Iurii Dovgaliuk

List of Publications by Year
in descending order

40	1,112	566801 15	414034 32
papers	citations	h-index	g-index

45	45	45	1927
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A zirconium metal-organic framework with SOC topological net for catalytic peptide bond hydrolysis. Nature Communications, 2022, 13, 1284.	5.8	32
2	Kinetic Barriers and Microscopic Mechanisms of Noble Gas Adsorption by Nanoporous Î³â€Mg(BH₄)₂ Obtained by Means of Subâ€Second Xâ€Ray Diffraction. Angewandte Chemie - International Edition, 2021, 60, 5250-5256.	7.2	5
3	Kinetic Barriers and Microscopic Mechanisms of Noble Gas Adsorption by Nanoporous Î³â€Mg(BH 4) 2 Obtained by Means of Subâ€Second Xâ€Ray Diffraction. Angewandte Chemie, 2021, 133, 5310-5316.	1.6	0
4	An Orthorhombic Modification of KCoPO₄ Stabilized under Hydrothermal Conditions: Crystal Chemistry and Magnetic Behavior. Inorganic Chemistry, 2021, 60, 9461-9470.	1.9	5
5	Monodispersed MOF-808 Nanocrystals Synthesized via a Scalable Room-Temperature Approach for Efficient Heterogeneous Peptide Bond Hydrolysis. Chemistry of Materials, 2021, 33, 7057-7066.	3.2	51
6	Accessing micro- and macroscopic pictures of gas adsorption by in situ powder diffraction. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, C360-C360.	0.0	0
7	Exploring the Origin of the Superior Electrochemical Performance of Hydrothermally Prepared Li-Rich Lithium Iron Phosphate Li_{1+Î´}Fe_{1âˆ’Î´}PO₄. Journal of Physical Chemistry C, 2020, 124, 126-134.	1.5	12
8	A Robust Titanium Isophthalate Metal-Organic Framework for Visible-Light Photocatalytic CO2 Methanation. CheM, 2020, 6, 3409-3427.	5.8	41
9	Principal Component Analysis (PCA) for Powder Diffraction Data: Towards Unblinded Applications. Crystals, 2020, 10, 581.	1.0	10
10	Metal-organic magnets with large coercivity and ordering temperatures up to 242Â°C. Science, 2020, 370, 587-592.	6.0	91
11	Discovery of new boron-rich chalcogenides: orthorhombic B6X (X=S, Se). Scientific Reports, 2020, 10, 9277.	1.6	15
12	Crystal Structure of the Potassium-Rich Analog of Manaksite K(K0.72Na0.28)Mn[Si4O10] Based on the Low-Temperature Synchrotron Experiment Data. Crystallography Reports, 2020, 65, 33-39.	0.1	2
13	Factors Determining Microporous Material Stability in Water: The Curious Case of SAPO-37. Chemistry of Materials, 2020, 32, 1495-1505.	3.2	15
14	Non-Isothermal Kinetics of Kr Adsorption by Nanoporous Î³-Mg(BH₄)₂ from in Situ Synchrotron Powder Diffraction. ACS Applied Materials & Interfaces, 2020, 12, 7710-7716.	4.0	4
15	Single-Step Synthesis of Dual Phase Bright Blue-Green Emitting Lead Halide Perovskite Nanocrystal Thin Films. Chemistry of Materials, 2019, 31, 6824-6832.	3.2	26
16	Thermal unequilibrium of strained black CsPbI ₃ thin films. Science, 2019, 365, 679-684.	6.0	444
17	Complexation of Ammonia Boranes with Al³⁺. Inorganic Chemistry, 2019, 58, 4753-4760.	1.9	8
18	Element selective magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ho</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>		

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19	Polar and non-polar structures of NH₄TiOF₃. Journal of Applied Crystallography, 2019, 52, 23-26.	1.9	10
20	Synchrotron studies of novel Tb2Ni5C3: Crystal and electronic structure. Journal of Alloys and Compounds, 2019, 773, 239-243.	2.8	2
21	Diffusion mechanisms of gas adsorption by porous frameworks from sub-second synchrotron powder X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e687-e687.	0.0	0
22	Nuclear magnetic resonance study of hydrogen dynamics in Al(BH4)4-based hypersalts M[Al(BH4)4] (MÂ= Na, K, Rb, Cs). Journal of Alloys and Compounds, 2018, 745, 179-186.	2.8	2
23	Deactivation of Zeolite Catalyst H-ZSM-5 during Conversion of Methanol to Gasoline: Operando Time- and Space-Resolved X-ray Diffraction. Journal of Physical Chemistry Letters, 2018, 9, 1324-1328.	2.1	33
24	Argyroditeâ€Type Cu₈GeSe_{6â€“x}Te_x (0 â‰ x â‰ 2): Temperatureâ€Dependent Crystal Structure and Thermoelectric Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1915-1922.	0.6	16
25	Biporous Metalâ€“Organic Framework with Tunable CO₂/CH₄ Separation Performance Facilitated by Intrinsic Flexibility. ACS Applied Materials & Interfaces, 2018, 10, 36144-36156.	4.0	33
26	Structure and thermoelectric properties of the silver lead bismuth selenides Ag5Pb9Bi19Se40 and AgPb3Bi7Se14. Dalton Transactions, 2018, 47, 12431-12438.	1.6	5
27	Lattice gas models and thermodynamics of gas uptake by porous materials from diffraction experiments. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e60-e60.	0.0	0
28	Kinetics of gas sorption by porous frameworks probed by sub-second synchrotron powder X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e158-e158.	0.0	0
29	A bi-porous metalâ€“organic framework with tuneable sorption performance facilitated by intrinsic flexibility. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e261-e261.	0.0	0
30	Solid Aluminum Borohydrides for Prospective Hydrogen Storage. ChemSusChem, 2017, 10, 4725-4734.	3.6	24
31	Cooperative Adsorption by Porous Frameworks: Diffraction Experiment and Phenomenological Theory. Chemistry - A European Journal, 2017, 23, 17714-17720.	1.7	12
32	Crystal structure of the new superconductor FeSe1â^'x S x. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C525-C525.	0.0	0
33	Reduction of CO2 with KBH4 in solvent-free conditions. International Journal of Hydrogen Energy, 2016, 41, 14377-14386.	3.8	42
34	Aluminium complexes of B- and N-based hydrides: Synthesis, structures and hydrogen storage properties. International Journal of Hydrogen Energy, 2016, 41, 15489-15504.	3.8	30
35	A Composite of Complex and Chemical Hydrides Yields the First Alâ€Based Amidoborane with Improved Hydrogen Storage Properties. Chemistry - A European Journal, 2015, 21, 14562-14570.	1.7	31
36	The crystal structure and decomposition properties of the first Al-based amidoborane fromin situX-ray powder diffraction. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s152-s152.	0.0	0

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37	Mild Dehydrogenation of Ammonia Borane Complexed with Aluminum Borohydride. Chemistry of Materials, 2015, 27, 768-777.	3.2	40
38	The First Halide-Free Bimetallic Aluminum Borohydride: Synthesis, Structure, Stability, and Decomposition Pathway. Journal of Physical Chemistry C, 2014, 118, 145-153.	1.5	34
39	CO 2 -promoted hydrolysis of KBH 4 for efficient hydrogen co-generation. International Journal of Hydrogen Energy, 2014, 39, 19603-19608.	3.8	17
40	Interaction of the components in Yâ€“Niâ€“Sn ternary system at 770ÂK and 670ÂK. Intermetallics, 2012, 29, 116-122.	1.8	8