

Elissaios Stavrou

List of Publications by Year in descending order

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38
papers

1,408
citations

567144

15
h-index

330025

37
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all docs

38
docs citations

38
times ranked

1704
citing authors

#	ARTICLE	IF	CITATIONS
1	Unexpected Stable Stoichiometries of Sodium Chlorides. <i>Science</i> , 2013, 342, 1502-1505.	6.0	394
2	A stable compound of helium and sodium at high pressure. <i>Nature Chemistry</i> , 2017, 9, 440-445.	6.6	276
3	High-Pressure Synthesis of a Pentazolate Salt. <i>Chemistry of Materials</i> , 2017, 29, 735-741.	3.2	170
4	Synthesis of sodium polyhydrides at high pressures. <i>Nature Communications</i> , 2016, 7, 12267.	5.8	79
5	Synthesis of Ultra-incompressible sp^3 -Hybridized Carbon Nitride with 1:1 Stoichiometry. <i>Chemistry of Materials</i> , 2016, 28, 6925-6933.	3.2	41
6	Synthesis of Xenon and Iron-Nickel Intermetallic Compounds at Earth's Core Thermodynamic Conditions. <i>Physical Review Letters</i> , 2018, 120, 096001.	2.9	39
7	Backbone N_xH compounds at high pressures. <i>Journal of Chemical Physics</i> , 2015, 142, 214308.	1.2	38
8	The high pressure structure and equation of state of 2,6-diamino-3,5-dinitropyrazine-1-oxide (LLM-105) up to 20 GPa: X-ray diffraction measurements and first principles molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2015, 143, 144506.	1.2	36
9	Pressure-induced phase transition in 1,3,5-triamino-2,4,6-trinitrobenzene (TATB). <i>Applied Physics Letters</i> , 2019, 114, .	1.5	34
10	Partitioning and structural role of Mn and Fe ions in ionic sulfophosphate glasses. <i>Journal of Chemical Physics</i> , 2014, 141, 224509.	1.2	29
11	Melting and refreezing of zirconium observed using ultrafast x-ray diffraction. <i>Physical Review Research</i> , 2020, 2, .	1.3	22
12	High-pressure structural study of MnF_2 . <i>Physical Review B</i> , 2016, 93, .		
13	Plasma flow reactor for steady state monitoring of physical and chemical processes at high temperatures. <i>Review of Scientific Instruments</i> , 2017, 88, 093506.	0.6	19
14	Extracting the Anharmonic Properties of the G-Band in Graphene Nanoplatelets. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4835-4842.	1.5	17
15	Effects of pressure on the structure and lattice dynamics of β -glycine: a combined experimental and theoretical study. <i>CrystEngComm</i> , 2019, 21, 4457-4464.	1.3	16
16	High-Pressure Equation of State of 1,3,5-triamino-2,4,6-trinitrobenzene: Insights into the Monoclinic Phase Transition, Hydrogen Bonding, and Anharmonicity. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10580-10591.	1.1	16
17	High-pressure X-ray diffraction, Raman and computational studies of $MgCl_2$ up to 1 Mbar: Extensive pressure stability of the β - $MgCl_2$ layered structure. <i>Scientific Reports</i> , 2016, 6, 30631.	1.6	15
18	Ultrafast shock compression of PDMS-based polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 827-832.	2.4	15

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19	Anharmonicity-induced first-order isostructural phase transition of zirconium under pressure. <i>Physical Review B</i> , 2018, 98, .	1.1	15
20	An Isosymmetric High-Pressure Phase Transition in \hat{L} -Glycylglycine: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1-10.	1.2	14
21	Detonation-induced transformation of graphite to hexagonal diamond. <i>Physical Review B</i> , 2020, 102, .	1.1	13
22	Probing the different spatial scales of Kel F-800 polymeric glass under pressure. <i>Scientific Reports</i> , 2013, 3, 1290.	1.6	11
23	Superconductivity in the van der Waals layered compound PS2. <i>Physical Review B</i> , 2019, 99, .	1.1	11
24	The equation of state of 5-nitro-2,4-dihydro-1,2,4-triazol-3-one determined via in-situ optical microscopy and interferometry measurements. <i>Journal of Applied Physics</i> , 2016, 119, 135904.	1.1	10
25	A High-Pressure Compound of Argon and Nickel: Noble Gas in the Earth's Core?. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2517-2524.	1.2	10
26	Two good metals make a semiconductor: A potassium-nickel compound under pressure. <i>Physical Review B</i> , 2020, 102, .	1.1	7
27	Equations of state of anhydrous AlF ₃ and AlI ₃ : Modeling of extreme condition halide chemistry. <i>Journal of Chemical Physics</i> , 2015, 142, 214506.	1.2	6
28	Effects of pressure on the structure and lattice dynamics of ammonium perchlorate: A combined experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2018, 149, 034501.	1.2	6
29	High pressure chemical reactivity and structural study of the Na-P and Li-P systems. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21797-21803.	5.2	5
30	High-pressure isothermal equation of state of composite materials: A case study of LX-17 polymer bonded explosive. <i>Applied Physics Letters</i> , 2019, 115, 051902.	1.5	4
31	Cold Spray Deposition of Thermoelectric Materials. <i>Jom</i> , 2020, 72, 2853-2859.	0.9	4
32	High-enthalpy crystalline phases of cadmium telluride. <i>Physical Review Research</i> , 2020, 2, .	1.3	4
33	A study of tantalum pentoxide Ta ₂ O ₅ structures up to 28%GPa. <i>Journal of Applied Physics</i> , 2017, 121, 175901.	1.1	3
34	High-pressure phase transition of alkali metal-transition metal deuteride Li ₂ PdD ₂ . <i>Journal of Chemical Physics</i> , 2017, 146, 234506.	1.2	2
35	Observation of Fundamental Mechanisms in Compression-Induced Phase Transformations Using Ultrafast X-ray Diffraction. <i>Jom</i> , 2021, 73, 2185-2193.	0.9	2
36	Equation of State for Natural Almandine, Spessartine, Pyrope Garnet: Implications for Quartz-In-Garnet Elastic Geobarometry. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 458.	0.8	2

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37	Ethane and methane at high pressures: structure and stability. Journal of Chemical Physics, 2021, 155, 184503.	1.2	2
38	High-pressure structural study of $\hat{I}\pm$ -Mn: Experiments and calculations. Physical Review B, 2021, 103, .	1.1	1