

# John E Proctor

## List of Publications by Year in descending order

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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 photoluminescence of bismuth-doped yttria-alumina-silica glass. High Pressure Research, 2022, 42, 94-104.	0.4	2
2	Characterization of the high-pressure and high-temperature phase diagram and equation of state of chromium. Scientific Reports, 2022, 12, 6727.	1.6	21
3	Mechanical properties of graphene. Applied Physics Reviews, 2021, 8, .	5.5	37
4	Structural Markers of the Frenkel Line in the Proximity of Widom Lines. Journal of Physical Chemistry B, 2021, 125, 8902-8906.	1.2	6
5	Influence of Synthesis Conditions on the Structure of Nickel Nanoparticles and their Reactivity in Selective Asymmetric Hydrogenation. ChemCatChem, 2020, 12, 1491-1503.	1.8	11
6	Experimental and theoretical confirmation of an orthorhombic phase transition in niobium at high pressure and temperature. Communications Materials, 2020, 1, .	2.9	46
7	Raman spectroscopy of ethane (C <sub>2</sub> H <sub>6</sub> ) to 120 GPa at 300 K. Journal of Raman Spectroscopy, 2020, 51, 2311-2317.	1.2	4
8	Modeling of liquid internal energy and heat capacity over a wide pressure-temperature range from first principles. Physics of Fluids, 2020, 32, .	1.6	15
9	The effect of pressure on hydrogen solubility in Zircaloy-4. Journal of Nuclear Materials, 2019, 524, 256-262.	1.3	3
10	Transition from Gas-like to Liquid-like Behavior in Supercritical N <sub>2</sub> . Journal of Physical Chemistry Letters, 2019, 10, 6584-6589.	2.1	26
11	Melting curve and phase diagram of vanadium under high-pressure and high-temperature conditions. Physical Review B, 2019, 100, .	1.1	42
12	Graphene Is Thin, but Not Infinitely So. Physics Magazine, 2019, 12, .	0.1	3
13	Dynamics, thermodynamics and structure of liquids and supercritical fluids: crossover at the Frenkel line. Journal of Physics Condensed Matter, 2018, 30, 134003.	0.7	28
14	Observation of Liquid-Liquid Phase Transitions in Ethane at 300 K. Journal of Physical Chemistry B, 2018, 122, 10172-10178.	1.2	11
15	Electric discharge machine for preparation of diamond anvil cell sample chambers. Review of Scientific Instruments, 2018, 89, 105109.	0.6	1
16	High Pressure Raman, Optical Absorption, and Resistivity Study of SrCrO <sub>4</sub> . Inorganic Chemistry, 2018, 57, 7550-7557.	1.9	17
17	Determining molecular orientation via single molecule SERS in a plasmonic nano-gap. Nanoscale, 2017, 9, 17415-17421.	2.8	39
18	Raman spectroscopy of methane (CH <sub>4</sub> ) to 165 GPa: Effect of structural changes on Raman spectra. Journal of Raman Spectroscopy, 2017, 48, 1777-1782.	1.2	16

#	ARTICLE	IF	CITATIONS
19	Crossover between liquidlike and gaslike behavior in $C_4H_4$ at 400 K. <i>Physical Review E</i> , 2017, 96, 052113.	0.8	27
20	Monazite-type $SrCrO_4$ under compression. <i>Physical Review B</i> , 2016, 94, .	1.1	30
21	Stabilization of boron carbide via silicon doping. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 015401.	0.7	18
22	Hydrogenation of Graphene by Reaction at High Pressure and High Temperature. <i>ACS Nano</i> , 2015, 9, 8279-8283.	7.3	46
23	Theoretical and Experimental Study of the Crystal Structures, Lattice Vibrations, and Band Structures of Monazite-Type $PbCrO_4$ , $PbSeO_4$ , $SrCrO_4$ , and $SrSeO_4$ . <i>Inorganic Chemistry</i> , 2015, 54, 7524-7535.	1.9	90
24	Equation of state and high-pressure/high-temperature phase diagram of magnesium. <i>Physical Review B</i> , 2014, 90, .	1.1	69
25	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
26	Experimental and theoretical study of Ti-6Al-4V to 220 GPa. <i>Physical Review B</i> , 2012, 85, .	1.1	16
27	High-Pressure Synthesis, Amorphization, and Decomposition of Silane. <i>Physical Review Letters</i> , 2011, 106, 095503.	2.9	56
28	Synthesis and properties of platinum hydride. <i>Physical Review B</i> , 2011, 83, .	1.1	75
29	Formation of transition metal hydrides at high pressures. <i>Solid State Communications</i> , 2009, 149, 1583-1586.	0.9	102
30	High-pressure Raman spectroscopy of graphene. <i>Physical Review B</i> , 2009, 80, .	1.1	188
31	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
32	An Introduction to Graphene and Carbon Nanotubes. , 0, , .		23
33	Phase Diagram of Ethane above 300 K. <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	0