Wladimir Neumann

List of Publications by Year
in descending order

21 papers	716 citations	687363 13 h-index	713466 21 g-index
26 all docs	26 docs citations	26 times ranked	943 citing authors

#	Article	IF	Citations
1	Mid-infrared emissivity of partially dehydrated asteroid (162173) Ryugu shows strong signs of aqueous alteration. Nature Communications, 2022, 13, 364.	12.8	10
2	Microporosity and parent body of the rubble-pile NEA (162173) Ryugu. Icarus, 2021, 358, 114166.	2.5	10
3	The old, unique C1 chondrite Flensburg â€“ Insight into the first processes of aqueous alteration, brecciation, and the diversity of water-bearing parent bodies and lithologies. Geochimica Et Cosmochimica Acta, 2021, 293, 142-186.	3.9	28
4	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. Nature Astronomy, 2021, 5, 766-774.	10.1	30
5	Common feedstocks of late accretion for the terrestrial planets. Nature Astronomy, 2021, 5, 1286-1296.	10.1	9
6	Macroporosity and Grain Density of Rubble Pile Asteroid (162173) Ryugu. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006519.	3.6	27
7	Ceresâ€™ partial differentiation: undifferentiated crust mixing with a water-rich mantle. Astronomy and Astrophysics, 2020, 633, A117.	5.1	17
8	Low thermal conductivity boulder with high porosity identified on C-type asteroid (162173) Ryugu. Nature Astronomy, 2019, 3, 971-976.	10.1	124
9	Differentiation of Enceladus and Retention of a Porous Core. Astrophysical Journal, 2019, 882, 47.	4.5	14
10	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. Science, 2019, 365, 817-820.	12.6	99
11	Towards 3D modelling of convection in planetesimals and meteorite parent bodies. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 490, L47-L51.	3.3	2
12	Slurry extrusion on Ceres from a convective mud-bearing mantle. Nature Geoscience, 2019, 12, 505-509.	12.9	42
13	Multistage Core Formation in Planetesimals Revealed by Numerical Modeling and Hfâ€W Chronometry of Iron Meteorites. Journal of Geophysical Research E: Planets, 2018, 123, 421-444.	3.6	10
14	Modeling the evolution of the parent body of acapulcoites and lodranites: A case study for partially differentiated asteroids. Icarus, 2018, 311, 146-169.	2.5	48
15	PLANET TOPERS: Planets, Tracing the Transfer, Origin, Preservation, and Evolution of their ReservoirS. Origins of Life and Evolution of Biospheres, 2016, 46, 369-384.	1.9	2
16	Modelling the internal structure of Ceres: Coupling of accretion with compaction by creep and implications for the water-rock differentiation. Astronomy and Astrophysics, 2015, 584, A117.	5.1	25
17	Water-Rock Differentiation of Icy Bodies by Darcy law, Stokes law, and Two-Phase Flow. Proceedings of the International Astronomical Union, 2015, 11, 261-266.	0.0	4
18	Modelling of compaction in planetesimals. Astronomy and Astrophysics, 2014, 567, A120.	5.1	20

#	Article	IF	Citations
19	Differentiation of Vesta: Implications for a shallow magma ocean. Earth and Planetary Science Letters, 2014, 395, 267-280.	4.4	117
20	The thermo-chemical evolution of Asteroid 21 Lutetia. Icarus, 2013, 224, 126-143.	2.5	14
21	Differentiation and core formation in accreting planetesimals. Astronomy and Astrophysics, 2012, 543, A141.	5.1	64