Jordi Corominas

List of Publications by Year in descending order

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83 papers	6,084 citations	126907 33 h-index	85541 71 g-index
93 all docs	93 docs citations	93 times ranked	4123 citing authors

#	Article	IF	Citations
1	Guidelines for landslide susceptibility, hazard and risk zoning for land use planning. Engineering Geology, 2008, 102, 85-98.	6.3	834
2	Recommendations for the quantitative analysis of landslide risk. Bulletin of Engineering Geology and the Environment, 2014, 73, 209.	3.5	541
3	The angle of reach as a mobility index for small and large landslides. Canadian Geotechnical Journal, 1996, 33, 260-271.	2.8	474
4	Guidelines for landslide susceptibility, hazard and risk zoning for land-use planning. Engineering Geology, 2008, 102, 99-111.	6.3	429
5	Using Global Positioning System techniques in landslide monitoring. Engineering Geology, 2000, 55, 167-192.	6.3	357
6	Assessment of shallow landslide susceptibility by means of multivariate statistical techniques. Earth Surface Processes and Landforms, 2001, 26, 1251-1263.	2.5	326
7	Reconstructing recent landslide activity in relation to rainfall in the Llobregat River basin, Eastern Pyrenees, Spain. Geomorphology, 1999, 30, 79-93.	2.6	220
8	Prediction of ground displacements and velocities from groundwater level changes at the Vallcebre landslide (Eastern Pyrenees, Spain). Landslides, 2005, 2, 83-96.	5.4	220
9	A review of assessing landslide frequency for hazard zoning purposes. Engineering Geology, 2008, 102, 193-213.	6.3	210
10	Classic and new dating methods for assessing the temporal occurrence of mass movements. Geomorphology, 1999, 30, 33-52.	2.6	186
11	A GIS-Based Multivariate Statistical Analysis for Shallow Landslide Susceptibility Mapping in La Pobla de Lillet Area (Eastern Pyrenees, Spain). Natural Hazards, 2003, 30, 281-295.	3.4	152
12	Quantitative assessment of the residual risk in a rockfall protected area. Landslides, 2005, 2, 343-357.	5.4	152
13	Measurement of landslide displacements using a wire extensometer. Engineering Geology, 2000, 55, 149-166.	6.3	102
14	Canelles landslide: modelling rapid drawdown and fast potential sliding. Landslides, 2012, 9, 33-51.	5.4	102
15	Integrated Landslide Susceptibility Analysis and Hazard Assessment in the Principality of Andorra. Natural Hazards, 2003, 30, 421-435.	3.4	101
16	Atmospheric Phase Screen Compensation in Ground-Based SAR With a Multiple-Regression Model Over Mountainous Regions. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2436-2449.	6.3	94
17	A fractal fragmentation model for rockfalls. Landslides, 2017, 14, 875-889.	5.4	76
18	Vulnerability assessment for reinforced concrete buildings exposed to landslides. Bulletin of Engineering Geology and the Environment, 2014, 73, 265.	3.5	68

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19	A methodology to obtain the block size distribution of fragmental rockfall deposits. Landslides, 2015, 12, 815-825.	5.4	66
20	Vulnerability of simple reinforced concrete buildings to damage by rockfalls. Landslides, 2010, 7, 169-180.	5.4	64
21	Interferometric SAR monitoring of the Vallcebre landslide (Spain) using corner reflectors. Natural Hazards and Earth System Sciences, 2013, 13, 923-933.	3.6	60
22	Contribution of dendrochronology to the determination of magnitudeâ€“frequency relationships for landslides. Geomorphology, 2010, 124, 137-149.	2.6	59
23	Magnitudeâ€“frequency relation for rockfall scars using a Terrestrial Laser Scanner. Engineering Geology, 2012, 145-146, 50-64.	6.3	57
24	Rockfall risk assessment to persons travelling in vehicles along a road: the case study of the Amalfi coastal road (southern Italy). Natural Hazards, 2012, 62, 691-721.	3.4	57
25	Tree-ring based assessment of rockfall frequency on talus slopes at SolÃ d'Andorra, Eastern Pyrenees. Geomorphology, 2010, 118, 393-408.	2.6	47
26	Largeâ€scale rock slope failures in the eastern pyrenees: identifying a sparse but significant population in paraglacial and parafluvial contexts. Geografiska Annaler, Series A: Physical Geography, 2014, 96, 357-391.	1.5	47
27	An expert judgement approach to determining the physical vulnerability of roads to debris flow. Bulletin of Engineering Geology and the Environment, 2014, 73, 291-305.	3.5	46
28	Rockfall vulnerability assessment for reinforced concrete buildings. Natural Hazards and Earth System Sciences, 2010, 10, 2055-2066.	3.6	45
29	PSI Deformation Map Retrieval by Means of Temporal Sublook Coherence on Reduced Sets of SAR Images. Remote Sensing, 2015, 7, 530-563.	4.0	41
30	RockGIS: a GIS-based model for the analysis of fragmentation in rockfalls. Landslides, 2017, 14, 1565-1578.	5.4	41
31	The Barranco de ArÃ¡s flood of 7 August 1996 (Biescas, Central Pyrenees, Spain). Engineering Geology, 1999, 51, 237-255.	6.3	40
32	Landslide hazard, monitoring and conservation strategy for the safeguard of Vardzia Byzantine monastery complex, Georgia. Landslides, 2015, 12, 193-204.	5.4	40
33	Quantitative analysis of risk from fragmental rockfalls. Landslides, 2019, 16, 5-21.	5.4	37
34	Size Distribution for Potentially Unstable Rock Masses and In Situ Rock Blocks Using LIDAR-Generated Digital Elevation Models. Rock Mechanics and Rock Engineering, 2015, 48, 1589-1604.	5.4	36
35	Analysis of the evolution of ground movements in a low densely urban area by means of DInSAR technique. Engineering Geology, 2014, 170, 52-65.	6.3	34
36	Magnitude and frequency relations: are there geological constraints to the rockfall size?. Landslides, 2018, 15, 829-845.	5.4	34

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37	Preparing first-time slope failures hazard maps: from pixel-based to slope unit-based. Landslides, 2020, 17, 249-265.	5.4	33
38	The deep-seated slope deformation at Encampadana, Andorra: Representation of morphologic features by numerical modelling. Engineering Geology, 2006, 83, 343-357.	6.3	32
39	Analysis of Rockfalls by Means of a Fractal Fragmentation Model. Rock Mechanics and Rock Engineering, 2020, 53, 1433-1455.	5.4	31
40	Effects of the foot evolution on the behaviour of slow-moving landslides. Engineering Geology, 2011, 117, 217-228.	6.3	30
41	Rockfall Occurrence and Fragmentation. , 2017, , 75-97.		30
42	Methodology to evaluate rock slope stability under seismic conditions at SolÃ de Santa Coloma, Andorra. Natural Hazards and Earth System Sciences, 2009, 9, 1763-1773.	3.6	28
43	Landslide Monitoring Using Multi-Temporal SAR Interferometry with Advanced Persistent Scatterers Identification Methods and Super High-Spatial Resolution TerraSAR-X Images. Remote Sensing, 2018, 10, 921.	4.0	26
44	Evidence of basal erosion and shearing as mechanisms contributing the development of lateral ridges in mudslides, flow-slides, and other flow-like gravitational movements. Engineering Geology, 1995, 39, 45-70.	6.3	20
45	Non-interferometric GB-SAR measurement: application to the Vallcebre landslide (eastern Pyrenees,) Tj ETQq1 1 0.784314 rgBT /Over	3.6	20
46	Integrated risk assessment due to slope instabilities in the roadway network of Gipuzkoa, Basque Country. Natural Hazards and Earth System Sciences, 2019, 19, 399-419.	3.6	20
47	Simulation of Full-Scale Rockfall Tests with a Fragmentation Model. Geosciences (Switzerland), 2020, 10, 168.	2.2	20
48	Comparing rockfall scar volumes and kinematically detachable rock masses. Engineering Geology, 2017, 219, 64-73.	6.3	19
49	Seismic Energy Analysis as Generated by Impact and Fragmentation of Singleâ€Block Experimental Rockfalls. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1450-1478.	2.8	19
50	The Barranco de Tirajana basin, Gran Canaria (Spain). A major erosive landform caused by large landslides. Geomorphology, 2002, 42, 117-130.	2.6	17
51	Landslide hazard management practices in the world. Landslides, 2005, 2, 245-246.	5.4	16
52	Definitions and Concepts for Quantitative Rockfall Hazard and Risk Analysis. Geosciences (Switzerland), 2021, 11, 158.	2.2	16
53	A textural classification of argillaceous rocks and their durability. Landslides, 2015, 12, 669-687.	5.4	12
54	Evaluation of Maximum Rockfall Dimensions Based on Probabilistic Assessment of the Penetration of the Sliding Planes into the Slope. Rock Mechanics and Rock Engineering, 2020, 53, 2301-2312.	5.4	12

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55	Stability analysis of the Vallcebre translational slide, Eastern Pyrenees (Spain) by means of a GIS. Natural Hazards, 2003, 30, 473-485.	3.4	11
56	Rockfalls: analysis of the block fragmentation through field experiments. Landslides, 2022, 19, 1009-1029.	5.4	11
57	Postglacial deformation history of sackungen on the northern slope of Pic d'Encampadana, Andorra. Geomorphology, 2019, 337, 134-150.	2.6	10
58	Analysis of Fragmentation of Rock Blocks from Real-Scale Tests. Geosciences (Switzerland), 2020, 10, 308.	2.2	10
59	Glossary of Terms on Landslide Hazard and Risk. , 2015, , 1775-1779.		9
60	Calculation of the rockwall recession rate of a limestone cliff, affected by rockfalls, using cosmogenic chlorine-36. Case study of the Montsec Range (Eastern Pyrenees, Spain). Geomorphology, 2018, 306, 325-335.	2.6	9
61	Capturing rockfall kinematic and fragmentation parameters using high-speed camera system. Engineering Geology, 2022, 302, 106629.	6.3	9
62	Behaviour of the Weak Rock Cut Slopes and Their Characterization Using the Results of the Slake Durability Test. Lecture Notes in Earth Sciences, 0, , 405-413.	0.5	8
63	Past, Present and Future Monitoring at the Vallcebre Landslide (Eastern Pyrenees, Spain). Applied Sciences (Switzerland), 2021, 11, 571.	2.5	8
64	Methods for the Characterization of the Vulnerability of Elements at Risk. Advances in Natural and Technological Hazards Research, 2014, , 233-273.	1.1	7
65	Experimental study on rockfall fragmentation: In situ test design and first results. , 2016, , 983-990.		6
66	Comparison of block size distribution in rockfalls. , 2016, , 1767-1774.		6
67	Assessment of the Rockfall Frequency for Hazard Analysis at SolÃ dâ€™Andorra (Eastern Pyrenees). Advances in Global Change Research, 2010, , 161-175.	1.6	6
68	Introduction: The components of Risk Governance. Advances in Natural and Technological Hazards Research, 2014, , 1-27.	1.1	5
69	Landslide risk assessment and zoning. , 1992, , 141-173.		4
70	The angle of reach as a mobility index for small and large landslides: Reply. Canadian Geotechnical Journal, 1996, 33, 1029-1031.	2.8	4
71	TXT-tool 4.034-1.1: Quantitative Rockfall Risk Assessment for Roadways and Railways. , 2018, , 509-519.		4
72	7.27 Avoidance and Protection Measures. , 2013, , 259-272.		3

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73	Discussion on â€œLarge landslides associated with a diapiric fold in Canelles reservoir (Spanish) Tj ETQq1 1 0.784314 rgBT /Overlock 10 imagingâ€•by GutiÃ©rrez et al. (2015). Geomorphology, 2016, 263, 170-174.	2.6	3
74	Quantitative Rockfall Risk Assessment in the Roadways of Gipuzkoa. , 2015, , 1813-1816.		3
75	Comparing Satellite Based and Ground Based Radar Interferometry and Field Observations at the Canillo Landslide (Pyrenees). , 2015, , 333-337.		3
76	Comparing kinematically detachable rock masses and rockfall scar volumes. IOP Conference Series: Earth and Environmental Science, 2015, 26, 012020.	0.3	2
77	Rockfall and Debris Flow Hazard Assessment of the Coastal Road of Gipuzkoa (Northern Spain). , 2013, , 223-229.		2
78	Disaster Mitigation by Corrective and Protection Measures. Advances in Natural and Technological Hazards Research, 2014, , 303-326.	1.1	2
79	Simulation of rockfall fragmentation mechanism in a GIS-based tool. , 2016, , .		1
80	Avoidance and Protection Measures. , 2013, , 569-584.		1
81	Landslide monitoring with staring-spotlight data: Canillo case study. , 2017, , .		0
82	TXT-tool 3.034-1.1: A Textural Classification of Argillaceous Rocks and Their Durability. , 2018, , 421-433.		0
83	Hydrological modelling of the Vallcebre landslide. , 2008, , 1517-1523.		0