

# Gao, Wenbo

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4536149/publications.pdf>

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18  
papers

1,341  
citations

687363

13  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

1344  
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.	13.6	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.	39.5	207
3	Emerging Materials and Methods toward Ammonia-Based Energy Storage and Conversion. <i>Advanced Materials</i> , 2021, 33, e2005721.	21.0	137
4	Barium Hydride-Mediated Nitrogen Transfer and Hydrogenation for Ammonia Synthesis: A Case Study of Cobalt. <i>ACS Catalysis</i> , 2017, 7, 3654-3661.	11.2	136
5	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.	13.7	81
6	Ternary ruthenium complex hydrides for ammonia synthesis via the associative mechanism. <i>Nature Catalysis</i> , 2021, 4, 959-967.	34.4	67
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.	13.8	58
8	Hydrides, Amides and Imides Mediated Ammonia Synthesis and Decomposition. <i>Chinese Journal of Chemistry</i> , 2019, 37, 442-451.	4.9	32
9	A multi-functional composite nitrogen carrier for ammonia production via a chemical looping route. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1039-1047.	10.3	32
10	Lithium Palladium Hydride Promotes Chemical Looping Ammonia Synthesis Mediated by Lithium Imide and Hydride. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6716-6722.	3.1	29
11	Effect of BaNH, CaNH, Mg <sub>3</sub> N <sub>2</sub> on the activity of Co in NH <sub>3</sub> decomposition catalysis. <i>Journal of Energy Chemistry</i> , 2020, 46, 16-21.	12.9	22
12	Enabling Semihydrogenation of Alkynes to Alkenes by Using a Calcium Palladium Complex Hydride. <i>Journal of the American Chemical Society</i> , 2021, 143, 20891-20897.	13.7	20
13	Barium chromium nitride-hydride for ammonia synthesis. <i>Chem Catalysis</i> , 2021, 1, 1042-1054.	6.1	19
14	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.	2.0	16
15	In situ formed Co from a Co-Mg-O solid solution synergizing with LiH for efficient ammonia synthesis. <i>Chemical Communications</i> , 2021, 57, 8576-8579.	4.1	11
16	Advances in the Chemical Looping Ammonia Synthesis. <i>Acta Chimica Sinica</i> , 2020, 78, 916.	1.4	11
17	Thermodynamic Properties of Ammonia Production from Hydrogenation of Alkali and Alkaline Earth Metal Amides. <i>ChemPhysChem</i> , 2019, 20, 1376-1381.	2.1	8
18	Dinitrogen fixation mediated by lanthanum hydride. <i>Journal of Energy Chemistry</i> , 2022, 72, 1-7.	12.9	4