Riccarda Caputo

List of Publications by Year
in descending order

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Version: 2024-02-01

33	8,103	430442	377514
papers	citations	18 h-index	34 g-index

37	37	37	10541
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal Structure Prediction and Dehydrogenation Mechanism of LiMg(BH₄)₃(NH₃)₂. Journal of Physical Chemistry C, 2021, 125, 10235-10242.	1.5	4
2	First-Principles Crystal Structure Prediction of Cu(I)-TCNQ Polymorphs. Journal of Physical Chemistry C, 2020, 124, 70-82.	1.5	7
3	Can lithium form phases with molybdenum?. Journal of Solid State Chemistry, 2019, 271, 230-238.	1.4	4
4	Topochemical Path in High Lithiation of MoS₂. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 309-316.	0.6	3
5	Allotropes of tellurium from first-principles crystal structure prediction calculations under pressure. RSC Advances, 2018, 8, 39650-39656.	1.7	9
6	Colloidal Bismuth Nanocrystals as a Model Anode Material for Rechargeable Mg-Ion Batteries: Atomistic and Mesoscale Insights. ACS Nano, 2018, 12, 8297-8307.	7.3	61
7	An Insight into Sodiation of Antimony from First-Principles Crystal Structure Prediction. Journal of Electronic Materials, 2016, 45, 999-1010.	1.0	17
8	Frontispiece: Seamless Rim-Functionalization of h-BN with Silica-Experiment and Theoretical Modeling. Chemistry - A European Journal, 2015, 21, n/a-n/a.	1.7	0
9	A theoretical and experimental study of the crystal structure of H₂V₃O₈. RSC Advances, 2015, 5, 106543-106550.	1.7	17
10	Nanocrystals of Cesium Lead Halide Perovskites (CsPbX₃, X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut. Nano Letters, 2015, 15, 3692-3696.	4.5	6,814
11	Seamless Rimâ€Functionalization of hâ€BN with Silicaâ€"Experiment and Theoretical Modeling. Chemistry - A European Journal, 2015, 21, 7662-7667.	1.7	2
12	A General Synthesis Strategy for Monodisperse Metallic and Metalloid Nanoparticles (In, Ga, Bi, Sb, Zn,) Tj ETQq0 0 0 rgBT /Overlock 10 635-647.	3.2	99
13	Monodisperse Colloidal Gallium Nanoparticles: Synthesis, Low Temperature Crystallization, Surface Plasmon Resonance and Li-Ion Storage. Journal of the American Chemical Society, 2014, 136, 12422-12430.	6.6	133
14	Precision synthesis of colloidal inorganic nanocrystals using metal and metalloid amides. Nanoscale, 2013, 5, 8398.	2.8	42
15	Ab initio crystal structure prediction by combining symmetry analysis representations and total energy calculations. An insight into the structure of Mg(BH₄)₂. Physical Chemistry Chemical Physics, 2013, 15, 1471-1480.	1.3	13
16	Tailoring Two Polymorphs of LiFePO4 by Efficient Microwave-Assisted Synthesis: A Combined Experimental and Theoretical Study. Chemistry of Materials, 2013, 25, 3399-3407.	3.2	40
17	Exploring the structureâ€"composition phase space of lithium borocarbide, LixBC for x â‰ 1. RSC Advances, 2013, 3, 10230.	1.7	4
18	Lithium Dihydroborate: First-Principles Structure Prediction of LiBH2. Inorganic Chemistry, 2012, 51, 9757-9765.	1.9	13

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19	Experimental Evidence of Na2[B12H12] and Na Formation in the Desorption Pathway of the 2NaBH4+ MgH2System. Journal of Physical Chemistry C, 2011, 115, 16664-16671.	1.5	46
20	A multifaceted approach to hydrogen storage. Physical Chemistry Chemical Physics, 2011, 13, 16955.	1.3	64
21	Ab-initio crystal structure prediction. A case study: NaBH4. Journal of Solid State Chemistry, 2011, 184, 1622-1630.	1.4	21
22	Stability and Decomposition of NaBH₄. Journal of Physical Chemistry C, 2010, 114, 7173-7177.	1.5	174
23	Room-Temperature Synthesis of Nickel Borides via Decomposition of NaBH₄ Promoted by Nickel Bromide. Inorganic Chemistry, 2010, 49, 8756-8762.	1.9	21
24	Can Na2[B12H12] be a decomposition product of NaBH4?. Physical Chemistry Chemical Physics, 2010, 12, 15093.	1.3	49
25	First-Principles Determination of the Ground-State Structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LiBH</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2010, 104, 215501.	2.9	45
26	First-principles study of the paths of the decomposition reaction of LiBH₄. Molecular Physics, 2010, 108, 1263-1276.	0.8	17
27	First-principles determination of the ground-state structure of Mg(BH4)2. Chemical Physics Letters, 2009, 480, 203-209.	1.2	38
28	Complex Hydrides with (BH₄)^{â^'} and (NH₂)^{â^'} Anions as New Lithium Fast-Ion Conductors. Journal of the American Chemical Society, 2009, 131, 16389-16391.	6.6	183
29	First principles study ofÎ±-boron: can the B12cage host hetero-atoms?. Molecular Physics, 2009, 107, 1831-1842.	0.8	16
30	Phenol near Ni(111), Ni(110), and Ni(221) surfaces in a vertical ring geometry: A density functional study of the oxygen-surface bonding and O-H cleavage. Physical Review B, 2007, 75, .	1.1	31
31	Alkanethiol headgroup on metal (111)-surfaces: general features of the adsorption onto group 10 and 11 transition metals. Journal of Physics Condensed Matter, 2007, 19, 176004.	0.7	5
32	Adsorption of Benzene on Coinage Metals:Â A Theoretical Analysis Using Wavefunction-Based Methodsâ€. Journal of Physical Chemistry A, 2007, 111, 12778-12784.	1.1	38
33	Where do the H atoms reside in PdHxsystems?. Molecular Physics, 2003, 101, 1781-1787.	0.8	71