

# Dean Smith

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

340  
citations

1039406

9  
h-index

839053

18  
g-index

28  
all docs

28  
docs citations

28  
times ranked

602  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly of Two-Dimensional Colloidal Clusters by Tuning the Hydrophobicity, Composition, and Packing Geometry. <i>Physical Review Letters</i> , 2013, 110, 138301.	2.9	55
2	Hydrogenation of Graphene by Reaction at High Pressure and High Temperature. <i>ACS Nano</i> , 2015, 9, 8279-8283.	7.3	46
3	Postaragonite phases of $\text{CaCO}_3$ at lower mantle pressures. <i>Physical Review Materials</i> , 2018, 2, .	0.9	1
4	Crossover between liquidlike and gaslike behavior in $\text{C}_4\text{H}_4$ at 400 K. <i>Physical Review E</i> , 2017, 96, 052113.	0.8	27
5	Pressure-tunable Visible-Range Band Gap in the Ionic Spinel Tin Nitride. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11623-11628.	7.2	22
6	On the high-pressure phase stability and elastic properties of $\text{Ti}_2$ -titanium alloys. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 155401.	0.7	20
7	Dinitrogen as a Universal Electron Acceptor in Solid-State Chemistry: An Example of Uncommon Metallic Compounds $\text{Na}_3(\text{N}_2)_4$ and $\text{NaN}_2$ . <i>Inorganic Chemistry</i> , 2020, 59, 14819-14826.	1.9	20
8	A CO <sub>2</sub> laser heating system for <i>in situ</i> high pressure-temperature experiments at HPCAT. <i>Review of Scientific Instruments</i> , 2018, 89, 083901.	0.6	18
9	Syntheses, Raman spectroscopy and crystal structures of alkali hexafluoridorhenates(IV) revisited. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 646-649.	0.2	12
10	Colossal Density-Driven Resistance Response in the Negative Charge Transfer Insulator $\text{MnS}_2$ . <i>Physical Review Letters</i> , 2021, 127, 016401.	2.9	11
11	Pressure-driven symmetry transitions in dense $\text{H}_2\text{O}$ ice. <i>Physical Review B</i> , 2022, 105, .	1.1	9
12	Probing disorder in high-pressure cubic tin (IV) oxide: a combined X-ray diffraction and absorption study. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1245-1252.	1.0	8
13	Simple imaging for the diamond anvil cell: Applications to hard-to-reach places. <i>Review of Scientific Instruments</i> , 2018, 89, 103902.	0.6	7
14	Electronic origins of the giant volume collapse in the pyrite mineral $\text{MnS}_2$ . <i>Journal of Solid State Chemistry</i> , 2019, 269, 540-546.	1.4	7
15	Decoupling Lattice and Magnetic Instabilities in Frustrated $\text{CuMnO}_2$ . <i>Inorganic Chemistry</i> , 2021, 60, 6004-6015.	1.9	7
16	Carbon content drives high temperature superconductivity in a carbonaceous sulfur hydride below 100 GPa. <i>Chemical Communications</i> , 2022, 58, 9064-9067.	2.2	7
17	Coexistence of metamagnetism and slow relaxation of magnetization in ammonium hexafluoridorhenate. <i>RSC Advances</i> , 2021, 11, 6353-6360.	1.7	6
18	Implications of an improved water equation of state for water-rich planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 2825-2832.	1.6	5

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19	Anomalous Conductivity in the Rutile Structure Driven by Local Disorder. Journal of Physical Chemistry Letters, 2019, 10, 5351-5356.	2.1	4
20	Response of the mode Grüneisen parameters with anisotropic compression: A pressure and temperature dependent Raman study of $\text{Pb}_2\text{Sn}$ . Physical Review B, 2020, 102, .	1.1	4
21	Pressure-Tuneable Visible-Range Band Gap in the Ionic Spinel Tin Nitride. Angewandte Chemie, 2018, 130, 11797-11802.	1.6	3
22	The effect of pressure on hydrogen solubility in Zircaloy-4. Journal of Nuclear Materials, 2019, 524, 256-262.	1.3	3
23	Synthesis and chemical stability of technetium nitrides. Chemical Communications, 2021, 57, 8079-8082.	2.2	3
24	$\beta$ -Technetium: An allotrope with a nonstandard volume-pressure relationship. Physical Review Materials, 2021, 5, .	0.9	2
25	High-Pressure Synthesis of Bulk Cobalt Cementite, $\text{Co}_3\text{C}$ . Chemistry of Materials, 2021, 33, 9601-9607.	3.2	2
26	Stability of the peroxide group in $\text{Ba}_2\text{O}$ under high pressure. Physical Review B, 2021, 103, .	1.1	1
27	10.1063/1.5048316.1., 2018, , .		0
28	High-pressure structural systematics of dysprosium metal compressed in a neon pressure medium to 182 GPa. Physical Review B, 2022, 105, .	1.1	0