Jean-Philippe Malet

List of Publications by Year
in descending order

127 papers	6,785 citations	46984 47 h-index	66879 78 g-index
170 all docs	170 docs citations	170 times ranked	5611 citing authors

#	Article	IF	Citations
1	Landslide kinematics inferred from in situ measurements: the Cliets rock-slide (Savoie, French Alps). Landslides, 2022, 19, 19-34.	2.7	2
2	Terrain deformation measurements from optical satellite imagery: The MPIC-OPT processing services for geohazards monitoring. Remote Sensing of Environment, 2022, 274, 112949.	4.6	13
3	Runout modelling and hazard assessment of Tangni debris flow in Garhwal Himalayas, India. Environmental Earth Sciences, 2021, 80, 1.	1.3	9
4	When image correlation is needed: Unravelling the complex dynamics of a slow-moving landslide in the tropics with dense radar and optical time series. Remote Sensing of Environment, 2021, 258, 112402.	4.6	26
5	Landslide Information System for Disaster Risk Financing: Earth Observation and Modelling Products for Near-Real- Time Assessment. , 2021, , .		1
6	Terrain Deformation Measurements from Optical Satellite Imagery: On-Line Processing Services for Geohazards Monitoring. , 2021, , .		2
7	National-scale landslide susceptibility map of Romania in a European methodological framework. Geomorphology, 2020, 371, 107432.	1.1	41
8	Exploration of continuous seismic recordings with a machine learning approach to document 20‰yr of landslide activity in Alaska. Geophysical Journal International, 2019, 219, 1138-1147.	1.0	30
9	Spatial Patterns of Storm‐Induced Landslides and Their Relation to Rainfall Anomaly Maps. Geophysical Research Letters, 2019, 46, 11167-11177.	1.5	24
10	Structure of the Séchilienne unstable slope from large-scale three-dimensional electrical tomography using a Resistivity Distributed Automated System (R-DAS). Geophysical Journal International, 2019, 219, 129-147.	1.0	13
11	Pan-European landslide susceptibility mapping: ELSUS Version 2. Journal of Maps, 2018, 14, 97-104.	1.0	63
12	Rheological properties of clayey soils originating from flow-like landslides. Landslides, 2018, 15, 1615-1630.	2.7	33
13	Optimizing landslide susceptibility zonation: Effects of DEM spatial resolution and slope unit delineation on logistic regression models. Geomorphology, 2018, 301, 10-20.	1.1	130
14	Towards a standard typology of endogenous landslide seismic sources. Earth Surface Dynamics, 2018, 6, 1059-1088.	1.0	35
15	Initial insights from a global database of rainfall-induced landslide inventories: the weak influence of slope and strong influence of total storm rainfall. Earth Surface Dynamics, 2018, 6, 903-922.	1.0	73
16	Pros and Cons of Structure for Motion Embarked on a Vehicle to Survey Slopes along Transportation Lines Using 3D Georeferenced and Coloured Point Clouds. Remote Sensing, 2018, 10, 1732.	1.8	5
17	Improved Co-Registration of Sentinel-2 and Landsat-8 Imagery for Earth Surface Motion Measurements. Remote Sensing, 2018, 10, 160.	1.8	65
18	A Method for Automatic and Rapid Mapping of Water Surfaces from Sentinel-1 Imagery. Remote Sensing, 2018, 10, 217.	1.8	157

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19	Complex-conductivity imaging for the understanding of landslide architecture. Engineering Geology, 2018, 243, 241-252.	2.9	35
20	Automatic approach for increasing the location accuracy of slow-moving landslide endogenous seismicity: the APOLoc method. Geophysical Journal International, 2018, 215, 1455-1473.	1.0	5
21	Spatial distribution and quantification of sediment storages in a â€œshiny schistsâ€•catchment: The Peynin catchment (Queyras, Southern French Alps). Geomorphologie Relief, Processus, Environnement, 2018, 24, 59-76.	0.7	3
22	Long-term monitoring of a large deep-seated landslide (La Clapiere, South-East French Alps): initial study. Landslides, 2017, 14, 155-170.	2.7	43
23	Automatic identification of rockfalls and volcano-tectonic earthquakes at the Piton de la Fournaise volcano using a Random Forest algorithm. Journal of Volcanology and Geothermal Research, 2017, 340, 130-142.	0.8	61
24	Automatic classification of endogenous landslide seismicity using the Random Forest supervised classifier. Geophysical Research Letters, 2017, 44, 113-120.	1.5	104
25	The impact of an exhibition on risk awareness of the general public in mountainous areas. International Journal of Disaster Risk Reduction, 2017, 25, 36-59.	1.8	4
26	Groundwaterâ€"Surface waters interactions at slope and catchment scales: implications for landsliding in clayâ€•rich slopes. Hydrological Processes, 2017, 31, 364-381.	1.1	18
27	Correlation of satellite image time-series for the detection and monitoring of slow-moving landslides. Remote Sensing of Environment, 2017, 189, 40-55.	4.6	109
28	Single-block rockfall dynamics inferred from seismic signal analysis. Earth Surface Dynamics, 2017, 5, 283-292.	1.0	47
29	Regional Rainfall Thresholds for Shallow and Deep-Seated Mass Movements Triggering in the South Eastern French Alps. , 2017, , 183-192.		0
30	Detection of seasonal cycles of erosion processes in a black marl gully from a time series of high-resolution digital elevation models (DEMs). Earth Surface Dynamics, 2016, 4, 781-798.	1.0	18
31	Monitoring of Earth Surface Motion and Geomorphologic Processes by Optical Image Correlation. , 2016, , 147-190.		8
32	Fatal landslides in Europe. Landslides, 2016, 13, 1545-1554.	2.7	238
33	Permanent electrical resistivity measurements for monitoring water circulation in clayey landslides. Journal of Applied Geophysics, 2016, 126, 98-115.	0.9	49
34	Structural control on the kinematics of the deep-seated La ClapiÃ¨re landslide revealed by L-band InSAR observations. Landslides, 2016, 13, 1005-1018.	2.7	15
35	Analysis of a landslide multi-date inventory in a complex mountain landscape: the Ubaye valley case study. Natural Hazards and Earth System Sciences, 2015, 15, 2369-2389.	1.5	19
36	Ground-penetrating radar observations for estimating the vertical displacement of rotational landslides. Natural Hazards and Earth System Sciences, 2015, 15, 1399-1406.	1.5	10

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37	Monitoring landslide displacements with the Geocube wireless network of low-cost GPS. Engineering Geology, 2015, 195, 111-121.	2.9	125
38	Ground-based multi-view photogrammetry for the monitoring of landslide deformation and erosion. Geomorphology, 2015, 231, 130-145.	1.1	176
39	Landslide deformation monitoring with ALOS/PALSAR imagery: A D-InSAR geomorphological interpretation method. Geomorphology, 2015, 231, 314-330.	1.1	160
40	Corrections of surface fissure effect on apparent resistivity measurements. Geophysical Journal International, 2015, 200, 1118-1135.	1.0	8
41	Prediction of changes in landslide rates induced by rainfall. Landslides, 2015, 12, 481-494.	2.7	53
42	Recommendations for the quantitative analysis of landslide risk. Bulletin of Engineering Geology and the Environment, 2014, 73, 209.	1.6	541
43	Field investigation of preferential fissure flow paths with hydrochemical analysis of small-scale sprinkling experiments. Earth Surface Dynamics, 2014, 2, 181-195.	1.0	17
44	Synoptic Pan-European Landslide Susceptibility Assessment: The ELSUS 1000 v1 Map. , 2014, , 117-122.		8
45	Assessment of socioeconomic vulnerability to landslides using an indicator-based approach: methodology and case studies. Bulletin of Engineering Geology and the Environment, 2014, 73, 307-324.	1.6	49
46	Landslide consequence analysis: a region-scale indicator-based methodology. Landslides, 2014, 11, 843-858.	2.7	23
47	Hierarchical extraction of landslides from multiresolution remotely sensed optical images. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 87, 122-136.	4.9	72
48	Analysis of land cover changes in the past and the future as contribution to landslide risk scenarios. Applied Geography, 2014, 53, 11-19.	1.7	87
49	Active Learning in the Spatial Domain for Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2492-2507.	2.7	74
50	Climate-physiographically differentiated Pan-European landslide susceptibility assessment using spatial multi-criteria evaluation and transnational landslide information. Geomorphology, 2014, 224, 69-85.	1.1	71
51	Target Detection and Tracking of moving objects for characterizing landslide displacements from time-lapse terrestrial optical images. Engineering Geology, 2014, 172, 26-40.	2.9	33
52	Airborne and ground-based data sources for characterizing the morpho-structure of a coastal landslide. Geomorphology, 2014, 217, 140-151.	1.1	24
53	Surface reconstruction and landslide displacement measurements with PlÃ©iades satellite images. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 95, 1-12.	4.9	112
54	Image-based correlation of Laser Scanning point cloud time series for landslide monitoring. International Journal of Applied Earth Observation and Geoinformation, 2014, 32, 1-18.	1.4	56

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55	Introduction: The components of Risk Governance. Advances in Natural and Technological Hazards Research, 2014, , 1-27.	1.1	5
56	Innovative Techniques for the Detection and Characterization of the Kinematics of Slow-Moving Landslides. Advances in Natural and Technological Hazards Research, 2014, , 31-56.	1.1	1
57	Innovative Techniques for the Characterization of the Morphology, Geometry and Hydrological Features of Slow-Moving Landslides. Advances in Natural and Technological Hazards Research, 2014, , 57-82.	1.1	1
58	Techniques for the Modelling of the Process Systems in Slow and Fast-Moving Landslides. Advances in Natural and Technological Hazards Research, 2014, , 83-129.	1.1	2
59	Methods for Debris Flow Hazard and Risk Assessment. Advances in Natural and Technological Hazards Research, 2014, , 133-177.	1.1	7
60	Medium-Scale Multi-hazard Risk Assessment of Gravitational Processes. Advances in Natural and Technological Hazards Research, 2014, , 201-231.	1.1	26
61	Seuils piézométriques pour le déclenchement de glissements de terrain sur les versants côtiers normands, France. Geomorphologie Relief, Processus, Environnement, 2014, 20, 145-158.	0.7	14
62	Time-variable 3D ground displacements from high-resolution synthetic aperture radar (SAR). application to La Valette landslide (South French Alps). Remote Sensing of Environment, 2013, 139, 198-204.	4.6	88
63	Tier-based approaches for landslide susceptibility assessment in Europe. Landslides, 2013, 10, 529-546.	2.7	83
64	Image-based mapping of surface fissures for the investigation of landslide dynamics. Geomorphology, 2013, 186, 12-27.	1.1	135
65	Control of landslide retrogression by discontinuities: evidence by the integration of airborne- and ground-based geophysical information. Landslides, 2013, 10, 37-54.	2.7	30
66	Seismic monitoring of soft-rock landslides: the Super-Sauze and Valoria case studies. Geophysical Journal International, 2013, 193, 1515-1536.	1.0	39
67	A model of hydrological and mechanical feedbacks of preferential fissure flow in a slow-moving landslide. Hydrology and Earth System Sciences, 2013, 17, 947-959.	1.9	53
68	Analysis and Uncertainty Quantification of Dynamic Run-Out Model Parameters for Landslides. , 2013, , 315-318.		7
69	Continuous Monitoring and Near-Real Time Processing of GPS Observations for Landslide Analysis: A Methodological Framework. , 2013, , 201-209.		3
70	Performance of Image Correlation Techniques for Landslide Displacement Monitoring. , 2013, , 217-226.		1
71	Sprinkling Tests to Understand Hydrological Behaviour of Mudslide. , 2013, , 469-473.		2
72	Analyse spatiotemporelle de glissements de terrain littoraux par l'exploitation de données géospatiales multisources. Revue Internationale De Géomatique, 2013, 23, 199-225.	0.2	8

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73	Index-Oriented Methodologies for Landslide Consequence Analysis: An Application to a Mountain Community in the French Alps. , 2013, , 159-167.		1
74	Multi-scale line detection for landslide fissure mapping. , 2012, , .		5
75	Statistical modelling of Europe-wide landslide susceptibility using limited landslide inventory data. Landslides, 2012, 9, 357-369.	2.7	135
76	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.	0.9	28
77	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.	0.9	23
78	Adaptive spatial sampling with active random forest for object-oriented landslide mapping. , 2012, , .		5
79	Parameterization of a numerical 2-D debris flow model with entrainment: a case study of the Faucon catchment, Southern French Alps. Natural Hazards and Earth System Sciences, 2012, 12, 3075-3090.	1.5	81
80	Hydrological behaviour of unstable clay–shales slopes: the value of cross–disciplinary and multitechnological research at different scales. Hydrological Processes, 2012, 26, 2067-2070.	1.1	5
81	Dendrogeomorphic reconstruction of past landslide reactivation with seasonal precision: the Bois Noir landslide, southeast French Alps. Landslides, 2012, 9, 189-203.	2.7	85
82	Correlation of multi-temporal ground-based optical images for landslide monitoring: Application, potential and limitations. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 70, 39-55.	4.9	168
83	Analysis of debris flow behavior with a one dimensional run-out model incorporating entrainment. Engineering Geology, 2012, 128, 63-75.	2.9	132
84	Characterizing landslides through geophysical data fusion: Example of the La Valette landslide (France). Engineering Geology, 2012, 128, 23-29.	2.9	67
85	Characterization of the 3D geometry of flow-like landslides: A methodology based on the integration of heterogeneous multi-source data. Engineering Geology, 2012, 128, 30-48.	2.9	79
86	'Integration of technologies for landslide monitoring and quantitative hazard assessment'. Engineering Geology, 2012, 128, 1.	2.9	1
87	Hydrological and hydrochemical processes observed during a large–scale infiltration experiment at the Super–Sauze mudslide (France). Hydrological Processes, 2012, 26, 2157-2170.	1.1	26
88	Hydrological response of weathered clay–shale slopes: water infiltration monitoring with time–lapse electrical resistivity tomography. Hydrological Processes, 2012, 26, 2106-2119.	1.1	87
89	Geomorphology and kinematics of debris flows with high entrainment rates: A case study in the South French Alps. Comptes Rendus - Geoscience, 2011, 343, 777-794.	0.4	11
90	Airborne laser scanning of forested landslides characterization: Terrain model quality and visualization. Geomorphology, 2011, 126, 186-200.	1.1	111

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91	Assessment of debris-flow susceptibility at medium-scale in the Barcelonnette Basin, France. Natural Hazards and Earth System Sciences, 2011, 11, 627-641.	1.5	83
92	The need for harmonizing methodologies for assessing soil threats in Europe. Soil Use and Management, 2010, 26, 299-309.	2.6	18
93	Rheological properties of fine-grained sediment: the roles of texture and mineralogy. Canadian Geotechnical Journal, 2010, 47, 1085-1100.	1.4	86
94	Flow-type failures in fine-grained soils: an important aspect in landslide hazard analysis. Natural Hazards and Earth System Sciences, 2009, 9, 1703-1711.	1.5	34
95	A GIS-based numerical model for simulating the kinematics of mud and debris flows over complex terrain. Natural Hazards and Earth System Sciences, 2009, 9, 1897-1909.	1.5	140
96	The effect of groundwater fluctuations on the velocity pattern of slow-moving landslides. Natural Hazards and Earth System Sciences, 2009, 9, 739-749.	1.5	46
97	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.	0.4	21
98	Influence of check dams on debris-flow run-out intensity. Natural Hazards and Earth System Sciences, 2008, 8, 1403-1416.	1.5	69
99	Introduction to the thematic volume: issues in landslide process monitoring and understanding. Bulletin - Societie Geologique De France, 2007, 178, 63-64.	0.9	5
100	Understanding mudslides through micro-seismic monitoring: the Super-Sauze (South-East French) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	37
101	Seismic noise-based methods for soft-rock landslide characterization. Bulletin - Societie Geologique De France, 2007, 178, 137-148.	0.9	67
102	Geophysical data fusion by fuzzy logic for imaging the mechanical behaviour of mudslides. Bulletin - Societie Geologique De France, 2007, 178, 127-136.	0.9	33
103	Landslide susceptibility assessment by bivariate methods at large scales: Application to a complex mountainous environment. Geomorphology, 2007, 92, 38-59.	1.1	218
104	Techniques, issues and advances in numerical modelling of landslide hazard. Bulletin - Societie Geologique De France, 2007, 178, 65-88.	0.9	94
105	Identifying the origin of groundwater and ï¬‚ow processes in complex landslides affecting black marls: insights from a hydrochemical survey. Earth Surface Processes and Landforms, 2007, 32, 32-48.	1.2	48
106	Rheological Properties Of Fine-Grained Sediments In Modeling Submarine Mass Movements: The Role Of Texture. , 2007, , 191-198.		5
107	Caractérisation de la structure interne et de l'état hydrique de glissements argilo-marneux par tomographie géophysique : l'exemple du glissement-coulée de Super-Sauze (Alpes du Sud, France). Comptes Rendus - Geoscience, 2006, 338, 587-595.	0.4	39
108	Influence of landslide geometry and kinematic deformation to describe the liquefaction of landslides: Some theoretical considerations. Engineering Geology, 2006, 88, 59-69.	2.9	32

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109	Shallow Landsliding. , 2006, , 583-598.		4
110	Analyse spatiale, Ã©valuation et cartographie du risque glissement de terrain. Revue Internationale De GÃ©omatique, 2006, 16, 499-525.	0.2	8
111	Morphology and sedimentology of a complex debris flow in a clay-shale basin. Earth Surface Processes and Landforms, 2005, 30, 339-348.	1.2	34
112	Flow behaviour and runout modelling of a complex debris flow in a clay-shale basin. Earth Surface Processes and Landforms, 2005, 30, 479-488.	1.2	67
113	Forecasting the behaviour of complex landslides with a spatially distributed hydrological model. Natural Hazards and Earth System Sciences, 2005, 5, 71-85.	1.5	108
114	Triggering conditions and mobility of debris flows associated to complex earthflows. Geomorphology, 2005, 66, 215-235.	1.1	111
115	Analyse spatiale de la susceptibilitÃ© des versants aux glissements de terrains. Comparaison de deux approches spatialisÃ©es par SIG. Revue Internationale De GÃ©omatique, 2005, 15, 227-245.	0.2	8
116	Assessing debris flow hazards associated with slow moving landslides: methodology and numerical analyses. Landslides, 2004, 1, 83-90.	2.7	44
117	Integrated Investigations on Landslides â€" The Example of the Super Sauze Earthflow. , 2004, , 213-238.		3
118	Soil surface characteristics influence on infiltration in black marls: application to the Super-Sauze earthflow (southern Alps, France). Earth Surface Processes and Landforms, 2003, 28, 547-564.	1.2	38
119	Instability conditions of marly hillslopes: towards landsliding or gullying? The case of the Barcelonnette Basin, South East France. Engineering Geology, 2003, 70, 109-130.	2.9	83
120	CaractÃ©risation des profils de formations superficielles par pÃ©nÃ©tromÃ©trie dynamique Ã Ã©nergie variable : application aux marnes noires de Draix (Alpes-de-Haute-Provence, France). Comptes Rendus - Geoscience, 2002, 334, 835-841.	0.4	35
121	The use of Global Positioning System techniques for the continuous monitoring of landslides: application to the Super-Sauze earthflow (Alpes-de-Haute-Provence, France). Geomorphology, 2002, 43, 33-54.	1.1	270
122	The use of small-format and low-altitude aerial photos for the realization of high-resolution DEMs in mountainous areas: application to the Super-Sauze earthflow (Alpes-de-Haute-Provence, France). Earth Surface Processes and Landforms, 2002, 27, 1339-1350.	1.2	29
123	Une approche multidisciplinaire pour la connaissance dâ€™un glissement-coulÃ©e dans les marnes noires du Callovien-Oxfordien. Revue FranÃ§aise De GÃ©otechnique, 2001, , 15-31.	0.1	12
124	The 3D structure of the super-sauze earthflow: A first stage towards modelling its behaviour. Physics and Chemistry of the Earth, 2000, 25, 785-791.	0.3	25
125	Fusion of Sentinel-1 and Sentinel-2 image time series for permanent and temporary surface water mapping. International Journal of Remote Sensing, 0, , 1-24.	1.3	28
126	IMCLASS â€" A USER-TAILORED MACHINE LEARNING IMAGE CLASSIFICATION CHAIN FOR CHANGE DETECTION OR LANDCOVER MAPPING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2020, 677-683.	0.2	0

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127	Measurement and inversion strategies for 3‑D resistivity surveys with vector arrays. Geophysical Prospecting, 0, , .	1.0	2