

Vinh Son Nguyen

List of Publications by Year in descending order

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papers

1,088
citations

471371

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docs citations

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times ranked

1478
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydroxyl Radical Recycling in Isoprene Oxidation Driven by Hydrogen Bonding and Hydrogen Tunneling: The Upgraded LIM1 Mechanism. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8625-8643.	1.1	206
2	Molecular Mechanism for H ₂ Release from BH ₃ NH ₃ , Including the Catalytic Role of the Lewis Acid BH ₃ . <i>Journal of Physical Chemistry A</i> , 2007, 111, 679-690.	1.1	161
3	Computational Study of the Release of H ₂ from Ammonia Borane Dimer (BH ₃ NH ₃) ₂ and Its Ion Pair Isomers. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8844-8856.	1.1	124
4	Theoretical Study of Formamide Decomposition Pathways. <i>Journal of Physical Chemistry A</i> , 2011, 115, 841-851.	1.1	82
5	The reaction of methyl peroxy and hydroxyl radicals as a major source of atmospheric methanol. <i>Nature Communications</i> , 2016, 7, 13213.	5.8	65
6	Theoretical Study of the Decomposition of Formamide in the Presence of Water Molecules. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2543-2555.	1.1	41
7	Reactions of Diborane with Ammonia and Ammonia Borane: Catalytic Effects for Multiple Pathways for Hydrogen Release. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9946-9954.	1.1	37
8	Double Fence Porphyrins that are Compatible with Cobalt(II/III) Electrolyte for High Efficiency Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4886-4893.	7.2	35
9	Potential hydrogen storage of lithium amidoboranes and derivatives. <i>Chemical Physics Letters</i> , 2010, 489, 148-153.	1.2	32
10	Theoretical Study of the Hydrogen Release from Ammonia Alane and the Catalytic Effect of Alane. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5662-5671.	1.5	30
11	<i>tert</i> -Butylpyridine Coordination with [Cu(dmp) ₂] ²⁺ Redox Couple and Its Connection to the Stability of the Dye-Sensitized Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5812-5819.	4.0	30
12	Ammonia Triborane: Theoretical Study of the Mechanism of Hydrogen Release. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9603-9613.	1.5	28
13	Theoretically derived mechanisms of HPALD photolysis in isoprene oxidation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9096-9106.	1.3	21
14	Anthracene-Bridged Sensitizers for Dye-Sensitized Solar Cells with 37% Efficiency under Dim Light. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	21
15	Atmospheric Vinyl Alcohol to Acetaldehyde Tautomerization Revisited. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4005-4011.	2.1	19
16	Calculations suggest facile hydrogen release from water using boranes and alanes as catalysts. <i>Chemical Physics Letters</i> , 2009, 472, 175-180.	1.2	18
17	Formation and hydrogen release of hydrazine bisborane: transfer vs. attachment of a borane. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6649.	1.3	18
18	Computational Study of Molecular Complexes Based on Ammonia Alane for Chemical Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18914-18926.	1.5	15

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19	Decomposition Pathways of the Neutral and Protonated Formamide in Some Lower-Lying Excited States. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7904-7917.	1.1	15
20	Hydrogen release from ammonia borane and derivatives in the presence of a ruthenium complex incorporating cooperative PNP ligands. <i>Chemical Physics Letters</i> , 2011, 513, 195-200.	1.2	14
21	The photolysis of α -hydroperoxycarbonyls. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6970-6979.	1.3	14
22	Catalytic generation of molecular hydrogen from hydrazine using lithium and beryllium hydrides. <i>Chemical Physics Letters</i> , 2010, 496, 25-31.	1.2	11
23	Fast (<i>E</i>) \leftrightarrow (<i>Z</i>) Isomerization Mechanisms of Substituted Allyloxy Radicals in Isoprene Oxidation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7270-7276.	1.1	9
24	Theoretical study of the hydrogen release mechanism from a lithium derivative of ammonia borane, $\text{LiNH}_2\text{BH}_3\text{NH}_3$. <i>Chemical Physics Letters</i> , 2011, 517, 22-28.	1.2	8
25	Production of hydrogen from reactions of methane with boranes. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9703.	1.3	7
26	Experimental and theoretical study of the reaction of the ethynyl radical with nitrous oxide, $\text{C}_2\text{H} + \text{N}_2\text{O}$. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7456.	1.3	7
27	Double Fence Porphyrins that are Compatible with Cobalt(II/III) Electrolyte for High Efficiency Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 4936-4943.	1.6	5
28	Decomposition Mechanism of the Anions Generated by Atmospheric Pressure Chemical Ionization of Nitroanilines. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10954-10960.	1.1	4
29	Hydrogen release from systems containing phosphine, borane, alane and galane: A mechanistic study. <i>Chemical Physics Letters</i> , 2013, 584, 30-36.	1.2	4
30	Hydrazine bisalane is a potential compound for chemical hydrogen storage. A theoretical study. <i>Dalton Transactions</i> , 2011, 40, 8540.	1.6	3
31	Hydrogen Release from Ammonia Alane-Based Materials: Formation of Cyclotrialazane and Alazine. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4524-4539.	1.5	3
32	Calculations suggest a new preparation route to ammonium hydrotriborate salt for use in hydrogen storage. <i>Chemical Physics Letters</i> , 2010, 500, 237-241.	1.2	1