

Wei Xi

List of Publications by Year in descending order

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39
papers

2,558
citations

430874

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36
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39
all docs

39
docs citations

39
times ranked

3737
citing authors

#	ARTICLE	IF	CITATIONS
1	Non defect-stabilized thermally stable single-atom catalyst. Nature Communications, 2019, 10, 234.	12.8	452
2	Atomically dispersed nickel as coke-resistant active sites for methane dry reforming. Nature Communications, 2019, 10, 5181.	12.8	398
3	Strong Metal-Support Interactions between Pt Single Atoms and TiO ₂ . Angewandte Chemie - International Edition, 2020, 59, 11824-11829.	13.8	309
4	Strong metal-support interaction promoted scalable production of thermally stable single-atom catalysts. Nature Communications, 2020, 11, 1263.	12.8	198
5	Upraising the O 2p Orbital by Integrating Ni with MoO ₂ for Accelerating Hydrogen Evolution Kinetics. ACS Catalysis, 2019, 9, 2275-2285.	11.2	165
6	Atomic Insights for Optimum and Excess Doping in Photocatalysis: A Case Study of Few-Layer Cu ₂ ZnIn ₂ S ₄ . Advanced Functional Materials, 2019, 29, 1807013.	14.9	165
7	Nanoporous Zn-doped Co ₃ O ₄ sheets with single-unit-cell-wide lateral surfaces for efficient oxygen evolution and water splitting. Nano Energy, 2018, 44, 371-377.	16.0	138
8	Rechargeable Al-CO ₂ Batteries for Reversible Utilization of CO ₂ . Advanced Materials, 2018, 30, e1801152.	21.0	96
9	Self-Supported Hierarchical Nanostructured NiFe-LDH and Cu ₃ P Weaving Mesh Electrodes for Efficient Water Splitting. ACS Sustainable Chemistry and Engineering, 2018, 6, 380-388.	6.7	82
10	A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. Angewandte Chemie - International Edition, 2019, 58, 18388-18393.	13.8	69
11	Nanoporous Cu@Cu ₂ O hybrid arrays enable photo-assisted supercapacitor with enhanced capacities. Journal of Materials Chemistry A, 2019, 7, 15691-15697.	10.3	66
12	Dynamic co-catalysis of Au single atoms and nanoporous Au for methane pyrolysis. Nature Communications, 2020, 11, 1919.	12.8	65
13	Atomic origins of high electrochemical CO ₂ reduction efficiency on nanoporous gold. Nanoscale, 2018, 10, 8372-8376.	5.6	46
14	Stepped surface-rich copper fiber felt as an efficient electrocatalyst for the CO ₂ RR to formate. Journal of Materials Chemistry A, 2018, 6, 18960-18966.	10.3	46
15	Strong Metal-Support Interactions between Pt Single Atoms and TiO ₂ . Angewandte Chemie, 2020, 132, 11922-11927.	2.0	46
16	Ultrathin Ag Nanowires Electrode for Electrochemical Syngas Production from Carbon Dioxide. ACS Sustainable Chemistry and Engineering, 2018, 6, 7687-7694.	6.7	44
17	Bimetal metal-organic frameworks derived Co _{0.4} Fe _{0.28} P and Co _{0.37} Fe _{0.26} S nanocubes for enhanced oxygen evolution reaction. Electrochimica Acta, 2018, 263, 576-584.	5.2	35
18	Maximizing the utility of single atom electrocatalysts on a 3D graphene nanomesh. Journal of Materials Chemistry A, 2019, 7, 15575-15579.	10.3	34

#	ARTICLE	IF	CITATIONS
19	A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. <i>Angewandte Chemie</i> , 2019, 131, 18559-18564.	2.0	20
20	Synthesis of ultrathin Co ₂ AlO ₄ nanosheets with oxygen vacancies for enhanced electrocatalytic oxygen evolution. <i>Science China Materials</i> , 2020, 63, 91-99.	6.3	16
21	Simple physical preparation of single copper atoms on amorphous carbon <i>via</i> Coulomb explosion. <i>Nanoscale</i> , 2019, 11, 7595-7599.	5.6	9
22	Formed kink band and long-period stacking structure relaxed stress induced by {10 ^{−12} } twin in deformed magnesium alloy. <i>Materials Characterization</i> , 2015, 103, 170-174.	4.4	8
23	Atomic-scale selectivity of hydrogen for storage sites in Pd nanoparticles at atmospheric pressure. <i>Nanoscale</i> , 2019, 11, 10198-10202.	5.6	7
24	Exponential surface melting of Cu nanoparticles observed by in-situ TEM. <i>Materials Characterization</i> , 2018, 145, 246-249.	4.4	6
25	Coalescence and shape oscillation of Au nanoparticles in CO ₂ hydrogenation to methanol. <i>Nanoscale</i> , 2021, 13, 18218-18225.	5.6	6
26	High-loading Pt Single-Atom Catalyst on CeO ₂ -Modified Diatomite Support. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2622-2625.	3.3	6
27	Reduction of electrical conductivity in Ag nanowires induced by low-energy electron beam irradiation. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 124, 89-93.	4.0	5
28	Monolayer goldene intercalated in graphene layers. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	4
29	Accelerated Hydrogen Spillover Enhances Anode Performance of Tensile Strained Pd-Based Fuel Cell Electrocatalysts. <i>Small Methods</i> , 2022, 6, e2101328.	8.6	4
30	Promotion effect of secondary phase particles on grain refinement of deformed Mg-Y-Nd-Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 628, 247-251.	5.6	3
31	Intermediate Structures of Nucleation and Growth during Solidification of CuO Constrained by Graphene. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902047.	3.7	3
32	Performance enhanced high-nickel lithium metal batteries through stable cathode and anode electrolyte interfaces. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2875-2883.	4.9	2
33	Strain evolution in nanoporous gold during catalytic CH ₄ pyrolysis by in situ gas-phase transmission electron microscopy. <i>Scripta Materialia</i> , 2021, 204, 114146.	5.2	2
34	Frontispiece: A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	13.8	1
35	Visualization of Shallow Groove Expansion of Au(111) Facet under Methane Pyrolysis. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001245.	3.7	1
36	Anomalous detwinning in constrained Cu nanoparticles. <i>Nanoscale</i> , 2020, 12, 14831-14837.	5.6	1

#	ARTICLE	IF	CITATIONS
37	Multilayer-by-multilayer surface melting of Cu(200). Physical Review B, 2018, 98, .	3.2	0
38	Frontispiz: A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. Angewandte Chemie, 2019, 131, .	2.0	0
39	Complete surface reconstruction of nanoporous gold during CH ₄ pyrolysis. Nanoscale, 0, , .	5.6	0