

Sergei E Medvedev

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,305
citations

361045

20
h-index

525886

27
g-index

30
all docs

30
docs citations

30
times ranked

2229
citing authors

#	ARTICLE	IF	CITATIONS
1	Crustal channel flows: 1. Numerical models with applications to the tectonics of the Himalayan-Tibetan orogen. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	541
2	Crustal channel flows: 2. Numerical models with implications for metamorphism in the Himalayan-Tibetan orogen. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	316
3	GlobSed: Updated Total Sediment Thickness in the World's Oceans. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 1756-1772.	1.0	227
4	Generation of intermediate-depth earthquakes by self-localizing thermal runaway. <i>Nature Geoscience</i> , 2009, 2, 137-140.	5.4	186
5	The African Plate: A history of oceanic crust accretion and subduction since the Jurassic. <i>Tectonophysics</i> , 2013, 604, 4-25.	0.9	164
6	Salt tectonics driven by differential sediment loading: stability analysis and finite-element experiments. <i>Basin Research</i> , 2004, 16, 199-218.	1.3	123
7	Evolution of orogenic wedges and continental plateaux: insights from crustal thermal-mechanical models overlying subducting mantle lithosphere. <i>Geophysical Journal International</i> , 2003, 153, 27-51.	1.0	106
8	Relationship between tectonic overpressure, deviatoric stress, driving force, isostasy and gravitational potential energy. <i>Geophysical Journal International</i> , 2014, 197, 680-696.	1.0	80
9	4D Arctic: A Glimpse into the Structure and Evolution of the Arctic in the Light of New Geophysical Maps, Plate Tectonics and Tomographic Models. <i>Surveys in Geophysics</i> , 2014, 35, 1095-1122.	2.1	70
10	Indentation of a continent with a built-in thickness change: experiment and nature. <i>Tectonophysics</i> , 2000, 320, 243-270.	0.9	48
11	Salt extrusion at Kuh-e-Jahani, Iran, from June 1994 to November 1997. <i>Geological Society Special Publication</i> , 2000, 174, 93-110.	0.8	45
12	Vertical motions of the fjord regions of central East Greenland: Impact of glacial erosion, deposition, and isostasy. <i>Geology</i> , 2008, 36, 539.	2.0	41
13	The Lunar rayed-crater population – Characteristics of the spatial distribution and ray retention. <i>Earth and Planetary Science Letters</i> , 2010, 295, 147-158.	1.8	41
14	Influence of ice sheet and glacial erosion on passive margins of Greenland. <i>Geomorphology</i> , 2013, 193, 36-46.	1.1	39
15	New extended thin-sheet approximation for geodynamic applications–I. Model formulation. <i>Geophysical Journal International</i> , 1999, 136, 567-585.	1.0	36
16	Could the mantle have caused subsidence of the Congo Basin?. <i>Tectonophysics</i> , 2012, 514-517, 62-80.	0.9	32
17	Growth of continental plateaux by channel injection: models designed to address constraints and thermomechanical consistency. <i>Geological Society Special Publication</i> , 2006, 268, 147-164.	0.8	27
18	Evolution of topography of post-Devonian Scandinavia: Effects and rates of erosion. <i>Geomorphology</i> , 2015, 231, 229-245.	1.1	27

#	ARTICLE	IF	CITATIONS
19	New extended thin-sheet approximation for geodynamic applications–II. Two-dimensional examples. <i>Geophysical Journal International</i> , 1999, 136, 586-608.	1.0	25
20	Distribution and magnitude of stress due to lateral variation of gravitational potential energy between Indian lowland and Tibetan plateau. <i>Geophysical Journal International</i> , 2019, 216, 1313-1333.	1.0	25
21	Understanding lithospheric stresses: systematic analysis of controlling mechanisms with applications to the African Plate. <i>Geophysical Journal International</i> , 2016, 207, 393-413.	1.0	22
22	Mechanics of viscous wedges: Modeling by analytical and numerical approaches. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 9-1.	3.3	21
23	Shear heating in extensional detachments: Implications for the thermal history of the Devonian basins of W Norway. <i>Tectonophysics</i> , 2013, 608, 1073-1085.	0.9	19
24	Erosion-driven vertical motions of the circum Arctic: Comparative analysis of modern topography. <i>Journal of Geodynamics</i> , 2018, 119, 62-81.	0.7	15
25	Spontaneous dissipation of elastic energy by self-localizing thermal runaway. <i>Physical Review E</i> , 2009, 80, 046105.	0.8	11
26	Development of sedimentary basins: differential stretching, phase transitions, shear heating and tectonic pressure. <i>Basin Research</i> , 2017, 29, 591-604.	1.3	7
27	Controls on the Deformation of the Central and Southern Andes (10°–35° S): Insight from Thin-Sheet Numerical Modeling. , 2006, , 475-494.		6
28	Influence of glaciations on North Sea petroleum systems. <i>Geological Society Special Publication</i> , 2022, 494, 481-498.	0.8	5