

Fei Chang

List of Publications by Year in descending order

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16
papers

1,475
citations

623574

14
h-index

996849

15
g-index

16
all docs

16
docs citations

16
times ranked

1603
citing authors

#	ARTICLE	IF	CITATIONS
1	Breaking scaling relations to achieve low-temperature ammonia synthesis through LiH-mediated nitrogen transfer and hydrogenation. <i>Nature Chemistry</i> , 2017, 9, 64-70.	6.6	451
2	Production of ammonia via a chemical looping process based on metal imides as nitrogen carriers. <i>Nature Energy</i> , 2018, 3, 1067-1075.	19.8	207
3	Reversible ammonia-based and liquid organic hydrogen carriers for high-density hydrogen storage: Recent progress. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7746-7767.	3.8	166
4	Emerging Materials and Methods toward Ammonia-Based Energy Storage and Conversion. <i>Advanced Materials</i> , 2021, 33, e2005721.	11.1	137
5	Barium Hydride-Mediated Nitrogen Transfer and Hydrogenation for Ammonia Synthesis: A Case Study of Cobalt. <i>ACS Catalysis</i> , 2017, 7, 3654-3661.	5.5	136
6	Alkali and Alkaline Earth Hydrides-Driven N_2 Activation and Transformation over Mn Nitride Catalyst. <i>Journal of the American Chemical Society</i> , 2018, 140, 14799-14806.	6.6	81
7	The Formation of Surface Lithium-Iron Ternary Hydride and its Function on Catalytic Ammonia Synthesis at Low Temperatures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8716-8720.	7.2	58
8	Highly Active $Mn-Ni-Li_2NH$ Composite Catalyst for Producing CO_x -Free Hydrogen. <i>ACS Catalysis</i> , 2015, 5, 2708-2713.	5.5	53
9	Potassium hydride-intercalated graphite as an efficient heterogeneous catalyst for ammonia synthesis. <i>Nature Catalysis</i> , 2022, 5, 222-230.	16.1	37
10	Covalent triazine-based framework as an efficient catalyst support for ammonia decomposition. <i>RSC Advances</i> , 2015, 5, 3605-3610.	1.7	31
11	Ammonia Decomposition with Manganese Nitride-Calcium Imide Composites as Efficient Catalysts. <i>ChemSusChem</i> , 2016, 9, 364-369.	3.6	28
12	Transition and Alkali Metal Complex Ternary Amides for Ammonia Synthesis and Decomposition. <i>Chemistry - A European Journal</i> , 2017, 23, 9766-9771.	1.7	28
13	Effect of Pore Confinement of $NaNH_2$ and KNH_2 on Hydrogen Generation from Ammonia. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21487-21496.	1.5	26
14	Lithium Imide Synergy with 3d Transition-Metal Nitrides Leading to Unprecedented Catalytic Activities for Ammonia Decomposition. <i>Angewandte Chemie</i> , 2015, 127, 2993-2997.	1.6	18
15	The Formation of Surface Lithium-Iron Ternary Hydride and its Function on Catalytic Ammonia Synthesis at Low Temperatures. <i>Angewandte Chemie</i> , 2017, 129, 8842-8846.	1.6	16
16	Carbon-Supported Potassium Hydride for Efficient Low-Temperature Desulfurization. <i>Chemistry - A European Journal</i> , 0, , .	1.7	2