

Xiaofeng Feng

List of Publications by Year in descending order

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27
papers

3,806
citations

448610

19
h-index

620720

26
g-index

28
all docs

28
docs citations

28
times ranked

7154
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond catalytic materials: Controlling local gas/liquid environment in the catalyst layer for CO ₂ electrolysis. <i>Journal of Energy Chemistry</i> , 2022, 66, 45-51.	7.1	21
2	Enhancing carbon dioxide gas-diffusion electrolysis by creating a hydrophobic catalyst microenvironment. <i>Nature Communications</i> , 2021, 12, 136.	5.8	288
3	Tuning the Microenvironment in Gas-Diffusion Electrodes Enables High-Rate CO ₂ Electrolysis to Formate. <i>ACS Energy Letters</i> , 2021, 6, 1694-1702.	8.8	101
4	Using a Nitrophenol Cocktail Screen to Improve Catalyst Downselection. <i>ChemPhysChem</i> , 2020, 21, 1627-1631.	1.0	6
5	Understanding the Electrocatalytic Interface for Ambient Ammonia Synthesis. <i>ACS Energy Letters</i> , 2020, 5, 430-436.	8.8	127
6	A Broader Scope Analysis of the Catalytic Reduction of Nitrophenols and Azo Dyes with Noble Metal Nanoparticles. <i>ChemCatChem</i> , 2019, 11, 2590-2595.	1.8	32
7	(Invited) Understanding Metal-Based Catalysts for Electrochemical Ammonia Synthesis. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
8	Scanning Tunneling Microscopy Study of the Structure and Interaction between Carbon Monoxide and Hydrogen on the Ru(0001) Surface. <i>Journal of Physical Chemistry B</i> , 2018, 122, 649-656.	1.2	6
9	A bifunctional catalyst for efficient dehydrogenation and electro-oxidation of hydrazine. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18050-18056.	5.2	20
10	Ambient ammonia synthesis via palladium-catalyzed electrohydrogenation of dinitrogen at low overpotential. <i>Nature Communications</i> , 2018, 9, 1795.	5.8	620
11	Ambient Electrochemical Ammonia Synthesis with High Selectivity on Fe/Fe Oxide Catalyst. <i>ACS Catalysis</i> , 2018, 8, 9312-9319.	5.5	248
12	Molecular catalysis at polarized interfaces created by ferroelectric BaTiO ₃ . <i>Chemical Science</i> , 2017, 8, 2790-2794.	3.7	20
13	Grain Boundary Effect in Electroreduction Catalysis for Renewable Energy Conversion. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
14	A Direct Grain-Boundary-Activity Correlation for CO Electroreduction on Cu Nanoparticles. <i>ACS Central Science</i> , 2016, 2, 169-174.	5.3	362
15	An Atomic-Scale View of the Nucleation and Growth of Graphene Islands on Pt Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7124-7129.	1.5	21
16	Dehydrogenation of Ammonia on Ru(0001) by Electronic Excitations. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10520-10525.	1.5	3
17	Orientation-Dependent Interaction between CO ₂ Molecules Adsorbed on Ru(0001). <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1780-1784.	2.1	10
18	Grain-Boundary-Dependent CO ₂ Electroreduction Activity. <i>Journal of the American Chemical Society</i> , 2015, 137, 4606-4609.	6.6	583

#	ARTICLE	IF	CITATIONS
19	Superlubric Sliding of Graphene Nanoflakes on Graphene. ACS Nano, 2013, 7, 1718-1724.	7.3	370
20	Electronic screening in stacked graphene flakes revealed by scanning tunneling microscopy. Applied Physics Letters, 2013, 102, 053116.	1.5	6
21	Water Splits Epitaxial Graphene and Intercalates. Journal of the American Chemical Society, 2012, 134, 5662-5668.	6.6	186
22	In Situ TEM observation of the gasification and growth of carbon nanotubes using iron catalysts. Nano Research, 2011, 4, 767-779.	5.8	91
23	Thermal Analysis Study of the Growth Kinetics of Carbon Nanotubes and Epitaxial Graphene Layers on Them. Journal of Physical Chemistry C, 2009, 113, 9623-9631.	1.5	32
24	Controlled Fabrication of High-Quality Carbon Nanoscrolls from Monolayer Graphene. Nano Letters, 2009, 9, 2565-2570.	4.5	312
25	Controlled Growth of Super-Aligned Carbon Nanotube Arrays for Spinning Continuous Unidirectional Sheets with Tunable Physical Properties. Nano Letters, 2008, 8, 700-705.	4.5	259
26	Barium-functionalized multiwalled carbon nanotube yarns as low-work-function thermionic cathodes. Applied Physics Letters, 2008, 92, .	1.5	28
27	Comparative studies of multiwalled carbon nanotube sheets before and after shrinking. Physical Review B, 2007, 76, .	1.1	52