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	Low thermal conductivity boulder with high porosity identified on C-type asteroid (162173) Ryugu. Nature Astronomy, 2019, 3, 971-976.	10.1	124
2	Differentiation of Vesta: Implications for a shallow magma ocean. Earth and Planetary Science Letters, 2014, 395, 267-280.	4.4	117
3	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. Science, 2019, 365, 817-820.	12.6	99
4	Differentiation and core formation in accreting planetesimals. Astronomy and Astrophysics, 2012, 543, A141.	5.1	64
5	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
6	Slurry extrusion on Ceres from a convective mud-bearing mantle. Nature Geoscience, 2019, 12, 505-509.	12.9	42
7	Anomalously porous boulders on (162173) Ryugu as primordial materials from its parent body. Nature Astronomy, 2021, 5, 766-774.	10.1	30
8	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
9	Macroporosity and Grain Density of Rubble Pile Asteroid (162173) Ryugu. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006519.	3.6	27
10	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
11	Modelling of compaction in planetesimals. Astronomy and Astrophysics, 2014, 567, A120.	5.1	20
12	Ceresâ€™ partial differentiation: undifferentiated crust mixing with a water-rich mantle. Astronomy and Astrophysics, 2020, 633, A117.	5.1	17
13	The thermo-chemical evolution of Asteroid 21 Lutetia. Icarus, 2013, 224, 126-143.	2.5	14
14	Differentiation of Enceladus and Retention of a Porous Core. Astrophysical Journal, 2019, 882, 47.	4.5	14
15	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
16	Microporosity and parent body of the rubble-pile NEA (162173) Ryugu. Icarus, 2021, 358, 114166.	2.5	10
17	Mid-infrared emissivity of partially dehydrated asteroid (162173) Ryugu shows strong signs of aqueous alteration. Nature Communications, 2022, 13, 364.	12.8	10
18	Common feedstocks of late accretion for the terrestrial planets. Nature Astronomy, 2021, 5, 1286-1296.	10.1	9

#	Article	IF	Citations
19	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
20	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
21	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