

# Stefano Crema

## List of Publications by Year in descending order

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39  
papers

1,336  
citations

331259

21  
h-index

414034

32  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1375  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of uncertainty in rainfall estimation on the identification of rainfall thresholds for debris flow occurrence. <i>Geomorphology</i> , 2014, 221, 286-297.	1.1	134
2	SedInConnect: a stand-alone, free and open source tool for the assessment of sediment connectivity. <i>Computers and Geosciences</i> , 2018, 111, 39-45.	2.0	115
3	The role of human activities on sediment connectivity of shallow landslides. <i>Catena</i> , 2018, 160, 261-274.	2.2	93
4	The effects of land use and topographic changes on sediment connectivity in mountain catchments. <i>Science of the Total Environment</i> , 2019, 660, 899-912.	3.9	80
5	Flood probability quantification for road infrastructure: Data-driven spatial-statistical approach and case study applications. <i>Science of the Total Environment</i> , 2017, 581-582, 386-398.	3.9	68
6	Geomorphic effectiveness of check dams in a debris-flow catchment using multi-temporal topographic surveys. <i>Catena</i> , 2019, 174, 73-83.	2.2	66
7	Monitoring topographic changes through 4D-structure-from-motion photogrammetry: application to a debris-flow channel. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	64
8	Upper limits of flash flood stream power in Europe. <i>Geomorphology</i> , 2016, 272, 68-77.	1.1	52
9	Channel control works and sediment connectivity in the European Alps. <i>Science of the Total Environment</i> , 2019, 668, 389-399.	3.9	50
10	Basin-scale analysis of the geomorphic effectiveness of flash floods: A study in the northern Apennines (Italy). <i>Science of the Total Environment</i> , 2018, 640-641, 337-351.	3.9	48
11	Exploiting LSPIV to assess debris-flow velocities in the field. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 1-13.	1.5	46
12	Soil moisture remote-sensing applications for identification of flood-prone areas along transport infrastructure. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	45
13	Multi-temporal analysis of the role of check dams in a debris-flow channel: Linking structural and functional connectivity. <i>Geomorphology</i> , 2019, 345, 106844.	1.1	44
14	Hydrometeorological Characterization of a Flash Flood Associated with Major Geomorphic Effects: Assessment of Peak Discharge Uncertainties and Analysis of the Runoff Response. <i>Journal of Hydrometeorology</i> , 2016, 17, 3063-3077.	0.7	36
15	Multi-temporal LiDAR-DTMs as a tool for modelling a complex landslide: a case study in the Rotolon catchment (eastern Italian Alps). <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 715-722.	1.5	34
16	Estimation of the susceptibility of a road network to shallow landslides with the integration of the sediment connectivity. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 1735-1758.	1.5	32
17	Debris flows in the eastern Italian Alps: seasonality and atmospheric circulation patterns. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 647-656.	1.5	31
18	Semi-quantitative method for the assessment of debris supply from slopes to river in ungauged catchments. <i>Science of the Total Environment</i> , 2016, 554-555, 337-348.	3.9	31

#	ARTICLE	IF	CITATIONS
19	Response time and water origin in a steep nested catchment in the Italian Dolomites. <i>Hydrological Processes</i> , 2017, 31, 768-782.	1.1	31
20	An Integrated Study to Evaluate Debris Flow Hazard in Alpine Environment. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	29
21	Effects of agricultural drainage systems on sediment connectivity in a small Mediterranean lowland catchment. <i>Geomorphology</i> , 2018, 318, 162-171.	1.1	27
22	Semi-automatic derivation of channel network from a high-resolution DTM: the example of an Italian alpine region. <i>European Journal of Remote Sensing</i> , 2013, 46, 152-174.	1.7	22
23	Debris-flow volumes in northeastern Italy: Relationship with drainage area and size probability. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 933-943.	1.2	22
24	How does co-registration affect geomorphic change estimates in multi-temporal surveys?. <i>GIScience and Remote Sensing</i> , 2020, 57, 611-632.	2.4	21
25	Exposure to landslides in rural areas in Central Italy. <i>Journal of Maps</i> , 2021, 17, 124-132.	1.0	18
26	Debris flows recorded in the Moscardo catchment (Italian Alps) between 1990 and 2019. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 87-97.	1.5	18
27	GIS tools for preliminary debris-flow assessment at regional scale. <i>Journal of Mountain Science</i> , 2017, 14, 2498-2510.	0.8	15
28	Can inpainting improve digital terrain analysis? Comparing techniques for void filling, surface reconstruction and geomorphometric analyses. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 736-755.	1.2	13
29	Effects of gully control measures on sediment yield and connectivity in wooded rangelands. <i>Catena</i> , 2022, 214, 106259.	2.2	11
30	Modelling the dynamics of a large rock landslide in the Dolomites (eastern Italian Alps) using multi-temporal DEMs. <i>PeerJ</i> , 2018, 6, e5903.	0.9	9
31	Assessment of suspended sediment dynamics in a small ungauged badland catchment in the Northern Apennines (Italy) using an in-situ laser diffraction method. <i>Catena</i> , 2022, 209, 105796.	2.2	8
32	The Rotolon Catchment Early-Warning System. , 2015, , 91-95.		6
33	Brief Communication: A new testing field for debris flow warning systems. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 1545-1549.	1.5	4
34	Clustering sediment connectivity maps to distinguish hillslope processes. <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 42, 23-26.	0.3	2
35	Assessing landscape changes associated to anthropic disturbances by means of the application of Structure from Motion photogrammetry using historical aerial imagery. <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 46, 74-81.	0.3	2
36	Landslide monitoring with an integrated platform: methodology, design and case study. <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 30, 24-27.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Monitoring and Modeling Large Wood Recruitment and Transport in a Mountain Basin of North-Eastern Italy. , 2015, , 155-158.		1
38	Evaluation of anthropogenic effects on the sediment delivery dynamics in response to slope instability. Rendiconti Online Societa Geologica Italiana, 0, 42, 5-9.	0.3	1
39	Metodologia e strumenti per la raccolta dati e l'analisi dei processi torrentizi che interessano le aree di conoide nella Regione del Veneto. Rendiconti Online Societa Geologica Italiana, 0, 46, 167-173.	0.3	0