

Sebastien Chevrot

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5510230/sebastien-chevrot-publications-by-year.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84 papers	2,852 citations	31 h-index	51 g-index
88 ext. papers	3,164 ext. citations	3.3 avg, IF	5.28 L-index

#	Paper	IF	Citations
84	Passive imaging of collisional orogens: a review of a decade of geophysical studies in the Pyrenees. <i>Bulletin - Soci�t� Geologique De France</i> , 2022 , 193, 1	2.3	1
83	Upper lithospheric transfer zones driving the non-cylindricity of the West-Pyrenean orogenic prism (Maul�n hyperextended basin). <i>Journal of Structural Geology</i> , 2022 , 156, 104535	3	0
82	Geodynamic evolution of a wide plate boundary in the Western Mediterranean, near-field versus far-field interactions. <i>Bulletin - Soci�t� Geologique De France</i> , 2021 , 192, 48	2.3	4
81	Upper mantle structure under the Zagros collision zone; insights from 3D teleseismic P-wave tomography. <i>Tectonophysics</i> , 2021 , 819, 229106	3.1	0
80	Mantle dynamics in the SE Tibetan Plateau revealed by teleseismic shear-wave splitting analysis. <i>Physics of the Earth and Planetary Interiors</i> , 2021 , 313, 106687	2.3	2
79	Seismicity patterns in southwestern France. <i>Comptes Rendus - Geoscience</i> , 2021 , 353, 1-26	1.4	3
78	Three-dimensional gravity anomaly data inversion in the Pyrenees using compressional seismic velocity model as structural similarity constraints. <i>Geophysical Journal International</i> , 2021 , 225, 1063-1085	2.6	6
77	Eikonal Tomography Using Coherent Surface Waves Extracted From Ambient Noise by Iterative Matched Filtering: Application to the Large-N Maupasacq Array. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB019363	3.6	4
76	On the validity of the planar wave approximation to compute synthetic seismograms of teleseismic body waves in a 3-D regional model. <i>Geophysical Journal International</i> , 2020 , 224, 2060-2076	2.6	4
75	Seismic imaging of a mid-crustal low-velocity layer beneath the northern coast of the South China Sea and its tectonic implications. <i>Physics of the Earth and Planetary Interiors</i> , 2020 , 308, 106573	2.3	6
74	On the validity of the eikonal equation for surface-wave phase-velocity tomography. <i>Geophysical Journal International</i> , 2020 , 223, 908-914	2.6	3
73	Probing depth and lateral variations of upper-mantle seismic anisotropy from full-waveform inversion of teleseismic body-waves. <i>Geophysical Journal International</i> , 2020 , 222, 352-387	2.6	9
72	Crustal-scale balanced cross-section and restorations of the Central Pyrenean belt (Nestes-Cinca transect): Highlighting the structural control of Variscan belt and Permian-Mesozoic rift systems on mountain building. <i>Tectonophysics</i> , 2019 , 764, 25-45	3.1	39
71	Deep structure of Pyrenees range (SW Europe) imaged by joint inversion of gravity and teleseismic delay time. <i>Geophysical Journal International</i> , 2018 , 214, 282-301	2.6	6
70	Absolute earthquake locations using 3-D versus 1-D velocity models below a local seismic network: example from the Pyrenees. <i>Geophysical Journal International</i> , 2018 , 212, 1806-1828	2.6	15
69	A three-dimensional model of the Pyrenees and their foreland basins from geological and gravimetric data. <i>Tectonophysics</i> , 2018 , 734-735, 16-32	3.1	21
68	Mapping the crustal structure beneath the eastern Pyrenees. <i>Tectonophysics</i> , 2018 , 744, 296-309	3.1	17

67	Broadband, short-period or geophone nodes? Quality assessment of Passive Seismic signals acquired during the Maupasacq experiment. <i>First Break</i> , 2018 , 36, 71-76	0.5	10
66	The non-cylindrical crustal architecture of the Pyrenees. <i>Scientific Reports</i> , 2018 , 8, 9591	4.9	57
65	Upper-mantle deformation beneath the Pyrenean domain inferred from SKS splitting in northern Spain and southern France. <i>Geophysical Journal International</i> , 2017 , 210, 898-910	2.6	4
64	A high-order 3-D spectral-element method for the forward modelling and inversion of gravimetric data Application to the western Pyrenees. <i>Geophysical Journal International</i> , 2017 , ggx010	2.6	1
63	The deep roots of the western Pyrenees revealed by full waveform inversion of teleseismic P waves. <i>Geology</i> , 2016 , 44, 475-478	5	80
62	Three-dimensional full waveform inversion of short-period teleseismic wavefields based upon the SEMDSM hybrid method. <i>Geophysical Journal International</i> , 2015 , 202, 811-827	2.6	48
61	Subduction and volcanism in the Iberia-North Africa collision zone from tomographic images of the upper mantle. <i>Tectonophysics</i> , 2015 , 663, 238-249	3.1	40
60	Observation of deep water microseisms in the North Atlantic Ocean using tide modulations. <i>Geophysical Research Letters</i> , 2015 , 42, 316-322	4.9	17
59	USArray shear wave splitting shows seismic anisotropy from both lithosphere and asthenosphere. <i>Geology</i> , 2015 , 43, 667-670	5	11
58	SI-Hex: a new catalogue of instrumental seismicity for metropolitan France. <i>Bulletin - Societe Geologique De France</i> , 2015 , 186, 3-19	2.3	61
57	The Pyrenean architecture as revealed by teleseismic P-to-S converted waves recorded along two dense transects. <i>Geophysical Journal International</i> , 2015 , 200, 1094-1105	2.6	45
56	High-resolution imaging of the Pyrenees and Massif Central from the data of the PYROPE and IBERARRAY portable array deployments. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 6399-6420	2.6	72
55	Ambient noise tomography of the Pyrenees and the surrounding regions: inversion for a 3-D Vs model in the presence of a very heterogeneous crust. <i>Geophysical Journal International</i> , 2014 , 199, 402-415	2.6	27
54	A Nonlinear Method to Estimate Source Parameters, Amplitude, and Travel Times of Teleseismic Body Waves. <i>Bulletin of the Seismological Society of America</i> , 2013 , 103, 268-282	2.3	6
53	A hybrid method to compute short-period synthetic seismograms of teleseismic body waves in a 3-D regional model. <i>Geophysical Journal International</i> , 2013 , 192, 230-247	2.6	56
52	Finite-frequency structural sensitivities of short-period compressional body waves. <i>Geophysical Journal International</i> , 2012 , 190, 522-540	2.6	16
51	Numerical modelling of the upper-mantle anisotropy beneath a migrating strike-slip plate boundary: the San Andreas Fault system. <i>Geophysical Journal International</i> , 2012 , 191, 436-458	2.6	14
50	Erratum to 'Very Preliminary Reference Moon Model' by R.F. Garcia, J. Gagnepain-Beyneix, S. Chevrot, P. Lognonné [Phys. Earth Planet. Inter. 188 (2011) 96-113]. <i>Physics of the Earth and Planetary Interiors</i> , 2012 , 202-203, 89-91	2.3	26

49	Optimized discrete wavelet transforms in the cubed sphere with the lifting schemeImplications for global finite-frequency tomography. <i>Geophysical Journal International</i> , 2012 , no-no	2.6	5
48	Very preliminary reference Moon model. <i>Physics of the Earth and Planetary Interiors</i> , 2011 , 188, 96-113	2.3	172
47	An efficient and flexible approach to the calculation of three-dimensional full-wave Fréchet kernels for seismic tomography-I. Theory. <i>Geophysical Journal International</i> , 2011 , 185, 922-938	2.6	19
46	An efficient and flexible approach to the calculation of three-dimensional full-wave Fréchet kernels for seismic tomography-II. Numerical results. <i>Geophysical Journal International</i> , 2011 , 185, 939-954	2.6	16
45	High-resolution imaging of the deep anisotropic structure of the San Andreas Fault system beneath southern California. <i>Geophysical Journal International</i> , 2011 , 186, 418-446	2.6	31
44	A preliminary catalog of moment tensors for the Pyrenees. <i>Tectonophysics</i> , 2011 , 510, 239-251	3.1	50
43	How to make robust splitting measurements for single-station analysis and three-dimensional imaging of seismic anisotropy. <i>Geophysical Journal International</i> , 2010 , no-no	2.6	9
42	SHdiff-SVdiff splitting in an isotropic Earth. <i>Journal of Geophysical Research</i> , 2010 , 115,		26
41	Statistical study of seismic heterogeneities at the base of the mantle from PKP differential traveltimes. <i>Geophysical Journal International</i> , 2009 , 179, 1607-1616	2.6	11
40	Principles of vectorial tomography???the effects of model parametrization and regularization in tomographic imaging of seismic anisotropy. <i>Geophysical Journal International</i> , 2009 , 179, 1726-1736	2.6	11
39	A new tomographic image of the Pyrenean lithosphere from teleseismic data. <i>Tectonophysics</i> , 2008 , 460, 206-214	3.1	43
38	Simultaneous Inversion of Source Spectra, Attenuation Parameters, and Site Responses: Application to the Data of the French Accelerometric Network. <i>Bulletin of the Seismological Society of America</i> , 2008 , 98, 198-219	2.3	50
37	A systematic study of source time functions and moment tensors of intermediate and deep earthquakes. <i>Journal of Geophysical Research</i> , 2007 , 112,		18
36	Source locations of secondary microseisms in western Europe: Evidence for both coastal and pelagic sources. <i>Journal of Geophysical Research</i> , 2007 , 112,		59
35	Multiscale finite-frequency Rayleigh wave tomography of the Kaapvaal craton. <i>Geophysical Journal International</i> , 2007 , 169, 201-215	2.6	80
34	Differences between Archean and Proterozoic lithospheres: Assessment of the possible major role of thermal conductivity. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	26
33	Statistical properties of seismic anisotropy predicted by upper mantle geodynamic models. <i>Journal of Geophysical Research</i> , 2006 , 111,		114
32	P-wave propagation in transversely isotropic media. <i>Physics of the Earth and Planetary Interiors</i> , 2006 , 156, 12-20	2.3	17

31	P-wave propagation in transversely isotropic media: II. Application to inner core anisotropy: Effects of data averaging, parametrization and a priori information. <i>Physics of the Earth and Planetary Interiors</i> , 2006 , 156, 21-40	2.3	28
30	A new global PKP data set to study Earth's core and deep mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2006 , 159, 15-31	2.3	34
29	Finite-frequency vectorial tomography: a new method for high-resolution imaging of upper mantle anisotropy. <i>Geophysical Journal International</i> , 2006 , 165, 641-657	2.6	59
28	Traveltime sensitivity kernels for PKP phases in the mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2005 , 153, 21-31	2.3	13
27	Analysis of the 2002 May earthquake sequence in the central Pyrenees, consequences for the evaluation of the seismic risk at Lourdes, France. <i>Geophysical Journal International</i> , 2004 , 156, 527-540	2.6	20
26	Decomposition of the elastic tensor and geophysical applications. <i>Geophysical Journal International</i> , 2004 , 159, 667-678	2.6	131
25	Shear wave splitting in three-dimensional anisotropic media. <i>Geophysical Journal International</i> , 2004 , 159, 711-720	2.6	54
24	Nonlinear waveform and delay time analysis of triplicated core phases. <i>Journal of Geophysical Research</i> , 2004 , 109,		19
23	On the effects of a dipping axis of symmetry on shear wave splitting measurements in a transversely isotropic medium. <i>Geophysical Journal International</i> , 2003 , 152, 497-505	2.6	36
22	Sensitivity kernels for shear wave splitting in transverse isotropic media. <i>Geophysical Journal International</i> , 2003 , 153, 213-228	2.6	78
21	Is there any structure inside the liquid outer core?. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	28
20	SS-wave sensitivity to upper mantle structure: Implications for the mapping of transition zone discontinuity topographies. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	24
19	Correlation between the shear-speed structure and thickness of the mantle transition zone. <i>Physics of the Earth and Planetary Interiors</i> , 2003 , 136, 25-40	2.3	32
18	Optimal measurement of relative and absolute delay times by simulated annealing. <i>Geophysical Journal International</i> , 2002 , 151, 164-171	2.6	43
17	Seismic evidence for olivine phase changes at the 410- and 660-kilometer discontinuities. <i>Science</i> , 2002 , 296, 1300-2	33.3	83
16	The 660-km discontinuity within the subducting NW-Pacific lithospheric slab. <i>Earth and Planetary Science Letters</i> , 2002 , 205, 25-35	5.3	23
15	Crustal thickness, discontinuity depth, and upper mantle structure beneath southern Africa: constraints from body wave conversions. <i>Physics of the Earth and Planetary Interiors</i> , 2002 , 130, 235-251	2.3	50
14	A waveform migration for the investigation of P wave structure at the top of D? beneath northern Siberia. <i>Journal of Geophysical Research</i> , 2001 , 106, 4129-4140		15

13	On the detection and identification of converted and reflected phases from receiver functions. <i>Geophysical Journal International</i> , 2000 , 141, 801-808	2.6	24
12	The Poisson ratio of the Australian crust: geological and geophysical implications. <i>Earth and Planetary Science Letters</i> , 2000 , 183, 121-132	5.3	159
11	Multichannel analysis of shear wave splitting. <i>Journal of Geophysical Research</i> , 2000 , 105, 21579-21590		105
10	Teleseismic travel time residuals in North America and anelasticity of the asthenosphere. <i>Physics of the Earth and Planetary Interiors</i> , 1999 , 116, 93-103	2.3	21
9	The Snake River Plain Experiment revisited. Relationships between a Farallon plate fragment and the transition zone. <i>Geophysical Research Letters</i> , 1999 , 26, 2673-2676	4.9	8
8	Global-scale analysis of the mantle Pds phases. <i>Journal of Geophysical Research</i> , 1999 , 104, 20203-20219		142
7	The spectrum of tomographic earth models. <i>Geophysical Journal International</i> , 1998 , 133, 783-788	2.6	30
6	Seismic evidence of flow at the base of the upper mantle. <i>Geophysical Research Letters</i> , 1998 , 25, 1995-1998	4.9	42
5	Evidence for a stagnant plume in the transition zone?. <i>Geophysical Research Letters</i> , 1997 , 24, 1007-1010	4.9	44
4	Source spectra and site-response estimates using the Coda of Lg waves in western Europe. <i>Geophysical Research Letters</i> , 1996 , 23, 1605-1608	4.9	4
3	The role of inheritance in forming rifts and rifted margins and building collisional orogens: a Biscay-Pyrenean perspective. <i>Bulletin - Societe Geologique De France</i> ,	2.3	5
2	Cenozoic mountain building and topographic evolution in Western Europe: impact of billion years lithosphere evolution and plate tectonics. <i>Bulletin - Societe Geologique De France</i> ,	2.3	4
1	Three-dimensional shear velocity structure of the Mauleon and Arzacq basins (Western Pyrenees). <i>Bulletin - Societe Geologique De France</i> ,	2.3	4