferometry (CWI) analysis. , 2013, , .		4
42	Ultrasonic monitoring of stress and cracks of the 1/3 scale mock-up of nuclear reactor concrete containment structure. Structural Health Monitoring, 2022, 21, 1474-1482.	7.5	4
43	Impactâ€™echo techniques for evaluation of concrete structures. , 2010, , 466-489.		3
44	Monitoring localized cracks on under pressure concrete nuclear containment wall using linear and nonlinear ultrasonic coda wave interferometry. AIP Conference Proceedings, 2018, , .	0.4	3
45	<title>Review of NDT methods on a weak post-tensioned beam before autopsy</title>. , 2002, 4758, 365.		2
46	Numerical modeling of nonlinear modulation of coda wave interferometry in a multiple scattering medium with the presence of a localized micro-cracked zone. AIP Conference Proceedings, 2018, , .	0.4	2
47	Effect of Dipping Layers on Seismic Surface Waves Profiling: A Numerical Study. , 2004, , .		2
48	Special Issue on Nondestructive Testing in Civil Engineering. Journal of Infrastructure Systems, 2012, 18, 1-1.	1.8	1
49	MODIFICATION OF THE ZERO GROUP VELOCITY (IMPACT ECHO) RESONANCE FREQUENCY IN THE PRESENCE OF VOIDS FOR THE INSPECTION OF TENDON DUCTS. , 2011, , .		0
50	Non destructive testing of concrete nuclear containment plants with surface waves: Lab experiment on decimeter slabs and on the VeRCoRs mock-up. AIP Conference Proceedings, 2018, , .	0.4	0
51	Suivi dâ€™endommagement de composite par lâ€™étude de la CODA ultrasonore. Revue Des Composites Et Des Materiaux Avances, 2014, 24, 177-189.	0.6	0