

Philippe Roux

List of Publications by Year in descending order

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254
papers

11,391
citations

30070

54
h-index

37204

96
g-index

266
all docs

266
docs citations

266
times ranked

6434
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-reversed acoustics. Reports on Progress in Physics, 2000, 63, 1933-1995.	20.1	566
2	Surface wave tomography from microseisms in Southern California. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	497
3	Extracting time-domain Green's function estimates from ambient seismic noise. Geophysical Research Letters, 2005, 32, .	4.0	420
4	Robust Acoustic Time Reversal with High-Order Multiple Scattering. Physical Review Letters, 1995, 75, 4206-4209.	7.8	384
5	Ambient noise cross correlation in free space: Theoretical approach. Journal of the Acoustical Society of America, 2005, 117, 79-84.	1.1	358
6	Extracting coherent wave fronts from acoustic ambient noise in the ocean. Journal of the Acoustical Society of America, 2004, 116, 1995-2003.	1.1	281
7	A seismic metamaterial: The resonant metawedge. Scientific Reports, 2016, 6, 27717.	3.3	264
8	P-waves from cross-correlation of seismic noise. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	262
9	Forests as a natural seismic metamaterial: Rayleigh wave bandgaps induced by local resonances. Scientific Reports, 2016, 6, 19238.	3.3	251
10	Stability of monitoring weak changes in multiply scattering media with ambient noise correlation: Laboratory experiments. Journal of the Acoustical Society of America, 2009, 125, 3688-3695.	1.1	204
11	Cross-correlation of random fields: mathematical approach and applications. Geophysical Prospecting, 2008, 56, 375-393.	1.9	186
12	Emergence rate of the time-domain Green's function from the ambient noise cross-correlation function. Journal of the Acoustical Society of America, 2005, 118, 3524-3531.	1.1	159
13	Life cycle assessments of urban water systems: A comparative analysis of selected peer-reviewed literature. Water Research, 2014, 67, 187-202.	11.3	154
14	Estimation of the effect of nonisotropically distributed energy on the apparent arrival time in correlations. Geophysics, 2010, 75, SA85-SA93.	2.6	153
15	Seismic metasurfaces: Sub-wavelength resonators and Rayleigh wave interaction. Journal of the Mechanics and Physics of Solids, 2017, 99, 379-393.	4.8	152
16	Environmental assessment of a territory: An overview of existing tools and methods. Journal of Environmental Management, 2012, 112, 213-225.	7.8	151
17	Arrival-time structure of the time-averaged ambient noise cross-correlation function in an oceanic waveguide. Journal of the Acoustical Society of America, 2005, 117, 164-174.	1.1	131
18	Near-surface study at the Valhall oil field from ambient noise surface wave tomography. Geophysical Journal International, 2013, 193, 1627-1643.	2.4	125

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19	Experimental Demonstration of Ordered and Disordered Multiresonant Metamaterials for Lamb Waves. <i>Physical Review Letters</i> , 2014, 112, 234301.	7.8	124
20	Greenâ€™s functions extraction and surface-wave tomography from microseisms in southern California. <i>Geophysics</i> , 2006, 71, SI23-SI31.	2.6	120
21	Time-Dependent Coherent Backscattering of Acoustic Waves. <i>Physical Review Letters</i> , 1997, 79, 3637-3639.	7.8	117
22	Teleseismic correlations of ambient seismic noise for deep global imaging of the Earth. <i>Geophysical Journal International</i> , 2013, 194, 844-848.	2.4	117
23	How to Conduct a Proper Sensitivity Analysis in Life Cycle Assessment: Taking into Account Correlations within LCI Data and Interactions within the LCA Calculation Model. <i>Environmental Science & Technology</i> , 2015, 49, 377-385.	10.0	116
24	Seismic Tomography of the Southern California Plate Boundary Region from Noise-Based Rayleigh and Love Waves. <i>Pure and Applied Geophysics</i> , 2015, 172, 1007-1032.	1.9	112
25	Time reversal in a waveguide: Study of the temporal and spatial focusing. <i>Journal of the Acoustical Society of America</i> , 2000, 107, 2418-2429.	1.1	106
26	Using Ocean Ambient Noise for Array Self-Localization and Self-Synchronization. <i>IEEE Journal of Oceanic Engineering</i> , 2005, 30, 338-347.	3.8	99
27	Territorial Life Cycle Assessment (LCA): What exactly is it about? A proposal towards using a common terminology and a research agenda. <i>Journal of Cleaner Production</i> , 2018, 176, 474-485.	9.3	92
28	Life cycle assessment of urban wastewater systems: Quantifying the relative contribution of sewer systems. <i>Water Research</i> , 2015, 77, 35-48.	11.3	91
29	Greenâ€™s function estimation using secondary sources in a shallow water environment. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 1406-1416.	1.1	90
30	Ambient noise surface wave tomography to determine the shallow shear velocity structure at Valhall: depth inversion with a Neighbourhood Algorithm. <i>Geophysical Journal International</i> , 2014, 198, 1514-1525.	2.4	86
31	Multiple-Inputâ€™Multiple-Output Coherent Time Reversal Communications in a Shallow-Water Acoustic Channel. <i>IEEE Journal of Oceanic Engineering</i> , 2006, 31, 170-178.	3.8	85
32	Passive in vivo elastography from skeletal muscle noise. <i>Applied Physics Letters</i> , 2007, 90, 194101.	3.3	85
33	Time-reversal in an ultrasonic waveguide. <i>Applied Physics Letters</i> , 1997, 70, 1811-1813.	3.3	84
34	Enhanced sensing and conversion of ultrasonic Rayleigh waves by elastic metasurfaces. <i>Scientific Reports</i> , 2017, 7, 6750.	3.3	84
35	Passive elastography: shear-wave tomography from physiological-noise correlation in soft tissues. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1122-1126.	3.0	81
36	Adapting the LCA framework to environmental assessment in land planning. <i>International Journal of Life Cycle Assessment</i> , 2013, 18, 1533-1548.	4.7	79

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37	Triggering of tremors and slow slip event in Guerrero, Mexico, by the 2010 Mw 8.8 Maule, Chile, earthquake. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	77
38	Synthetic aperture time-reversal communications in shallow water: Experimental demonstration at sea. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 2365-2372.	1.1	75
39	Reconstruction of Rayleighâ€“Lamb dispersion spectrum based on noise obtained from an air-jet forcing. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 3437-3444.	1.1	75
40	A methodological approach towards high-resolution surface wave imaging of the San Jacinto Fault Zone using ambient-noise recordings at a spatially dense array. <i>Geophysical Journal International</i> , 2016, 206, 980-992.	2.4	74
41	Modal Doppler theory of an arbitrarily accelerating continuous-wave source applied to mode extraction in the oceanic waveguide. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 1426-1439.	1.1	73
42	Body and surface wave reconstruction from seismic noise correlations between arrays at Piton de la Fournaise volcano. <i>Geophysical Research Letters</i> , 2016, 43, 1047-1054.	4.0	70
43	Reverberations, coda waves and ambient noise: Correlations at the global scale and retrieval of the deep phases. <i>Earth and Planetary Science Letters</i> , 2014, 391, 137-145.	4.4	69
44	Theory of multiresonant metamaterials for waves. <i>Physical Review B</i> , 2015, 91, .	4.2	68
45	The structure of raylike arrivals in a shallow-water waveguide. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 3430-3439.	1.1	67
46	The plumbing of Old Faithful Geyser revealed by hydrothermal tremor. <i>Geophysical Research Letters</i> , 2013, 40, 1989-1993.	4.0	67
47	The Analysis of Longâ€“Term Frequency and Damping Wandering in Buildings Using the Random Decrement Technique. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 236-246.	2.3	66
48	Locating hydrothermal acoustic sources at Old Faithful Geyser using Matched Field Processing. <i>Geophysical Journal International</i> , 2011, 187, 385-393.	2.4	65
49	Passive seismic imaging with directive ambient noise: application to surface waves and the San Andreas Fault in Parkfield, CA. <i>Geophysical Journal International</i> , 2009, 179, 367-373.	2.4	64
50	Implementation of an adapted LCA framework to environmental assessment of a territory: important learning points from a French Mediterranean case study. <i>Journal of Cleaner Production</i> , 2014, 80, 17-29.	9.3	62
51	Directional cloaking of flexural waves in a plate with a locally resonant metamaterial. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 1783-1789.	1.1	62
52	The Glasgow consensus on the delineation between pesticide emission inventory and impact assessment for LCA. <i>International Journal of Life Cycle Assessment</i> , 2015, 20, 765-776.	4.7	62
53	Body-wave reconstruction from ambient seismic noise correlations in an underground mine. <i>Geophysics</i> , 2015, 80, KS11-KS25.	2.6	59
54	Generation of very high pressure pulses with 1-bit time reversal in a solid waveguide. <i>Journal of the Acoustical Society of America</i> , 2001, 110, 2849-2857.	1.1	58

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55	Shallow three-dimensional structure of the San Jacinto fault zone revealed from ambient noise imaging with a dense seismic array. <i>Geophysical Journal International</i> , 2019, 216, 896-905.	2.4	58
56	Current limits of life cycle assessment framework in evaluating environmental sustainability “ case of two evolving biofuel technologies. <i>Journal of Cleaner Production</i> , 2013, 54, 215-228.	9.3	55
57	Sub-wavelength energy trapping of elastic waves in a metamaterial. <i>Journal of the Acoustical Society of America</i> , 2014, 136, EL192-EL198.	1.1	55
58	The Aharonov-Bohm Effect Revisited by an Acoustic Time-Reversal Mirror. <i>Physical Review Letters</i> , 1997, 79, 3170-3173.	7.8	53
59	Improving temporal resolution in ambient noise monitoring of seismic wave speed. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
60	Multiple scattering in a reflecting cavity: Application to fish counting in a tank. <i>Journal of the Acoustical Society of America</i> , 2001, 109, 2587-2597.	1.1	50
61	A passive inverse filter for Green’s function retrieval. <i>Journal of the Acoustical Society of America</i> , 2012, 131, EL21-EL27.	1.1	48
62	Ultrasound shock wave generator with one-bit time reversal in a dispersive medium, application to lithotripsy. <i>Applied Physics Letters</i> , 2002, 80, 897-899.	3.3	45
63	A nonreciprocal implementation of time reversal in the ocean. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 1009-1015.	1.1	45
64	Acoustical monitoring of fish density, behavior, and growth rate in a tank. <i>Aquaculture</i> , 2006, 251, 314-323.	3.5	45
65	Fluctuations of correlations and Green’s function reconstruction: Role of scattering. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	45
66	Modal depth function estimation using time-frequency analysis. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 61-71.	1.1	45
67	Multiscale matched-field processing for noise-source localization in exploration geophysics. <i>Geophysics</i> , 2012, 77, KS33-KS41.	2.6	45
68	Toward 4D Noise-Based Seismic Probing of Volcanoes: Perspectives from a Large Experiment on Piton de la Fournaise Volcano. <i>Seismological Research Letters</i> , 2016, 87, 15-25.	1.9	45
69	Focal spot imaging based on zero lag cross-correlation amplitude fields: Application to dense array data at the San Jacinto fault zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8048-8067.	3.4	45
70	Rayleigh wave three-component beamforming: signed ellipticity assessment from high-resolution frequency-wavenumber processing of ambient vibration arrays. <i>Geophysical Journal International</i> , 2018, 215, 507-523.	2.4	45
71	Convergence of the two-point correlation function toward the Green’s function in the context of a seismic-prospecting data set. <i>Geophysics</i> , 2008, 73, V47-V53.	2.6	44
72	Experimental demonstration of adaptive reverberation nulling using time reversal. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 1381-1387.	1.1	43

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73	Elastic Wave Control Beyond Band-Gaps: Shaping the Flow of Waves in Plates and Half-Spaces with Subwavelength Resonant Rods. <i>Frontiers in Mechanical Engineering</i> , 2017, 3, .	1.8	43
74	On the temporal stability of the coda of ambient noise correlations. <i>Comptes Rendus - Geoscience</i> , 2014, 346, 307-316.	1.2	42
75	Toward Seismic Metamaterials: The METAFORÉ Project. <i>Seismological Research Letters</i> , 2018, 89, 582-593.	1.9	42
76	To what extent are short food supply chains (SFSCs) environmentally friendly? Application to French apple distribution using Life Cycle Assessment. <i>Journal of Cleaner Production</i> , 2020, 276, 124166.	9.3	42
77	Estimating Water Consumption of Potential Natural Vegetation on Global Dry Lands: Building an LCA Framework for Green Water Flows. <i>Environmental Science & Technology</i> , 2013, 47, 12258-12265.	10.0	41
78	Inverse scattering analysis with an acoustic time-reversal mirror. <i>Physical Review Letters</i> , 1994, 72, 637-640.	7.8	40
79	How environmentally significant is water consumption during wastewater treatment?: Application of recent developments in LCA to WWT technologies used at 3 contrasted geographical locations. <i>Water Research</i> , 2014, 57, 20-30.	11.3	40
80	Experimental demonstration of iterative time-reversed reverberation focusing in a rough waveguide. Application to target detection. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 1305-1314.	1.1	39
81	Phase-velocity dispersion curves and small-scale geophysics using noise correlation slantstack technique. <i>Geophysical Journal International</i> , 2008, 172, 971-981.	2.4	39
82	Seismic fault zone trapped noise. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5786-5799.	3.4	39
83	Investigation of coseismic and postseismic processes using in situ measurements of seismic velocity variations in an underground mine. <i>Geophysical Research Letters</i> , 2015, 42, 9261-9269.	4.0	39
84	Joint Inversion of Body-Wave Arrival Times and Surface-Wave Dispersion for Three-Dimensional Seismic Structure Around SAFOD. <i>Pure and Applied Geophysics</i> , 2014, 171, 3013-3022.	1.9	38
85	Extracting the local Green's function on a horizontal array from ambient ocean noise. <i>Journal of the Acoustical Society of America</i> , 2008, 124, EL183-EL188.	1.1	37
86	Transformation seismology: composite soil lenses for steering surface elastic Rayleigh waves. <i>Scientific Reports</i> , 2016, 6, 25320.	3.3	36
87	Near-field time-reversal amplification. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 3602.	1.1	35
88	A new feller-buncher for harvesting energy wood: Results from a European test programme. <i>Biomass and Bioenergy</i> , 2007, 31, 205-210.	5.7	35
89	Phase velocity tomography of surface waves using ambient noise cross correlation and array processing. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 519-529.	3.4	35
90	Field Fluctuation Spectroscopy in a Reverberant Cavity with Moving Scatterers. <i>Physical Review Letters</i> , 2003, 90, 094302.	7.8	34

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91	Bridging the gap between life cycle inventory and impact assessment for toxicological assessments of pesticides used in crop production. <i>Chemosphere</i> , 2014, 100, 175-181.	8.2	34
92	Helmholtz tomography of ambient noise surface wave data to estimate Scholte wave phase velocity at Valhall Life of the Field. <i>Geophysics</i> , 2013, 78, WA99-WA109.	2.6	33
93	Coherent processing of shipping noise for ocean monitoring. <i>Journal of the Acoustical Society of America</i> , 2013, 133, EL108-EL113.	1.1	33
94	Using glacier seismicity for phase velocity measurements and Green's function retrieval. <i>Geophysical Journal International</i> , 2015, 201, 1722-1737.	2.4	33
95	Impacts from urban water systems on receiving waters – How to account for severe wet-weather events in LCA?. <i>Water Research</i> , 2018, 128, 412-423.	11.3	33
96	Experimental Evidence in Acoustics of the Violation of Time-Reversal Invariance Induced by Vorticity. <i>Europhysics Letters</i> , 1995, 32, 25-29.	2.0	32
97	The San Andreas Fault revisited through seismic-noise and surface-wave tomography. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	32
98	Environmental Impacts of Contrasted Groundwater Pumping Systems Assessed by Life Cycle Assessment Methodology: Contribution to the Water-Energy Nexus Study. <i>Irrigation and Drainage</i> , 2015, 64, 124-138.	1.7	32
99	Enhancing the emergence rate of coherent wavefronts from ocean ambient noise correlations using spatio-temporal filters. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 883-893.	1.1	31
100	Sub-Permil Interlaboratory Consistency for Solution-Based Boron Isotope Analyses on Marine Carbonates. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 59-75.	3.1	31
101	<i>Underwater Acoustics</i> . , 2007, , 149-204.		30
102	Passive monitoring of anisotropy change associated with the Parkfield 2004 earthquake. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	30
103	Reconstructing the Green's function through iteration of correlations. <i>Comptes Rendus - Geoscience</i> , 2011, 343, 623-632.	1.2	30
104	Streamlining life cycle inventory data generation in agriculture using traceability data and information and communication technologies – part I: concepts and technical basis. <i>Journal of Cleaner Production</i> , 2014, 69, 60-66.	9.3	30
105	Streamlining life cycle inventory data generation in agriculture using traceability data and information and communication technologies – part II: application to viticulture. <i>Journal of Cleaner Production</i> , 2015, 87, 119-129.	9.3	30
106	Nonlinear dynamics induced in a structure by seismic and environmental loading. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 582-590.	1.1	30
107	Salinisation impacts in life cycle assessment: a review of challenges and options towards their consistent integration. <i>International Journal of Life Cycle Assessment</i> , 2016, 21, 577-594.	4.7	28
108	Azimuthal anisotropy at Valhall: The Helmholtz equation approach. <i>Geophysical Research Letters</i> , 2013, 40, 2636-2641.	4.0	27

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109	Anatomy of a fumarolic system inferred from a multiphysics approach. Scientific Reports, 2018, 8, 7580.	3.3	27
110	Observing the subglacial hydrology network and its dynamics with a dense seismic array. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27
111	Self-potential and passive seismic monitoring of hydrothermal activity: A case study at Iodine Pool, Waimangu geothermal valley, New Zealand. Journal of Volcanology and Geothermal Research, 2009, 179, 11-18.	2.1	25
112	Travel-time tomography in shallow water: Experimental demonstration at an ultrasonic scale. Journal of the Acoustical Society of America, 2011, 130, 1232-1241.	1.1	25
113	Target detection and localization in shallow water: An experimental demonstration of the acoustic barrier problem at the laboratory scale. Journal of the Acoustical Society of America, 2011, 129, 85-97.	1.1	25
114	Double beamforming processing in a seismic prospecting context. Geophysics, 2013, 78, V101-V108.	2.6	25
115	Structural-change localization and monitoring through a perturbation-based inverse problem. Journal of the Acoustical Society of America, 2014, 136, 2586-2597.	1.1	25
116	A Rapid Method for Determining Boron Concentration ($\langle \text{ID} \rangle$ and $\langle \text{ICP} \rangle$ and $\langle \text{MS} \rangle$) and $\langle \text{B} \rangle$ ($\langle \text{MC} \rangle$ and $\langle \text{ICP} \rangle$ and $\langle \text{MS} \rangle$) in Vegetation Samples after Microwave Digestion and Cation Exchange Chemical Purification. Geostandards and Geoanalytical Research, 2015, 39, 453-466.	3.1	25
117	Using the Reliability Theory for Assessing the Decision Confidence Probability for Comparative Life Cycle Assessments. Environmental Science & Technology, 2016, 50, 2272-2280.	10.0	25
118	Experimental demonstration of a high-frequency forward scattering acoustic barrier in a dynamic coastal environment. Journal of the Acoustical Society of America, 2010, 127, 3430-3439.	1.1	24
119	Silicon dynamics through the lens of soil-plant-animal interactions: perspectives for agricultural practices. Plant and Soil, 2021, 467, 1-28.	3.7	24
120	An LCA framework to assess environmental efficiency of water reuse: Application to contrasted locations for wastewater reuse in agriculture. Journal of Cleaner Production, 2021, 316, 128151.	9.3	24
121	Seismic, Ambient Noise Correlation. Encyclopedia of Earth Sciences Series, 2011, , 1230-1236.	0.1	24
122	Multiple scattering from icequakes at Erebus volcano, Antarctica: Implications for imaging at glaciated volcanoes. Journal of Geophysical Research: Solid Earth, 2015, 120, 1129-1141.	3.4	23
123	An innovative implementation of LCA within the EIA procedure: Lessons learned from two Wastewater Treatment Plant case studies. Environmental Impact Assessment Review, 2017, 63, 95-106.	9.2	23
124	Extracting coherent coda arrivals from cross-correlations of long period seismic waves during the Mount St. Helens 2004 eruption. Geophysical Research Letters, 2006, 33, .	4.0	22
125	Application of acoustic noise and self-potential localization techniques to a buried hydrothermal vent (Waimangu Old Geyser site, New Zealand). Geophysical Journal International, 2010, 180, 883-890.	2.4	22
126	Assessing Water Deprivation at the Sub-river Basin Scale in LCA Integrating Downstream Cascade Effects. Environmental Science & Technology, 2013, 47, 14242-14249.	10.0	22

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127	Up to what point is loss reduction environmentally friendly?: The LCA of loss reduction scenarios in drinking water networks. <i>Water Research</i> , 2016, 104, 231-241.	11.3	22
128	Green's function retrieval through cross-correlations in a two-dimensional complex reverberating medium. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 1034-1043.	1.1	21
129	WaLA, a versatile model for the life cycle assessment of urban water systems: Formalism and framework for a modular approach. <i>Water Research</i> , 2016, 88, 69-82.	11.3	21
130	High-resolution shallow seismic tomography of a hydrothermal area: application to the Solfatara, Pozzuoli. <i>Geophysical Journal International</i> , 2012, 189, 1725-1733.	2.4	20
131	Monitoring fault zone environments with correlations of earthquake waveforms. <i>Geophysical Journal International</i> , 2014, 196, 1073-1081.	2.4	20
132	On the Green's function emergence from interferometry of seismic wave fields generated in high-melt glaciers: implications for passive imaging and monitoring. <i>Cryosphere</i> , 2020, 14, 1139-1171.	3.9	20
133	Shallow-Water Acoustic Tomography Performed From a Double-Beamforming Algorithm: Simulation Results. <i>IEEE Journal of Oceanic Engineering</i> , 2009, 34, 140-149.	3.8	19
134	Elastic-wave identification and extraction through array processing: An experimental investigation at the laboratory scale. <i>Journal of Applied Geophysics</i> , 2011, 74, 81-88.	2.1	19
135	Anatomy of the high-frequency ambient seismic wave field at the TCDP borehole. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	19
136	Rayleigh phase velocities in Southern California from beamforming short-duration ambient noise. <i>Geophysical Journal International</i> , 2017, 211, 450-454.	2.4	19
137	Integrated tomographic methods for seismic imaging and monitoring of volcanic caldera structures and geothermal areas. <i>Journal of Applied Geophysics</i> , 2018, 156, 16-30.	2.1	19
138	Acoustical imaging through a multiple scattering medium using a time-reversal mirror. <i>Journal of the Acoustical Society of America</i> , 2000, 107, L7-L12.	1.1	18
139	Time reversal of ocean noise. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 131-136.	1.1	18
140	Super-resolution experiments on Lamb waves using a single emitter. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	18
141	A worldwide-regionalised water supply mix (WSmix) for life cycle inventory of water use. <i>Journal of Cleaner Production</i> , 2018, 172, 302-313.	9.3	18
142	A high-resolution algorithm for wave number estimation using holographic array processing. <i>Journal of the Acoustical Society of America</i> , 2004, 115, 1059-1067.	1.1	17
143	Weak Localization and Time Reversal of Ultrasound in a Rotational Flow. <i>Physical Review Letters</i> , 2005, 95, 074301.	7.8	17
144	Absolute measurements of total target strength from reverberation in a cavity. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 1387-1394.	1.1	16

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145	Long-range propagation of finite-amplitude acoustic waves in an ocean waveguide. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 2004-2010.	1.1	16
146	Synchronized time-reversal focusing with application to remote imaging from a distant virtual source array. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 3828-3834.	1.1	16
147	Extraction of phase and group velocities from ambient surface noise in a patch-array configuration. <i>Geophysics</i> , 2016, 81, KS231-KS240.	2.6	16
148	Spatialized freshwater ecosystem life cycle impact assessment of water consumption based on instream habitat change modeling. <i>Water Research</i> , 2019, 163, 114884.	11.3	16
149	High-sensitivity microseismic monitoring: Automatic detection and localization of subsurface noise sources using matched-field processing and dense patch arrays. <i>Geophysics</i> , 2019, 84, KS211-KS223.	2.6	16
150	Coherent backscattering and far-field beamforming in acoustics. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 70-77.	1.1	15
151	A strongly heterogeneous hydrothermal area imaged by surface waves: the case of Solfatara, Campi Flegrei, Italy. <i>Geophysical Journal International</i> , 2016, 205, 1813-1822.	2.4	15
152	Analysis of surface and seismic sources in dense array data with match field processing and Markov chain Monte Carlo sampling. <i>Geophysical Journal International</i> , 2019, 218, 1044-1056.	2.4	15
153	Stick-Slip Tremor Beneath an Alpine Glacier. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090528.	4.0	15
154	Data-based mode extraction with a partial water column spanning array. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 1518-1525.	1.1	14
155	Focal depth shifting of a time reversal mirror in a range-independent waveguide. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 1341-1347.	1.1	14
156	Small-scale seismic inversion using surface waves extracted from noise cross correlation. <i>Journal of the Acoustical Society of America</i> , 2008, 123, EL26-EL31.	1.1	14
157	Travel-time sensitivity kernels versus diffraction patterns obtained through double beam-forming in shallow water. <i>Journal of the Acoustical Society of America</i> , 2009, 126, 713-720.	1.1	14
158	Application of the coherent-to-incoherent intensity ratio to estimation of ocean surface roughness from high-frequency, shallow-water propagation measurements. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 1258-1266.	1.1	14
159	Boron Dissolved and Particulate Atmospheric Inputs to a Forest Ecosystem (Northeastern France). <i>Environmental Science & Technology</i> , 2017, 51, 14038-14046.	10.0	14
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