JÃ¼rgen Blum

List of Publications by Year
in descending order

176 papers	8,840 citations	50276 46 h-index	49909 87 g-index
183 all docs	183 docs citations	183 times ranked	3792 citing authors

#	Article	IF	Citations
1	Learning about comets from the study of mass distributions and fluxes of meteoroid streams. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2277-2289.	4.4	11
2	AMBITION â€“ comet nucleus cryogenic sample return. Experimental Astronomy, 2022, 54, 1077-1128.	3.7	4
3	The effect of hierarchical structure of the surface dust layer on the modelling of comet gas production. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5520-5534.	4.4	9
4	Transport Characteristics of a Hierarchical Near-Surface Layer of the Nucleus of Comet 67P/Churyumovâ€“Gerasimenko. Solar System Research, 2022, 56, 100-121.	0.7	5
5	Are there any pristine comets? Constraints from pebble structure. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3366-3394.	4.4	8
6	Formation of Comets. Universe, 2022, 8, 381.	2.5	13
7	The effect of varying porosity and inhomogeneities of the surface dust layer on the modelling of comet gas production. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2635-2646.	4.4	12
8	Transport Characteristics of the Near-Surface Layer of the Nucleus of Comet 67P/Churyumovâ€“Gerasimenko. Solar System Research, 2021, 55, 106-123.	0.7	8
9	Sublimation of ice-dust mixtures in cooled vacuum environments to reproduce cometary morphologies. Astronomy and Astrophysics, 2021, 649, A35.	5.1	10
10	Sublimation of organic-rich comet analog materials and their relevance in fracture formation. Astronomy and Astrophysics, 2021, 653, A153.	5.1	1
11	Thermal properties of lunar regolith simulant melting specimen. Acta Astronautica, 2021, 187, 429-437.	3.2	8
12	A method to distinguish between micro- and macro-granular surfaces of small Solar system bodies. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4705-4721.	4.4	5
13	The CoPhyLab comet-simulation chamber. Review of Scientific Instruments, 2021, 92, 115102.	1.3	6
14	Collisional properties of cm-sized high-porosity ice and dust aggregates and their applications to early planet formation. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5641-5656.	4.4	13
15	The Philae lander reveals low-strength primitive ice inside cometary boulders. Nature, 2020, 586, 697-701.	27.8	40
16	Sticky or not sticky? Measurements of the tensile strength of microgranular organic materials. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2517-2528.	4.4	20
17	The tensile strength of compressed dust samples and the catastrophic disruption threshold of pre-planetary matter. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2418-2424.	4.4	7
18	CO-driven activity constrains the origin of comets. Astronomy and Astrophysics, 2020, 636, L3.	5.1	12

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19	Experimental Phase Function and Degree of Linear Polarization Curves of Millimeter-sized Cosmic Dust Analogs. Astrophysical Journal, Supplement Series, 2020, 247, 19.	7.7	19
20	Activity of (6478) Gault during 2019 January 13â€"March 28. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2636-2647.	4.4	4
21	On the activity of comets: understanding the gas and dust emission from comet 67/Churyumovâ€"Gerasimenkoâ€™s south-pole region during perihelion. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3690-3715.	4.4	45
22	How comets work: nucleus erosion versus dehydration. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4039-4044.	4.4	46
23	Origin and Evolution of Cometary Nuclei. Space Science Reviews, 2020, 216, 1.	8.1	24
24	Tensile strength of dust-ice mixtures and their relevance as cometary analog material. Astronomy and Astrophysics, 2020, 642, A218.	5.1	13
25	Comparing the reflectivity of ungrouped carbonaceous chondrites with those of short-period comets like 2P/Encke. Astronomy and Astrophysics, 2020, 641, A58.	5.1	7
26	Scattering of light by a large, densely packed agglomerate of small silica spheres. Optics Letters, 2020, 45, 1679.	3.3	5
27	Observation of aerodynamic instability in the flow of a particle stream in a dilute gas. Astronomy and Astrophysics, 2019, 622, A151.	5.1	6
28	Experimenting with Mixtures of Water Ice and Dust as Analogues for Icy Planetary Material. Space Science Reviews, 2019, 215, 1.	8.1	29
29	How Comets Work. Astrophysical Journal Letters, 2019, 879, L8.	8.3	18
30	Compressive strength of comet 67P/Churyumov-Gerasimenko derived from Philae surface contacts. Astronomy and Astrophysics, 2019, 630, A2.	5.1	16
31	Homogeneity of 67P/Churyumov-Gerasimenko as seen by CONSERT: implication on composition and formation. Astronomy and Astrophysics, 2019, 630, A6.	5.1	23
32	The footprint of cometary dust analogues â€" II. Morphology as a tracer of tensile strength and application to dust collection by the Rosetta spacecraft. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3755-3765.	4.4	4
33	Synthesis of the morphological description of cometary dust at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A24.	5.1	100
34	CubeSat Particle Aggregation Collision Experiment (Q-PACE): Design of a 3U CubeSat mission to investigate planetesimal formation. Acta Astronautica, 2019, 155, 131-142.	3.2	4
35	Experiments on cometary activity: ejection of dust aggregates from a sublimating water-ice surface. Monthly Notices of the Royal Astronomical Society, 2019, 483, 1202-1210.	4.4	9
36	The refractory-to-ice mass ratio in comets. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3326-3340.	4.4	59

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37	Dust Evolution in Protoplanetary Discs and the Formation of Planetesimals. Space Science Reviews, 2018, 214, 1.	8.1	92
38	Debris disc constraints on planetesimal formation. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2564-2575.	4.4	36
39	The Physics of Protoplanetary Dust Agglomerates. X. High-velocity Collisions between Small and Large Dust Agglomerates as a Growth Barrier. Astrophysical Journal, 2018, 853, 74.	4.5	21
40	Dynamical properties and acceleration of hierarchical dust in the vicinity of comet 67P/Churyumovâ€"Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4896-4907.	4.4	10
41	Laboratory measurements of the sub-millimetre opacity of amorphous and micro-particulate H2O ices for temperatures above 80ÂK. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5022-5033.	4.4	7
42	Impact-Induced Energy Transfer and Dissipation in Granular Clusters under Microgravity Conditions. Physical Review Letters, 2018, 121, 208001.	7.8	15
43	The optical characteristics of the dust of sungrazing comet C/2012 S1 (ISON) observed at large heliocentric distances. Icarus, 2018, 313, 1-14.	2.5	6
44	Local growth of dust- and ice-mixed aggregates as cometary building blocks in the solar nebula. Astronomy and Astrophysics, 2018, 611, A18.	5.1	41
45	Sintering and sublimation of micrometre-sized water-ice particles: the formation of surface crusts on icy Solar System bodies. Monthly Notices of the Royal Astronomical Society, 2018, 479, 5272-5287.	4.4	23
46	The tensile strength of ice and dust aggregates and its dependence on particle properties. Monthly Notices of the Royal Astronomical Society, 2018, 479, 1273-1277.	4.4	94
47	The MASCOT Magnetometer. Space Science Reviews, 2017, 208, 433-449.	8.1	41
48	THE ROLE OF PEBBLE FRAGMENTATION IN PLANETESIMAL FORMATION. I. EXPERIMENTAL STUDY. Astrophysical Journal, 2017, 834, 145.	4.5	50
49	THE ROLE OF PEBBLE FRAGMENTATION IN PLANETESIMAL FORMATION. II. NUMERICAL SIMULATIONS. Astrophysical Journal, 2017, 835, 109.	4.5	46
50	Nanoindenting the Chelyabinsk Meteorite to Learn about Impact Deflection Effects in asteroids. Astrophysical Journal, 2017, 835, 157.	4.5	16
51	Fractal dust constrains the collisional history of comets. Monthly Notices of the Royal Astronomical Society, 2017, 469, S39-S44.	4.4	58
52	The Physics of Protoplanetesimal Dust Agglomerates. VIII. Microgravity Collisions between Porous SiO₂ Aggregates and Loosely Bound Agglomerates. Astrophysical Journal, 2017, 836, 94.	4.5	20
53	Evidence for the formation of comet 67P/Churyumov-Gerasimenko through gravitational collapse of a bound clump of pebbles. Monthly Notices of the Royal Astronomical Society, 2017, 469, S755-S773.	4.4	146
54	Thermal modelling of water activity on comet 67P/Churyumov-Gerasimenko with global dust mantle and plural dust-to-ice ratio. Monthly Notices of the Royal Astronomical Society, 2017, 469, S295-S311.	4.4	39

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55	Micrometer-sized Water Ice Particles for Planetary Science Experiments: Influence of Surface Structure on Collisional Properties. Astrophysical Journal, 2017, 848, 96.	4.5	25
56	The Physics of Protoplanetesimal Dust Agglomerates. IX. Mechanical Properties of Dust Aggregates Probed by a Solid-projectile Impact. Astrophysical Journal, 2017, 851, 23.	4.5	17
57	The footprint of cometary dust analogues â€" I. Laboratory experiments of low-velocity impacts and comparison with Rosetta data. Monthly Notices of the Royal Astronomical Society, 2017, 469, S204-S216.	4.4	19
58	Low-velocity collision behaviour of clusters composed of sub-millimetre sized dust aggregates. Astronomy and Astrophysics, 2017, 603, A66.	5.1	14
59	Laboratory Studies Towards Understanding Comets. , 2017, , 101-150.		0
60	Acceleration of cometary dust near the nucleus: application to 67P/Churyumovâ€"Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3410-3420.	4.4	31
61	Comet formation in collapsing pebble clouds. Astronomy and Astrophysics, 2016, 587, A128.	5.1	47
62	THE COLLISIONAL EVOLUTION OF UNDIFFERENTIATED ASTEROIDS AND THE FORMATION OF CHONDRITIC METEOROIDS. Astrophysical Journal, 2016, 824, 12.	4.5	22
63	Why are Jupiter-family comets active and asteroids in cometary-like orbits inactive?. Astronomy and Astrophysics, 2016, 589, A111.	5.1	15
64	Submillimetre-sized dust aggregate collision and growth properties. Astronomy and Astrophysics, 2016, 593, A3.	5.1	28
65	Science case for the Asteroid Impact Mission (AIM): A component of the Asteroid Impact & Deflection Assessment (AIDA) mission. Advances in Space Research, 2016, 57, 2529-2547.	2.6	95
66	Flux and composition of interstellar dust at Saturn from Cassiniâ€™s Cosmic Dust Analyzer. Science, 2016, 352, 312-318.	12.6	97
67	Experimental characterization of the opposition surge in fine-grained waterâ€"ice and high albedo ice analogs. Icarus, 2016, 264, 109-131.	2.5	23
68	Collisions of small ice particles under microgravity conditions. Astronomy and Astrophysics, 2015, 575, A6.	5.1	4
69	Collisions of small ice particles under microgravity conditions. Astronomy and Astrophysics, 2015, 573, A49.	5.1	21
70	Regolith grain size and cohesive strength of near-Earth Asteroid (29075) 1950 DA. Icarus, 2015, 257, 126-129.	2.5	12
71	The stratification of regolith on celestial objects. Icarus, 2015, 257, 33-46.	2.5	27
72	What drives the dust activity of comet 67P/Churyumov-Gerasimenko?. Astronomy and Astrophysics, 2015, 583, A12.	5.1	75

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73	THE STICKINESS OF MICROMETER-SIZED WATER-ICE PARTICLES. Astrophysical Journal, 2015, 798, 34.	4.5	221
74	Free collisions in a microgravity many-particle experiment. IV. â€“ Three-dimensional analysis of collision properties. Icarus, 2015, 253, 31-39.	2.5	9
75	Laboratory Studies Towards Understanding Comets. Space Science Reviews, 2015, 197, 101-150.	8.1	18
76	Laboratory Drop Towers for the Experimental Simulation of Dust-aggregate Collisions in the Early Solar System. Journal of Visualized Experiments, 2014, , .	0.3	7
77	Calibration of relative sensitivity factors for impact ionization detectors with high-velocity silicate microparticles. Icarus, 2014, 241, 336-345.	2.5	22
78	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
79	The MAGIC meteoric smoke particle sampler. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 118, 127-144.	1.6	9
80	Comets formed in solar-nebula instabilities! â€“ An experimental and modeling attempt to relate the activity of comets to their formation process. Icarus, 2014, 235, 156-169.	2.5	100
81	Experiments on the consolidation of chondrites and the formation of dense rims around chondrules. Icarus, 2013, 225, 558-569.	2.5	31
82	A new method to determine the grain size of planetary regolith. Icarus, 2013, 223, 479-492.	2.5	160
83	Micrometer-sized ice particles for planetary-science experiments â€“ II. Bidirectional reflectance. Icarus, 2013, 225, 352-366.	2.5	22
84	Free collisions in a microgravity many-particle experiment. III. The collision behavior of sub-millimeter-sized dust aggregates. Icarus, 2013, 225, 75-85.	2.5	60
85	Collision of a chondrule with matrix: Relation between static strength of matrix and impact pressure. Icarus, 2013, 226, 111-118.	2.5	7
86	Experimental investigation of the nebular formation of chondrule rims and the formation of chondrite parent bodies. Geochimica Et Cosmochimica Acta, 2013, 116, 41-51.	3.9	28
87	The suborbital particle aggregation and collision experiment (SPACE): Studying the collision behavior of submillimeter-sized dust aggregates on the suborbital rocket flight REXUS 12. Review of Scientific Instruments, 2013, 84, 094501.	1.3	6
88	Planetesimal formation by sweep-up: how the bouncing barrier can be beneficial to growth. Astronomy and Astrophysics, 2012, 540, A73.	5.1	169
89	Dust release and tensile strength of the non-volatile layer of cometary nuclei. Icarus, 2012, 221, 1-11.	2.5	130
90	Photophoresis of dust aggregates in protoplanetary disks. Astronomy and Astrophysics, 2012, 548, A96.	5.1	16

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91	THE PHYSICS OF PROTOPLANETESIMAL DUST AGGLOMERATES. VII. THE LOW-VELOCITY COLLISION BEHAVIOR OF LARGE DUST AGGLOMERATES. Astrophysical Journal, 2012, 758, 35.	4.5	58
92	SARIM PLUSâ€"sample return of comet 67P/CG and of interstellar matter. Experimental Astronomy, 2012, 33, 723-751.	3.7	3
93	Free collisions in a microgravity many-particle experiment. I. Dust aggregate sticking at low velocities. Icarus, 2012, 218, 688-700.	2.5	110
94	Free collisions in a microgravity many-particle experiment â€" II: The collision dynamics of dust-coated chondrules. Icarus, 2012, 218, 701-706.	2.5	33
95	Outgassing of icy bodies in the Solar System â€" II: Heat transport in dry, porous surface dust layers. Icarus, 2012, 219, 618-629.	2.5	97
96	LOW-VELOCITY COLLISIONS OF CENTIMETER-SIZED DUST AGGREGATES. Astrophysical Journal, 2011, 736, 34.	4.5	95
97	THE PHYSICS OF PROTOPLANETESIMAL DUST AGGLOMERATES. VI. EROSION OF LARGE AGGREGATES AS A SOURCE OF MICROMETER-SIZED PARTICLES. Astrophysical Journal, 2011, 734, 108.	4.5	59
98	Micrometer-sized ice particles for planetary-science experiments â€" I. Preparation, critical rolling friction force, and specific surface energy. Icarus, 2011, 214, 717-723.	2.5	138
99	Parabolic Flights @ Home. Microgravity Science and Technology, 2011, 23, 191-197.	1.4	13
100	ESAâ€™s Drop Tower Utilisation Activities 2000 to 2011. Microgravity Science and Technology, 2011, 23, 409-425.	1.4	11
101	Observations of the long-lasting activity of the distant Comets 29P Schwassmannâ€"Wachmann 1, C/2003 WT42 (LINEAR) and C/2002 VQ94 (LINEAR). Icarus, 2011, 211, 559-567.	2.5	46
102	Activity of comets: Gas transport in the near-surface porous layers of a cometary nucleus. Icarus, 2011, 212, 867-876.	2.5	49
103	Outgassing of icy bodies in the Solar System â€" I. The sublimation of hexagonal water ice through dust layers. Icarus, 2011, 213, 710-719.	2.5	87
104	Thermal conductivity measurements of porous dust aggregates: I. Technique, model and first results. Icarus, 2011, 214, 286-296.	2.5	76
105	Microgravity experiments on the collisional behavior of saturnian ring particles. Icarus, 2010, 206, 424-430.	2.5	56
106	Astrophysical Microgravity Experiments with Dust Particles. Microgravity Science and Technology, 2010, 22, 517-527.	1.4	20
107	The outcome of protoplanetary dust growth: pebbles, boulders, or planetesimals?. Astronomy and Astrophysics, 2010, 513, A56.	5.1	384
108	The outcome of protoplanetary dust growth: pebbles, boulders, or planetesimals?. Astronomy and Astrophysics, 2010, 513, A57.	5.1	415

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109	Numerical simulations of highly porous dust aggregates in the low-velocity collision regime. Astronomy and Astrophysics, 2010, 513, A58.	5.1	24
110	Dust growth in protoplanetary disks â€" a comprehensive experimental/theoretical approach. Research in Astronomy and Astrophysics, 2010, 10, 1199-1214.	1.7	68
111	THE PHYSICS OF PROTOPLANETESIMAL DUST AGGLOMERATES. V. MULTIPLE IMPACTS OF DUSTY AGGLOMERATES AT VELOCITIES ABOVE THE FRAGMENTATION THRESHOLD. Astrophysical Journal, 2010, 725, 1242-1251.	4.5	47
112	THE PHYSICS OF PROTOPLANETESIMAL DUST AGGLOMERATES. III. COMPACTION IN MULTIPLE COLLISIONS. Astrophysical Journal, 2009, 696, 2036-2043.	4.5	115
113	Morphological effects on IR band profiles. Astronomy and Astrophysics, 2009, 501, 251-267.	5.1	27
114	Dust Agglomeration. EAS Publications Series, 2009, 35, 195-217.	0.3	1
115	THE PHYSICS OF PROTOPLANETESIMAL DUST AGGLOMERATES. IV. TOWARD A DYNAMICAL COLLISION MODEL. Astrophysical Journal, 2009, 701, 130-141.	4.5	96
116	Laboratory Studies of Ice-Particle Collisions in Saturnâ€™s Dense Rings. , 2009, , .		0
117	The Flow Of Granular Matter Under Reduced-Gravity Conditions. , 2009, , .		23
118	Towards a Dynamical Collision Model of Highly Porous Dust Aggregates. , 2009, , .		1
119	Triple Fâ€"a comet nucleus sample return mission. Experimental Astronomy, 2009, 23, 809-847.	3.7	14
120	Tensile strength as an indicator of the degree of primitiveness of undifferentiated bodies. Planetary and Space Science, 2009, 57, 243-249.	1.7	40
121	A zero-gravity instrument to study low velocity collisions of fragile particles at low temperatures. Review of Scientific Instruments, 2009, 80, 074501.	1.3	8
122	The Effect of Aqueous Alteration and Metamorphism in the Survival of Presolar Silicate Grains in Chondrites. Publications of the Astronomical Society of Australia, 2009, 26, 289-296.	3.4	17
123	Micro-craters in aluminum foils: Implications for dust particles from comet Wild 2 on NASA's Stardust spacecraft. International Journal of Impact Engineering, 2008, 35, 1616-1624.	5.0	17
124	A new method for the analysis of compaction processes in high-porosity agglomerates. Granular Matter, 2008, 10, 89-91.	2.2	3
125	Handling of particulate solids on the International Space Station. Granular Matter, 2008, 10, 323-328.	2.2	1
126	Exposing metal and silicate charges to electrical discharges: Did chondrules form by nebular lightning?. Icarus, 2008, 195, 504-510.	2.5	20

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127	The Growth Mechanisms of Macroscopic Bodies in Protoplanetary Disks. Annual Review of Astronomy and Astrophysics, 2008, 46, 21-56.	24.3	672
128	Dust in space. Europhysics News, 2008, 39, 27-29.	0.3	8
129	Effect of Reduced-Gravity Conditions on the Flowability of Granular Media. , 2008, , .		6
130	The Physics of Protoplanetesimal Dust Agglomerates. II. Lowâ€Velocity Collision Properties. Astrophysical Journal, 2008, 675, 764-776.	4.5	54
131	Light scattering by low-density agglomerates of micron-sized grains with the PROGRA2 experiment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 74-89.	2.3	20
132	Dust agglomeration. Advances in Physics, 2006, 55, 881-947.	14.4	53
133	The 10 Î¼m Infrared Band of Silicate Dust: A Laboratory Study Comparing the Aerosol and KBr Pellet Techniques. Astrophysical Journal, 2006, 648, L147-L150.	4.5	44
134	The Physics of Protoplanetesimal Dust Agglomerates. I. Mechanical Properties and Relations to Primitive Bodies in the Solar System. Astrophysical Journal, 2006, 652, 1768-1781.	4.5	158
135	Experimental infrared spectroscopic measurement of light extinction for agglomerate dust grains. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 100, 373-381.	2.3	19
136	Sticking efficiency of nanoparticles in high-velocity collisions with various target materials. Journal of Nanoparticle Research, 2006, 8, 693-703.	1.9	10
137	Measurement of the Translational and Rotational Brownian Motion of Individual Particles in a Rarefied Gas. Physical Review Letters, 2006, 97, 230601.	7.8	44
138	Analyzing the Compaction of High-Porosity Microscopic Agglomerates. Australian Journal of Chemistry, 2005, 58, 671.	0.9	6
139	Growth and Form of Planetary Seedlings: Results from a Sounding Rocket Microgravity Aggregation Experiment. Physical Review Letters, 2004, 93, 021103.	7.8	86
140	Structure and Mechanical Properties of High-Porosity Macroscopic Agglomerates Formed by Random Ballistic Deposition. Physical Review Letters, 2004, 93, 115503.	7.8	162
141	Development of an optical trap for microparticle clouds in dilute gases. European Physical Journal E, 2004, 15, 287-291.	1.6	26
142	Physics and chemistry of icy particles in the universe: answers from microgravity. Planetary and Space Science, 2003, 51, 473-494.	1.7	53
143	The Large-Area Dust Detection Array (LADDA). Advances in Space Research, 2003, 31, 307-312.	2.6	2
144	First results from the cosmic dust aggregation experiment codag. Advances in Space Research, 2002, 29, 497-503.	2.6	15

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145	Experiments on dust aggregation and their relevance to space missions. Advances in Space Research, 2002, 29, 763-771.	2.6	2
146	Aerodynamical sticking of dust aggregates. Physical Review E, 2001, 64, 046301.	2.1	36
147	Drop tower experiments on sticking, restructuring, and fragmentation of preplanetary dust aggregates. Microgravity Science and Technology, 2001, 13, 29-34.	1.4	1
148	A New Mechanism Relevant to the Formation of Planetesimals in the Solar Nebula. Icarus, 2001, 151, 318-321.	2.5	73
149	Photophoresis of micrometer-sized particles in the free-molecular regime. International Journal of Heat and Mass Transfer, 2001, 44, 1649-1657.	4.8	25
150	Physical Processes on Interplanetary Dust. Astronomy and Astrophysics Library, 2001, , 445-507.	0.1	19
151	Analogous Experiments on the Stickiness of Micronâ€sized Preplanetary Dust. Astrophysical Journal, 2000, 533, 454-471.	4.5	190
152	Experiments on Sticking, Restructuring, and Fragmentation of Preplanetary Dust Aggregates. Icarus, 2000, 143, 138-146.	2.5	354
153	Laboratory Experiments on Preplanetary Dust Aggregation. Space Science Reviews, 2000, 92, 265-278.	8.1	46
154	An Experimental Study on the Structure of Cosmic Dust Aggregates and Their Alignment by Motion Relative to Gas. Astrophysical Journal, 2000, 529, L57-L60.	4.5	30
155	Growth and Form of Planetary Seedlings: Results from a Microgravity Aggregation Experiment. Physical Review Letters, 2000, 85, 2426-2429.	7.8	238
156	Experiments on Collisional Grain Charging of Micronâ€sized Preplanetary Dust. Astrophysical Journal, 2000, 533, 472-480.	4.5	80
157	Laboratory Experiments on Preplanetary Dust Aggregation. Space Sciences Series of ISSI, 2000, , 265-278.	0.0	6
158	The cosmic dust aggregation experiment CODAG. Measurement Science and Technology, 1999, 10, 836-844.	2.6	13
159	Calculation of the heat-source function in photophoresis of aggregated spheres. Physical Review E, 1999, 60, 2347-2365.	2.1	35
160	Experiments on the effects of dust flux exposure on ROSETTA spacecraft materials. Advances in Space Research, 1999, 23, 1225-1228.	2.6	2
161	The CODAG sounding rocket experiment to study aggregation of thermally diffusing dust particles. Advances in Space Research, 1999, 23, 1267-1270.	2.6	6
162	New experiments on collisions of solid grains related to the preplanetary dust aggregation. Advances in Space Research, 1999, 23, 1197-1200.	2.6	13

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163	Adhesion and Friction Forces between Spherical Micrometer-Sized Particles. Physical Review Letters, 1999, 83, 3328-3331.	7.8	365
164	Aspects of Laboratory Dust Aggregation with Relevance to the Formation of Planetesimals. Astrophysics and Space Science Library, 1999, , 399-423.	2.7	10
165	Aspects of Laboratory Dust Aggregation with Relevance to the Formation of Planetesimals. Earth, Moon and Planets, 1998, 80, 285-309.	0.6	34
166	Experiments on Preplanetary Dust Aggregation. Icarus, 1998, 132, 125-136.	2.5	172
167	Generating a jet of deagglomerated small particles in vacuum. Review of Scientific Instruments, 1997, 68, 2529-2533.	1.3	27
168	Experiments on pre-planetary grain growth. Advances in Space Research, 1997, 20, 1595-1604.	2.6	33
169	The Brownian Motion of Dust Particles in the Solar Nebula: An Experimental Approach to the Problem of Pre-planetary Dust Aggregation. Icarus, 1996, 124, 441-451.	2.5	70
170	The deâ€agglomeration and dispersion of small dust particlesâ€"Principles and applications. Review of Scientific Instruments, 1996, 67, 589-595.	1.3	20
171	Coagulation simulations for interstellar dust grains using an N-particle code. Advances in Space Research, 1995, 15, 55-58.	2.6	6
172	Laboratory and space experiments to study pre-planetary growth. Advances in Space Research, 1995, 15, 39-54.	2.6	9
173	Experimental Investigations on Aggregate-Aggregate Collisions in the Early Solar Nebula. Icarus, 1993, 106, 151-167.	2.5	162
174	Codag â€" dust agglomeration experiment in micro-gravity. Advances in Space Research, 1993, 13, 73-76.	2.6	11
175	High-energy radiation effects on the isophot far-infrared detectors. Infrared Physics, 1990, 30, 93-96.	0.5	11
176	Laboratory Studies of Planetary Ring Systems. , 0, , 494-516.		1