

# Xiuyun Wang

## List of Publications by Year in descending order

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37  
papers

1,282  
citations

361296

20  
h-index

360920

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g-index

37  
all docs

37  
docs citations

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times ranked

1182  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosting Efficient Ammonia Synthesis over Atomically Dispersed Co-Based Catalyst via the Modulation of Geometric and Electronic Structures. <i>CCS Chemistry</i> , 2022, 4, 1758-1769.	4.6	7
2	Facile Synthesis and High-Value Utilization of Ammonia. <i>Chinese Journal of Chemistry</i> , 2022, 40, 953-964.	2.6	14
3	Studies of a Highly Active Cobalt Atomic Cluster Catalyst for Ammonia Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1951-1960.	3.2	11
4	Integrating Dissociative and Associative Routes for Efficient Ammonia Synthesis over a TiCN-Promoted Ru-Based Catalyst. <i>ACS Catalysis</i> , 2022, 12, 2651-2660.	5.5	18
5	Challenges and Opportunities of Ru-Based Catalysts toward the Synthesis and Utilization of Ammonia. <i>ACS Catalysis</i> , 2022, 12, 3938-3954.	5.5	67
6	Enhanced ammonia synthesis activity of carbon-supported Mo catalyst by Mo carburization. <i>Chemical Communications</i> , 2022, 58, 7785-7788.	2.2	4
7	Essential Role of Ru <sup>+</sup> -Anion Interaction in Ru-Based Ammonia Synthesis Catalysts. <i>ACS Catalysis</i> , 2022, 12, 7633-7642.	5.5	13
8	Highly efficient ammonia synthesis at low temperature over a Ru <sup>+</sup> -Co catalyst with dual atomically dispersed active centers. <i>Chemical Science</i> , 2021, 12, 7125-7137.	3.7	35
9	N-Induced Electron Transfer Effect on Low-Temperature Activation of Nitrogen for Ammonia Synthesis over Co-Based Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1529-1539.	3.2	11
10	Construction of a Pd(PdO)/Co <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> core-shell structure for efficient low-temperature methane combustion. <i>Nanoscale</i> , 2021, 13, 5026-5032.	2.8	14
11	Inducing the Metal-Support Interaction and Enhancing the Ammonia Synthesis Activity of Ceria-Supported Ruthenium Catalyst via N <sub>2</sub> H <sub>4</sub> Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4885-4893.	3.2	24
12	Construction of Spatial Effect from Atomically Dispersed Co Anchoring on Subnanometer Ru Cluster for Enhanced N <sub>2</sub> -to-NH <sub>3</sub> Conversion. <i>ACS Catalysis</i> , 2021, 11, 4430-4440.	5.5	28
13	Sacrificial Sucrose Strategy Achieved Enhancement of Ammonia Synthesis Activity over a Ceria-Supported Ru Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8962-8969.	3.2	21
14	Enhanced Ammonia Synthesis Activity of Ceria-Supported Ruthenium Catalysts Induced by CO Activation. <i>ACS Catalysis</i> , 2021, 11, 1331-1339.	5.5	61
15	Atomically Dispersed Ru Catalyst for Low-Temperature Nitrogen Activation to Ammonia via an Associative Mechanism. <i>ACS Catalysis</i> , 2020, 10, 9504-9514.	5.5	47
16	Investigation on Deactivation of K <sup>+</sup> -Promoted Ru Catalyst for Ammonia Synthesis by CO Formation. <i>ChemistrySelect</i> , 2020, 5, 6639-6645.	0.7	6
17	Geometric and electronic modification of the active Fe <sup>3+</sup> sites of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> for highly efficient toluene combustion. <i>Journal of Hazardous Materials</i> , 2020, 398, 123233.	6.5	15
18	Controllable P Doping of the LaCo <sub>3</sub> Catalyst for Efficient Propane Oxidation: Optimized Surface Co Distribution and Enhanced Oxygen Vacancies. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 23789-23799.	4.0	61

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19	Insight into dynamic and steady-state active sites for nitrogen activation to ammonia by cobalt-based catalyst. <i>Nature Communications</i> , 2020, 11, 653.	5.8	72
20	Molecular-level understanding of reaction path optimization as a function of shape concerning the metal-support interaction effect of Co/CeO <sub>2</sub> on water-gas shift catalysis. <i>Catalysis Science and Technology</i> , 2019, 9, 4928-4937.	2.1	19
21	Structural Evolution of Active Entities on Co <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> Catalyst during Water Gas Shift Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 17692-17698.	1.8	6
22	Efficient ammonia synthesis over a core-shell Ru/CeO <sub>2</sub> catalyst with a tunable CeO <sub>2</sub> size: DFT calculations and XAS spectroscopy studies. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 396-406.	3.0	23
23	Strong metal-support interactions of Co-based catalysts facilitated by dopamine for highly efficient ammonia synthesis: <i>in situ</i> XPS and XAFS spectroscopy coupled with TPD studies. <i>Chemical Communications</i> , 2019, 55, 474-477.	2.2	36
24	Effects of Using Carbon-Coated Alumina as Support for Ba-Promoted Ru Catalyst in Ammonia Synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 10285-10295.	1.8	21
25	Three-dimensional ordered macroporous Ru-substituted BaZrO <sub>3</sub> perovskites: active catalysts for ammonia synthesis under mild conditions. <i>Catalysis Science and Technology</i> , 2019, 9, 6217-6221.	2.1	2
26	Ammonia Synthesis Activity of Alumina-Supported Ruthenium Catalyst Enhanced by Alumina Phase Transformation. <i>ACS Catalysis</i> , 2019, 9, 1635-1644.	5.5	96
27	Insights into the high performance of Mn-Co oxides derived from metal-organic frameworks for total toluene oxidation. <i>Journal of Hazardous Materials</i> , 2018, 349, 119-127.	6.5	191
28	Facile fabrication of shape-controlled Co <sub>x</sub> Mn <sub>y</sub> O <sub>z</sub> nanocatalysts for benzene oxidation at low temperatures. <i>Chemical Communications</i> , 2018, 54, 2154-2157.	2.2	37
29	Sacrificial Adsorbate Strategy Achieved Strong Metal-Support Interaction of Stable Cu Nanocatalysts. <i>ACS Applied Energy Materials</i> , 2018, 1, 1408-1414.	2.5	27
30	Influence of Ru Substitution on the Properties of LaCoO <sub>3</sub> Catalysts for Ammonia Synthesis: XAFS and XPS Studies. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 17375-17383.	1.8	40
31	Morphology Effect of Ceria on the Catalytic Performances of Ru/CeO <sub>2</sub> Catalysts for Ammonia Synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 9127-9135.	1.8	105
32	Synthesis of Co-Mn oxides with double-shelled nanocages for low-temperature toluene combustion. <i>Catalysis Science and Technology</i> , 2018, 8, 4494-4502.	2.1	58
33	Facile fabrication of hollow tubular mixed oxides for selective catalytic reduction of NO <sub>x</sub> at low temperature: a combined experimental and theoretical study. <i>Chemical Communications</i> , 2017, 53, 967-970.	2.2	9
34	Promoting Effects of Lanthan on Ru/AC for Ammonia Synthesis: Tuning Catalytic Efficiency and Stability Simultaneously. <i>ChemistrySelect</i> , 2017, 2, 6040-6046.	0.7	9
35	Facile synthesis of Mn-Fe/CeO <sub>2</sub> nanotubes by gradient electrospinning and their excellent catalytic performance for propane and methane oxidation. <i>Dalton Transactions</i> , 2017, 46, 16967-16972.	1.6	22
36	The role of Cu species in electrospun CuO-CeO <sub>2</sub> nanofibers for total benzene oxidation. <i>New Journal of Chemistry</i> , 2015, 39, 1001-1005.	1.4	23

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37	Studies on SO <sub>2</sub> Tolerance and Regeneration over Perovskite-Type LaCoO <sub>3</sub> in NO Storage and Reduction. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13743-13751.	1.5	29