

Gregor Golabek

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,058
citations

279798

23
h-index

330143

37
g-index

56
all docs

56
docs citations

56
times ranked

1552
citing authors

#	ARTICLE	IF	CITATIONS
1	Olivine aggregates reveal a complex collisional history of the main group pallasite parent body. <i>Meteoritics and Planetary Science</i> , 2022, 57, 1098-1115.	1.6	2
2	Modification of icy planetesimals by early thermal evolution and collisions: Constraints for formation time and initial size of comets and small KBOs. <i>Icarus</i> , 2021, 363, 114437.	2.5	8
3	Scaling laws for the geometry of an impact-induced magma ocean. <i>Earth and Planetary Science Letters</i> , 2021, 568, 116983.	4.4	25
4	Bifurcation of planetary building blocks during Solar System formation. <i>Science</i> , 2021, 371, 365-370.	12.6	108
5	Ferropericlase Control of Lower Mantle Rheology: Impact of Phase Morphology. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008688.	2.5	20
6	Two-stage formation of pallasites and the evolution of their parent bodies revealed by deformation experiments. <i>Earth and Planetary Science Letters</i> , 2020, 546, 116419.	4.4	12
7	Can Grain Size Reduction Initiate Transform Faults? Insights From a Numerical Study. <i>Tectonics</i> , 2020, 39, e2019TC005793.	2.8	15
8	Dry late accretion inferred from Venus's coupled atmosphere and internal evolution. <i>Nature Geoscience</i> , 2020, 13, 265-269.	12.9	27
9	Effect of Water on Lattice Thermal Conductivity of Ringwoodite and Its Implications for the Thermal Evolution of Descending Slabs. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087607.	4.0	16
10	Combined numerical and experimental study of microstructure and permeability in porous granular media. <i>Solid Earth</i> , 2020, 11, 1079-1095.	2.8	12
11	A water budget dichotomy of rocky protoplanets from ²⁶ Al-heating. <i>Nature Astronomy</i> , 2019, 3, 307-313.	10.1	91
12	Pore-scale permeability prediction for Newtonian and non-Newtonian fluids. <i>Solid Earth</i> , 2019, 10, 1717-1731.	2.8	15
13	Magma ascent in planetesimals: Control by grain size. <i>Earth and Planetary Science Letters</i> , 2019, 507, 154-165.	4.4	31
14	Water and the Interior Structure of Terrestrial Planets and Icy Bodies. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	33
15	Impact splash chondrule formation during planetesimal recycling. <i>Icarus</i> , 2018, 302, 27-43.	2.5	79
16	Coupling SPH and thermochemical models of planets: Methodology and example of a Mars-sized body. <i>Icarus</i> , 2018, 301, 235-246.	2.5	65
17	Late metal-silicate separation on the IAB parent asteroid: Constraints from combined W and Pt isotopes and thermal modelling. <i>Earth and Planetary Science Letters</i> , 2018, 482, 490-500.	4.4	33
18	Olivine grain growth in partially molten Fe-Ni-S: A proxy for the genesis of pallasite meteorites. <i>Earth and Planetary Science Letters</i> , 2018, 504, 38-52.	4.4	10

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19	Water and the Interior Structure of Terrestrial Planets and Icy Bodies. Space Sciences Series of ISSI, 2018, , 343-375.	0.0	0
20	Continental crust formation on early Earth controlled by intrusive magmatism. Nature, 2017, 545, 332-335.	27.8	174
21	The effects of short-lived radionuclides and porosity on the early thermo-mechanical evolution of planetesimals. Icarus, 2016, 274, 350-365.	2.5	89
22	Effect of a single large impact on the coupled atmosphere-interior evolution of Venus. Icarus, 2016, 268, 295-312.	2.5	38
23	Formation of ridges in a stable lithosphere in mantle convection models with a viscoplastic rheology. Geophysical Research Letters, 2015, 42, 4770-4777.	4.0	23
24	Fast grain growth of olivine in liquid Fe-S and the formation of pallasites with rounded olivine grains. Geochimica Et Cosmochimica Acta, 2015, 162, 259-275.	3.9	15
25	Is Vesta an intact and pristine protoplanet?. Icarus, 2015, 254, 190-201.	2.5	30
26	Numerical models of the thermomechanical evolution of planetesimals: Application to the acapulcoite- lodranite parent body. Meteoritics and Planetary Science, 2014, 49, 1083-1099.	1.6	59
27	Self-consistent generation of single-plume state for Enceladus using non-Newtonian rheology. Journal of Geophysical Research E: Planets, 2014, 119, 416-439.	3.6	13
28	Solid-state plastic deformation in the dynamic interior of a differentiated asteroid. Nature Geoscience, 2013, 6, 93-97.	12.9	32
29	N-body simulations of oligarchic growth of Mars: Implications for Hf-W chronology. Earth and Planetary Science Letters, 2013, 366, 6-16.	4.4	26
30	A comparison of numerical surface topography calculations in geodynamic modelling: an evaluation of the "sticky air" method. Geophysical Journal International, 2012, 189, 38-54.	2.4	301
31	Origin of the martian dichotomy and Tharsis from a giant impact causing massive magmatism. Icarus, 2011, 215, 346-357.	2.5	99
32	Protocore destabilization in planetary embryos formed by cold accretion: Feedbacks from non-Newtonian rheology and energy dissipation. Icarus, 2011, 213, 24-42.	2.5	4
33	Numerical modeling of protocore destabilization during planetary accretion: Methodology and results. Icarus, 2009, 204, 732-748.	2.5	50
34	Centrifuge assisted percolation of Fe-S melts in partially molten peridotite: Time constraints for planetary core formation. Earth and Planetary Science Letters, 2009, 288, 84-95.	4.4	39
35	Constraints on the Fe-S melt connectivity in mantle silicates from electrical impedance measurements. Physics of the Earth and Planetary Interiors, 2009, 177, 139-146.	1.9	38
36	Rheological controls on the terrestrial core formation mechanism. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	18

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37	A benchmark comparison of spontaneous subduction modelsâ€”Towards a free surface. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 171, 198-223.	1.9	361
38	Earth's core formation aided by flow channelling instabilities induced by iron diapirs. <i>Earth and Planetary Science Letters</i> , 2008, 271, 24-33.	4.4	46