

# David Rees Jones

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1772114/publications.pdf>

Version: 2024-02-01

18  
papers

440  
citations

840728

11  
h-index

839512

18  
g-index

21  
all docs

21  
docs citations

21  
times ranked

787  
citing authors

#	ARTICLE	IF	CITATIONS
1	The frequency and extent of sub-ice phytoplankton blooms in the Arctic Ocean. <i>Science Advances</i> , 2017, 3, e1601191.	10.3	159
2	Thermal impact of magmatism in subduction zones. <i>Earth and Planetary Science Letters</i> , 2018, 481, 73-79.	4.4	38
3	Sea-ice thermodynamics and brine drainage. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140166.	3.4	32
4	Physics of Melt Extraction from the Mantle: Speed and Style. <i>Annual Review of Earth and Planetary Sciences</i> , 2022, 50, 507-540.	11.0	30
5	Fluxes through steady chimneys in a mushy layer during binary alloy solidification. <i>Journal of Fluid Mechanics</i> , 2013, 714, 127-151.	3.4	23
6	A physically based parameterization of gravity drainage for sea-ice modeling. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5599-5621.	2.6	23
7	Frazil-ice growth rate and dynamics in mixed layers and sub-ice-shelf plumes. <i>Cryosphere</i> , 2018, 12, 25-38.	3.9	21
8	A simple dynamical model for gravity drainage of brine from growing sea ice. <i>Geophysical Research Letters</i> , 2013, 40, 307-311.	4.0	19
9	Salinity Control of Thermal Evolution of Late Summer Melt Ponds on Arctic Sea Ice. <i>Geophysical Research Letters</i> , 2018, 45, 8304-8313.	4.0	17
10	Devolatilization of Subducting Slabs, Part II: Volatile Fluxes and Storage. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 6199-6222.	2.5	17
11	Reaction-infiltration instability in a compacting porous medium. <i>Journal of Fluid Mechanics</i> , 2018, 852, 5-36.	3.4	14
12	The Effect of Melt Pond Geometry on the Distribution of Solar Energy Under First-Year Sea Ice. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085956.	4.0	11
13	Consequences of glacial cycles for magmatism and carbon transport at mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 2019, 528, 115845.	4.4	10
14	Solidification of a disk-shaped crystal from a weakly supercooled binary melt. <i>Physical Review E</i> , 2015, 92, 022406.	2.1	8
15	Devolatilization of Subducting Slabs, Part I: Thermodynamic Parameterization and Open System Effects. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5667-5690.	2.5	6
16	Fast magma ascent, revised estimates from the deglaciation of Iceland. <i>Earth and Planetary Science Letters</i> , 2020, 542, 116324.	4.4	5
17	On the thermodynamic boundary conditions of a solidifying mushy layer with outflow. <i>Journal of Fluid Mechanics</i> , 2015, 762, .	3.4	4
18	Magmatic channelization by reactive and shear-driven instabilities at mid-ocean ridges: a combined analysis. <i>Geophysical Journal International</i> , 2021, 226, 582-609.	2.4	3