

Abhi Karkamkar

List of Publications by Year in descending order

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17
papers

1,786
citations

516710

16
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

1625
citing authors

#	ARTICLE	IF	CITATIONS
1	High-capacity hydrogen storage in lithium and sodium amidoboranes. <i>Nature Materials</i> , 2008, 7, 138-141.	27.5	583
2	Synthesis of ammonia borane for hydrogen storage applications. <i>Energy and Environmental Science</i> , 2008, 1, 156.	30.8	233
3	The Effects of Chemical Additives on the Induction Phase in Solid-State Thermal Decomposition of Ammonia Borane. <i>Chemistry of Materials</i> , 2008, 20, 5332-5336.	6.7	188
4	Reversible dehydrogenation of magnesium borohydride to magnesium triborane in the solid state under moderate conditions. <i>Chemical Communications</i> , 2011, 47, 1330-1332.	4.1	149
5	Determination of Structure and Phase Transition of Light Element Nanocomposites in Mesoporous Silica: Case study of NH_3BH_3 in MCM-41. <i>Journal of the American Chemical Society</i> , 2009, 131, 13749-13755.	13.7	93
6	Solid-state hydrogen rich boron-nitrogen compounds for energy storage. <i>Chemical Society Reviews</i> , 2019, 48, 5350-5380.	38.1	82
7	Interaction of lithium hydride and ammonia borane in THF. <i>Chemical Communications</i> , 2008, , 5595.	4.1	70
8	Kinetic and thermodynamic investigation of hydrogen release from ethane 1,2-di-amineborane. <i>Energy and Environmental Science</i> , 2011, 4, 4187.	30.8	70
9	Synthesis, structure and dehydrogenation of magnesium amidoborane monoammoniate. <i>Chemical Communications</i> , 2010, 46, 5752.	4.1	65
10	Characterization of a new phase of ammonia borane. <i>Energy and Environmental Science</i> , 2010, 3, 796.	30.8	48
11	The diammoniate of diborane: crystal structure and hydrogen release. <i>Chemical Communications</i> , 2010, 46, 8564.	4.1	47
12	Hyperpolarized ^{129}Xe NMR Investigation of Ammonia Borane in Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6485-6490.	3.1	37
13	Control of hydrogen release and uptake in amine borane molecular complexes: thermodynamics of ammonia borane, ammonium borohydride, and the diammoniate of diborane. <i>Faraday Discussions</i> , 2011, 151, 157.	3.2	36
14	3-Methyl-1,2-BN-cyclopentane: a promising H_2 storage material?. <i>Dalton Transactions</i> , 2013, 42, 611-614.	3.3	26
15	Experimental and computational studies on collective hydrogen dynamics in ammonia borane: Incoherent inelastic neutron scattering. <i>Journal of Chemical Physics</i> , 2009, 130, 024507.	3.0	25
16	Methods to stabilize and destabilize ammonium borohydride. <i>Dalton Transactions</i> , 2013, 42, 680-687.	3.3	22
17	Synthesis and Engineering Materials Properties of Fluid-Phase Chemical Hydrogen Storage Materials for Automotive Applications. <i>Energy & Fuels</i> , 2015, 29, 6695-6703.	5.1	5