Xiaofeng Feng

List of Publications by Year
in descending order

27	3,806	20	26
papers	citations	h-index	g-index
		361413	552781

28	28	28	6064
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Beyond catalytic materials: Controlling local gas/liquid environment in the catalyst layer for CO2 electrolysis. Journal of Energy Chemistry, 2022, 66, 45-51.	12.9	21
2	Enhancing carbon dioxide gas-diffusion electrolysis by creating a hydrophobic catalyst microenvironment. Nature Communications, 2021, 12, 136.	12.8	288
3	Tuning the Microenvironment in Gas-Diffusion Electrodes Enables High-Rate CO₂ Electrolysis to Formate. ACS Energy Letters, 2021, 6, 1694-1702.	17.4	101
4	Using a Nitrophenol Cocktail Screen to Improve Catalyst Downâ€selection. ChemPhysChem, 2020, 21, 1627-1631.	2.1	6
5	Understanding the Electrocatalytic Interface for Ambient Ammonia Synthesis. ACS Energy Letters, 2020, 5, 430-436.	17.4	127
6	A Broaderâ€scope Analysis of the Catalytic Reduction of Nitrophenols and Azo Dyes with Noble Metal Nanoparticles. ChemCatChem, 2019, 11, 2590-2595.	3.7	32
7	(Invited) Understanding Metal-Based Catalysts for Electrochemical Ammonia Synthesis. ECS Meeting Abstracts, 2019, , .	0.0	0
8	Scanning Tunneling Microscopy Study of the Structure and Interaction between Carbon Monoxide and Hydrogen on the Ru(0001) Surface. Journal of Physical Chemistry B, 2018, 122, 649-656.	2.6	6
9	A bifunctional catalyst for efficient dehydrogenation and electro-oxidation of hydrazine. Journal of Materials Chemistry A, 2018, 6, 18050-18056.	10.3	20
10	Ambient ammonia synthesis via palladium-catalyzed electrohydrogenation of dinitrogen at low overpotential. Nature Communications, 2018, 9, 1795.	12.8	620
11	Ambient Electrochemical Ammonia Synthesis with High Selectivity on Fe/Fe Oxide Catalyst. ACS Catalysis, 2018, 8, 9312-9319.	11.2	248
12	Molecular catalysis at polarized interfaces created by ferroelectric BaTiO₃. Chemical Science, 2017, 8, 2790-2794.	7.4	20
13	Grain Boundary Effect in Electroreduction Catalysis for Renewable Energy Conversion. ECS Meeting Abstracts, 2017, , .	0.0	0
14	A Direct Grain-Boundary-Activity Correlation for CO Electroreduction on Cu Nanoparticles. ACS Central Science, 2016, 2, 169-174.	11.3	362
15	An Atomic-Scale View of the Nucleation and Growth of Graphene Islands on Pt Surfaces. Journal of Physical Chemistry C, 2015, 119, 7124-7129.	3.1	21
16	Dehydrogenation of Ammonia on Ru(0001) by Electronic Excitations. Journal of Physical Chemistry C, 2015, 119, 10520-10525.	3.1	3
17	Orientation-Dependent Interaction between CO2 Molecules Adsorbed on Ru(0001). Journal of Physical Chemistry Letters, 2015, 6, 1780-1784.	4.6	10
18	Grain-Boundary-Dependent CO₂ Electroreduction Activity. Journal of the American Chemical Society, 2015, 137, 4606-4609.	13.7	583

#	Article	IF	Citations
19	Superlubric Sliding of Graphene Nanoflakes on Graphene. ACS Nano, 2013, 7, 1718-1724.	14.6	370
20	Electronic screening in stacked graphene flakes revealed by scanning tunneling microscopy. Applied Physics Letters, 2013, 102, 053116.	3.3	6
21	Water Splits Epitaxial Graphene and Intercalates. Journal of the American Chemical Society, 2012, 134, 5662-5668.	13.7	186
22	In Situ TEM observation of the gasification and growth of carbon nanotubes using iron catalysts. Nano Research, 2011, 4, 767-779.	10.4	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.	3.1	32
24	Controlled Fabrication of High-Quality Carbon Nanoscrolls from Monolayer Graphene. Nano Letters, 2009, 9, 2565-2570.	9.1	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.	9.1	259
26	Barium-functionalized multiwalled carbon nanotube yarns as low-work-function thermionic cathodes. Applied Physics Letters, 2008, 92, .	3.3	28
27	Comparative studies of multiwalled carbon nanotube sheets before and after shrinking. Physical Review B, 2007, 76, .	3.2	52