Mark Burchell

List of Publications by Year
in descending order

201 papers	6,553 citations	87888 38 h-index	76900 74 g-index
204 all docs	204 docs citations	204 times ranked	3646 citing authors

#	Article	IF	Citations
1	A study on the capabilities and accuracy of Kapton based TOF space dust and debris detectors. Advances in Space Research, 2023, 72, 2959-2970.	2.6	2
2	New Signatures of Bio-Molecular Complexity in the Hypervelocity Impact Ejecta of Icy Moon Analogues. Life, 2022, 12, 508.	2.4	5
3	Catastrophic disruption by hypervelocity impact of multi-layered spherical ice targets. International Journal of Impact Engineering, 2022, 168, 104294.	5.0	1
4	Synthesis and Characterization of Polypyrrole-Coated Anthracene Microparticles: A New Synthetic Mimic for Polyaromatic Hydrocarbon-Based Cosmic Dust. ACS Applied Materials & Interfaces, 2021, 13, 3175-3185.	8.0	19
5	Hypervelocity Impacts on Honeycomb Core Sandwich Panels Filled with Shear Thickening Fluid. International Journal of Impact Engineering, 2021, 150, 103803.	5.0	26
6	Tardigrade Survival Limits in High-Speed Impactsâ€"Implications for Panspermia and Collection of Samples from Plumes Emitted by Ice Worlds. Astrobiology, 2021, 21, 845-852.	3.0	6
7	A cosmic dust detection suite for the deep space Gateway. Advances in Space Research, 2021, 68, 85-104.	2.6	5
8	Hunting for biosignatures on Mars. Astronomy and Geophysics, 2021, 62, 4.24-4.27.	0.2	1
9	Salt grains in hypervelocity impacts in the laboratory: Methods to sample plumes from the ice worlds Enceladus and Europa. Meteoritics and Planetary Science, 2021, 56, 1652-1668.	1.6	4
10	Automatic detection of impact craters on Al foils from the Stardust interstellar dust collector using convolutional neural networks. Meteoritics and Planetary Science, 2021, 56, 1890-1904.	1.6	1
11	Raman analysis of a shocked planetary surface analogue: Implications for habitability on Mars. Journal of Raman Spectroscopy, 2021, 52, 2166.	2.5	2
12	Catastrophic disruption of icy bodies with sub-surface oceans. Icarus, 2020, 336, 113457.	2.5	2
13	Organic Molecules: Is It Possible to Distinguish Aromatics from Aliphatics Collected by Space Missions in High-Speed Impacts?. Sci, 2020, 2, 56.	3.0	3
14	Organic Molecules: Is It Possible To Distinguish Aromatics From Aliphatics Collected By Space Missions in High-Speed Impacts. Sci, 2020, 2, 12.	3.0	0
15	Organic Molecules: Is It Possible to Distinguish Aromatics from Aliphatics Collected by Space Missions in High-Speed Impacts?. Sci, 2020, 2, 41.	3.0	0
16	Characterizing organic particle impacts on inert metal surfaces: Foundations for capturing organic molecules during hypervelocity transits of Enceladus plumes. Meteoritics and Planetary Science, 2020, 55, 465-479.	1.6	19
17	Catastrophic Disruption of Hollow Ice Spheres. Planetary Science Journal, 2020, 1, 19.	3.6	2
18	Space dust and debris near the Earth. Astronomy and Geophysics, 2019, 60, 3.38-3.42.	0.2	7

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19	Organic Molecules: Is It Possible to Distinguish Aromatics from Aliphatics Collected by Space Missions in High Speed Impacts?. Sci, 2019, 1, 53.	3.0	4
20	The proposed Caroline ESA M3 mission to a Main Belt Comet. Advances in Space Research, 2018, 62, 1921-1946.	2.6	9
21	Preparation of large Stardust aluminum foil craters for analysis. Meteoritics and Planetary Science, 2018, 53, 1066-1080.	1.6	2
22	Hypervelocity impact fragmentation of basalt and shale projectiles. Icarus, 2018, 311, 52-68.	2.5	7
23	Survival of fossilised diatoms and forams in hypervelocity impacts with peak shock pressures in the 1â€“19 GPa range. Icarus, 2017, 290, 81-88.	2.5	8
24	Laboratory tests of catastrophic disruption of rotating bodies. Icarus, 2017, 296, 91-98.	2.5	7
25	Magnetite in Comet Wild 2: Evidence for parent body aqueous alteration. Meteoritics and Planetary Science, 2017, 52, 2075-2096.	1.6	42
26	Hypervelocity impacts into iceâ€topped layered targets: Investigating the effects of ice crust thickness and subsurface density on crater morphology. Meteoritics and Planetary Science, 2017, 52, 1505-1522.	1.6	6
27	Hypervelocity impacts in the laboratory on hot rock targets. Procedia Engineering, 2017, 204, 300-307.	1.2	2
28	The Hypervelocity Impact Facility at the University of Kent: Recent Upgrades and Specialized Capabilities.. Procedia Engineering, 2017, 204, 208-214.	1.2	20
29	Raman identification of olivine grains in fine grained mineral assemblages fired into aerogel. Procedia Engineering, 2017, 204, 413-420.	1.2	1
30	A study of the observed shift in the peak position of olivine Raman spectra as a result of shock induced by hypervelocity impacts. Meteoritics and Planetary Science, 2016, 51, 1289-1300.	1.6	10
31	Analytical model of impact disruption of satellites and asteroids. Icarus, 2016, 268, 266-280.	2.5	7
32	Characterization of space dust using acoustic impact detection. Journal of the Acoustical Society of America, 2016, 140, 1429-1438.	1.1	6
33	Survivability of copper projectiles during hypervelocity impacts in porous ice: A laboratory investigation of the survivability of projectiles impacting comets or other bodies. Icarus, 2016, 268, 102-117.	2.5	9
34	The survivability of phyllosilicates and carbonates impacting Stardust Al foils: Facilitating the search for cometary water. Meteoritics and Planetary Science, 2015, 50, 2003-2023.	1.6	13
35	SMARTâ€1 end of life shallow regolith impact simulations. Meteoritics and Planetary Science, 2015, 50, 1436-1448.	1.6	9
36	Survival of refractory presolar grain analogs during Stardustâ€like impact into Al foils: Implications for Wild 2 presolar grain abundances and study of the cometary fine fraction. Meteoritics and Planetary Science, 2015, 50, 1378-1391.	1.6	10

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37	Space science applications for conducting polymer particles: synthetic mimics for cosmic dust and micrometeorites. Chemical Communications, 2015, 51, 16886-16899.	4.1	58
38	Aerogel dust collection for in situ mass spectrometry analysis. Icarus, 2015, 247, 71-76.	2.5	3
39	Coordinated Microanalyses of Seven Particles of Probable Interstellar Origin from the Stardust Mission.. Microscopy and Microanalysis, 2014, 20, 1692-1693.	0.4	9
40	Stardust Interstellar Preliminary Examination X: Impact speeds and directions of interstellar grains on the Stardust dust collector. Meteoritics and Planetary Science, 2014, 49, 1680-1697.	1.6	24
41	Survival of fossils under extreme shocks induced by hypervelocity impacts. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130190.	3.4	13
42	Survival of Organic Materials in Hypervelocity Impacts of Ice on Sand, Ice, and Water in the Laboratory. Astrobiology, 2014, 14, 473-485.	3.0	29
43	Stardust Interstellar Preliminary Examination <scp>XI</scp>: Identification and elemental analysis of impact craters on Al foils from the Stardust Interstellar Dust Collector. Meteoritics and Planetary Science, 2014, 49, 1698-1719.	1.6	16
44	Stardust Interstellar Preliminary Examination VIII: Identification of crystalline material in two interstellar candidates. Meteoritics and Planetary Science, 2014, 49, 1645-1665.	1.6	12
45	Human spaceflight and an asteroid redirect mission: Why?. Space Policy, 2014, 30, 163-169.	1.5	6
46	Stardust Interstellar Preliminary Examination <scp>VII</scp>: Synchrotron Xâ€ray fluorescence analysis of six Stardust interstellar candidates measured with the Advanced Photon Source 2â€<scp>ID</scp>â€D microprobe. Meteoritics and Planetary Science, 2014, 49, 1626-1644.	1.6	13
47	Stardust Interstellar Preliminary Examination <scp>VI</scp>: Quantitative elemental analysis by synchrotron Xâ€ray fluorescence nanoimaging of eight impact features in aerogel. Meteoritics and Planetary Science, 2014, 49, 1612-1625.	1.6	12
48	Limits on methane release and generation via hypervelocity impact of Martian analogue materials. International Journal of Astrobiology, 2014, 13, 132-140.	1.6	2
49	Morphological and Molecular Analysis Calls for a Reappraisal of the Red Rain Cells of Kerala. Current Microbiology, 2014, 68, 192-198.	2.2	1
50	Stardust Interstellar Preliminary Examination V: <scp>XRF</scp> analyses of interstellar dust candidates at <scp>ESRF ID</scp>13. Meteoritics and Planetary Science, 2014, 49, 1594-1611.	1.6	12
51	Micronâ€scale hypervelocity impact craters: Dependence of crater ellipticity and rim morphology on impact trajectory, projectile size, velocity, and shape. Meteoritics and Planetary Science, 2014, 49, 1929-1947.	1.6	12
52	Final reports of the Stardust Interstellar Preliminary Examination. Meteoritics and Planetary Science, 2014, 49, 1720-1733.	1.6	29
53	Stardust Interstellar Preliminary Examination <scp>II</scp>: Curating the interstellar dust collector, picokeystones, and sources of impact tracks. Meteoritics and Planetary Science, 2014, 49, 1522-1547.	1.6	18
54	Stardust Interstellar Preliminary Examination <scp>III</scp>: Infrared spectroscopic analysis of interstellar dust candidates. Meteoritics and Planetary Science, 2014, 49, 1548-1561.	1.6	12

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55	Stardust Interstellar Preliminary Examination I: Identification of tracks in aerogel. Meteoritics and Planetary Science, 2014, 49, 1509-1521.	1.6	16
56	Stardust Interstellar Preliminary Examination <scp>IV</scp>: Scanning transmission Xâ€ray microscopy analyses of impact features in the Stardust Interstellar Dust Collector. Meteoritics and Planetary Science, 2014, 49, 1562-1593.	1.6	18
57	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. Science, 2014, 345, 786-791.	12.6	152
58	Survival of yeast spores in hypervelocity impact events up to velocities of 7.4 km sâ^'1. Icarus, 2013, 222, 263-272.	2.5	26
59	Constraining the pressure threshold of impact induced calcite twinning: Implications for the deformation history of aqueously altered carbonaceous chondrite parent bodies. Earth and Planetary Science Letters, 2013, 384, 71-80.	4.4	13
60	Identification by Raman spectroscopy of Mgâ€"Fe content of olivine samples after impact at 6 km sâ^'1 onto aluminium foil and aerogel: In the laboratory and in Wild-2 cometary samples. Geochimica Et Cosmochimica Acta, 2013, 121, 1-14.	3.9	23
61	Hydrocode modelling of hypervelocity impacts on ice. Advances in Space Research, 2013, 52, 705-714.	2.6	8
62	Shock synthesis of amino acids from impacting cometary and icy planet surface analogues. Nature Geoscience, 2013, 6, 1045-1049.	12.9	129
63	Validation of the Prestonâ€"Tonksâ€"Wallace strength model at strain rates approaching â^¼1011Âsâ^'1 for Al-1100, tantalum and copper using hypervelocity impact crater morphologies. International Journal of Impact Engineering, 2013, 52, 1-10.	5.0	24
64	A New Cosmic Dust Detector with a Novel Method Using a Resistive Grid Sensitive to Hypervelocity Impacts. Procedia Engineering, 2013, 58, 68-76.	1.2	7
65	A New Online Resource for the Hypervelocity Impact Community and the Change of Debris Cloud Impact Patterns With Impact Velocity. Procedia Engineering, 2013, 58, 508-516.	1.2	2
66	Impacts into metals targets at velocities greater than 1ÂkmÂsâ^'1: A new online resource for the hypervelocity impact community and an illustration of the geometric change of debris cloud impact patterns with impact velocity. International Journal of Impact Engineering, 2013, 56, 47-60.	5.0	10
67	IS THE LARGE CRATER ON THE ASTEROID (2867) STEINS REALLY AN IMPACT CRATER?. Astrophysical Journal Letters, 2013, 774, L11.	8.3	7
68	Sample return missions to minor bodies. Astronomy and Geophysics, 2013, 54, 3.28-3.32.	0.2	3
69	THE ABUNDANCE OF PRESOLAR GRAINS IN COMET 81P/WILD 2. Astrophysical Journal, 2013, 763, 140.	4.5	41
70	Cratering on Icy Bodies. Astrophysics and Space Science Library, 2013, , 253-278.	2.7	2
71	Towards the role of interfacial shear in shock-induced intermetallic reactions. , 2012, , .		0
72	GRAIN SORTING IN COMETARY DUST FROM THE OUTER SOLAR NEBULA. Astrophysical Journal Letters, 2012, 760, L23.	8.3	17

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73	The present-day flux of large meteoroids on the lunar surfaceâ€"A synthesis of models and observational techniques. Planetary and Space Science, 2012, 74, 179-193.	1.7	46
74	Prototyping and testing a Debris Resistive Acoustic Grid Orbital Navy Sensor. , 2012, , .		2
75	Aerogel tracks made by impacts of glycine: Implications for formation of bulbous tracks in aerogel and the Stardust mission. Meteoritics and Planetary Science, 2012, 47, 623-633.	1.6	8
76	Experimental investigation of impacts by solar cell secondary ejecta on silica aerogel and aluminum foil: Implications for the Stardust Interstellar Dust Collector. Meteoritics and Planetary Science, 2012, 47, 671-683.	1.6	21
77	Stardust interstellar dust calibration: Hydrocode modeling of impacts on Alâ€1100 foil at velocities up to 300â€ƒkmâ€ƒs^{â^'1} and validation with experimental data. Meteoritics and Planetary Science, 2012, 47, 684-695.	1.6	19
78	Microstructure modifications of silicates induced by the collection in aerogel: Experimental approach and comparison with Stardust results. Meteoritics and Planetary Science, 2012, 47, 696-707.	1.6	8
79	The origin of crystalline residues in Stardust Al foils: Surviving cometary dust or crystallized impact melts?. Meteoritics and Planetary Science, 2012, 47, 660-670.	1.6	27
80	Stardust impact analogs: Resolving preâ€•and postimpact mineralogy in Stardust Al foils. Meteoritics and Planetary Science, 2012, 47, 708-728.	1.6	24
81	Experimental impact features in Stardust aerogel: How track morphology reflects particle structure, composition, and density. Meteoritics and Planetary Science, 2012, 47, 737-762.	1.6	22
82	Microstructure of calcite in the CM2 carbonaceous chondrite LON 94101: Implications for deformation history during and/or after aqueous alteration. Earth and Planetary Science Letters, 2011, 306, 289-298.	4.4	32
83	Investigation of iron sulfide impact crater residues: A combined analysis by scanning and transmission electron microscopy. Meteoritics and Planetary Science, 2011, 46, 1007-1024.	1.6	22
84	Fibre optic sensors for high speed hypervelocity impact studies and low velocity drop tests. Proceedings of SPIE, 2011, , .	0.8	0
85	The Astrobiology Society of Britain. Astronomy and Geophysics, 2011, 52, 1.29-1.29.	0.2	0
86	Does astrobiology inclu de human space flight?. Astronomy and Geophysics, 2011, 52, 1.30-1.33.	0.2	0
87	Impact ionisation spectra from hypervelocity impacts using aliphatic poly(methyl methacrylate) microparticle projectiles. Rapid Communications in Mass Spectrometry, 2011, 25, 543-550.	1.5	19
88	Acoustic response of aluminium and Duroid plates to hypervelocity impacts. International Journal of Impact Engineering, 2011, 38, 426-433.	5.0	9
89	Hypervelocity Impact Experiments in the Laboratory Relating to Lunar Astrobiology. Earth, Moon and Planets, 2010, 107, 55-64.	0.6	13
90	The SMART-1 lunar impact. Icarus, 2010, 207, 28-38.	2.5	26

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91	The large crater on the small Asteroid (2867) Steins. Icarus, 2010, 210, 707-712.	2.5	18
92	Investigating the ability of Stardust capture media to preserve collected particles intact. EAS Publications Series, 2010, 41, 395-398.	0.3	0
93	The special issue devoted to papers from the fourth Astrobiology Society of Britain Conference, Royal Holloway, 2010. International Journal of Astrobiology, 2010, 9, 191-192.	1.6	3
94	Iron oxides in comet 81P/Wild 2. Meteoritics and Planetary Science, 2010, 45, 55.	1.6	28
95	The preservation of fossil biomarkers during meteorite impact events: Experimental evidence from biomarkerâ€rich projectiles and target rocks. Meteoritics and Planetary Science, 2010, 45, 1340-1358.	1.6	28
96	Comet 81P/Wild 2: The size distribution of finer (subâ€10â€ƒÎ¼m) dust collected by the Stardust spacecraft. Meteoritics and Planetary Science, 2010, 45, 1409-1428.	1.6	76
97	Survey on Astrobiology Research and Teaching Activities Within the United Kingdom. Astrobiology, 2009, 9, 717-730.	3.0	11
98	Survival of organic compounds in ejecta from hypervelocity impacts on ice. International Journal of Astrobiology, 2009, 8, 19-25.	1.6	26
99	The special issue devoted to papers from the Astrobiology Society of Britain Conference 2008. International Journal of Astrobiology, 2009, 8, 1-2.	1.6	3
100	Sample return of interstellar matter (SARIM). Experimental Astronomy, 2009, 23, 303-328.	3.7	13
101	Life: what is the chance that we are alone?. Significance, 2009, 6, 142-144.	0.4	1
102	Astrobiology in the UK. Astronomy and Geophysics, 2009, 50, 4.27-4.30.	0.2	4
103	Short-period Jupiter family comets after Stardust. Planetary and Space Science, 2009, 57, 1146-1161.	1.7	32
104	Hypervelocity capture of particles in aerogel: Dependence on aerogel properties. Planetary and Space Science, 2009, 57, 58-70.	1.7	32
105	Synthesis and characterization of polypyrrole-coated poly(methyl methacrylate) latex particles. Journal of Materials Chemistry, 2009, 19, 1433.	6.7	49
106	HYPERVELOCITY SUB 10-Î¼M IMPACTS INTO ALUMINIUM FOIL: NEW EXPERIMENTAL DATA AND IMPLICATIONS FOR COMET WILD-2â€™S DUST FLUENCE. , 2009, , .		0
107	SHOCK CHEMISTRY OF ORGANIC COMPOUNDS FROZEN IN ICE UNDERGOING IMPACTS AT 5â€‰kmâ€‰s[sup â¯1]. , 2009, , .		0
108	RECONSTRUCTION OF HYPERVELOCITY IMPACT CRATER PROGENITORS UTILISING EXPERIMENTAL DATA AND HYDROCODE MODELLING AT MICRON-SCALES. , 2009, , .		0

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109	CAPTURE OF COMETARY DUST GRAINS IN IMPACTS AT 6.1â€‰kmâ€‰s[sup â^’1]. , 2009, , .		0
110	Extent of thermal ablation suffered by model organic microparticles during aerogel capture at hypervelocities. Meteoritics and Planetary Science, 2009, 44, 1407-1419.	1.6	30
111	Capture effects in carbonaceous material: A Stardust analogue study. Meteoritics and Planetary Science, 2009, 44, 1465-1474.	1.6	19
112	Interpretation of Wild 2 dust fine structure: Comparison of Stardust aluminum foil craters to the threeâ€dimensional shape of experimental impacts by artificial aggregate particles and meteorite powders. Meteoritics and Planetary Science, 2009, 44, 1489-1509.	1.6	32
113	In situ analysis of residues resulting from laboratory impacts into aluminum 1100 foil: Implications for Stardust crater analyses. Meteoritics and Planetary Science, 2009, 44, 1541-1559.	1.6	24
114	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
115	The thermal alteration by pyrolysis of the organic component of small projectiles of mudrock during capture at hypervelocity. Journal of Analytical and Applied Pyrolysis, 2008, 82, 312-314.	5.5	23
116	Impact cratering and break up of the small bodies of the Solar System. Icarus, 2008, 195, 817-826.	2.5	26
117	Residual temperature measurements of light flash under hypervelocity impact. International Journal of Impact Engineering, 2008, 35, 1368-1373.	5.0	24
118	Characteristics of cometary dust tracks in Stardust aerogel and laboratory calibrations. Meteoritics and Planetary Science, 2008, 43, 23-40.	1.6	134
119	Dust from comet Wild 2: Interpreting particle size, shape, structure, and composition from impact features on the Stardust aluminum foils. Meteoritics and Planetary Science, 2008, 43, 41-73.	1.6	60
120	Bulbous tracks arising from hypervelocity capture in aerogel. Meteoritics and Planetary Science, 2008, 43, 75-86.	1.6	69
121	Smelting of Feâ€bearing glass during hypervelocity capture in aerogel. Meteoritics and Planetary Science, 2008, 43, 87-96.	1.6	13
122	Identification of mineral impactors in hypervelocity impact craters in aluminum by Raman spectroscopy of residues. Meteoritics and Planetary Science, 2008, 43, 135-142.	1.6	23
123	Discovery of nonâ€random spatial distribution of impacts in the Stardust cometary collector. Meteoritics and Planetary Science, 2008, 43, 415-429.	1.6	15
124	Laboratory investigations of marine impact events: Factors influencing crater formation and projectile survivability. Meteoritics and Planetary Science, 2008, 43, 2015-2026.	1.6	12
125	Comparison of Comet 81P/Wild 2 Dust with Interplanetary Dust from Comets. Science, 2008, 319, 447-450.	12.6	199
126	Survival of seeds in hypervelocity impacts. International Journal of Astrobiology, 2008, 7, 217-222.	1.6	18

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127	Analytical scanning and transmission electron microscopy of laboratory impacts on Stardust aluminum foils: Interpreting impact crater morphology and the composition of impact residues. Meteoritics and Planetary Science, 2007, 42, 191-210.	1.6	48
128	Thermal alteration of hydrated minerals during hypervelocity capture to silica aerogel at the flyby speed of Stardust. Meteoritics and Planetary Science, 2007, 42, 357-372.	1.6	56
129	Laboratory impacts into dry and wet sandstone with and without an overlying water layer: Implications for scaling laws and projectile survivability. Meteoritics and Planetary Science, 2007, 42, 1905-1914.	1.6	33
130	A comet in the lab. Astronomy and Geophysics, 2007, 48, 6.27-6.31.	0.2	1
131	The chemical composition of micrometeoroids impacting upon the solar arrays of the Hubble Space Telescope. Advances in Space Research, 2007, 39, 590-604.	2.6	22
132	Impact Features on Stardust: Implications for Comet 81P/Wild 2 Dust. Science, 2006, 314, 1716-1719.	12.6	286
133	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
134	Infrared Spectroscopy of Comet 81P/Wild 2 Samples Returned by Stardust. Science, 2006, 314, 1728-1731.	12.6	163
135	Laboratory simulation of impacts on aluminum foils of the Stardust spacecraft: Calibration of dust particle size from comet Wildâ€2. Meteoritics and Planetary Science, 2006, 41, 167-180.	1.6	56
136	Identification of minerals and meteoritic materials via Raman techniques after capture in hypervelocity impacts on aerogel. Meteoritics and Planetary Science, 2006, 41, 217-232.	1.6	33
137	COSMIC DUST COLLECTION IN AEROGEL. Annual Review of Earth and Planetary Sciences, 2006, 34, 385-418.	11.0	113
138	Synthesis and Characterization of Polypyrrole-Coated Sulfur-Rich Latex Particles:Â New Synthetic Mimics for Sulfur-Based Micrometeorites. Chemistry of Materials, 2006, 18, 2758-2765.	6.7	56
139	Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft. Science, 2006, 314, 1720-1724.	12.6	519
140	W(h)ither the Drake equation?. International Journal of Astrobiology, 2006, 5, 243-250.	1.6	44
141	Microbial Life and Shock Compression â€" Life or Death?. AIP Conference Proceedings, 2006, , .	0.4	1
142	Oceanic hypervelocity impact events: a viable mechanism for successful panspermia?. International Journal of Astrobiology, 2006, 5, 261-267.	1.6	9
143	The special issue devoted to papers from the Astrobiology Society of Britain Conference 2006. International Journal of Astrobiology, 2006, 5, 181-181.	1.6	1
144	Improving the Near-Earth Micrometeoroid and Orbital Debris Environment Definition with LAD-C. , 2006, , .		1

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145	Decreased values of cosmic dust number density estimates in the Solar System. Icarus, 2005, 176, 440-452.	2.5	16
146	Cratering of icy targets by different impactors: Laboratory experiments and implications for cratering in the Solar System. Icarus, 2005, 179, 274-288.	2.5	29
147	MULPEX: A compact multi-layered polymer foil collector for micrometeoroids and orbital debris. Advances in Space Research, 2005, 35, 1270-1281.	2.6	6
148	Azimuthal impact directions from oblique impact crater morphology. Monthly Notices of the Royal Astronomical Society, 2005, 359, 1137-1149.	4.4	8
149	Impact craters on small icy bodies such as icy satellites and comet nuclei. Monthly Notices of the Royal Astronomical Society, 2005, 360, 769-781.	4.4	28
150	The Special Issue on Astrobiology in the UK. International Journal of Astrobiology, 2004, 3, 71-72.	1.6	2
151	Panspermia today. International Journal of Astrobiology, 2004, 3, 73-80.	1.6	49
152	Survival of bacteria and spores under extreme shock pressures. Monthly Notices of the Royal Astronomical Society, 2004, 352, 1273-1278.	4.4	82
153	Extraction and microanalysis of cosmic dust captured during sample return missions: laboratory simulations. Advances in Space Research, 2004, 34, 2292-2298.	2.6	11
154	Identification of organic particles via Raman techniques after capture in hypervelocity impacts on aerogel. Journal of Raman Spectroscopy, 2004, 35, 249-253.	2.5	23
155	Hypervelocity impact craters in ammonia rich ice. Icarus, 2004, 168, 467-474.	2.5	12
156	Influence of impact ionisation detection methods on determination of dust particle flux in space. Planetary and Space Science, 2004, 52, 711-725.	1.7	11
157	Impacts into Marine and Icy Environments â€" A Short Review. Impact Studies, 2004, , 1-20.	0.5	7
158	Survivability of Bacteria in Hypervelocity Impacts on Ice. Impact Studies, 2004, , 211-221.	0.5	2
159	Impact Cratering of Icy and Rocky Targets in Planetary Sciences and in the Laboratory. Impact Studies, 2004, , 223-249.	0.5	1
160	Estimating Crater Size for Hypervelocity Impacts on Small Icy Bodies (e.g. Comet Nucleus). Impact Studies, 2004, , 197-210.	0.5	1
161	Survivability of bacteria ejected from icy surfaces after hypervelocity impact. Origins of Life and Evolution of Biospheres, 2003, 33, 53-74.	1.9	33
162	Observations on hypervelocity impact damage sustained by multi-layered insulation foils exposed in low Earth orbit and simulated in the laboratory. International Journal of Impact Engineering, 2003, 29, 307-316.	5.0	13

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163	Oblique incidence hypervelocity impacts on rock. Monthly Notices of the Royal Astronomical Society, 2003, 341, 192-198.	4.4	37
164	Hypervelocity impact cratering on water ice targets at temperatures ranging from 100 K to 253 K. Journal of Geophysical Research, 2003, 108, .	3.3	25
165	Dust Flux Monitor Instrument for the Stardust mission to comet Wild 2. Journal of Geophysical Research, 2003, 108, .	3.3	40
166	Time of flight mass spectra of ions in plasmas produced by hypervelocity impacts of organic and mineralogical microparticles on a cosmic dust analyser. Astronomy and Astrophysics, 2003, 409, 1151-1167.	5.1	61
167	Application of new, low density projectiles to the laboratory calibration of the Cassini Cosmic Dust Analyser (CDA). COSPAR Colloquia Series, 2002, , 300-304.	0.2	1
168	Development of low density dusts for impact ionization experiments. COSPAR Colloquia Series, 2002, , 296-299.	0.2	1
169	Microanalysis of cosmic dustâ€”Prospects and challenges. COSPAR Colloquia Series, 2002, 15, 400-404.	0.2	0
170	Scaling of hypervelocity impact craters in ice with impact angle. Journal of Geophysical Research, 2002, 107, 6-1.	3.3	24
171	Velocity Scaling of Impact Craters in Water Ice over the Range 1 to 7.3 km sâ^'1. Icarus, 2002, 155, 475-485.	2.5	36
172	Laboratory calibration of the cassini cosmic dust analyser (CDA) using new, low density projectiles. Advances in Space Research, 2002, 29, 1139-1144.	2.6	34
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