

George D Cody

List of Publications by Year in descending order

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121
papers

12,174
citations

28190
55
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24915
109
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122
all docs

122
docs citations

122
times ranked

9643
citing authors

#	ARTICLE	IF	CITATIONS
1	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	6.0	848
2	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	6.0	687
3	Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft. <i>Science</i> , 2006, 314, 1720-1724.	6.0	519
4	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	6.0	508
5	Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	6.0	475
6	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	6.0	367
7	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	6.0	327
8	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	6.0	327
9	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	6.0	326
10	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	6.0	323
11	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	6.0	280
12	NMR studies of chemical structural variation of insoluble organic matter from different carbonaceous chondrite groups. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1085-1097.	1.6	260
13	Preservation of Martian Organic and Environmental Records: Final Report of the Mars Biosignature Working Group. <i>Astrobiology</i> , 2011, 11, 157-181.	1.5	255
14	Benzene-derived carbon nanothreads. <i>Nature Materials</i> , 2015, 14, 43-47.	13.3	250
15	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	6.0	246
16	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. <i>Science</i> , 2013, 341, 260-263.	6.0	241
17	Characterization of Extracellular Polymeric Substances from Acidophilic Microbial Biofilms. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2916-2922.	1.4	239
18	Abiotic nitrogen reduction on the early Earth. <i>Nature</i> , 1998, 395, 365-367.	13.7	216

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19	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	6.0	215
20	Microbial Activity at Gigapascal Pressures. <i>Science</i> , 2002, 295, 1514-1516.	6.0	203
21	Origin and Evolution of Prebiotic Organic Matter As Inferred from the Tagish Lake Meteorite. <i>Science</i> , 2011, 332, 1304-1307.	6.0	189
22	Ultra-primitive interplanetary dust particles from the comet 26P/Grigg-Skjellerup dust stream collection. <i>Earth and Planetary Science Letters</i> , 2009, 288, 44-57.	1.8	187
23	Establishing a molecular relationship between chondritic and cometary organic solids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19171-19176.	3.3	181
24	Evidence for indigenous nitrogen in sedimentary and aeolian deposits from the <i>Curiosity</i> rover investigations at Gale crater, Mars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4245-4250.	3.3	172
25	Evolution of xylem lignification and hydrogel transport regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17555-17558.	3.3	167
26	TRANSITION METAL SULFIDES AND THE ORIGINS OF METABOLISM. <i>Annual Review of Earth and Planetary Sciences</i> , 2004, 32, 569-599.	4.6	146
27	Nature of polymerization and properties of silicate melts and glasses at high pressure. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4189-4200.	1.6	139
28	Quantitative organic and light element analysis of comet 81P/Wild 2 particles using C, N, and O XANES. <i>Meteoritics and Planetary Science</i> , 2008, 43, 353-365.	0.7	137
29	The Petrochemistry of Jake_M: A Martian Mugarite. <i>Science</i> , 2013, 341, 1239463.	6.0	134
30	Re-evaluating boron speciation in biogenic calcite and aragonite using ¹¹ B MAS NMR. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1890-1900.	1.6	113
31	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	6.0	103
32	Solubility mechanisms of fluorine in peralkaline and meta-aluminous silicate glasses and in melts to magmatic temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2745-2769.	1.6	99
33	The structural behavior of Al ³⁺ in peralkaline melts and glasses in the system Na ₂ O-Al ₂ O ₃ -SiO ₂ . <i>American Mineralogist</i> , 2003, 88, 1668-1678.	0.9	94
34	EXPLORING THE POTENTIAL FORMATION OF ORGANIC SOLIDS IN CHONDRITES AND COMETS THROUGH POLYMERIZATION OF INTERSTELLAR FORMALDEHYDE. <i>Astrophysical Journal</i> , 2013, 771, 19.	1.6	91
35	Silicate-phosphate interactions in silicate glasses and melts: I. A multinuclear (²⁷ Al, ²⁹ Si, ³¹ P) MAS NMR and ab initio chemical shielding (³¹ P) study of phosphorous speciation in silicate glasses. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2395-2411.	1.6	90
36	Structure of B ₂ O ₃ Glass at High Pressure: AB11 Solid-State NMR Study. <i>Physical Review Letters</i> , 2005, 94, 165507.	2.9	87

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37	The insoluble carbonaceous material of CM chondrites: A possible source of discrete organic compounds under hydrothermal conditions. <i>Meteoritics and Planetary Science</i> , 2007, 42, 37-48.	0.7	87
38	Evidence of magnetic isotope effects during thermochemical sulfate reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17635-17638.	3.3	85
39	Compositional diversity in insoluble organic matter in type 1, 2 and 3 chondrites as detected by infrared spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3530-3541.	1.6	82
40	A structural model for lignin-derived vitrinite from high-volatile bituminous coal (coalified wood). <i>Energy & Fuels</i> , 1992, 6, 813-820.	2.5	81
41	Organic chemical differentiation within fossil plant cell walls detected with X-ray spectromicroscopy. <i>Geology</i> , 2002, 30, 1039.	2.0	78
42	Isotopic and chemical variation of organic nanoglobules in primitive meteorites. <i>Meteoritics and Planetary Science</i> , 2013, 48, 904-928.	0.7	78
43	Inner-Shell Spectroscopy and Imaging of a Subbituminous Coal: In-Situ Analysis of Organic and Inorganic Microstructure Using C(1s)-, Ca(2p)-, and Cl(2s)-NEXAFS. <i>Energy & Fuels</i> , 1995, 9, 525-533.	2.5	77
44	Chemical composition of the graphitic black carbon fraction in riverine and marine sediments at sub-micron scales using carbon X-ray spectromicroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1483-1494.	1.6	77
45	Examining marine particulate organic matter at sub-micron scales using scanning transmission X-ray microscopy and carbon X-ray absorption near edge structure spectroscopy. <i>Marine Chemistry</i> , 2004, 92, 107-121.	0.9	76
46	Devonian landscape heterogeneity recorded by a giant fungus. <i>Geology</i> , 2007, 35, 399.	2.0	76
47	Dual speciation of nitrogen in silicate melts at high pressure and temperature: An experimental study. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2902-2918.	1.6	75
48	Solution behavior of reduced COH volatiles in silicate melts at high pressure and temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1696-1710.	1.6	74
49	Anisotropic solvent swelling of coals. <i>Energy & Fuels</i> , 1988, 2, 340-344.	2.5	73
50	Structure vs. composition: A solid-state ¹ H and ²⁹ Si NMR study of quenched glasses along the Na ₂ O-SiO ₂ -H ₂ O join. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2373-2384.	1.6	73
51	Carbon K-edge XANES spectromicroscopy of natural graphite. <i>Carbon</i> , 2008, 46, 1424-1434.	5.4	72
52	Solubility and solution mechanisms of CÓH volatiles in silicate melt with variable redox conditions and melt composition at upper mantle temperatures and pressures. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6183-6199.	1.6	63
53	The effect of Na/Si on the structure of sodium silicate and aluminosilicate glasses quenched from melts at high pressure: A multi-nuclear (Al-27, Na-23, O-17) 1D and 2D solid-state NMR study. <i>Chemical Geology</i> , 2006, 229, 162-172.	1.4	58
54	Structure and the extent of disorder in quaternary (Ca-Mg and Ca-Na) aluminosilicate glasses and melts. <i>American Mineralogist</i> , 2005, 90, 1393-1401.	0.9	57

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55	Solution mechanisms of H ₂ O in depolymerized peralkaline melts. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5557-5566.	1.6	55
56	Ancient graphite in the Eoarchean quartz-pyroxene rocks from Akilia in southern West Greenland I: Petrographic and spectroscopic characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5862-5883.	1.6	55
57	Assessment and control of organic and other contaminants associated with the Stardust sample return from comet 81P/Wild 2. <i>Meteoritics and Planetary Science</i> , 2010, 45, 406-433.	0.7	55
58	Correlated microanalysis of cometary organic grains returned by Stardust. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1376-1396.	0.7	53
59	Soft X-ray induced chemical modification of polysaccharides in vascular plant cell walls. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 170, 57-64.	0.8	48
60	Effect of Network Polymerization on the Pressure-Induced Structural Changes in Sodium Aluminosilicate Glasses and Melts: ²⁷ Al and ¹⁷ O Solid-State NMR Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2183-2191.	1.5	47
61	Synthesis of Mg ₂ C: A Magnesium Methanide. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8930-8933.	7.2	45
62	A molecular and isotopic study of the macromolecular organic matter of the ungrouped C2 WIS 91600 and its relationship to Tagish Lake and PCA 91008. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1446-1460.	0.7	44
63	Molecular and compound-specific hydrogen isotope analyses of insoluble organic matter from different carbonaceous chondrite groups. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3711-3721.	1.6	43
64	Selective chemical mapping of coal microheterogeneity by scanning transmission x-ray microscopy. <i>Energy & Fuels</i> , 1994, 8, 151-154.	2.5	41
65	High pressure and the origin of life. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 11489-11494.	0.7	41
66	Kinetics of H ₂ O ₂ redox equilibria and formation of metastable H ₂ O ₂ under low temperature hydrothermal conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1594-1607.	1.6	41
67	Silicate-phosphate interactions in silicate glasses and melts: II. quantitative, high-temperature structure of P-bearing alkali aluminosilicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2413-2431.	1.6	40
68	Synthesis of ¹² Mg ₂ C ₃ : A Monoclinic High-Pressure Polymorph of Magnesium Sesquicarbide. <i>Inorganic Chemistry</i> , 2014, 53, 7020-7027.	1.9	40
69	Solubility and solution mechanisms of chlorine and fluorine in aluminosilicate melts at high pressure and high temperature. <i>American Mineralogist</i> , 2015, 100, 2272-2283.	0.9	40
70	Solubility and solution mechanism of H ₂ O in alkali silicate melts and glasses at high pressure and temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 5113-5126.	1.6	37
71	Rapid incorporation of lipids into macromolecules during experimental decay of invertebrates: Initiation of geopolymer formation. <i>Organic Geochemistry</i> , 2009, 40, 589-594.	0.9	37
72	Pressure-Induced Diels-Alder Reactions in C ₆ H ₆ -C ₆ F ₆ Cocrystal towards Graphane Structure. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1468-1473.	7.2	36

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73	Characterization of permineralized kerogen from an Eocene fossil fern. <i>Organic Geochemistry</i> , 2009, 40, 353-364.	0.9	35
74	Water and magmas: insights about the water solution mechanisms in alkali silicate melts from infrared, Raman, and ²⁹ Si solid-state NMR spectroscopies. <i>Progress in Earth and Planetary Science</i> , 2015, 2, .	1.1	35
75	A kinetic study of the formation of organic solids from formaldehyde: Implications for the origin of extraterrestrial organic solids in primitive Solar System objects. <i>Icarus</i> , 2015, 248, 412-423.	1.1	35
76	Physical structural characterization of bituminous coals: stress-strain analysis in the pyridine-diluted state. <i>Energy & Fuels</i> , 1993, 7, 455-462.	2.5	34
77	Controlled Single-Crystalline Polymerization of C ₁₀ H ₈ ÅC ₁₀ F ₈ under Pressure. <i>Macromolecules</i> , 2019, 52, 7557-7563.	2.2	33
78	Hydrogen bonding and dynamics of methanol by high-pressure diamond-anvil cell NMR. <i>Journal of Chemical Physics</i> , 2005, 122, 244509.	1.2	32
79	Speciation of ¹³ C-DOPA on Nanorutile as a Function of pH and Surface Coverage Using Surface-Enhanced Raman Spectroscopy (SERS). <i>Langmuir</i> , 2012, 28, 17322-17330.	1.6	32
80	Nanoarchitecture through Strained Molecules: Cubane-Derived Scaffolds and the Smallest Carbon Nanothreads. <i>Journal of the American Chemical Society</i> , 2020, 142, 17944-17955.	6.6	32
81	<i>In Situ</i> Diamond-Anvil Cell Observations of Methanogenesis at High Pressures and Temperatures. <i>Energy & Fuels</i> , 2009, 23, 5571-5579.	2.5	30
82	Polymerization of Acetonitrile via a Hydrogen Transfer Reaction from CH ₃ to CN under Extreme Conditions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12040-12044.	7.2	26
83	Diagenesis of plant biopolymers: Decay and macromolecular preservation of <i>Metasequoia</i> . <i>Organic Geochemistry</i> , 2009, 40, 802-809.	0.9	25
84	Alkali influence on the water speciation and the environment of protons in silicate glasses revealed by ¹ H MAS NMR spectroscopy. <i>American Mineralogist</i> , 2015, 100, 466-473.	0.9	24
85	Complex IR spectra of OH- groups in silicate glasses: Implications for the use of the 4500 cm ⁻¹ IR peak as a marker of OH- groups concentration. <i>American Mineralogist</i> , 2015, 100, 945-950.	0.9	23
86	C-NEXAFS Microanalysis and Scanning X-ray Microscopy of Microheterogeneities in a High-Volatile A Bituminous Coal. <i>Energy & Fuels</i> , 1995, 9, 75-83.	2.5	22
87	In-Situ Analysis and Quantification of Swelling Kinetics in Glassy and Rubbery Networks Using ¹ H and ¹⁹ F Magnetic Resonance Microscopies. <i>Macromolecules</i> , 1994, 27, 2607-2614.	2.2	19
88	Oxygen-17 Nuclear Magnetic Resonance Study of the Structure of Mixed Cation Calcium-Sodium Silicate Glasses at High Pressure: Implications for Molecular Link to Element Partitioning between Silicate Liquids and Crystals. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11756-11761.	1.2	19
89	The effects of temperature, pH and redox state on the stability of glutamic acid in hydrothermal fluids. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 135, 66-86.	1.6	19
90	What makes a planet habitable?. <i>Science</i> , 2019, 364, 434-435.	6.0	18

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91	Very large differences in intramolecular D-H partitioning in hydrated silicate melts synthesized at upper mantle pressures and temperatures. <i>American Mineralogist</i> , 2015, 100, 1182-1189.	0.9	17
92	Proton NMR imaging of pyridine transport in coal. <i>Energy & Fuels</i> , 1993, 7, 561-562.	2.5	16
93	Revisiting water speciation in hydrous aluminosilicate glasses: A discrepancy between solid-state ¹ H NMR and NIR spectroscopy in the determination of X-OH and H ₂ O. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 285, 150-174.	1.6	16
94	Direct imaging of coal pore space accessible to liquid metal. <i>Energy & Fuels</i> , 1991, 5, 776-781.	2.5	15
95	A kinetic pressure effect on the experimental abiotic reduction of aqueous CO ₂ to methane from 1 to 3.5 kbar at 300 °C. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 151, 34-48.	1.6	14
96	Characterization of carbonaceous matter in xenolithic clasts from the Sharps (H3.4) meteorite: Constraints on the origin and thermal processing. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 196, 74-101.	1.6	14
97	Tetracyanomethane under Pressure: Extended CN Polymers from Precursors with Built-in sp ³ Centers. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2858-2863.	1.1	14
98	Experimental estimation of the bisulfite isomer quotient as a function of temperature: Implications for sulfur isotope fractionations in aqueous sulfite solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 309-328.	1.6	14
99	Correlation of optical birefringence with coal rank. Structural implications. <i>Energy & Fuels</i> , 1989, 3, 551-556.	2.5	12
100	The dynamic nature of coal's macromolecular structure: viscoelastic analysis of solvent-swollen coals. <i>Energy & Fuels</i> , 1993, 7, 463-468.	2.5	12
101	Imaging the microstructure of low rank coals. <i>Fuel</i> , 1994, 73, 199-203.	3.4	12
102	Characterization of the Soluble and Insoluble Fractions of Upper Freeport Coal in NMP/CS ₂ and Pyridine Using Small Angle Neutron Scattering. <i>Energy & Fuels</i> , 1997, 11, 495-501.	2.5	12
103	Experimental formation of geomacromolecules from microbial lipids. <i>Organic Geochemistry</i> , 2014, 67, 35-40.	0.9	12
104	Comparison of FTIR spectra of bulk and acid insoluble organic matter in chondritic meteorites: An implication for missing carbon during demineralization. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1632-1641.	0.7	12
105	Solution Structure of Coal Macromolecules in Pyridine: Small-Angle Neutron Scattering Analysis of Untreated and O-Methylated Coal Extracts. <i>Energy & Fuels</i> , 1994, 8, 1370-1378.	2.5	11
106	Modulus of Swollen Coal Gels. <i>Energy & Fuels</i> , 1997, 11, 1044-1047.	2.5	11
107	Effects of Metabolism and Physiology on the Production of Okenone and Bacteriochlorophyll <i>a</i> in Purple Sulfur Bacteria. <i>Geomicrobiology Journal</i> , 2014, 31, 128-137.	1.0	10
108	Characterization of Micro-Domain Structure of Solvent-Swollen Coal by Proton Spin Diffusion and Small Angle Neutron Scattering. <i>Energy & Fuels</i> , 2000, 14, 1245-1251.	2.5	9

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109	Diamond xenolith and matrix organic matter in the Sutter's Mill meteorite measured by C^{13} -XANES. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2095-2103.	0.7	9
110	High Pressure Equilibria of Dimethylamine Borane, Dihydridobis(dimethylamine)boron(III) Tetrahydridoborate(III), and Hydrogen. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7280-7287.	1.5	9
111	Aspartate transformation at 200 ^\circ C with brucite $[\text{Mg}(\text{OH})_2]$, NH_3 , and H_2 : Implications for prebiotic molecules in hydrothermal systems. <i>Chemical Geology</i> , 2017, 457, 162-172.	1.4	9
112	Microheterogeneity of Solvent-Swollen Coal Probed by Proton Spin Diffusion. <i>Energy & Fuels</i> , 1999, 13, 1239-1245.	2.5	8
113	Hydrogen enhances the stability of glutamic acid in hydrothermal environments. <i>Chemical Geology</i> , 2014, 386, 184-189.	1.4	8
114	Molecular preservation and bulk isotopic signals of ancient rice from the Neolithic Tianluoshan site, lower Yangtze River valley, China. <i>Organic Geochemistry</i> , 2013, 63, 85-93.	0.9	7
115	Tracing H isotope effects in the dynamic metabolic network using multi-nuclear (^1H , ^2H and ^{13}C) solid state NMR and GC-MS. <i>Organic Geochemistry</i> , 2013, 57, 84-94.	0.9	5
116	Water solution mechanism in calcium aluminosilicate glasses and melts: insights from in and ex situ Raman and ^{29}Si NMR spectroscopy. <i>Comptes Rendus - Geoscience</i> , 2022, 354, 199-225.	0.4	4
117	Hydrogen isotopic exchange kinetics between organic matter and water: Implications for chemical evolution during meteorite parent body processing. <i>Meteoritics and Planetary Science</i> , 2021, 56, 440-454.	0.7	3
118	Hydrogen isotope fractionation inside silicate melts and glasses studied by ^1H and ^2H MAS NMR spectroscopy – Molecular insights into deuterium exchange at the melt-fluid interface. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 309, 171-190.	1.6	3
119	Raman Spectroscopy, X-ray Diffraction, and Hydrogenation Thermochemistry of N,N,N,N-Tetramethylcyclotriborazane under Pressure. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9871-9879.	1.5	1
120	Coordinated Electron and X-ray Microscopy of Cometary Organic Matter Collected by the NASA Stardust Mission.. <i>Microscopy and Microanalysis</i> , 2014, 20, 1694-1695.	0.2	1
121	Optical Constants of a Solar System Organic Analog and the Allende Meteorite in the Near- and Mid-infrared ($1.5\text{--}13\ \mu\text{m}$). <i>Planetary Science Journal</i> , 2021, 2, 73.	1.5	0