Sia Ghelichkhan

List of Publications by Year in descending order

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840776 888059 16 521 11 17 citations h-index g-index papers 19 19 19 432 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Global distribution of sediment-hosted metals controlled by craton edge stability. Nature Geoscience, 2020, 13, 504-510.	12.9	114
2	On the ratio of dynamic topography and gravity anomalies in a dynamic Earth. Geophysical Research Letters, 2016, 43, 2510-2516.	4.0	68
3	Retrodictions of Mid Paleogene mantle flow and dynamic topography in the Atlantic region from compressible high resolution adjoint mantle convection models: Sensitivity to deep mantle viscosity and tomographic input model. Gondwana Research, 2018, 53, 252-272.	6.0	62
4	Stratigraphic framework for the plume mode of mantle convection and the analysis of interregional unconformities on geological maps. Gondwana Research, 2018, 53, 159-188.	6.0	44
5	Fast asthenosphere motion in highâ€resolution global mantle flow models. Geophysical Research Letters, 2015, 42, 7429-7435.	4.0	39
6	Quantifying the Relationship Between Shortâ€Wavelength Dynamic Topography and Thermomechanical Structure of the Upper Mantle Using Calibrated Parameterization of Anelasticity. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019062.	3 . 4	34
7	Constraining central Neoâ€√ethys Ocean reconstructions with mantle convection models. Geophysical Research Letters, 2016, 43, 9595-9603.	4.0	33
8	Large-scale simulation of mantle convection based on a new matrix-free approach. Journal of Computational Science, 2019, 31, 60-76.	2.9	24
9	The compressible adjoint equations in geodynamics: derivation and numerical assessment. GEM - International Journal on Geomathematics, 2016, 7, 1-30.	1.6	23
10	Structure and dynamics of the oceanic lithosphere-asthenosphere system. Physics of the Earth and Planetary Interiors, 2020, 309, 106559.	1.9	21
11	The adjoint equations for thermochemical compressible mantle convection: derivation and verification by twin experiments. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180329.	2.1	13
12	Global mantle flow retrodictions for the early Cenozoic using an adjoint method: evolving dynamic topographies, deep mantle structures, flow trajectories and sublithospheric stresses. Geophysical Journal International, 2021, 226, 1432-1460.	2.4	12
13	On the observability of epeirogenic movement in current and future gravity missions. Gondwana Research, 2018, 53, 273-284.	6.0	11
14	TerraNeoâ€"Mantle Convection Beyond a Trillion Degrees of Freedom. Lecture Notes in Computational Science and Engineering, 2020, , 569-610.	0.3	8
15	The precession constant and its long-term variation. Icarus, 2021, 358, 114172.	2.5	6
16	Towards automatic finite-element methods for geodynamics via Firedrake. Geoscientific Model Development, 2022, 15, 5127-5166.	3.6	4