

# 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	Dynamic Imaging of Glacier Structures at High-Resolution Using Source Localization With a Dense Seismic Array. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	8
2	Modal formulation and paraxial approximation for acoustic wave propagation in waveguides with surface perturbations. <i>Journal of the Acoustical Society of America</i> , 2022, 151, 3239-3254.	1.1	0
3	Recovering and monitoring the thickness, density, and elastic properties of sea ice from seismic noise recorded in Svalbard. <i>Cryosphere</i> , 2022, 16, 2527-2543.	3.9	8
4	Three-dimensional higher-order raypath separation in a shallow-water waveguide. <i>JASA Express Letters</i> , 2022, 2, 076001.	1.1	0
5	Water supply scenarios of agricultural areas: Environmental performance through Territorial Life Cycle Assessment. <i>Journal of Cleaner Production</i> , 2022, 366, 132862.	9.3	10
6	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
7	Stick-Slip Tremor Beneath an Alpine Glacier. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090528.	4.0	15
8	ELDAM: A Python software for Life Cycle Inventory data management. <i>Journal of Open Source Software</i> , 2021, 6, 2765.	4.6	3
9	Negative index metamaterial through multi-wave interactions: numerical proof of the concept of low-frequency Lamb-wave multiplexing. <i>Scientific Reports</i> , 2021, 11, 561.	3.3	7
10	Seismic, Ambient Noise Correlation. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1557-1562.	0.1	1
11	A Multi-Physics Experiment with a Temporary Dense Seismic Array on the Argentière Glacier, French Alps: The RESOLVE Project. <i>Seismological Research Letters</i> , 2021, 92, 1185-1201.	1.9	11
12	Random versus regular square lattice experimental comparison for a subwavelength resonant metasurface. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 3645-3653.	1.1	0
13	Observing the subglacial hydrology network and its dynamics with a dense seismic array. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	27
14	Silicon dynamics through the lens of soil-plant-animal interactions: perspectives for agricultural practices. <i>Plant and Soil</i> , 2021, 467, 1-28.	3.7	24
15	Ultra slow acoustic energy transport in dense fish aggregates. <i>Scientific Reports</i> , 2021, 11, 17541.	3.3	1
16	An LCA framework to assess environmental efficiency of water reuse: Application to contrasted locations for wastewater reuse in agriculture. <i>Journal of Cleaner Production</i> , 2021, 316, 128151.	9.3	24
17	Slow dynamics process observed in civil engineering structures to detect structural heterogeneities. <i>Engineering Structures</i> , 2020, 202, 109833.	5.3	5
18	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

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19	Surface perturbation inverted from angle variations of eigenbeams in an ultrasonic waveguide. Journal of the Acoustical Society of America, 2020, 148, 2841-2850.	1.1	1
20	Phase-velocity inversion from data-based diffraction kernels: seismic Michelson interferometer. Geophysical Journal International, 2020, 224, 1287-1300.	2.4	2
21	Characterization with dense array data of seismic sources in the shallow part of the San Jacinto fault zone. Geophysical Journal International, 2020, 224, 1133-1140.	2.4	5
22	Acoustic density estimation of dense fish shoals. Journal of the Acoustical Society of America, 2020, 148, EL234-EL239.	1.1	3
23	Mesoscopic wave physics in fish shoals. AIP Advances, 2020, 10, .	1.3	3
24	On the Green's function emergence from interferometry of seismic wave fields generated in high-melt glaciers: implications for passive imaging and monitoring. Cryosphere, 2020, 14, 1139-1171.	3.9	20
25	Localized modes on a metasurface through multiwave interactions. Physical Review Materials, 2020, 4, .	2.4	6
26	Seismic, Ambient Noise Correlation. Encyclopedia of Earth Sciences Series, 2020, , 1-6.	0.1	0
27	Messages in the Bubbles. Eos, 2020, 101, .	0.1	1
28	Spatialized freshwater ecosystem life cycle impact assessment of water consumption based on instream habitat change modeling. Water Research, 2019, 163, 114884.	11.3	16
29	Topological Effects of a Vorticity Filament on the Coherent Backscattering Cone. Physical Review Letters, 2019, 123, 035503.	7.8	2
30	High-sensitivity microseismic monitoring: Automatic detection and localization of subsurface noise sources using matched-field processing and dense patch arrays. Geophysics, 2019, 84, KS211-KS223.	2.6	16
31	Analysis of surface and seismic sources in dense array data with match field processing and Markov chain Monte Carlo sampling. Geophysical Journal International, 2019, 218, 1044-1056.	2.4	15
32	Dynamic imaging of a capillary-gravity wave in shallow water using amplitude variations of eigenbeams. Journal of the Acoustical Society of America, 2019, 146, 3353-3361.	1.1	2
33	Evidence of reactivation of a hydrothermal system from seismic anisotropy changes. Nature Communications, 2019, 10, 5278.	12.8	11
34	Insight Into the Wave Scattering Properties of the Solfatara Volcano, Campi Flegrei, Italy. Frontiers in Earth Science, 2019, 7, .	1.8	4
35	Shallow three-dimensional structure of the San Jacinto fault zone revealed from ambient noise imaging with a dense seismic array. Geophysical Journal International, 2019, 216, 896-905.	2.4	58
36	The issue of considering water quality in life cycle assessment of water use. International Journal of Life Cycle Assessment, 2019, 24, 590-603.	4.7	8

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37	Effective impedance of a locally resonant metasurface. <i>Physical Review Materials</i> , 2019, 3, .	2.4	8
38	A methodology to assess habitat fragmentation effects through regional indexes: Illustration with forest biodiversity hotspots. <i>Ecological Indicators</i> , 2018, 89, 543-551.	6.3	13
39	Developing characterisation factors for land fragmentation impacts on biodiversity in LCA: key learnings from a sugarcane case study. <i>International Journal of Life Cycle Assessment</i> , 2018, 23, 2126-2136.	4.7	6
40	Self-Localization of a Deforming Swarm of Underwater Vehicles Using Impulsive Sound Sources of Opportunity. <i>IEEE Access</i> , 2018, 6, 1635-1646.	4.2	4
41	Detection and analysis of a transient energy burst with beamforming of multiple teleseismic phases. <i>Geophysical Journal International</i> , 2018, 212, 14-24.	2.4	14
42	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
43	Addressing water needs of freshwater ecosystems in life cycle impact assessment of water consumption: state of the art and applicability of ecohydrological approaches to ecosystem quality characterization. <i>International Journal of Life Cycle Assessment</i> , 2018, 23, 2071-2088.	4.7	8
44	Raypath Separation With a High-Resolution Algorithm in a Shallow-Water Waveguide. <i>IEEE Journal of Oceanic Engineering</i> , 2018, 43, 119-130.	3.8	6
45	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
46	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
47	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
48	Toward Seismic Metamaterials: The METAFORÉT Project. <i>Seismological Research Letters</i> , 2018, 89, 582-593.	1.9	42
49	Processing passive seismic data recorded on a dense array for CCS site characterization. , 2018, , .		1
50	Self-localization of a mobile swarm using noise correlations with local sources of opportunity. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 2811-2823.	1.1	3
51	Self-synchronization of multiple vehicles using ambient impulsive noise. , 2018, , .		0
52	Data-based diffraction kernels for surface waves from convolution and correlation processes through active seismic interferometry. <i>Geophysical Journal International</i> , 2018, 214, 1468-1480.	2.4	8
53	The fluctuation – dissipation theorem used as a proxy for damping variations in real engineering structures. <i>Engineering Structures</i> , 2018, 167, 65-73.	5.3	10
54	Anatomy of a fumarolic system inferred from a multiphysics approach. <i>Scientific Reports</i> , 2018, 8, 7580.	3.3	27

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55	Fast raypath separation based on low-rank matrix approximation in a shallow-water waveguide. <i>Journal of the Acoustical Society of America</i> , 2018, 143, EL271-EL277.	1.1	2
56	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
57	An innovative implementation of LCA within the EIA procedure: Lessons learned from two Wastewater Treatment Plant case studies. <i>Environmental Impact Assessment Review</i> , 2017, 63, 95-106.	9.2	23
58	Active wideband higher-order raypath separation in multipath environment. <i>Journal of the Acoustical Society of America</i> , 2017, 141, EL38-EL44.	1.1	5
59	Seismic metasurfaces: Sub-wavelength resonators and Rayleigh wave interaction. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 99, 379-393.	4.8	152
60	Coda reconstruction from cross-correlation of a diffuse field on thin elastic plates. <i>Physical Review E</i> , 2017, 96, 032137.	2.1	3
61	Rayleigh phase velocities in Southern California from beamforming short-duration ambient noise. <i>Geophysical Journal International</i> , 2017, 211, 450-454.	2.4	19
62	Enhanced sensing and conversion of ultrasonic Rayleigh waves by elastic metasurfaces. <i>Scientific Reports</i> , 2017, 7, 6750.	3.3	84
63	Monitoring of seismic anisotropy at the time of the 2008 Iwate-Miyagi (Japan) earthquake. <i>Geophysical Journal International</i> , 2017, 211, 483-497.	2.4	9
64	Experimental estimation of in vacuo structural admittance using random sources in a non-anechoic room. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 103-109.	1.1	4
65	Boron Dissolved and Particulate Atmospheric Inputs to a Forest Ecosystem (Northeastern France). <i>Environmental Science &amp; Technology</i> , 2017, 51, 14038-14046.	10.0	14
66	New Trends Toward Locally-Resonant Metamaterials at the Mesoscopic Scale. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017, , 251-299.	0.1	2
67	A multi-wave elastic metamaterial based on degenerate local resonances. <i>Journal of the Acoustical Society of America</i> , 2017, 142, EL75-EL81.	1.1	8
68	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
69	Using slowness and azimuth fluctuations as new observables for four-dimensional reservoir seismic monitoring. <i>Geophysical Prospecting</i> , 2016, 64, 1537-1555.	1.9	2
70	Ambient noise correlations on a mobile, deformable array. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 4260-4270.	1.1	8
71	On band gap predictions for multiresonant metamaterials on plates. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 1282-1284.	1.1	9
72	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

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73	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
74	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
75	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
76	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
77	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
78	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
79	Forests as a natural seismic metamaterial: Rayleigh wave bandgaps induced by local resonances. <i>Scientific Reports</i> , 2016, 6, 19238.	3.3	251
80	Transformation seismology: composite soil lenses for steering surface elastic Rayleigh waves. <i>Scientific Reports</i> , 2016, 6, 25320.	3.3	36
81	A seismic metamaterial: The resonant metawedge. <i>Scientific Reports</i> , 2016, 6, 27717.	3.3	264
82	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
83	Using the Reliability Theory for Assessing the Decision Confidence Probability for Comparative Life Cycle Assessments. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2272-2280.	10.0	25
84	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
85	On the practical convergence of coda-based correlations: a window optimization approach. <i>Geophysical Journal International</i> , 2016, 204, 736-747.	2.4	12
86	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
87	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
88	Multiple scattering from icequakes at Erebus volcano, Antarctica: Implications for imaging at glaciated volcanoes. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 1129-1141.	3.4	23
89	Symmetry issues in the hybridization of multi-mode waves with resonators: an example with Lamb waves metamaterial. <i>Scientific Reports</i> , 2015, 5, 13714.	3.3	12
90	Using underwater ambient sound to localize swarms of underwater vehicles. , 2015, , .		1

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91	Range, velocity and immersion estimation of a moving target in a water-filled tank with an active sonar system. , 2015, , .		2
92	Environmental Impacts of Contrasted Groundwater Pumping Systems Assessed by Life Cycle Assessment Methodology: Contribution to the Waterâ€“Energy Nexus Study. Irrigation and Drainage, 2015, 64, 124-138.	1.7	32
93	A Rapid Method for Determining Boron Concentration ( $ID \hat{=} ICP \hat{=} MS$ ) and $I^{11}B$ ( $MC \hat{=} ICP \hat{=} MS$ ) in Vegetation Samples after Microwave Digestion and Cation Exchange Chemical Purification. Geostandards and Geoanalytical Research, 2015. 39, 453-466.	3.1	25
94	Using glacier seismicity for phase velocity measurements and Green's function retrieval. Geophysical Journal International, 2015, 201, 1722-1737.	2.4	33
95	Directional cloaking of flexural waves in a plate with a locally resonant metamaterial. Journal of the Acoustical Society of America, 2015, 137, 1783-1789.	1.1	62
96	Timelapse ultrasonic tomography for measuring damage localization in geomechanics laboratory tests. Journal of the Acoustical Society of America, 2015, 137, 1389-1400.	1.1	5
97	Theory of multiresonant metamaterials for waves. Physical Review B, 2015, 91, .	1.2	6
98	Influence of seismic anisotropy on the cross correlation tensor: numerical investigations. Geophysical Journal International, 2015, 201, 595-604.	2.4	8
99	The Glasgow consensus on the delineation between pesticide emission inventory and impact assessment for LCA. International Journal of Life Cycle Assessment, 2015, 20, 765-776.	4.7	62
100	Life cycle assessment of urban wastewater systems: Quantifying the relative contribution of sewer systems. Water Research, 2015, 77, 35-48.	11.3	91
101	Body-wave reconstruction from ambient seismic noise correlations in an underground mine. Geophysics, 2015, 80, KS11-KS25.	2.6	59
102	Super-resolution experiments on Lamb waves using a single emitter. Applied Physics Letters, 2015, 106, .	3.3	18
103	Seismic Tomography of the Southern California Plate Boundary Region from Noise-Based Rayleigh and Love Waves. Pure and Applied Geophysics, 2015, 172, 1007-1032.	1.9	112
104	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. Environmental Science & Technology, 2015, 49, 377-385.	10.0	116
105	Streamlining life cycle inventory data generation in agriculture using traceability data and information and communication technologies â€“ part II: application to viticulture. Journal of Cleaner Production, 2015, 87, 119-129.	9.3	30
106	Green's function retrieval through cross-correlations in a two-dimensional complex reverberating medium. Journal of the Acoustical Society of America, 2014, 135, 1034-1043.	1.1	21
107	Inverting for a deterministic surface gravity wave using the sensitivity-kernel approach. Journal of the Acoustical Society of America, 2014, 135, 1789-1799.	1.1	5
108	Target localization through a data-based sensitivity kernel: A perturbation approach applied to a multistatic configuration. Journal of the Acoustical Society of America, 2014, 135, 1800-1807.	1.1	7



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109	One-channel inverse filter: Spatio-temporal control of a complex wave-field from a single point. Applied Physics Letters, 2014, 104, .	3.3	1
110	Experimental Demonstration of Ordered and Disordered Multiresonant Metamaterials for Lamb Waves. Physical Review Letters, 2014, 112, 234301.	7.8	124
111	On the temporal stability of the coda of ambient noise correlations. Comptes Rendus - Geoscience, 2014, 346, 307-316.	1.2	42
112	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
113	Monitoring fault zone environments with correlations of earthquake waveforms. Geophysical Journal International, 2014, 196, 1073-1081.	2.4	20
114	Phase velocity tomography of surface waves using ambient noise cross correlation and array processing. Journal of Geophysical Research: Solid Earth, 2014, 119, 519-529.	3.4	35
115	Streamlining life cycle inventory data generation in agriculture using traceability data and information and communication technologies – part I: concepts and technical basis. Journal of Cleaner Production, 2014, 69, 60-66.	9.3	30
116	How environmentally significant is water consumption during wastewater treatment?: Application of recent developments in LCA to WWT technologies used at 3 contrasted geographical locations. Water Research, 2014, 57, 20-30.	11.3	40
117	Reverberations, coda waves and ambient noise: Correlations at the global scale and retrieval of the deep phases. Earth and Planetary Science Letters, 2014, 391, 137-145.	4.4	69
118	Sub-wavelength energy trapping of elastic waves in a metamaterial. Journal of the Acoustical Society of America, 2014, 136, EL192-EL198.	1.1	55
119	Ambient noise surface wave tomography to determine the shallow shear velocity structure at Valhall: depth inversion with a Neighbourhood Algorithm. Geophysical Journal International, 2014, 198, 1514-1525.	2.4	86
120	Life cycle assessments of urban water systems: A comparative analysis of selected peer-reviewed literature. Water Research, 2014, 67, 187-202.	11.3	154
121	Antipodal focusing of seismic waves observed with the USArray. Geophysical Journal International, 2014, 199, 1030-1042.	2.4	6
122	Joint Inversion of Body-Wave Arrival Times and Surface-Wave Dispersion for Three-Dimensional Seismic Structure Around SAFOD. Pure and Applied Geophysics, 2014, 171, 3013-3022.	1.9	38
123	Bridging the gap between life cycle inventory and impact assessment for toxicological assessments of pesticides used in crop production. Chemosphere, 2014, 100, 175-181.	8.2	34
124	Implementation of an adapted LCA framework to environmental assessment of a territory: important learning points from a French Mediterranean case study. Journal of Cleaner Production, 2014, 80, 17-29.	9.3	62
125	Seismic fault zone trapped noise. Journal of Geophysical Research: Solid Earth, 2014, 119, 5786-5799.	3.4	39
126	Underwater Acoustics. , 2014, , 157-212.		3



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127	Adapting the LCA framework to environmental assessment in land planning. International Journal of Life Cycle Assessment, 2013, 18, 1533-1548.	4.7	79
128	Current limits of life cycle assessment framework in evaluating environmental sustainability – case of two evolving biofuel technologies. Journal of Cleaner Production, 2013, 54, 215-228.	9.3	55
129	Estimating Water Consumption of Potential Natural Vegetation on Global Dry Lands: Building an LCA Framework for Green Water Flows. Environmental Science & Technology, 2013, 47, 12258-12265.	10.0	41
130	Near-surface study at the Valhall oil field from ambient noise surface wave tomography. Geophysical Journal International, 2013, 193, 1627-1643.	2.4	125
131	The Analysis of Long-Term Frequency and Damping Wandering in Buildings Using the Random Decrement Technique. Bulletin of the Seismological Society of America, 2013, 103, 236-246.	2.3	66
132	Double beamforming processing in a seismic prospecting context. Geophysics, 2013, 78, V101-V108.	2.6	25
133	Analyzing sound speed fluctuations in shallow water from group-velocity versus phase-velocity data representation. Journal of the Acoustical Society of America, 2013, 133, 1945-1952.	1.1	11
134	Helmholtz tomography of ambient noise surface wave data to estimate Scholte wave phase velocity at Valhall Life of the Field. Geophysics, 2013, 78, WA99-WA109.	2.6	33
135	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
136	Tracking of velocity variations at depth in the presence of surface velocity fluctuations. Geophysics, 2013, 78, U1-U8.	2.6	5
137	Experimental measurement of the acoustic sensitivity kernel. Journal of the Acoustical Society of America, 2013, 134, EL38-EL44.	1.1	10
138	Coherent processing of shipping noise for ocean monitoring. Journal of the Acoustical Society of America, 2013, 133, EL108-EL113.	1.1	33
139	Time-angle sensitivity kernels for sound-speed perturbations in a shallow ocean. Journal of the Acoustical Society of America, 2013, 134, 88-96.	1.1	11
140	Shallow-water acoustic tomography from angle measurements instead of travel-time measurements. Journal of the Acoustical Society of America, 2013, 134, EL373-EL379.	1.1	4
141	Teleseismic correlations of ambient seismic noise for deep global imaging of the Earth. Geophysical Journal International, 2013, 194, 844-848.	2.4	117
142	Acoustical tomography in the shallow water ocean: Dream or reality?. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
143	Azimuthal anisotropy at Valhall: The Helmholtz equation approach. Geophysical Research Letters, 2013, 40, 2636-2641.	4.0	27
144	The plumbing of Old Faithful Geyser revealed by hydrothermal tremor. Geophysical Research Letters, 2013, 40, 1989-1993.	4.0	67

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145	A passive inverse filter for Green's function retrieval. Journal of the Acoustical Society of America, 2012, 131, EL21-EL27.	1.1	48
146	Multiscale matched-field processing for noise-source localization in exploration geophysics. Geophysics, 2012, 77, KS33-KS41.	2.6	45
147	Instantaneous phase variation for seismic velocity monitoring from ambient noise at the exploration scale. Geophysics, 2012, 77, Q37-Q44.	2.6	8
148	Environmental assessment of a territory: An overview of existing tools and methods. Journal of Environmental Management, 2012, 112, 213-225.	7.8	151
149	Sensitivity kernel for surface scattering in a waveguide. Journal of the Acoustical Society of America, 2012, 131, 111-118.	1.1	10
150	Enhancing the emergence rate of coherent wavefronts from ocean ambient noise correlations using spatio-temporal filters. Journal of the Acoustical Society of America, 2012, 132, 883-893.	1.1	31
151	Anatomy of the high-frequency ambient seismic wave field at the TCDP borehole. Journal of Geophysical Research, 2012, 117, .	3.3	19
152	Triggering of tremors and slow slip event in Guerrero, Mexico, by the 2010 Mw 8.8 Maule, Chile, earthquake. Journal of Geophysical Research, 2012, 117, .	3.3	77
153	Double-Capon and double-MUSICAL for arrival separation and observable estimation in an acoustic waveguide. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	5
154	High-resolution shallow seismic tomography of a hydrothermal area: application to the Solfatara, Pozzuoli. Geophysical Journal International, 2012, 189, 1725-1733.	2.4	20
155	The San Andreas Fault revisited through seismic-noise and surface-wave tomography. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	32
156	Passive monitoring of anisotropy change associated with the Parkfield 2004 earthquake. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	30
157	Improving temporal resolution in ambient noise monitoring of seismic wave speed. Journal of Geophysical Research, 2011, 116, .	3.3	53
158	Ocean acoustic noise and passive coherent array processing. Comptes Rendus - Geoscience, 2011, 343, 533-547.	1.2	8
159	Reconstructing the Green's function through iteration of correlations. Comptes Rendus - Geoscience, 2011, 343, 623-632.	1.2	30
160	Passive elastography: shear-wave tomography from physiological-noise correlation in soft tissues. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1122-1126.	3.0	81
161	Elastic-wave identification and extraction through array processing: An experimental investigation at the laboratory scale. Journal of Applied Geophysics, 2011, 74, 81-88.	2.1	19
162	Source depopulation potential and surface-wave tomography using a crosscorrelation method in a scattering medium. Geophysics, 2011, 76, SA51-SA61.	2.6	7

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163	Locating hydrothermal acoustic sources at Old Faithful Geyser using Matched Field Processing. <i>Geophysical Journal International</i> , 2011, 187, 385-393.	2.4	65
164	Modal depth function estimation using time-frequency analysis. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 61-71.	1.1	45
165	Coherent backscattering enhancement in cavities. <i>Wave Motion</i> , 2011, 48, 214-222.	2.0	7
166	Travel-time tomography in shallow water: Experimental demonstration at an ultrasonic scale. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 1232-1241.	1.1	25
167	Localization of a small change in a multiple scattering environment without modeling of the actual medium. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 3566-3573.	1.1	6
168	Application of acoustic feedback to target detection in a waveguide: Experimental demonstration at the ultrasonic scale. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 13-19.	1.1	3
169	Coherent backscattering enhancement in cavities. Highlights of the role of symmetry. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 1963-1971.	1.1	3
170	Target detection and localization in shallow water: An experimental demonstration of the acoustic barrier problem at the laboratory scale. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 85-97.	1.1	25
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