

# Cian R Wilson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4351094/publications.pdf>

Version: 2024-02-01

13  
papers

779  
citations

1163117

8  
h-index

1281871

11  
g-index

17  
all docs

17  
docs citations

17  
times ranked

962  
citing authors

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