Jon J Major

List of Publications by Year in descending order

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51 papers	3,274 citations	236833 25 h-index	330025 37 g-index
69 all docs	69 docs citations	69 times ranked	2828 citing authors

#	Article	IF	Citations
1	Debris-flow deposition: Effects of pore-fluid pressure and friction concentrated at flow margins. Bulletin of the Geological Society of America, 1999, 111, 1424-1434.	1.6	283
2	Depositional Processes in Largeâ€Scale Debrisâ€Flow Experiments. Journal of Geology, 1997, 105, 345-366.	0.7	282
3	Debris flow rheology: Experimental analysis of fine-grained slurries. Water Resources Research, 1992, 28, 841-857.	1.7	238
4	Rainfall, ground-water flow, and seasonal movement at Minor Creek landslide, northwestern California: Physical interpretation of empirical relations. Bulletin of the Geological Society of America, 1987, 99, 579.	1.6	193
5	Dynamics of seismogenic volcanic extrusion at Mount St Helens in 2004â€“05. Nature, 2006, 444, 439-443.	13.7	191
6	Dam removal: Listening in. Water Resources Research, 2017, 53, 5229-5246.	1.7	166
7	Groundwater Seepage Vectors and the Potential for Hillslope Failure and Debris Flow Mobilization. Water Resources Research, 1986, 22, 1543-1548.	1.7	141
8	Snow and ice perturbation during historical volcanic eruptions and the formation of lahars and floods. Bulletin of Volcanology, 1989, 52, 1-27.	1.1	138
9	Hydrogeomorphic Effects of Explosive Volcanic Eruptions on Drainage Basins. Annual Review of Earth and Planetary Sciences, 2014, 42, 469-507.	4.6	113
10	Gravity-Driven Consolidation of Granular Slurries: Implications for Debris-Flow Deposition and Deposit Characteristics. Journal of Sedimentary Research, 2000, 70, 64-83.	0.8	109
11	Conceptualizing Ecological Responses to Dam Removal: If You Remove It, What's to Come?. BioScience, 2019, 69, 26-39.	2.2	96
12	Camera system considerations for geomorphic applications of SfM photogrammetry. Earth Surface Processes and Landforms, 2017, 42, 969-986.	1.2	85
13	Rapid reservoir erosion, hyperconcentrated flow, and downstream deposition triggered by breaching of 38 m tall Condit Dam, White Salmon River, Washington. Journal of Geophysical Research F: Earth Surface, 2014, 119, 1376-1394.	1.0	76
14	Acute sedimentation response to rainfall following the explosive phase of the 2008â€“2009 eruption of ChaitÃ©n volcano, Chile. Bulletin of Volcanology, 2013, 75, 1.	1.1	74
15	Pebble orientation on large, experimental debris-flow deposits. Sedimentary Geology, 1998, 117, 151-164.	1.0	73
16	Landscape context and the biophysical response of rivers to dam removal in the United States. PLoS ONE, 2017, 12, e0180107.	1.1	67
17	Posteruption suspended sediment transport at Mount St. Helens: Decadal-scale relationships with landscape adjustments and river discharges. Journal of Geophysical Research, 2004, 109, .	3.3	64
18	Physical Events, Environments, and Geologicalâ€"Ecological Interactions at Mount St. Helens: March 1980â€“2004. , 2005, , 27-44.		55

#	Article	IF	Citations
19	Peak flow responses to landscape disturbances caused by the cataclysmic 1980 eruption of Mount St. Helens, Washington. Bulletin of the Geological Society of America, 2006, 118, 938-958.	1.6	54
20	Extraordinary sediment delivery and rapid geomorphic response following the 2008â€“2009 eruption of ChaitÃ©n Volcano, Chile. Water Resources Research, 2016, 52, 5075-5094.	1.7	54
21	Modeling lahar behavior and hazards. , 0, , 300-330.		50
22	Monitoring lava-dome growth during the 2004â€“2008 Mount St. Helens, Washington, eruption using oblique terrestrial photography. Earth and Planetary Science Letters, 2009, 286, 243-254.	1.8	41
23	Decadal-scale change of infiltration characteristics of a tephra-mantled hillslope at Mount St Helens, Washington. Hydrological Processes, 2005, 19, 3621-3630.	1.1	39
24	Overview of ChaitÃ©n Volcano, Chile, and its 2008-2009 eruption. Andean Geology, 2013, 40, .	0.2	36
25	Voluminous ice-rich and water-rich lahars generated during the 2009 eruption of Redoubt Volcano, Alaska. Journal of Volcanology and Geothermal Research, 2013, 259, 389-413.	0.8	35
26	Initial Fluvial Response to the Removal of Oregon's Marmot Dam. Eos, 2008, 89, 241-242.	0.1	32
27	Pyroclastic density currents associated with the 2008-2009 eruption of ChaitÃ©n Volcano (Chile): Forest disturbances, deposits, and dynamics. Andean Geology, 2013, 40, .	0.2	28
28	Multidecadal Geomorphic Evolution of a Profoundly Disturbed Gravel Bed River Systemâ€”A Complex, Nonlinear Response and Its Impact on Sediment Delivery. Journal of Geophysical Research F: Earth Surface, 2019, 124, 1281-1309.	1.0	25
29	Joint NOAA/NWS/USGS Prototype Debris Flow Warning System for Recently Burned Areas in Southern California. Bulletin of the American Meteorological Society, 2008, 89, 1845-1852.	1.7	24
30	Unusual ice diamicts emplaced during the December 15, 1989 eruption of redoubt volcano, Alaska. Journal of Volcanology and Geothermal Research, 1994, 62, 409-428.	0.8	23
31	Disruption of Drift glacier and origin of floods during the 1989â€“1990 eruptions of Redoubt Volcano, Alaska. Journal of Volcanology and Geothermal Research, 1994, 62, 369-385.	0.8	22
32	Interdisciplinary Studies of Eruption at ChaitÃ©n Volcano, Chile. Eos, 2010, 91, 381-382.	0.1	22
33	Debris flows at Mount St. Helens, Washington, USA. , 2005, , 685-731.		18
34	Sediment Erosion and Delivery from Toutle River Basin After the 1980 Eruption of Mount St. Helens: A 30-Year Perspective. , 2018, , 19-44.		14
35	Debris-flow hazards at San Salvador, San Vicente, and San Miguel volcanoes, El Salvador. , 2004, , .		11
36	Landslides triggered by the 13 January and 13 February 2001 earthquakes in El Salvador. , 2004, , .		10

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37	Experimental and Field Observations of Breach Dynamics Accompanying Erosion of Marmot Cofferdam, Sandy River, Oregon. , 2008, , .		10
38	Geomorphic Change and Vegetation Development on the Muddy River Mudflow Deposit. , 2005, , 75-91.		10
39	Sedimentology and Clast Orientations of the 18 May 1980 Southwest-Flank Lahars, Mount St. Helens, Washington. Journal of Sedimentary Research, 1986, Vol. 56, .	0.8	9
40	Surface morphology of caldera-forming eruption deposits revealed by lidar mapping of Crater Lake National Park, Oregon â€“ Implications for deposition and surface modification. Journal of Volcanology and Geothermal Research, 2017, 342, 61-78.	0.8	9
41	Effective Hydrological Events in an Evolving Midâ€latitude Mountain River System Following Cataclysmic Disturbanceâ€”A Saga of Multiple Influences. Water Resources Research, 2021, 57, e2019WR026851.	1.7	7
42	After the disaster<subtitle>The hydrogeomorphic, ecological, and biological responses to the 1980 eruption of Mount St. Helens, Washington</subtitle>. , 2009, , .		7
43	Comment and Reply on "Hydroseismicityâ€”A hypothesis for the role of water in the generation of intraplate seismicity". Geology, 1988, 16, 562.	2.0	6
44	Mount St. Helens at 40. Science, 2020, 368, 704-705.	6.0	6
45	Discussion of â€œVerification of Vertically Rotating Flume Using Non-Newtonian Fluidsâ€•by R. Huizinga. Journal of Hydraulic Engineering, 1997, 123, 936-937.	0.7	5
46	Geomorphic Response of the Muddy River Basin to the 1980 Eruptions of Mount St. Helens, 1980â€“2000. , 2018, , 45-70.		3
47	Hindered settling. , 1978, , 578-582.		3
48	Subaerial volcaniclastic deposits â€“ influences of initiation mechanisms and transport behaviour on characteristics and distributions. Geological Society Special Publication, 2023, 520, 29-100.	0.8	3
49	Debris flow. , 1978, , 295-300.		1
50	Gravity-Driven Consolidation of Granular Slurries–Implications for Debris-Flow Deposition and Deposit Characteristics. Journal of Sedimentary Research, 2000, Vol. 70 (2000),, .	0.8	0
51	Slurry. , 1978, , 1118-1120.		0