Chris S Renschler

List of Publications by Year
in descending order

48 papers	2,373 citations	361296 20 h-index	345118 36 g-index
49 all docs	49 docs citations	49 times ranked	2898 citing authors

#	Article	IF	Citations
1	Modeling response of soil erosion and runoff to changes in precipitation and cover. Catena, 2005, 61, 131-154.	2.2	581
2	PEOPLES: A Framework for Evaluating Resilience. Journal of Structural Engineering, 2016, 142, .	1.7	221
3	Parallel adaptive numerical simulation of dry avalanches over natural terrain. Journal of Volcanology and Geothermal Research, 2005, 139, 1-21.	0.8	220
4	Soil erosion assessment tools from point to regional scalesâ€"the role of geomorphologists in land management research and implementation. Geomorphology, 2002, 47, 189-209.	1.1	201
5	Designing geo-spatial interfaces to scale process models: the GeoWEPP approach. Hydrological Processes, 2003, 17, 1005-1017.	1.1	177
6	Evaluating spatial and temporal variability in soil erosion riskâ€"rainfall erosivity and soil loss ratios in Andalusia, Spain. Catena, 1999, 34, 209-225.	2.2	117
7	Evaluating the impact of soil management on soil loss in olive orchards. Soil Use and Management, 2003, 19, 127-134.	2.6	94
8	New Resilience Index for Urban Water Distribution Networks. Journal of Structural Engineering, 2016, 142, .	1.7	93
9	Geomorphology and ecosystems: Challenges and keys for success in bridging disciplines. Geomorphology, 2007, 89, 1-8.	1.1	66
10	Climate and land use change effects on soil erosion in two small agricultural catchment systems Fugnitz â€" Austria, Can Revull â€" Spain. Science of the Total Environment, 2020, 704, 135389.	3.9	61
11	Prediction of soil and water conservation structure impacts on runoff and erosion processes using SWAT model in the northern Ethiopian highlands. Journal of Soils and Sediments, 2018, 18, 1743-1755.	1.5	48
12	A formal model to infer geographic events from sensor observations. International Journal of Geographical Information Science, 2015, 29, 1-27.	2.2	45
13	Evaluating post-disaster ecosystem resilience using MODIS GPP data. International Journal of Applied Earth Observation and Geoinformation, 2013, 21, 43-52.	1.4	42
14	Rapid building damage assessment system using mobile phone technology. Earthquake Engineering and Engineering Vibration, 2014, 13, 519-533.	1.1	37
15	Integrated impact assessment of soil and water conservation structures on runoff and sediment yield through measurements and modeling in the Northern Ethiopian highlands. Catena, 2018, 169, 140-150.	2.2	37
16	Geospatial Disaster Response during the Haiti Earthquake: A Case Study Spanning Airborne Deployment, Data Collection, Transfer, Processing, and Dissemination. Photogrammetric Engineering and Remote Sensing, 2011, 77, 943-952.	0.3	32
17	Geospatial Application of the Water Erosion Prediction Project (WEPP) Model. Transactions of the ASABE, 2013, 56, 591-601.	1.1	30
18	Scales and uncertainties in using models and GIS for volcano hazard prediction. Journal of Volcanology and Geothermal Research, 2005, 139, 73-87.	0.8	28

#	Article	IF	Citations
19	Regionalisation concept for hydrological modelling on different scales using a physically based model: Results and evaluation. Physics and Chemistry of the Earth, 1999, 24, 799-804.	0.3	25
20	Implementing quality control on a random number stream to improve a stochastic weather generator. Hydrological Processes, 2008, 22, 1069-1079.	1.1	21
21	A GIS-based method to determine the volume of lahars: PopocatÃ©petl volcano, Mexico. Geomorphology, 2009, 111, 61-69.	1.1	21
22	Chapter Five Uncertainty in Environmental Decision Making: Issues, Challenges and Future Directions. Developments in Integrated Environmental Assessment, 2008, , 69-85.	0.0	20
23	Evaluating the impact of soil management on soil loss in olive orchards. Soil Use and Management, 2003, 19, 127-134.	2.6	18
24	Geomorphological evolution of a fluvial channel after primary lahar deposition: Huiloac Gorge, PopocatÃ©petl volcano (Mexico). Geomorphology, 2010, 122, 178-190.	1.1	16
25	Updating channel morphology in digital elevation models: lahar assessment for Tenenepanco-Huiloac Gorge, PopocatÃ©petl volcano, Mexico. Natural Hazards, 2008, 45, 309-320.	1.6	13
26	Ontological Investigation of a Multiscale Ecosystem Classification Using the â€œNational Hierarchical Framework of Ecological Unitsâ€•as an Example. GeoInformatica, 2006, 10, 313-335.	2.0	12
27	Combining Soil Erosion Modeling with Connectivity Analyses to Assess Lateral Fine Sediment Input into Agricultural Streams. Water (Switzerland), 2019, 11, 1793.	1.2	12
28	Site-Specific Decision-Making Based on RTK GPS Survey and Six Alternative Elevation Data Sources: Soil Erosion Predictions. Transactions of the ASABE, 2008, 51, 413-424.	1.1	11
29	Closure to â€œNew Resilience Index for Urban Water Distribution Networksâ€•by G. P. Cimellaro, A. Tinebra, C. Renschler, and M. Fragiadakis. Journal of Structural Engineering, 2017, 143, .	1.7	11
30	Community Resilience Index Integrating Network Interdependencies. , 2013, , .		10
31	GeoWEPP - The Geo-spatial interface for the Water Erosion Prediction Project. , 2002, , .		8
32	Multi-source data fusion and modeling to assess and communicate complex flood dynamics to support decision-making for downstream areas of dams: The 2011 hurricane irene and schoharie creek floods, NY. International Journal of Applied Earth Observation and Geoinformation, 2017, 62, 157-173.	1.4	8
33	Computational modeling of the 1991 block and ash flows at Colima Volcano, Mexico. , 2006, , .		8
34	Introduction to Resilience-Based Design (RBD). Geotechnical, Geological and Earthquake Engineering, 2015, , 151-183.	0.1	6
35	Regionalization scheme for the simulation of regional water balances using a physically based model system. Physics and Chemistry of the Earth, 1999, 24, 43-48.	0.3	4
36	The State of Art of Community Resilience of Physical Infrastructures. , 2011, , .		4

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37	Long-term, process-based, continuous simulations for a cluster of six smaller, nested rangeland watersheds near Tombstone, AZ (USA): Establishing a baseline for event-based runoff and sediment yields. Science of the Total Environment, 2020, 717, 137089.	3.9	4
38	Redistribution of the soil ^{137}Cs inventory through litter and sediment transport on a hillslope covered by deciduous forest in Fukushima, Japan. Earth Surface Processes and Landforms, 0, , .	1.2	3
39	A New Combined Assessment of Mixed Uncertainty in Spatial Models: Conceptualization and Implementation. Transactions in GIS, 2017, 21, 661-682.	1.0	2
40	Long-term, process-based, continuous simulations for a small, nested rangeland watershed near Tombstone, AZ (USA): Extending model validity to include soil redistribution. Science of the Total Environment, 2021, 792, 148403.	3.9	2
41	ASCE First Generation Testbed for Evaluating Resilience of Structures. , 2014, , .		1
42	Quantification of the Economic Resilience from the Community Level to the Individual Business Level: The Bay Area Case Study. , 2014, , .		1
43	SPATIAL AND TEMPORAL ANALYSIS OF HUMAN MOVEMENTS AND APPLICATIONS FOR DISASTER RESPONSE MANAGEMENT UTILIZING CELL PHONE USAGE DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-4/W2, 217-224.	0.0	1
44	Chiropteran chatter in Chautauqua, NY (USA): Using acoustic sampling and geographic information systems to create a baseline bat habitat dataset. Science of the Total Environment, 2022, 810, 152410.	3.9	1
45	ASSESSMENT OF BMPS FOR LARGER WATERSHEDS - REQUIREMENTS TO LINK GEOWEPP AND SWAT. , 0, , .		0
46	Modeling Response of Soil Erosion and Runoff to Changes in Precipitation and Cover. , 2005, , 1.		0
47	Assessing Best Management Practices Effectiveness in a Small Watershed using a Process-based Based Modeling Approach. , 2007, , .		0
48	Investigating the Long Term Impact of BMPs - What has continuous, spatially-distributed watershed modeling to offer?. , 2004, , .		0