

David M Antonelli

List of Publications by Year in descending order

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papers

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687363

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20
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20
times ranked

599
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting the Kubas Interaction in the Design of Hydrogen Storage Materials. <i>Advanced Materials</i> , 2009, 21, 1787-1800.	21.0	153
2	Mesoporous transition metal oxides: characterization and applications in heterogeneous catalysis. <i>Journal of Materials Chemistry</i> , 2009, 19, 1937.	6.7	72
3	The Kubas interaction in M(ii) (M = Ti, V, Cr) hydrazine-based hydrogen storage materials: a DFT study. <i>Dalton Transactions</i> , 2012, 41, 8515.	3.3	50
4	Phase Changes and Electronic Properties in Toroidal Mesoporous Molybdenum Oxides. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1471-1475.	13.8	46
5	A manganese hydride molecular sieve for practical hydrogen storage under ambient conditions. <i>Energy and Environmental Science</i> , 2019, 12, 1580-1591.	30.8	41
6	Computational Study of Silica-Supported Transition Metal Fragments for Kubas-type Hydrogen Storage. <i>Journal of the American Chemical Society</i> , 2010, 132, 17296-17305.	13.7	30
7	Transition Metal Hydrazide-Based Hydrogen Storage Materials: the First Atoms-in-Molecules Analysis of the Kubas Interaction. <i>Chemistry - A European Journal</i> , 2012, 18, 1750-1760.	3.3	25
8	Thermodynamically neutral Kubas-type hydrogen storage using amorphous Cr(III) alkyl hydride gels. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9480-9487.	2.8	24
9	Are Metal-Metal Interactions Involved in the Rising Enthalpies Observed in The Kubas Binding of H ₂ to Hydrazine-Linked Hydrogen Storage Materials?. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19134-19144.	3.1	20
10	Titanium hydrazide gels for Kubas-type hydrogen storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1947.	10.3	20
11	Functionalized Porous Silicas with Unsaturated Early Transition Metal Moieties as Hydrogen Storage Materials: Comparison of Metal and Oxidation State. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8651-8660.	3.1	18
12	Mesoporous Ta oxide reduced with bis(toluene)Ti: electronic properties and mechanistic considerations of nitrogen cleavage on the low valent surface. <i>Dalton Transactions</i> , 2003, , 4115-4120.	3.3	16
13	Observation of TiH ₅ and TiH ₇ in Bulk-Phase TiH ₃ Gels for Kubas-Type Hydrogen Storage. <i>Chemistry of Materials</i> , 2013, 25, 4765-4771.	6.7	15
14	Synthesis and magnetic properties of decamethylsamarocene composites of mesoporous niobium oxide. <i>Journal of Materials Chemistry</i> , 2003, 13, 75-79.	6.7	9
15	Direct Observation of Activated Hydrogen Binding to a Supported Organometallic Compound at Room Temperature. <i>Chemistry - A European Journal</i> , 2012, 18, 4170-4173.	3.3	7
16	Synthesis and Electrochemical Evaluation of Multivalent Vanadium Hydride Gels for Lithium and Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11407-11414.	3.1	5
17	Computational study of H ₂ binding to MH ₃ (M = Ti, V, or Cr). <i>Dalton Transactions</i> , 2019, 48, 4921-4930.	3.3	2
18	Formation of Mn hydrides from bis(trimethylsilylmethyl) Mn(II): A DFT study. <i>Polyhedron</i> , 2020, 178, 114355.	2.2	0