

Irina Overeem

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

4,921
citations

147801

31
h-index

133252

59
g-index

70
all docs

70
docs citations

70
times ranked

5587
citing authors

#	ARTICLE	IF	CITATIONS
1	Sinking deltas due to human activities. <i>Nature Geoscience</i> , 2009, 2, 681-686.	12.9	1,823
2	Sea ice loss enhances wave action at the Arctic coast. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	201
3	Socio-economic Impacts on Flooding: A 4000-Year History of the Yellow River, China. <i>Ambio</i> , 2012, 41, 682-698.	5.5	190
4	Earth's sediment cycle during the Anthropocene. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 179-196.	29.7	149
5	The Late Cenozoic Eridanos delta system in the Southern North Sea Basin: a climate signal in sediment supply?. <i>Basin Research</i> , 2001, 13, 293-312.	2.7	148
6	Land subsidence at aquaculture facilities in the Yellow River delta, China. <i>Geophysical Research Letters</i> , 2013, 40, 3898-3902.	4.0	144
7	Mapping the future expansion of Arctic open water. <i>Nature Climate Change</i> , 2016, 6, 280-285.	18.8	137
8	Exceptional increases in fluvial sediment fluxes in a warmer and wetter High Mountain Asia. <i>Science</i> , 2021, 374, 599-603.	12.6	121
9	Substantial export of suspended sediment to the global oceans from glacial erosion in Greenland. <i>Nature Geoscience</i> , 2017, 10, 859-863.	12.9	110
10	The effect of changing sea ice on the physical vulnerability of Arctic coasts. <i>Cryosphere</i> , 2014, 8, 1777-1799.	3.9	109
11	InSAR measurements of compaction and subsidence in the Ganges-Brahmaputra Delta, Bangladesh. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1768-1781.	2.8	102
12	A model of water and sediment balance as determinants of relative sea level rise in contemporary and future deltas. <i>Geomorphology</i> , 2018, 305, 209-220.	2.6	90
13	Connectivity of fluvial point-bar deposits: An example from the Miocene Huesca fluvial fan, Ebro Basin, Spain. <i>AAPG Bulletin</i> , 2008, 92, 1109-1129.	1.5	83
14	Models of Deltaic and Inner Continental Shelf Landform Evolution. <i>Annual Review of Earth and Planetary Sciences</i> , 2007, 35, 685-715.	11.0	81
15	Floods, floodplains, delta plains – A satellite imaging approach. <i>Sedimentary Geology</i> , 2012, 267-268, 1-14.	2.1	81
16	Small-scale stratigraphy in a large ramp delta: recent and Holocene sedimentation in the Volga delta, Caspian Sea. <i>Sedimentary Geology</i> , 2003, 159, 133-157.	2.1	78
17	Delta progradation in Greenland driven by increasing glacial mass loss. <i>Nature</i> , 2017, 550, 101-104.	27.8	74
18	Shifting discharge peaks in arctic rivers, 1977–2007. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2010, 92, 285-296.	1.5	72

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19	Modeling erosion of ice-rich permafrost bluffs along the Alaskan Beaufort Sea coast. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1155-1179.	2.8	71
20	Global mapping of storm surges and the assessment of coastal vulnerability. <i>Natural Hazards</i> , 2013, 66, 1295-1312.	3.4	60
21	Anthropocene metamorphosis of the Indus Delta and lower floodplain. <i>Anthropocene</i> , 2013, 3, 24-35.	3.3	58
22	Design with nature: Causation and avoidance of catastrophic flooding, Myanmar. <i>Earth-Science Reviews</i> , 2017, 165, 81-109.	9.1	52
23	Promises and perils of sand exploitation in Greenland. <i>Nature Sustainability</i> , 2019, 2, 98-104.	23.7	51
24	MODIS observed increase in duration and spatial extent of sediment plumes in Greenland fjords. <i>Cryosphere</i> , 2014, 8, 1161-1176.	3.9	50
25	Sediment plumes as a proxy for local ice-sheet runoff in Kangerlussuaq Fjord, West Greenland. <i>Journal of Glaciology</i> , 2010, 56, 813-821.	2.2	47
26	Thermal Erosion of a Permafrost Coastline: Improving Process-Based Models Using Time-Lapse Photography. <i>Arctic, Antarctic, and Alpine Research</i> , 2011, 43, 474-484.	1.1	47
27	The Holocene sedimentary history of the Kangerlussuaq Fjord-valley fill, West Greenland. <i>Quaternary Science Reviews</i> , 2012, 35, 29-50.	3.0	44
28	River linking in India: Downstream impacts on water discharge and suspended sediment transport to deltas. <i>Elementa</i> , 2018, 6, .	3.2	44
29	The deglaciation of Clyde Inlet, northeastern Baffin Island, Arctic Canada. <i>Journal of Quaternary Science</i> , 2007, 22, 223-232.	2.1	43
30	The Expanding Footprint of Rapid Arctic Change. <i>Earth's Future</i> , 2019, 7, 212-218.	6.3	38
31	Continuously amplified warming in the Alaskan Arctic: Implications for estimating global warming hiatus. <i>Geophysical Research Letters</i> , 2017, 44, 9029-9038.	4.0	36
32	Stratigraphic variability due to uncertainty in model boundary conditions: A case-study of the New Jersey Shelf over the last 40,000 years. <i>Marine Geology</i> , 2005, 224, 23-41.	2.1	31
33	LATITUDINAL CONTROLS ON SILICICLASTIC SEDIMENT PRODUCTION AND TRANSPORT. , 2019, , 14-28.		29
34	Modeling flood dynamics along the superelevated channel belt of the Yellow River over the last 3000 years. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1321-1351.	2.8	28
35	Changing Arctic River Dynamics Cause Localized Permafrost Thaw. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2324-2344.	2.8	27
36	Strategies for integrated modeling: The community surface dynamics modeling system example. <i>Environmental Modelling and Software</i> , 2013, 39, 314-321.	4.5	26

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37	Air Temperature Regulates Erodible Landscape, Water, and Sediment Fluxes in the Permafrost-Dominated Catchment on the Tibetan Plateau. <i>Water Resources Research</i> , 2021, 57, e2020WR028193.	4.2	26
38	Three-Dimensional Numerical Modeling of Deltas. , 2011, , 11-30.		24
39	Sensitivity evaluation of the Kudryavtsev permafrost model. <i>Science of the Total Environment</i> , 2020, 720, 137538.	8.0	22
40	Modeling the subsurface thermal impact of Arctic thaw lakes in a warming climate. <i>Computers and Geosciences</i> , 2013, 53, 69-79.	4.2	20
41	Modelling Holocene stratigraphy and depocentre migration of the Volga delta due to Caspian Sea-level change. <i>Sedimentary Geology</i> , 2003, 159, 159-175.	2.1	19
42	Numerical modeling of glacial sediment production and transport during deglaciation. <i>Geomorphology</i> , 2012, 167-168, 102-114.	2.6	19
43	9.40 Impacts of Humans on River Fluxes and Morphology. , 2013, , 828-842.		19
44	River inundation suggests ice-sheet runoff retention. <i>Journal of Glaciology</i> , 2015, 61, 776-788.	2.2	18
45	Doomed to drown? Sediment dynamics in the human-controlled floodplains of the active Bengal Delta. <i>Elementa</i> , 2017, 5, .	3.2	18
46	A synthesis dataset of permafrost-affected soil thermal conditions for Alaska, USA. <i>Earth System Science Data</i> , 2018, 10, 2311-2328.	9.9	18
47	Stable and Sustainable: Delta Dynamics Versus the Human Need for Stability. <i>Earth's Future</i> , 2021, 9, e2021EF002121.	6.3	15
48	Ice-dominated Arctic deltas. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 225-240.	29.7	15
49	CSDMS: a community platform for numerical modeling of Earth surface processes. <i>Geoscientific Model Development</i> , 2022, 15, 1413-1439.	3.6	12
50	Process-response modelling of fluvio-deltaic stratigraphy. <i>Computers and Geosciences</i> , 2008, 34, 1394-1416.	4.2	11
51	Quantifying sediment storage on the floodplains outside levees along the lower Yellow River during the years 1580–1849. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 581-594.	2.5	11
52	A Modeling Toolbox for Permafrost Landscapes. <i>Eos</i> , 2018, 99, .	0.1	9
53	Taking it to the streets: The case for modeling in the geosciences undergraduate curriculum. <i>Computers and Geosciences</i> , 2013, 53, 123-128.	4.2	8
54	The Presence and Widespread Distribution of Dark Sediment in Greenland Ice Sheet Supraglacial Streams Implies Substantial Impact of Microbial Communities on Sediment Deposition and Albedo. <i>Geophysical Research Letters</i> , 2021, 48, 2020GL088444.	4.0	7

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55	Stratigraphic Model Predictions of Geoacoustic Properties. IEEE Journal of Oceanic Engineering, 2006, 31, 266-283.	3.8	6
56	Hurricane Deposits on Carbonate Platforms: A Case Study of Hurricane Irma Deposits on Little Ambergris Cay, Turks and Caicos Islands. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005597.	2.8	6
57	Dominant process zones in a mixed fluvial-tidal delta are morphologically distinct. Earth Surface Dynamics, 2020, 8, 809-824.	2.4	6
58	Mapping of fluvial fairways in the Ten Boer Member, Southern Permian Basin. , 2011, , 105-117.		5
59	Greenland: Build an economy on sand. Science, 2017, 358, 879-879.	12.6	4
60	Providing multidisciplinary scientific advice for coastal planning in Kitimat Arm, British Columbia. Geological Society Special Publication, 2019, 477, 567-581.	1.3	4
61	Experimental exploration of the stratigraphy of fjords fed by glaciofluvial systems. Geological Society Special Publication, 2010, 344, 125-142.	1.3	2
62	A novel technique to detect turbid water and mask clouds in Greenland fjords. International Journal of Remote Sensing, 2016, 37, 1730-1746.	2.9	1
63	HIGH-LATITUDE FJORD VALLEY FILLS: A CASE STUDY OF CLYDE FJORDHEAD, BAFFIN ISLAND, ARCTIC CANADA. , 2019, , 93-106.		1