

Frank Spahn

List of Publications by Year in descending order

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18
papers

709
citations

1040018

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16
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18
all docs

18
docs citations

18
times ranked

680
citing authors

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