

# Philippe Roux

## List of Publications by Year in descending order

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Version: 2024-02-01

254  
papers

11,391  
citations

29994

54  
h-index

37111

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, .  | 1.5 | 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.              | 0.5 | 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.   | 1.5 | 8         |
| 4  | Three-dimensional higher-order raypath separation in a shallow-water waveguide. <i>JASA Express Letters</i> , 2022, 2, 076001.  | 0.5 | 0         |
| 5  | Water supply scenarios of agricultural areas: Environmental performance through Territorial Life Cycle Assessment. <i>Journal of Cleaner Production</i> , 2022, 366, 132862.                                  | 4.6 | 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.                                      | 1.7 | 31        |
| 7  | Stick-Slip Tremor Beneath an Alpine Glacier. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090528.   | 1.5 | 15        |
| 8  | ELDAM: A Python software for Life Cycle Inventory data management. <i>Journal of Open Source Software</i> , 2021, 6, 2765.  | 2.0 | 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.                               | 1.6 | 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.                     | 0.8 | 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.                            | 0.5 | 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, .                 | 3.3 | 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.  | 1.8 | 24        |
| 15 | Ultra slow acoustic energy transport in dense fish aggregates. <i>Scientific Reports</i> , 2021, 11, 17541.   | 1.6 | 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.        | 4.6 | 24        |
| 17 | Slow dynamics process observed in civil engineering structures to detect structural heterogeneities. <i>Engineering Structures</i> , 2020, 202, 109833.   | 2.6 | 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. | 4.6 | 42        |

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|----|--|-----|-----------|
| 19 | Surface perturbation inverted from angle variations of eigenbeams in an ultrasonic waveguide. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 2841-2850.                                    | 0.5 | 1         |
| 20 | Phase-velocity inversion from data-based diffraction kernels: seismic Michelson interferometer. <i>Geophysical Journal International</i> , 2020, 224, 1287-1300.   | 1.0 | 2         |
| 21 | Characterization with dense array data of seismic sources in the shallow part of the San Jacinto fault zone. <i>Geophysical Journal International</i> , 2020, 224, 1133-1140.                                | 1.0 | 5         |
| 22 | Acoustic density estimation of dense fish shoals. <i>Journal of the Acoustical Society of America</i> , 2020, 148, EL234-EL239.  | 0.5 | 3         |
| 23 | Mesoscopic wave physics in fish shoals. <i>AIP Advances</i> , 2020, 10, .  | 0.6 | 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. <i>Cryosphere</i> , 2020, 14, 1139-1171.      | 1.5 | 20        |
| 25 | Localized modes on a metasurface through multiwave interactions. <i>Physical Review Materials</i> , 2020, 4, .   | 0.9 | 6         |
| 26 | Seismic, Ambient Noise Correlation. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-6.  | 0.1 | 0         |
| 27 | Messages in the Bubbles. <i>Eos</i> , 2020, 101, .   | 0.1 | 1         |
| 28 | Spatialized freshwater ecosystem life cycle impact assessment of water consumption based on instream habitat change modeling. <i>Water Research</i> , 2019, 163, 114884.                                     | 5.3 | 16        |
| 29 | Topological Effects of a Vorticity Filament on the Coherent Backscattering Cone. <i>Physical Review Letters</i> , 2019, 123, 035503.   | 2.9 | 2         |
| 30 | 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. | 1.4 | 16        |
| 31 | 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.              | 1.0 | 15        |
| 32 | Dynamic imaging of a capillary-gravity wave in shallow water using amplitude variations of eigenbeams. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 3353-3361.                           | 0.5 | 2         |
| 33 | Evidence of reactivation of a hydrothermal system from seismic anisotropy changes. <i>Nature Communications</i> , 2019, 10, 5278.  | 5.8 | 11        |
| 34 | Insight Into the Wave Scattering Properties of the Solfatara Volcano, Campi Flegrei, Italy. <i>Frontiers in Earth Science</i> , 2019, 7, .   | 0.8 | 4         |
| 35 | 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.             | 1.0 | 58        |
| 36 | The issue of considering water quality in life cycle assessment of water use. <i>International Journal of Life Cycle Assessment</i> , 2019, 24, 590-603.   | 2.2 | 8         |

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|----|--|-----|-----------|
| 37 | Effective impedance of a locally resonant metasurface. <i>Physical Review Materials</i> , 2019, 3, .   | 0.9 | 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.  | 2.6 | 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.   | 2.2 | 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.   | 2.6 | 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.   | 1.0 | 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.   | 4.6 | 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. | 2.2 | 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.  | 2.1 | 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.   | 5.3 | 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.  | 4.6 | 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.  | 0.9 | 19        |
| 48 | Toward Seismic Metamaterials: The METAFORÉT Project. <i>Seismological Research Letters</i> , 2018, 89, 582-593.  | 0.8 | 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.  | 0.5 | 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.  | 1.0 | 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.   | 2.6 | 10        |
| 54 | Anatomy of a fumarolic system inferred from a multiphysics approach. <i>Scientific Reports</i> , 2018, 8, 7580.  | 1.6 | 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.  | 0.5 | 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. | 1.0 | 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.                         | 4.4 | 23        |
| 58 | Active wideband higher-order raypath separation in multipath environment. <i>Journal of the Acoustical Society of America</i> , 2017, 141, EL38-EL44.   | 0.5 | 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.   | 2.3 | 152       |
| 60 | Coda reconstruction from cross-correlation of a diffuse field on thin elastic plates. <i>Physical Review E</i> , 2017, 96, 032137.  | 0.8 | 3         |
| 61 | Rayleigh phase velocities in Southern California from beamforming short-duration ambient noise. <i>Geophysical Journal International</i> , 2017, 211, 450-454.  | 1.0 | 19        |
| 62 | Enhanced sensing and conversion of ultrasonic Rayleigh waves by elastic metasurfaces. <i>Scientific Reports</i> , 2017, 7, 6750.  | 1.6 | 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.  | 1.0 | 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.  | 0.5 | 4         |
| 65 | Boron Dissolved and Particulate Atmospheric Inputs to a Forest Ecosystem (Northeastern France). <i>Environmental Science &amp; Technology</i> , 2017, 51, 14038-14046.  | 4.6 | 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.   | 0.5 | 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, .                                      | 0.8 | 43        |
| 69 | Using slowness and azimuth fluctuations as new observables for four-dimensional reservoir seismic monitoring. <i>Geophysical Prospecting</i> , 2016, 64, 1537-1555.   | 1.0 | 2         |
| 70 | Ambient noise correlations on a mobile, deformable array. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 4260-4270.   | 0.5 | 8         |
| 71 | On band gap predictions for multiresonant metamaterials on plates. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 1282-1284.  | 0.5 | 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.   | 0.5 | 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. | 1.0 | 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.  | 1.0 | 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.  | 0.8 | 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.  | 5.3 | 22        |
| 77 | Extraction of phase and group velocities from ambient surface noise in a patch-array configuration. <i>Geophysics</i> , 2016, 81, KS231-KS240.   | 1.4 | 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.            | 1.4 | 45        |
| 79 | Forests as a natural seismic metamaterial: Rayleigh wave bandgaps induced by local resonances. <i>Scientific Reports</i> , 2016, 6, 19238.   | 1.6 | 251       |
| 80 | Transformation seismology: composite soil lenses for steering surface elastic Rayleigh waves. <i>Scientific Reports</i> , 2016, 6, 25320.  | 1.6 | 36        |
| 81 | A seismic metamaterial: The resonant metawedge. <i>Scientific Reports</i> , 2016, 6, 27717.  | 1.6 | 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.   | 1.5 | 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.                                    | 4.6 | 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.                             | 2.2 | 28        |
| 85 | On the practical convergence of coda-based correlations: a window optimization approach. <i>Geophysical Journal International</i> , 2016, 204, 736-747.  | 1.0 | 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.   | 5.3 | 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.                              | 1.5 | 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.                                 | 1.4 | 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.   | 1.6 | 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.  | 0.8 | 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. | 1.7 | 25        |
| 94  | Using glacier seismicity for phase velocity measurements and Green's function retrieval. Geophysical Journal International, 2015, 201, 1722-1737.   | 1.0 | 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.   | 0.5 | 62        |
| 96  | Timelapse ultrasonic tomography for measuring damage localization in geomechanics laboratory tests. Journal of the Acoustical Society of America, 2015, 137, 1389-1400.   | 0.5 | 5         |
| 97  | Theory of multiresonant metamaterials for waves. Physical Review B, 2015, 91, .   | 1.1 | 68        |
| 98  | Influence of seismic anisotropy on the cross correlation tensor: numerical investigations. Geophysical Journal International, 2015, 201, 595-604.   | 1.0 | 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.   | 2.2 | 62        |
| 100 | Life cycle assessment of urban wastewater systems: Quantifying the relative contribution of sewer systems. Water Research, 2015, 77, 35-48.   | 5.3 | 91        |
| 101 | Body-wave reconstruction from ambient seismic noise correlations in an underground mine. Geophysics, 2015, 80, KS11-KS25.   | 1.4 | 59        |
| 102 | Super-resolution experiments on Lamb waves using a single emitter. Applied Physics Letters, 2015, 106, .  | 1.5 | 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.  | 0.8 | 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.   | 4.6 | 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.  | 4.6 | 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.  | 0.5 | 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.   | 0.5 | 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.  | 0.5 | 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, .  | 1.5 | 1         |
| 110 | Experimental Demonstration of Ordered and Disordered Multiresonant Metamaterials for Lamb Waves. Physical Review Letters, 2014, 112, 234301.  | 2.9 | 124       |
| 111 | On the temporal stability of the coda of ambient noise correlations. Comptes Rendus - Geoscience, 2014, 346, 307-316.   | 0.4 | 42        |
| 112 | Structural-change localization and monitoring through a perturbation-based inverse problem. Journal of the Acoustical Society of America, 2014, 136, 2586-2597.   | 0.5 | 25        |
| 113 | Monitoring fault zone environments with correlations of earthquake waveforms. Geophysical Journal International, 2014, 196, 1073-1081.  | 1.0 | 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.  | 1.4 | 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. | 4.6 | 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.  | 5.3 | 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.   | 1.8 | 69        |
| 118 | Sub-wavelength energy trapping of elastic waves in a metamaterial. Journal of the Acoustical Society of America, 2014, 136, EL192-EL198.  | 0.5 | 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.                    | 1.0 | 86        |
| 120 | Life cycle assessments of urban water systems: A comparative analysis of selected peer-reviewed literature. Water Research, 2014, 67, 187-202.  | 5.3 | 154       |
| 121 | Antipodal focusing of seismic waves observed with the USArray. Geophysical Journal International, 2014, 199, 1030-1042.   | 1.0 | 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.   | 0.8 | 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.   | 4.2 | 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.                        | 4.6 | 62        |
| 125 | Seismic fault zone trapped noise. Journal of Geophysical Research: Solid Earth, 2014, 119, 5786-5799.   | 1.4 | 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.   | 2.2 | 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.   | 4.6 | 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. | 4.6 | 41        |
| 130 | Near-surface study at the Valhall oil field from ambient noise surface wave tomography. Geophysical Journal International, 2013, 193, 1627-1643.  | 1.0 | 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.            | 1.1 | 66        |
| 132 | Double beamforming processing in a seismic prospecting context. Geophysics, 2013, 78, V101-V108.  | 1.4 | 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.        | 0.5 | 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.                               | 1.4 | 33        |
| 135 | Assessing Water Deprivation at the Sub-river Basin Scale in LCA Integrating Downstream Cascade Effects. Environmental Science & Technology, 2013, 47, 14242-14249.                            | 4.6 | 22        |
| 136 | Tracking of velocity variations at depth in the presence of surface velocity fluctuations. Geophysics, 2013, 78, U1-U8.   | 1.4 | 5         |
| 137 | Experimental measurement of the acoustic sensitivity kernel. Journal of the Acoustical Society of America, 2013, 134, EL38-EL44.  | 0.5 | 10        |
| 138 | Coherent processing of shipping noise for ocean monitoring. Journal of the Acoustical Society of America, 2013, 133, EL108-EL113.   | 0.5 | 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.  | 0.5 | 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.                          | 0.5 | 4         |
| 141 | Teleseismic correlations of ambient seismic noise for deep global imaging of the Earth. Geophysical Journal International, 2013, 194, 844-848.  | 1.0 | 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.  | 1.5 | 27        |
| 144 | The plumbing of Old Faithful Geyser revealed by hydrothermal tremor. Geophysical Research Letters, 2013, 40, 1989-1993.   | 1.5 | 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.  | 0.5 | 48        |
| 146 | Multiscale matched-field processing for noise-source localization in exploration geophysics. Geophysics, 2012, 77, KS33-KS41.   | 1.4 | 45        |
| 147 | Instantaneous phase variation for seismic velocity monitoring from ambient noise at the exploration scale. Geophysics, 2012, 77, Q37-Q44.   | 1.4 | 8         |
| 148 | Environmental assessment of a territory: An overview of existing tools and methods. Journal of Environmental Management, 2012, 112, 213-225.  | 3.8 | 151       |
| 149 | Sensitivity kernel for surface scattering in a waveguide. Journal of the Acoustical Society of America, 2012, 131, 111-118.   | 0.5 | 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.      | 0.5 | 31        |
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