

Olivier Coutant

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,654
citations

516710

16
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

1686
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards forecasting volcanic eruptions using seismic noise. <i>Nature Geoscience</i> , 2008, 1, 126-130.	12.9	535
2	Stability of monitoring weak changes in multiply scattering media with ambient noise correlation: Laboratory experiments. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 3688-3695.	1.1	204
3	Dynamic stress variations due to shear faults in a plane-layered medium. <i>Geophysical Journal International</i> , 1997, 128, 676-688.	2.4	139
4	Density muon radiography of La Soufrière of Guadeloupe volcano: comparison with geological, electrical resistivity and gravity data. <i>Geophysical Journal International</i> , 2012, 190, 1008-1019.	2.4	127
5	Redistribution of dynamic stress during coseismic ruptures: Evidence for fault interaction and earthquake triggering. <i>Journal of Geophysical Research</i> , 1999, 104, 14925-14945.	3.3	102
6	Microseismicity and strain pattern in northwestern Greece. <i>Tectonics</i> , 1995, 14, 773-785.	2.8	89
7	The M5.3 Gapagny (French Alps) earthquake of 1996 July 15: a long-awaited event on the Vuache Fault. <i>Geophysical Journal International</i> , 1998, 135, 876-892.	2.4	69
8	The existence of an inner core super-rotation questioned by teleseismic doublets. <i>Physics of the Earth and Planetary Interiors</i> , 2000, 118, 77-88.	1.9	62
9	Numerical study of the diffraction of elastic waves by fluid-filled cracks. <i>Journal of Geophysical Research</i> , 1989, 94, 17805-17818.	3.3	43
10	Mapping upper mantle anisotropy beneath SE France by SKS splitting indicates Neogene asthenospheric flow induced by Apenninic slab roll-back and deflected by the deep Alpine roots. <i>Tectonophysics</i> , 2004, 394, 125-138.	2.2	43
11	Joint inversion of P -wave velocity and density, application to La Soufrière of Guadeloupe hydrothermal system. <i>Geophysical Journal International</i> , 2012, 191, 723-742.	2.4	31
12	Numerical simulation of the propagation of P waves in fractured media. <i>Geophysical Journal International</i> , 1999, 137, 197-206.	2.4	27
13	Measuring surface wave phase velocities beneath small broad-band arrays: tests of an improved algorithm and application to the French Alps. <i>Geophysical Journal International</i> , 2003, 154, 903-912.	2.4	25
14	Seismic response of three-dimensional topographies using a time-domain boundary element method. <i>Geophysical Journal International</i> , 2000, 142, 603-614.	2.4	23
15	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
16	Fabry-Perot optical fiber strainmeter with an embeddable, low-power interrogation system. <i>Optica</i> , 2015, 2, 400.	9.3	19
17	Anisotropic scattering and travel time delay analysis in Kilauea volcano, Hawaii, earthquake coda waves. <i>Journal of Geophysical Research</i> , 1997, 102, 8397-8410.	3.3	16
18	Mass and heat flux balance of La Soufrière volcano (Guadeloupe) from aerial infrared thermal imaging. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 320, 107-116.	2.1	16

#	ARTICLE	IF	CITATIONS
19	3-D linear inversion of gravity data: method and application to Basse-Terre volcanic island, Guadeloupe, Lesser Antilles. <i>Geophysical Journal International</i> , 2016, 205, 562-574.	2.4	16
20	SWIFTS: a groundbreaking integrated technology for high-performance spectroscopy and optical sensors. <i>Proceedings of SPIE</i> , 2013, , .	0.8	15
21	High resolution seismic tomography of a Strombolian volcanic cone. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	10
22	Sub-surface structure of La Soufrière of Guadeloupe lava dome deduced from a ground-based magnetic survey. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 321, 171-181.	2.1	8
23	Moment Tensor Inversion of Regional Phases: Application to a Mine Collapse. , 2002, 159, 111-130.		5
24	Inversion of potential fields on nodes for large grids. <i>Journal of Applied Geophysics</i> , 2014, 110, 90-97.	2.1	5
25	The High-Resolution Imaging (HRI) Portable Array: A Seismic (and Internet) Network Dedicated to Kilometric-scale Seismic Imaging. <i>Seismological Research Letters</i> , 2008, 79, 47-54.	1.9	4
26	Magnetic structure of Basse-Terre volcanic island (Guadeloupe, Lesser Antilles) inferred from 3D inversion of aeromagnetic data. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 348, 1-11.	2.1	1