

Cian R Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

779
citations

1163117

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h-index

1281871

11
g-index

17
all docs

17
docs citations

17
times ranked

962
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluid flow in subduction zones: The role of solid rheology and compaction pressure. Earth and Planetary Science Letters, 2014, 401, 261-274.	4.4	391
2	Fluidity: A fully unstructured anisotropic adaptive mesh computational modeling framework for geodynamics. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	89
3	On the solvability of incompressible Stokes with viscoplastic rheologies in geodynamics. Geochemistry, Geophysics, Geosystems, 2016, 17, 2213-2238.	2.5	60
4	An implicit free surface algorithm for geodynamical simulations. Physics of the Earth and Planetary Interiors, 2012, 194-195, 25-37.	1.9	51
5	Fluid migration in the mantle wedge: Influence of mineral grain size and mantle compaction. Journal of Geophysical Research: Solid Earth, 2017, 122, 6247-6268.	3.4	41
6	Deep decoupling in subduction zones: Observations and temperature limits. , 2020, 16, 1408-1424.		30
7	The influence of spreading rate and permeability on melt focusing beneath mid-ocean ridges. Physics of the Earth and Planetary Interiors, 2020, 304, 106486.	1.9	28
8	Effects of fluid influx, fluid viscosity, and fluid density on fluid migration in the mantle wedge and their implications for hydrous melting. , 2019, 15, 1-23.		27
9	TerraFERMA: The Transparent Finite Element Rapid Model Assembler for multiphysics problems in Earth sciences. Geochemistry, Geophysics, Geosystems, 2017, 18, 769-810.	2.5	24
10	Comparing approaches for numerical modelling of tsunami generation by deformable submarine slides. Ocean Modelling, 2016, 100, 125-140.	2.4	23
11	Analytical solutions for mantle flow in cylindrical and spherical shells. Geoscientific Model Development, 2021, 14, 1899-1919.	3.6	8
12	An Exactly Mass Conserving and Pointwise Divergence Free Velocity Method: Application to Compositional Buoyancy Driven Flow Problems in Geodynamics. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009349.	2.5	3
13	A Pointwise Conservative Method for Thermochemical Convection Under the Compressible Anelastic Liquid Approximation. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	2