

Erhong Song

List of Publications by Year in descending order

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42
papers

1,886
citations

304602

22
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302012

39
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43
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docs citations

43
times ranked

2567
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering Metallic Heterostructure Based on Ni ₃ N and 2M ^o MoS ₂ for Alkaline Water Electrolysis with Industry-Compatible Current Density and Stability. <i>Advanced Materials</i> , 2022, 34, e2108505.	11.1	104
2	Dynamic coordination transformation of active sites in single-atom MoS ₂ catalysts for boosted oxygen evolution catalysis. <i>Energy and Environmental Science</i> , 2022, 15, 2071-2083.	15.6	33
3	Nano gold coupled black titania composites with enhanced surface plasma properties for efficient photocatalytic alkyne reduction. <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121222.	10.8	11
4	Partial ^o Single ^o Atom, Partial ^o Nanoparticle Composites Enhance Water Dissociation for Hydrogen Evolution. <i>Advanced Science</i> , 2021, 8, 2001881.	5.6	85
5	Designing fluorographene with FeN ₄ and CoN ₄ moieties for oxygen electrode reaction: A density functional theory study. <i>Applied Surface Science</i> , 2021, 537, 147846.	3.1	23
6	Identifying Metallic Transition-Metal Dichalcogenides for Hydrogen Evolution through Multilevel High-Throughput Calculations and Machine Learning. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2102-2111.	2.1	43
7	Mo decoration on graphene edge for nitrogen fixation: A computational investigation. <i>Applied Surface Science</i> , 2021, 568, 150867.	3.1	11
8	Assembling organic ^o inorganic building blocks for high-capacity electrode design. <i>Materials Horizons</i> , 2021, 8, 1825-1834.	6.4	1
9	DFT Calculation of NO Adsorption on Cr Doped Graphene. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, 36, 1047.	0.6	2
10	Optimized electron occupancy of solid-solution transition metals for suppressing the oxygen evolution of Li ₂ MnO ₃ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 9337-9346.	5.2	7
11	DFT Calculation of NO Adsorption on Cr Doped Graphene. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, , 78.	0.6	0
12	Manipulation on active electronic states of metastable phase ^o 2-NiMoO ₄ for large current density hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 5960.	5.8	86
13	Bond Electronegativity as Hydrogen Evolution Reaction Catalyst Descriptor for Transition Metal (TM) Tj ETQq1 1 0.784314 rgBT /Ove	3.2	45
14	Design of Effective Graphene with the TM/O Moiety for the Oxygen Electrode Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 260-267.	2.5	24
15	Stacking faults modulation for scattering optimization in GeTe-based thermoelectric materials. <i>Nano Energy</i> , 2020, 68, 104347.	8.2	77
16	Dual ^o Metal Interbonding as the Chemical Facilitator for Single ^o Atom Dispersions. <i>Advanced Materials</i> , 2020, 32, e2003484.	11.1	90
17	Theoretical Study of Fast Calculation of Damping Loss Factors for Rubber Polymers. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6025-6031.	2.1	7
18	The FeN ₃ Doped Fluorographene for N ₂ Fixation: A Density Functional Theory Study. <i>ChemistrySelect</i> , 2020, 5, 9370-9376.	0.7	3

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19	Liquid-Phase Assisted Engineering of Highly Strong SiC Composite Reinforced by Multiwalled Carbon Nanotubes. <i>Advanced Science</i> , 2020, 7, 2002225.	5.6	11
20	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. <i>Nature Communications</i> , 2020, 11, 2253.	5.8	112
21	Transition metal-doped 1 \pm -borophene as potential oxygen and hydrogen evolution electrocatalyst: A density functional theory study. <i>Catalysis Communications</i> , 2020, 144, 106090.	1.6	20
22	Reducing the charge overpotential of Li O_2 batteries through band-alignment cathode design. <i>Energy and Environmental Science</i> , 2020, 13, 2540-2548.	15.6	30
23	Predicting Transition-Metal/Benzenehexathiol Systems as Effective Cathodes of Li S batteries with Conjugate Conductivity and Synergetic Discharge. <i>ChemistrySelect</i> , 2020, 5, 7783-7788.	0.7	5
24	The VN $_3$ embedded graphane with the improved selectivity for nitrogen fixation. <i>Applied Surface Science</i> , 2020, 513, 145855.	3.1	23
25	Cooperative Effect of Multiple Active Sites and Hierarchical Chemical Bonds in Metal-Organic Compounds for Improving Cathode Performance. <i>ACS Energy Letters</i> , 2020, 5, 477-485.	8.8	10
26	Feasibility of N $_2$ Reduction on the V Anchored 1T MoS_2 Monolayer: A Density Functional Theory Study. <i>ChemPhysChem</i> , 2020, 21, 1235-1242.	1.0	14
27	Recent progress in theoretical and computational investigations of structural stability and activity of single-atom electrocatalysts. <i>Progress in Natural Science: Materials International</i> , 2019, 29, 256-264.	1.8	27
28	High strain rate compressive response of the Cf/SiC composite. <i>Ceramics International</i> , 2019, 45, 6812-6818.	2.3	12
29	In-situ liquid cell transmission electron microscopy investigation on oriented attachment of gold nanoparticles. <i>Nature Communications</i> , 2018, 9, 421.	5.8	171
30	Adsorption-energy-based activity descriptors for electrocatalysts in energy storage applications. <i>National Science Review</i> , 2018, 5, 327-341.	4.6	129
31	Auto-optimizing Hydrogen Evolution Catalytic Activity of ReS $_2$ through Intrinsic Charge Engineering. <i>ACS Nano</i> , 2018, 12, 4486-4493.	7.3	111
32	Ultrafine WC nanoparticles anchored on co-encased, N-doped carbon nanotubes for efficient hydrogen evolution. <i>Energy Storage Materials</i> , 2017, 6, 104-111.	9.5	48
33	Surface synergism of Pd/H $_2$ Ti $_3$ O $_7$ composite nanowires for catalytic and photocatalytic hydrogen production from ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3428-3435.	3.8	29
34	Revealing the Active Intermediates in the Oxidation of Formic Acid on Au and Pt(111). <i>Chemistry - A European Journal</i> , 2014, 20, 11005-11012.	1.7	28
35	Tuning electronic and magnetic properties of partially hydrogenated graphene by biaxial tensile strain: a computational study. <i>Nanoscale Research Letters</i> , 2014, 9, 491.	3.1	2
36	External electric field induced hydrogen storage/release on calcium-decorated single-layer and bilayer silicene. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23985-23992.	1.3	47

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37	Density functional theory calculations of adsorption of hydrogen fluoride on titanium embedded graphene. <i>Thin Solid Films</i> , 2013, 546, 124-127.	0.8	12
38	Titanium Decorated Graphene as CO Detection Sensor. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 198-203.	0.4	10
39	External Electric Field Catalyzed N ₂ O Decomposition on Mn-Embedded Graphene. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20342-20348.	1.5	44
40	CO Catalytic Oxidation on Copper-Embedded Graphene. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3678-3683.	1.5	337
41	Critical Role of Interfacial Charge Transfer in Reducing Charge Potential of Li-O ₂ Battery. <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	1
42	Effective Descriptor for Nitrogen Reduction on Atomic Catalysts. <i>Catalysis Letters</i> , 0, , 1.	1.4	1