

Volodymyr Svitlyk

List of Publications by Year in descending order

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37
papers

905
citations

471509

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docs citations

41
times ranked

1355
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity at 161 K in thorium hydride ThH ₁₀ : Synthesis and properties. <i>Materials Today</i> , 2020, 33, 36-44. Iron-vacancy superstructure and possible room-temperature antiferromagnetic order in superconducting Cs	14.2	187
2	$Fe_{1-y}O$ and $Fe_{1-y}Fe_3C$ melting relations at Earth's core-mantle boundary conditions: Implications for a volatile-rich or oxygen-rich core. <i>Earth and Planetary Science Letters</i> , 2017, 473, 94-103.	3.2	88
3	The synthesis, and crystal and magnetic structure of the iron selenide $BaFe_2Se_3$ with possible superconductivity at $T_c = 11$ K. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 402201.	4.4	77
4	Chirality-Dependent Growth of Self-Assembled Diphenylalanine Microtubes. <i>Crystal Growth and Design</i> , 2019, 19, 6414-6421.	1.8	43
5	Gd ₅ Si ₄ xPx: Targeted Structural Changes through Increase in Valence Electron Count. <i>Journal of the American Chemical Society</i> , 2009, 131, 2367-2374.	3.0	38
6	Methodology for <i>in situ</i> synchrotron X-ray studies in the laser-heated diamond anvil cell. <i>High Pressure Research</i> , 2017, 37, 170-180.	13.7	35
7	Stability of Fe,Al-bearing bridgmanite in the lower mantle and synthesis of pure Fe-bridgmanite. <i>Science Advances</i> , 2016, 2, e1600427.	1.2	34
8	Intrinsic crystal phase separation in the antiferromagnetic superconductor $RbFe_2As_2Se_2$: a diffraction study. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 435701.	10.3	31
9	Superconductivity in alkali metal intercalated iron selenides. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 293002.	1.8	28
10	Structure and Density of Fe-C Liquid Alloys Under High Pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 7813-7823.	3.4	28
11	Synthetic Approach for (Mn,Fe) ₂ (Si,P) Magnetocaloric Materials: Purity, Structural, Magnetic, and Magnetocaloric Properties. <i>Inorganic Chemistry</i> , 2017, 56, 2827-2833.	4.0	27
12	Crystal structure of $BaFe_2Se_3$ as a function of temperature and pressure: phase transition phenomena and high-order expansion of Landau potential. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 315403.	1.8	25
13	Incommensurate crystal structure of $PbHfO_3$. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 7-12.	1.1	25
14	Gd ₅ Ni _{0.96} Sb _{2.04} and Gd ₅ Ni _{0.71} Bi _{2.29} : Crystal structure, magnetic properties and magnetocaloric effect. Structural transformation and magnetic properties of hexagonal Gd ₅ Bi ₃ . <i>Journal of Solid State Chemistry</i> , 2008, 181, 1080-1086.	2.9	21
15	Temperature and Pressure Evolution of the Crystal Structure of $A_2Fe_1-x-ySe_2$ (A = Cs, Rb, K) Studied by Synchrotron Powder Diffraction. <i>Inorganic Chemistry</i> , 2011, 50, 10703-10708.	4.0	20
16	Iron under conditions close to the μ triple point. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	17
17	High Pressure Investigation of the SN_2 System up to the Megabar Range: Synthesis and Characterization of the SN_2 Solid. <i>Inorganic Chemistry</i> , 2019, 58, 9195-9204.	4.0	17

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19	Coexistence in $Cs_{0.8}Fe_{1.6}Se$	3.2	16
20	Gd ₅ Si ₄ -xBi _x Structures: Novel Slab Sequences Achieved by Turning off the Directionality of Nearest-Slab Interactions. Inorganic Chemistry, 2009, 48, 10364-10370.	4.0	15
21	Structural, magnetic and magnetocaloric properties of the Gd ₅ Si ₄ -xBi _x (x=0.5-3.5) phases. Journal of Magnetism and Magnetic Materials, 2010, 322, 2558-2566.	2.3	14
22	Complex biphase nature of the superconducting dome of the FeSe phase diagram. Physical Review B, 2017, 96, .	3.2	12
23	High-pressure polymorphism of BaFe ₂ Se ₃ . Journal of Physics Condensed Matter, 2019, 31, 085401.	1.8	12
24	Compressibility and pressure-induced disorder in superconducting phase-separated $CsFeSe$	3.2	11
25	High-pressure behavior of $\hat{I}\pm$ -boron studied on single crystals by X-ray diffraction, Raman and IR spectroscopy. Journal of Solid State Chemistry, 2017, 245, 50-60.	2.9	9
26	Structural stability and mechanism of compression of stoichiometric B ₁₃ C ₂ up to 68GPa. Scientific Reports, 2017, 7, 8969.	3.3	8
27	Insertion and Confinement of H ₂ O in Hydrophobic Siliceous Zeolites at High Pressure. Journal of Physical Chemistry C, 2019, 123, 17432-17439.	3.1	8
28	High-Temperature Order-Disorder Transition in CoCr ₂ Se ₄ and Trapping Co Disorder in Monoclinic CoCr ₂ Se ₄ : Structural Features of Cu _{1-x} Co _x Cr ₂ Se ₄ Phases. Inorganic Chemistry, 2009, 48, 5296-5302.	4.0	7
29	Crystal Structure and Non-Hydrostatic Stress-Induced Phase Transition of Urotropine Under High Pressure. Chemistry - A European Journal, 2021, 27, 1094-1102.	3.3	7
30	Single-Bonded Cubic AsN from High-Pressure and High-Temperature Chemical Reactivity of Arsenic and Nitrogen. Angewandte Chemie - International Edition, 2022, 61, .	13.8	7
31	Immobilization of radiotoxic elements with Y-stabilized zirconia: The thorium case. Journal of the American Ceramic Society, 2022, 105, 5975-5983.	3.8	3
32	Pressure-induced enhancement of two-dimensionality in LaO_{1+x}		

#	ARTICLE	IF	CITATIONS
37	Temperature- and Pressure-Induced Spin Crossover in $\text{Co}_{1+x}\text{Cr}_2\text{Se}_4$ ($x = 0.24$): A Diffraction Study. <i>Inorganic Chemistry</i> , 2016, 55, 338-344.	4.0	0