Volodymyr Svitlyk

List of Publications by Year
in descending order

37 papers	905 citations	471509 17 h-index	454955 30 g-index
41 all docs	41 docs citations	41 times ranked	1355 citing authors

#	Article	IF	Citations
1	Singleâ€Bonded Cubic AsN from Highâ€Pressure and Highâ€Temperature Chemical Reactivity of Arsenic and Nitrogen. Angewandte Chemie - International Edition, 2022, 61, .	13.8	7
2	Immobilization of radiotoxic elements with Yâ€stabilized zirconia: The thorium case. Journal of the American Ceramic Society, 2022, 105, 5975-5983.	3.8	3
3	Crystal Structure and Nonâ€Hydrostatic Stressâ€Induced Phase Transition of Urotropine Under High Pressure. Chemistry - A European Journal, 2021, 27, 1094-1102.	3.3	7
4	Pressure-induced symmetry lowering in Nb₃Sn_{1â^'x} superconductor. Journal of Physics Condensed Matter, 2021, 33, 245401.	1.8	1
5	Superconductivity at 161â€¯K in thorium hydride ThH10: Synthesis and properties. Materials Today, 2020, 33, 36-44.	14.2	187
6	Incommensurate crystal structure of PbHfO₃. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 7-12.	1.1	25
7	Chirality-Dependent Growth of Self-Assembled Diphenylalanine Microtubes. Crystal Growth and Design, 2019, 19, 6414-6421.	3.0	38
8	Pressure-induced enhancement of two-dimensionality in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>La</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mtext>â^'</mml:mtext><mml:mi>x</mml:mi></mml:mro		

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19	Structural stability and mechanism of compression of stoichiometric B13C2 up to 68GPa. Scientific Reports, 2017, 7, 8969.	3.3	8
20	Complex biphase nature of the superconducting dome of the FeSe phase diagram. Physical Review B, 2017, 96, .	3.2	12
21	High-pressure behavior of Î±-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
22	Stability of Fe,Al-bearing bridgmanite in the lower mantle and synthesis of pure Fe-bridgmanite. Science Advances, 2016, 2, e1600427.	10.3	31
23	Superconductivity in alkali metal intercalated iron selenides. Journal of Physics Condensed Matter, 2016, 28, 293002.	1.8	28
24	Temperature- and Pressure-Induced Spin Crossover in Co1+xCr2â€"xSe4 (x = 0.24): A Diffraction Study. Inorganic Chemistry, 2016, 55, 338-344.	4.0	0
25	Compressibility and pressure-induced disorder in superconducting phase-separated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mn>Cs</mml:mn></mml:mrow><mml:mrow> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mn>Fe</mml:mn></mml:mrow><mml:mrow> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mn>Se</m. Physical Review B, 2014, 89, .	3.2	11
26	Crystal structure of BaFe₂Se₃as a function of temperature and pressure: phase transition phenomena and high-order expansion of Landau potential. Journal of Physics Condensed Matter, 2013, 25, 315403.	1.8	25
27	display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.8</mml:mn></mml:mrow></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.6</mml:mn></mml:mrow></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	3.2	16
28	Intrinsic crystal phase separation in the antiferromagnetic superconductor Rb_{<i>y</i>}Fe_{2â^'<i>x</i>}Se₂: a diffraction study. Journal of Physics Condensed Matter, 2012, 24, 435701.	1.8	28
29	Temperature and Pressure Evolution of the Crystal Structure of A_{<i>x</i>}(Fe_{1â€"<i>y</i>}Se)₂ (A = Cs, Rb, K) Studied by Synchrotron Powder Diffraction. Inorganic Chemistry, 2011, 50, 10703-10708.	4.0	20
30	Iron-vacancy superstructure and possible room-temperature antiferromagnetic order in superconducting Cs<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mi>y</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow	3.2	88
31	The synthesis and crystal and magnetic structure of the iron selenide BaFe₂Se₃with possible superconductivity at<i>T</i>_c= 11 K. Journal of Physics Condensed Matter, 2011, 23, 402201.	1.8	43
32	Structural, magnetic and magnetocaloric properties of the Gd5Si4â^'xSbx (x=0.5â€"3.5) phases. Journal of Magnetism and Magnetic Materials, 2010, 322, 2558-2566.	2.3	14
33	Gd5Si4-xBix Structures: Novel Slab Sequences Achieved by Turning off the Directionality of Nearest-Slab Interactions. Inorganic Chemistry, 2009, 48, 10364-10370.	4.0	15
34	High-Temperature Orderâ^'Disorder Transition in CoCr2Se4and Trapping Co Disorder in Monoclinic CoCr2Se4: Structural Features of Cu1â^'xCoxCr2Se4Phases. Inorganic Chemistry, 2009, 48, 5296-5302.	4.0	7
35	Gd5Si4â^'xPx: Targeted Structural Changes through Increase in Valence Electron Count. Journal of the American Chemical Society, 2009, 131, 2367-2374.	13.7	35
36	Gd5Ni0.96Sb2.04 and Gd5Ni0.71Bi2.29: Crystal structure, magnetic properties and magnetocaloric effect. Structural transformation and magnetic properties of hexagonal Gd5Bi3. Journal of Solid State Chemistry, 2008, 181, 1080-1086.	2.9	21

#	Article	IF	Citations
37	Singleâ€Bonded Cubic AsN from Highâ€Pressure and Highâ€Temperature Chemical Reactivity of Arsenic and Nitrogen. Angewandte Chemie, 0, , e202114191.	2.0	1