Gilles Grandjean

List of Publications by Year
in descending order

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71 papers	2,364 citations	218677 26 h-index	214800 47 g-index
74 all docs	74 docs citations	74 times ranked	2448 citing authors

#	Article	IF	Citations
1	Hydromechanical assessment of a complex landslide through geophysics and numerical modeling: Toward an upgrade for the Villerville landslide (Normandy, France). Engineering Geology, 2022, 297, 106516.	6.3	3
2	Topography Curvature Effects in Thinâ€Layer Models for Gravityâ€Driven Flows Without Bed Erosion. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005657.	2.8	13
3	Modelling landslide hazards under global changes: the case of a Pyrenean valley. Natural Hazards and Earth System Sciences, 2021, 21, 147-169.	3.6	17
4	Deterministic and probabilistic analyses of the 3D response of masonry buildings to imposed settlement troughs. Georisk, 2020, 14, 260-279.	3.5	7
5	Hydrogeological assessment of a deep-seated coastal landslide based on a multi-disciplinary approach. Geomorphology, 2020, 371, 107440.	2.6	5
6	Operational Estimation of Landslide Runout: Comparison of Empirical and Numerical Methods. Geosciences (Switzerland), 2020, 10, 424.	2.2	11
7	Improvement of landslide hazard assessments for regulatory zoning in France: STATEâ€“OFâ€“THE-ART perspectives and considerations. International Journal of Disaster Risk Reduction, 2020, 47, 101562.	3.9	29
8	Montmorillonite Estimation in Clayâ€“Quartzâ€“Calcite Samples from Laboratory SWIR Imaging Spectroscopy: A Comparative Study of Spectral Preprocessings and Unmixing Methods. Remote Sensing, 2020, 12, 1723.	4.0	9
9	Clay Minerals Mapping from Imaging Spectroscopy. , 2019, , .		3
10	Landslide databases in the Geological Surveys of Europe. Landslides, 2018, 15, 359-379.	5.4	85
11	A Novel Multi-Risk Assessment Web-Tool for Evaluating Future Impacts of Global Change in Mountainous Areas. Climate, 2018, 6, 92.	2.8	7
12	Spatio-temporal evolution of rockfall activity from 2007 to 2011 at the Piton de la Fournaise volcano inferred from seismic data. Journal of Volcanology and Geothermal Research, 2017, 333-334, 36-52.	2.1	27
13	Integration of Geohazards into Urban and Land-Use Planning. Towards a Landslide Directive. The EuroGeoSurveys Questionnaire. , 2017, , 1067-1072.		2
14	Downscaling scenarios of future land use and land cover changes using a participatory approach: an application to mountain risk assessment in the Pyrenees (France). Regional Environmental Change, 2017, 17, 2293-2307.	2.9	25
15	4. Diffractions Observed on Seismic Data. , 2016, , 499-653.		0
16	Targeting and mapping expansive soils (Loiret, France): geometrical analysis of laboratory soil spectra in the short-wave infrared domain (1100â€“2500 nm). Bulletin - Societie Geologique De France, 2016, 187, 169-181.	2.2	4
17	Electrical and thermal behavior of unsaturated soils: experimental results. Journal of Applied Geophysics, 2016, 128, 115-122.	2.1	21
18	Improved estimation of soil clay content by the fusion of remote hyperspectral and proximal geophysical sensing. Journal of Applied Geophysics, 2015, 116, 135-145.	2.1	29

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19	The application of an innovative inverse model for understanding and predicting landslide movements (Salazie cirque landslides, Reunion Island). Landslides, 2014, 11, 343-355.	5.4	30
20	Airborne and ground-based data sources for characterizing the morpho-structure of a coastal landslide. Geomorphology, 2014, 217, 140-151.	2.6	24
21	A GIS-based Vehicle Mobility Estimator for Operational Contexts. Transactions in GIS, 2013, 17, 78-95.	2.3	4
22	Digital Soil Mapping: Approaches to Integrate Sensing Techniques to the Prediction of Key Soil Properties. Vadose Zone Journal, 2013, 12, 1-4.	2.2	7
23	Characterization of a landslide geometry using 3D seismic refraction traveltime tomography: The La Valette landslide case history. Journal of Applied Geophysics, 2012, 86, 120-132.	2.1	28
24	Quasi-Newton inversion of seismic first arrivals using source finite bandwidth assumption: Application to subsurface characterization of landslides. Journal of Applied Geophysics, 2012, 87, 94-106.	2.1	23
25	Combining seismic and electric methods for predicting bedrock depth along a Mediterranean soil toposequence. Geoderma, 2012, 170, 39-47.	5.1	23
26	Assessment of vulnerability to erosion: Digital mapping of a loess cover thickness and stiffness using spectral analysis of seismic surface-waves. Geoderma, 2012, 173-174, 162-172.	5.1	4
27	A multiâ€method geophysical approach based on fuzzy logic for an integrated interpretation of landslides: application to the French Alps. Near Surface Geophysics, 2012, 10, 601-611.	1.2	2
28	Characterizing landslides through geophysical data fusion: Example of the La Valette landslide (France). Engineering Geology, 2012, 128, 23-29.	6.3	67
29	Hydrological response of weathered clayâ€shale slopes: water infiltration monitoring with timeâ€lapse electrical resistivity tomography. Hydrological Processes, 2012, 26, 2106-2119.	2.6	87
30	Characterisation of a landslide fissure pattern by integrating seismic azimuth tomography and geotechnical testing. Hydrological Processes, 2012, 26, 2120-2127.	2.6	9
31	Slope instabilities in Dolomieu crater, RÃ©union Island: From seismic signals to rockfall characteristics. Journal of Geophysical Research, 2011, 116, .	3.3	137
32	Shallow-structure characterization by 2D elastic full-waveform inversion. Geophysics, 2011, 76, R81-R93.	2.6	98
33	Age of river basins in Guadeloupe impacting chemical weathering rates and land use. Applied Geochemistry, 2011, 26, S123-S126.	3.0	7
34	Structural study of the Ballandaz landslide (French Alps) using geophysical imagery. Journal of Applied Geophysics, 2011, 75, 531-542.	2.1	47
35	Vers un modÃ¨le hydrologique simplifiÃ© pour les Ã©tudes gÃ©omÃ©caniques spatialisÃ©es. Houille Blanche, 2010, 96, 53-57.	0.3	0
36	Response to: â€œA modified reconstruction algorithm for Fresnel volume tomographyâ€•by J. Zhang (Letter to the Editor). Computers and Geosciences, 2009, 35, 2368.	4.2	0

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37	Monitoring water flow in a clay-shale hillslope from geophysical data fusion based on a fuzzy logic approach. Comptes Rendus - Geoscience, 2009, 341, 937-948.	1.2	21
38	The ECORS system: A mobility decision-making tool based on Earth observation data. , 2009, , .		1
39	Inversion Of Surface Waves In Complex Structures. , 2008, , .		2
40	Geophysical data fusion by fuzzy logic for imaging the mechanical behaviour of mudslides. Bulletin - Societie Geologique De France, 2007, 178, 127-136.	2.2	33
41	Two-dimensional elastic full waveform inversion using Born and Rytov formulations in the frequency domain. Geophysical Journal International, 2007, 168, 605-633.	2.4	100
42	CaractÃ©risation de la structure interne et de l'Ã©tat hydrique de glissements argilo-marneux par tomographie gÃ©ophysique : l'exemple du glissement-coulÃ©e de Super-Sauze (Alpes du Sud, France). Comptes Rendus - Geoscience, 2006, 338, 587-595.	1.2	39
43	Imaging subsurface objects by seismic Pâ€wave tomography: numerical and experimental validations. Near Surface Geophysics, 2006, 4, 279-287.	1.2	20
44	A seismic multi-approach method for characterizing contaminated sites. Journal of Applied Geophysics, 2006, 58, 87-98.	2.1	15
45	Surface and subsurface structural mapping using low frequency radar: A synthesis of the Mauritanian and Egyptian experiments. Journal of African Earth Sciences, 2006, 44, 220-228.	2.0	10
46	Surface-wave Inversion Limitations from Laser-Doppler Physical Modeling. Journal of Environmental and Engineering Geophysics, 2005, 10, 151-162.	0.5	60
47	Numerical Modeling of Surface Waves Over Shallow Cavities. Journal of Environmental and Engineering Geophysics, 2005, 10, 111-121.	0.5	64
48	Apport de l'imagerie satellitaire radar pour l'exploration gÃ©ologique en zones arides. Comptes Rendus - Geoscience, 2005, 337, 719-728.	1.2	18
49	JaTS: a fully portable seismic tomography software based on Fresnel wavepaths and a probabilistic reconstruction approach. Computers and Geosciences, 2004, 30, 925-935.	4.2	26
50	A Volume Scattering Model for Coupled Interpretation of Ground-Penetrating Radar (GPR) and Synthetic Aperture Radar (SAR). Subsurface Sensing Technologies and Applications, 2004, 5, 151-164.	0.9	4
51	The potential of seismic methods for detecting cavities and buried objects: experimentation at a test site. Journal of Applied Geophysics, 2004, 56, 93-106.	2.1	102
52	A phase signature for detecting wet subsurface structures using polarimetric L-band SAR. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1683-1694.	6.3	29
53	Subsurface imaging in south-central egypt using low-frequency radar: bir safsaf revisited. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 1672-1684.	6.3	62
54	<title>Searching out mammoth remains in permafrost (Taimyr, Siberia) using ground-penetrating radar</title>. , 2002, , .		2

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55	<title>Water detection in the Martian subsurface</title>. , 2002, , .		1
56	<title>Subsurface imaging with low-frequency SAR field validation in France and Egypt using ground-penetrating radar</title>. , 2002, 4758, 217.		3
57	Performances of ground penetrating radars in arid volcanic regions: Consequences for Mars subsurface exploration. Geophysical Research Letters, 2001, 28, 911-914.	4.0	22
58	Subsurface structures detection by combining L-band polarimetric SAR and GPR data: example of the Pyla Dune (France). IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 1245-1258.	6.3	46
59	Refraction/wide-angle reflection investigation of the Cadomian crust between northern Brittany and the Channel Islands. Tectonophysics, 2001, 331, 45-64.	2.2	12
60	On Water Detection in the Martian Subsurface Using Sounding Radar. Icarus, 2001, 154, 244-257.	2.5	66
61	Evaluation of GPR techniques for civil-engineering applications: study on a test site. Journal of Applied Geophysics, 2000, 45, 141-156.	2.1	99
62	Meso-Cenozoic geodynamic evolution of the Paris Basin: 3D stratigraphic constraints. Geodinamica Acta, 2000, 13, 189-245.	2.2	119
63	Relationship between profile length and roughness variables for natural surfaces. International Journal of Remote Sensing, 2000, 21, 3375-3381.	2.9	54
64	Evolution tectonique mÃƒÂ©so-cÃƒÂ©nozoÃƒÂ¯que du bassin de Paris: contraintes stratigraphiques 3D. Geodinamica Acta, 2000, 13, 189-245.	2.2	160
65	Thermo-mechanical approach to validation of deep crustal and lithospheric structures inferred from multidisciplinary data: application to the Western and Northern Alps. Terra Nova, 1999, 11, 124-131.	2.1	28
66	Radar Unix: a complete package for GPR data processing. Computers and Geosciences, 1999, 25, 141-149.	4.2	14
67	Frequencyâ€“wavenumber modelling and migration of 2D GPR data in moderately heterogeneous dispersive media. Geophysical Prospecting, 1998, 46, 287-301.	1.9	47
68	GPR data processing for 3D fracture mapping in a marble quarry (Thassos, Greece). Journal of Applied Geophysics, 1996, 36, 19-30.	2.1	126
69	Integrated geophysical interpretation of crustal structures in the northern Abitibi belt: constraints from seismic amplitude analysis. Canadian Journal of Earth Sciences, 1996, 33, 1343-1362.	1.3	10
70	Crustal velocity models for the Archean Abitibi greenstone belt from seismic refraction data. Canadian Journal of Earth Sciences, 1995, 32, 149-166.	1.3	30
71	Migray: A C program for ray-tracing migration. Computers and Geosciences, 1993, 19, 601-611.	4.2	1