

Frank Spahn

List of Publications by Year in descending order

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18
papers

709
citations

1040056

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h-index

940533

16
g-index

18
all docs

18
docs citations

18
times ranked

680
citing authors

#	ARTICLE	IF	CITATIONS
1	The Cassini Cosmic Dust Analyzer. Space Science Reviews, 2004, 114, 465-518.	8.1	230
2	Size distribution of particles in Saturn's rings from aggregation and fragmentation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9536-9541.	7.1	108
3	A belt of moonlets in Saturn's A ring. Nature, 2007, 449, 1019-1021.	27.8	91
4	Density structures in perturbed thin cold discs. Monthly Notices of the Royal Astronomical Society, 2002, 337, 1139-1152.	4.4	64
5	Structures induced by small moonlets in Saturn's rings: Implications for the Cassini Mission. Geophysical Research Letters, 2005, 32, .	4.0	59
6	Stability Analysis of a Keplerian Disk of Granular Grains: Influence of Thermal Diffusion. Icarus, 2000, 145, 657-660.	2.5	33
7	Vertical structures induced by embedded moonlets in Saturn's rings. Icarus, 2015, 252, 400-414.	2.5	32
8	Close Cassini flybys of Saturn's ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. Science, 2019, 364, .	12.6	24
9	A Librational Model for the Propeller Biorot in the Saturnian Ring System. Astrophysical Journal Letters, 2017, 840, L16.	8.3	23
10	Length Scales of Clustering in Granular Gases. Physical Review Letters, 1999, 82, 4819-4822.	7.8	13
11	The Coriolis effect on mass wasting during the Rheasilvia impact on asteroid Vesta. Geophysical Research Letters, 2016, 43, 12,340.	4.0	10
12	Stochastic forces in circumplanetary dust dynamics. Journal of Geophysical Research, 2003, 108, .	3.3	8
13	NUCLEATION AND GROWTH OF A SOLID PHASE IN A GAS EXPANDING INTO VACUUM. International Journal of Modern Physics C, 2007, 18, 676-684.	1.7	5
14	Hydrodynamic Simulations of Moonlet-induced Propellers in Saturn's Rings: Application to Biorot. Astronomical Journal, 2019, 157, 6.	4.7	3
15	Transverse halo orbits about Mars?. Geophysical Research Letters, 2003, 30, .	4.0	2
16	Moonlets in Dense Planetary Rings. , 0, , 157-197.		2
17	The role of adhesion for ensembles of mesoscopic particles. Granular Matter, 2012, 14, 197-202.	2.2	1
18	Hydrodynamic Simulations of Asymmetric Propeller Structures in Saturn's Rings. Astrophysical Journal, Supplement Series, 2019, 243, 31.	7.7	1