

Saswata Hier-Majumder

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3654559/publications.pdf>

Version: 2024-02-01

37
papers

991
citations

471509

17
h-index

434195

31
g-index

38
all docs

38
docs citations

38
times ranked

1090
citing authors

#	ARTICLE	IF	CITATIONS
1	Pore-scale assessment of subsurface carbon storage potential: implications for the UK Geoenery Observatories project. <i>Petroleum Geoscience</i> , 2021, 27, petgeo2020-092.	1.5	9
2	Evidence of Volatile-Induced Melting in the Northeast Asian Upper Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022167.	3.4	3
3	Evidence for melt leakage from the Hawaiian plume above the mantle transition zone. <i>Physics of the Earth and Planetary Interiors</i> , 2021, 321, 106813.	1.9	2
4	Stability and migration of slab-derived carbonate-rich melts above the transition zone. <i>Earth and Planetary Science Letters</i> , 2020, 531, 116000.	4.4	15
5	Pore network analysis of Brae Formation sandstone, North Sea. <i>Marine and Petroleum Geology</i> , 2020, 122, 104614.	3.3	12
6	Pore Network Modeling of Core Forming Melts in Planetesimals. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	4
7	An inversion approach for analysing the physical properties of a seismic low-velocity layer in the upper mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 304, 106502.	1.9	4
8	Microstructural Analysis From X-Ray CT Images of the Brae Formation Sandstone, North Sea. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	12
9	Geological Carbon Sequestration by Reactive Infiltration Instability. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	5
10	The Stability of Carbonate Melts In the Mantle. <i>Acta Geologica Sinica</i> , 2019, 93, 172-172.	1.4	0
11	The Influence of Microporous Cements on the Pore Network Geometry of Natural Sedimentary Rocks. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	24
12	Image Segmentation and Analysis of Pore Network Geometry in Two Natural Sandstones. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	33
13	Analytical solution for two-phase flow within and outside a sphere under pure shear. <i>Journal of Fluid Mechanics</i> , 2018, 848, 987-1012.	3.4	1
14	Pervasive upper mantle melting beneath the western US. <i>Earth and Planetary Science Letters</i> , 2017, 463, 25-35.	4.4	35
15	The origin of volatiles in the Earth's mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3078-3092.	2.5	57
16	Coupled flow and anisotropy in the UltraLow Velocity Zones. <i>Earth and Planetary Science Letters</i> , 2016, 450, 274-282.	4.4	6
17	Development of anisotropic contiguity in deforming partially molten aggregates: 2. Implications for the lithosphereâ€œasthenosphere boundary. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 764-777.	3.4	8
18	Development of anisotropic contiguity in deforming partially molten aggregates: 1. Theory and fast multipole boundary elements method. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 744-763.	3.4	2

#	ARTICLE	IF	CITATIONS
19	Melt redistribution by pulsed compaction within UltraLow Velocity Zones. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 229, 134-143.	1.9	9
20	Electrical conductivity during incipient melting in the oceanic low-velocity zone. <i>Nature</i> , 2014, 509, 81-85.	27.8	164
21	The influence of temperature, bulk composition, and melting on the seismic signature of the low-velocity layer above the transition zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 971-983.	3.4	13
22	Sustainability of a subsurface ocean within Triton's interior. <i>Icarus</i> , 2012, 220, 339-347.	2.5	63
23	A three-dimensional microgeodynamic model of melt geometry in the Earth's deep interior. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
24	An experimental study of the effects of surface tension in homogenizing perturbations in melt fraction. <i>Earth and Planetary Science Letters</i> , 2011, 307, 349-360.	4.4	17
25	Seismic signature of small melt fraction atop the transition zone. <i>Earth and Planetary Science Letters</i> , 2011, 308, 334-342.	4.4	40
26	Development of anisotropic mobility during two-phase flow. <i>Geophysical Journal International</i> , 2011, 186, 59-68.	2.4	14
27	Processes controlling lithium isotopic distribution in contact aureoles: A case study of the Florence County pegmatites, Wisconsin. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	24
28	Influence of dihedral angle on the seismic velocities in partially molten rocks. <i>Earth and Planetary Science Letters</i> , 2010, 299, 23-32.	4.4	21
29	Relationship between the viscosity and topography of the ultralow-velocity zone near the core-mantle boundary. <i>Earth and Planetary Science Letters</i> , 2010, 299, 382-386.	4.4	13
30	A generalized formulation of interfacial tension driven fluid migration with dissolution/precipitation. <i>Earth and Planetary Science Letters</i> , 2009, 288, 138-148.	4.4	27
31	Influence of contiguity on seismic velocities of partially molten aggregates. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	33
32	Role of dynamic grain boundary wetting in fluid circulation beneath volcanic arcs. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	29
33	Role of grain boundaries in magma migration and storage. <i>Earth and Planetary Science Letters</i> , 2006, 248, 735-749.	4.4	67
34	Textures in Experimentally Deformed Olivine Aggregates: The Effects of Added Water and Melt. <i>Materials Science Forum</i> , 2005, 495-497, 63-68.	0.3	1
35	Influence of protons on Fe-Mg interdiffusion in olivine. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	112
36	Water weakening of clinopyroxene in diffusion creep. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	48

#	ARTICLE	IF	CITATIONS
37	On grain boundary wetting during deformation. Acta Materialia, 2004, 52, 3425-3433.	7.9	40