

# Elissaios Stavrou

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,408  
citations

567144

15  
h-index

330025

37  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1704  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-pressure structural study of $\hat{\pm}$ -Mn: Experiments and calculations. <i>Physical Review B</i> , 2021, 103, .	1.1	1
2	Observation of Fundamental Mechanisms in Compression-Induced Phase Transformations Using Ultrafast X-ray Diffraction. <i>Jom</i> , 2021, 73, 2185-2193.	0.9	2
3	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
4	Ethane and methane at high pressures: structure and stability. <i>Journal of Chemical Physics</i> , 2021, 155, 184503.	1.2	2
5	An Isosymmetric High-Pressure Phase Transition in $\hat{\pm}$ -Glycylglycine: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1-10.	1.2	14
6	High pressure chemical reactivity and structural study of the Na $\hat{\pm}$ P and Li $\hat{\pm}$ P systems. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21797-21803.	5.2	5
7	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
8	Two good metals make a semiconductor: A potassium-nickel compound under pressure. <i>Physical Review B</i> , 2020, 102, .	1.1	7
9	Detonation-induced transformation of graphite to hexagonal diamond. <i>Physical Review B</i> , 2020, 102, .	1.1	13
10	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
11	Cold Spray Deposition of Thermoelectric Materials. <i>Jom</i> , 2020, 72, 2853-2859.	0.9	4
12	Melting and refreezing of zirconium observed using ultrafast x-ray diffraction. <i>Physical Review Research</i> , 2020, 2, .	1.3	22
13	High-enthalpy crystalline phases of cadmium telluride. <i>Physical Review Research</i> , 2020, 2, .	1.3	4
14	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
15	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
16	Effects of pressure on the structure and lattice dynamics of $\hat{\pm}$ -glycine: a combined experimental and theoretical study. <i>CrystEngComm</i> , 2019, 21, 4457-4464.	1.3	16
17	Superconductivity in the van der Waals layered compound PS2. <i>Physical Review B</i> , 2019, 99, .	1.1	11
18	Pressure-induced phase transition in 1,3,5-triamino-2,4,6-trinitrobenzene (TATB). <i>Applied Physics Letters</i> , 2019, 114, .	1.5	34

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19	Ultrafast shock compression of PDMS-based polymers. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 827-832.	2.4	15
20	Synthesis of Xenon and Iron-Nickel Intermetallic Compounds at Earth's Core Thermodynamic Conditions. Physical Review Letters, 2018, 120, 096001.	2.9	39
21	Anharmonicity-induced first-order isostructural phase transition of zirconium under pressure. Physical Review B, 2018, 98, .	1.1	15
22	Effects of pressure on the structure and lattice dynamics of ammonium perchlorate: A combined experimental and theoretical study. Journal of Chemical Physics, 2018, 149, 034501.	1.2	6
23	A stable compound of helium and sodium at high pressure. Nature Chemistry, 2017, 9, 440-445.	6.6	276
24	A study of tantalum pentoxide Ta <sub>2</sub> O <sub>5</sub> structures up to 28%GPa. Journal of Applied Physics, 2017, 121, 175901.	1.1	3
25	High-Pressure Synthesis of a Pentazolate Salt. Chemistry of Materials, 2017, 29, 735-741.	3.2	170
26	Plasma flow reactor for steady state monitoring of physical and chemical processes at high temperatures. Review of Scientific Instruments, 2017, 88, 093506.	0.6	19
27	High-pressure phase transition of alkali metal-transition metal deuteride Li <sub>2</sub> PdD <sub>2</sub> . Journal of Chemical Physics, 2017, 146, 234506.	1.2	2
28	High-pressure X-ray diffraction, Raman and computational studies of MgCl <sub>2</sub> up to 1 Mbar: Extensive pressure stability of the $\beta$ -MgCl <sub>2</sub> layered structure. Scientific Reports, 2016, 6, 30631.	1.6	15
29	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. Journal of Applied Physics, 2016, 119, 135904.	1.1	10
30	Synthesis of Ultra-incompressible sp <sup>3</sup> -Hybridized Carbon Nitride with 1:1 Stoichiometry. Chemistry of Materials, 2016, 28, 6925-6933.	3.2	41
31	High-pressure structural study of $MnF_2$ . Physical Review B, 2016, 93, .		
32	Synthesis of sodium polyhydrides at high pressures. Nature Communications, 2016, 7, 12267.	5.8	79
33	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. Journal of Chemical Physics, 2015, 143, 144506.	1.2	36
34	Backbone NxH compounds at high pressures. Journal of Chemical Physics, 2015, 142, 214308.	1.2	38
35	Equations of state of anhydrous AlF <sub>3</sub> and AlI <sub>3</sub> : Modeling of extreme condition halide chemistry. Journal of Chemical Physics, 2015, 142, 214506.	1.2	6
36	Partitioning and structural role of Mn and Fe ions in ionic sulfophosphate glasses. Journal of Chemical Physics, 2014, 141, 224509.	1.2	29

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37	Unexpected Stable Stoichiometries of Sodium Chlorides. <i>Science</i> , 2013, 342, 1502-1505.	6.0	394
38	Probing the different spatial scales of Kel F-800 polymeric glass under pressure. <i>Scientific Reports</i> , 2013, 3, 1290.	1.6	11