Tomasz JaroÅ„

List of Publications by Year
in descending order

51	1,265	331538	377752
papers	citations	21 h-index	34 g-index

59	59	59	1050
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis, Structure, and Electric Conductivity of Higher Hydrides of Ytterbium at High Pressure. Inorganic Chemistry, 2022, 61, 8694-8702.	1.9	3
2	Polycyclic Aromatic Hydrocarbons and their Adducts with Solvents from Ag(II)SO₄-Based Oxidative C-C Coupling. Polycyclic Aromatic Compounds, 2021, 41, 795-804.	1.4	3
3	Extending the chemistry of weakly basic ligands: solvates of Ag⁺ and Cu⁺ stabilized by [Al{OC(CF₃)₃}₄]^{â^'} anion as model examples in the screening of useful weakly interacting solvents. Dalton Transactions, 2021, 50, 2050-2056.	1.6	4
4	Synthesis, Polymorphism and Thermal Decomposition Process of (n-C4H9)4NRE(BH4)4 for RE = Ho, Tm and Yb. Materials, 2021, 14, 1329.	1.3	4
5	Laser-induced crystallization and phase transitions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>As</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> under high pressure. Physical Review B, 2021, 103, .	1.1	0
6	Metal (boro-) hydrides for high energy density storage and relevant emerging technologies. International Journal of Hydrogen Energy, 2020, 45, 33687-33730.	3.8	53
7	Inclusion of Neon into an Yttrium Borohydride Structure at Elevated Pressure â€“ An Experimental and Theoretical Study. European Journal of Inorganic Chemistry, 2020, 2020, 3846-3851.	1.0	2
8	Structural and thermal study of solvent-free tetrabutylammonium chloride and its novel solvates. Journal of Molecular Structure, 2020, 1206, 127748.	1.8	7
9	Building blocks for the chemistry of perfluorinated alkoxyaluminates [Al{OC(CF₃)₃}₄]^{â^'}: simplified preparation and characterization of Li⁺â€“Cs⁺, Ag⁺, NH₄⁺, N₂H₅⁺ and N₂H₇⁺ salts. Dalton Transactions, 2020, 49, 7766-7773.	1.6	14
10	Two new derivatives of scandium borohydride, MSc(BH₄)₄, M = Rb, Cs, preparedviaa one-pot solvent-mediated method. Dalton Transactions, 2019, 48, 11829-11837.	1.6	7
11	Synthesis, structural characterization and thermal decomposition studies of (N2H5)2B12H12 and its solvates. International Journal of Hydrogen Energy, 2019, 44, 27030-27038.	3.8	12
12	Insights into reactivity patterns of Ag(II)SO4 with respect to fluoro- and trifluoromethyl-substituted aromatics. Journal of Fluorine Chemistry, 2019, 218, 105-110.	0.9	5
13	Silver route to cuprate analogs. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1495-1500.	3.3	47
14	New hydrogen-rich ammonium metal borohydrides, NH₄[M(BH₄)₄], M = Y, Sc, Al, as potential H₂sources. Dalton Transactions, 2018, 47, 4442-4448.	1.6	15
15	Preparation of a series of lanthanide borohydrides and their thermal decomposition to refractory lanthanide borides. Journal of Alloys and Compounds, 2018, 744, 57-63.	2.8	22
16	Persistence of Mixed and Non-intermediate Valence in the High-Pressure Structure of Silver(I,III) Oxide, AgO: A Combined Raman, X-ray Diffraction (XRD), and Density Functional Theory (DFT) Study. Inorganic Chemistry, 2017, 56, 5804-5812.	1.9	19
17	Metal fluoride nanotubes featuring square-planar building blocks in a high-pressure polymorph of AgF₂. Dalton Transactions, 2017, 46, 14742-14745.	1.6	20
18	High-Pressure Behavior of Silver Fluorides up to 40 GPa. Inorganic Chemistry, 2017, 56, 14651-14661.	1.9	26

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19	Amidoboranes of rubidium and caesium: the last missing members of the alkali metal amidoborane family. Dalton Transactions, 2017, 46, 16315-16320.	1.6	10
20	On the peculiarities of phase developments involving Zn 2+ -doped ZrO 2 system. Scripta Materialia, 2017, 138, 71-74.	2.6	4
21	Organic derivatives of Mg(BH₄)₂as precursors towards MgB₂and novel inorganic mixed-cation borohydrides. Dalton Transactions, 2016, 45, 14370-14377.	1.6	21
22	Local and Cooperative Jahnâ€“Teller Effect and Resultant Magnetic Properties of M₂AgF₄ (M = Naâ€“Cs) Phases. Inorganic Chemistry, 2016, 55, 11479-11489.	1.9	12
23	Ag₂S₂O₈ meets AgSO₄: the second example of metalâ€“ligand redox isomerism among inorganic systems. Dalton Transactions, 2016, 45, 18202-18207.	1.6	5
24	Structural properties and the fluoriteâ€“pyrochlore phase transition in La 2 Zr 2 O 7 : The role of oxygen to induce local disordered states. Journal of Alloys and Compounds, 2016, 686, 130-136.	2.8	65
25	Complete Series of Alkali-Metal M(BH₃NH₂BH₂NH₂BH₃) Hydrogen-Storage Salts Accessed via Metathesis in Organic Solvents. Inorganic Chemistry, 2016, 55, 37-45.	1.9	24
26	Facile Formation of Thermodynamically Unstable Novel Borohydride Materials by a Wet Chemistry Route. Chemistry - A European Journal, 2015, 21, 5689-5692.	1.7	29
27	Salts of highly fluorinated weakly coordinating anions as versatile precursors towards hydrogen storage materials. Dalton Transactions, 2015, 44, 19469-19477.	1.6	14
28	New Ag(F 1â^'x Cl x) phases for energy storage applications. Journal of Fluorine Chemistry, 2015, 174, 22-29.	0.9	10
29	Anomalous chemical shifts in X-ray photoelectron spectra of sulfur-containing compounds of silver (I) and (II). Journal of Electron Spectroscopy and Related Phenomena, 2015, 202, 38-45.	0.8	15
30	Synthesis and characterization of a series of mixed-cation borohydrides of scandium: [Cat][Sc(BH 4) 4], [Cat] = [Me 4 N], [n -Bu 4 N], and [Ph 4 P]. Inorganica Chimica Acta, 2015, 437, 70-73.	1.2	9
31	Hydrogen Storage Materials: Roomâ€Temperature Wetâ€Chemistry Approach toward Mixedâ€Metal Borohydrides. Angewandte Chemie - International Edition, 2015, 54, 1236-1239.	7.2	42
32	Influence of electrolyte composition and temperature on behaviour of AB5 hydrogen storage alloy used as negative electrode in Niâ€“MH batteries. Journal of Power Sources, 2014, 263, 304-309.	4.0	31
33	Polymorphism and hydrogen discharge from holmium borohydride, Ho(BH4)3, and KHo(BH4)4. International Journal of Hydrogen Energy, 2014, 39, 20024-20030.	3.8	23
34	M(BH₃NH₂BH₂NH₂BH₃) â€“ the missing link in the mechanism of the thermal decomposition of light alkali metal amidoboranes. Physical Chemistry Chemical Physics, 2014, 16, 23340-23346.	1.3	21
35	Novel lanthanide borohydrides: magnetism of all flavours. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C275-C275.	0.0	3
36	M[Y(BH4)4] and M2Li[Y(BH4)6â^'xClx] (M = Rb, Cs): new borohydride derivatives of yttrium and their hydrogen storage properties. Dalton Transactions, 2013, 42, 6886.	1.6	36

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37	MYb(BH4)4(M= K, Na) from laboratory X-ray powder data. Acta Crystallographica Section C: Crystal Structure Communications, 2013, 69, 1289-1291.	0.4	18
38	Tetrabutylammonium cation in a homoleptic environment of borohydride ligands: [(n-Bu)4N][BH4] and [(n-Bu)4N][Y(BH4)4]. Journal of Solid State Chemistry, 2012, 191, 279-282.	1.4	25
39	Y(BD4)3, an efficient store of deuterium, and impact of isotope effects on its thermal decomposition. Journal of Nuclear Materials, 2012, 420, 307-313.	1.3	6
40	Phase transition induced improvement in H2 desorption kinetics: the case of the high-temperature form of Y(BH4)3. Physical Chemistry Chemical Physics, 2011, 13, 8847.	1.3	28
41	Na[Li(NH2BH3)2] â€“ the first mixed-cation amidoborane with unusual crystal structure. Dalton Transactions, 2011, 40, 4407.	1.6	70
42	Tetramethylammonium borohydride from powder data. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2171-o2171.	0.2	11
43	Probing Lewis acidity of Y(BH4)3via its reactions with MBH4 (M = Li, Na, K, NMe4). Dalton Transactions, 2011, 40, 12808.	1.6	43
44	A multifaceted approach to hydrogen storage. Physical Chemistry Chemical Physics, 2011, 13, 16955.	1.3	64
45	Y(BH4)3â€”an oldâ€“new ternary hydrogen store akalearning from a multitude of failures. Dalton Transactions, 2010, 39, 160-166.	1.6	73
46	KAgF3, K2AgF4 and K3Ag2F7: important steps towards a layered antiferromagnetic fluoroargentate(II),. CrystEngComm, 2009, 11, 1702.	1.3	38
47	Prediction of giant antiferromagnetic coupling in exotic fluorides of Ag^{II}. Physica Status Solidi - Rapid Research Letters, 2008, 2, 71-73.	1.2	27
48	Towards superconductivity in hydrides: computational studies of two hypothetical ternary compounds, % MathType!Translator!2!1!AMS LaTeX.tdl!TeX -- AMS-LaTeX! % MathType!MTEF!2!1!+- % feaaeaart1ev0aaatCvAUfeBSjuyZL2yd9gzLbvyNv2CaerbbjxAHX % garmWu51MyVXgatuuDJXwAK1uy0HwmaeHbfv3ySLgzG0uy0Hgip5wz % aebbnrfifHhDYfgasaacH8qrps0lbbf9q8WrFfeuY-Hhbbf9v8qqaq % Fr0xc9pk0xbba9q8WqFfea0-yr0RYxir-Jbba9q8aq0-yq-He9q8qq % Q8frFve9Fve9Ff0dmeaabaqaciGacaGaaeq	0.8	6
49	Prediction of thermodynamic stability and electronic structure of novel ternary lanthanide hydrides. Journal of Materials Chemistry, 2006, 16, 1154.	6.7	10
50	Structures and Potential Superconductivity inSiH4at High Pressure: En Route to â€œMetallic Hydrogenâ€• Physical Review Letters, 2006, 96, 017006.	2.9	187
51	How do electrons travel in unusual metallic fluorides of Ag2+?. Physica Status Solidi (B): Basic Research, 2005, 242, R1-R3.	0.7	14