

# John E Proctor

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

1,122  
citations

471061

17  
h-index

433756

31  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1721  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-pressure Raman spectroscopy of graphene. <i>Physical Review B</i> , 2009, 80, .	1.1	188
2	Formation of transition metal hydrides at high pressures. <i>Solid State Communications</i> , 2009, 149, 1583-1586.	0.9	102
3	Theoretical and Experimental Study of the Crystal Structures, Lattice Vibrations, and Band Structures of Monazite-Type $\text{PbCrO}_4$ , $\text{PbSeO}_4$ , $\text{SrCrO}_4$ , and $\text{SrSeO}_4$ . <i>Inorganic Chemistry</i> , 2015, 54, 7524-7535.	1.9	90
4	Synthesis and properties of platinum hydride. <i>Physical Review B</i> , 2011, 83, .	1.1	75
5	Equation of state and high-pressure/high-temperature phase diagram of magnesium. <i>Physical Review B</i> , 2014, 90, .	1.1	69
6	High-Pressure Synthesis, Amorphization, and Decomposition of Silane. <i>Physical Review Letters</i> , 2011, 106, 095503.	2.9	56
7	Hydrogenation of Graphene by Reaction at High Pressure and High Temperature. <i>ACS Nano</i> , 2015, 9, 8279-8283.	7.3	46
8	Experimental and theoretical confirmation of an orthorhombic phase transition in niobium at high pressure and temperature. <i>Communications Materials</i> , 2020, 1, .	2.9	46
9	Melting curve and phase diagram of vanadium under high-pressure and high-temperature conditions. <i>Physical Review B</i> , 2019, 100, .	1.1	42
10	Determining molecular orientation via single molecule SERS in a plasmonic nano-gap. <i>Nanoscale</i> , 2017, 9, 17415-17421.	2.8	39
11	Mechanical properties of graphene. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	37
12	Monazite-type $\text{SrCrO}_4$ under compression. <i>Physical Review B</i> , 2016, 94, .	1.1	30
13	Dynamics, thermodynamics and structure of liquids and supercritical fluids: crossover at the Frenkel line. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 134003.	0.7	28
14	Crossover between liquidlike and gaslike behavior in $\text{CH}_4$ at 400 K. <i>Physical Review E</i> , 2017, 96, 052113.	0.8	27
15	Transition from Gas-like to Liquid-like Behavior in Supercritical $\text{N}_2$ . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6584-6589.	2.1	26
16	High pressure Raman spectroscopy of single-walled carbon nanotubes: Effect of chemical environment on individual nanotubes and the nanotube bundle. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 2468-2472.	1.9	24
17	An Introduction to Graphene and Carbon Nanotubes. , , .		23
18	Characterization of the high-pressure and high-temperature phase diagram and equation of state of chromium. <i>Scientific Reports</i> , 2022, 12, 6727.	1.6	21

#	ARTICLE	IF	CITATIONS
19	Pressure coefficients of Raman modes of carbon nanotubes resolved by chirality: Environmental effect on graphene sheet. <i>Physical Review B</i> , 2013, 87, .	1.1	19
20	Stabilization of boron carbide via silicon doping. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 015401.	0.7	18
21	High Pressure Raman, Optical Absorption, and Resistivity Study of SrCrO <sub>4</sub> . <i>Inorganic Chemistry</i> , 2018, 57, 7550-7557.	1.9	17
22	Experimental and theoretical study of Ti-6Al-4V to 220 GPa. <i>Physical Review B</i> , 2012, 85, .	1.1	16
23	Raman spectroscopy of methane (CH <sub>4</sub> ) to 165 ÅGPa: Effect of structural changes on Raman spectra. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1777-1782.	1.2	16
24	Modeling of liquid internal energy and heat capacity over a wide pressure-temperature range from first principles. <i>Physics of Fluids</i> , 2020, 32, .	1.6	15
25	Observation of Liquid-Liquid Phase Transitions in Ethane at 300 K. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10172-10178.	1.2	11
26	Influence of Synthesis Conditions on the Structure of Nickel Nanoparticles and their Reactivity in Selective Asymmetric Hydrogenation. <i>ChemCatChem</i> , 2020, 12, 1491-1503.	1.8	11
27	Structural Markers of the Frenkel Line in the Proximity of Widom Lines. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8902-8906.	1.2	6
28	Raman spectroscopy of ethane (C <sub>2</sub> H <sub>6</sub> ) to 120 GPa at 300 K. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 2311-2317.	1.2	4
29	The effect of pressure on hydrogen solubility in Zircaloy-4. <i>Journal of Nuclear Materials</i> , 2019, 524, 256-262.	1.3	3
30	Graphene Is Thin, but Not Infinitely So. <i>Physics Magazine</i> , 2019, 12, .	0.1	3
31	High pressure photoluminescence of bismuth-doped yttria-alumina-silica glass. <i>High Pressure Research</i> , 2022, 42, 94-104.	0.4	2
32	Electric discharge machine for preparation of diamond anvil cell sample chambers. <i>Review of Scientific Instruments</i> , 2018, 89, 105109.	0.6	1
33	Phase Diagram of Ethane above 300 K. <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	0