Erhong Song

List of Publications by Year
in descending order

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42 papers	1,886 citations	304602 22 h-index	302012 39 g-index
43 all docs	43 docs citations	43 times ranked	2567 citing authors

#	Article	IF	Citations
1	CO Catalytic Oxidation on Copper-Embedded Graphene. Journal of Physical Chemistry C, 2011, 115, 3678-3683.	1.5	337
2	In-situ liquid cell transmission electron microscopy investigation on oriented attachment of gold nanoparticles. Nature Communications, 2018, 9, 421.	5.8	171
3	Adsorption-energy-based activity descriptors for electrocatalysts in energy storage applications. National Science Review, 2018, 5, 327-341.	4.6	129
4	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. Nature Communications, 2020, 11, 2253.	5.8	112
5	Auto-optimizing Hydrogen Evolution Catalytic Activity of ReS₂ through Intrinsic Charge Engineering. ACS Nano, 2018, 12, 4486-4493.	7.3	111
6	Engineering Metallic Heterostructure Based on Ni₃N and 2Mâ€MoS₂ for Alkaline Water Electrolysis with Industryâ€Compatible Current Density and Stability. Advanced Materials, 2022, 34, e2108505.	11.1	104
7	Dualâ€Metal Interbonding as the Chemical Facilitator for Singleâ€Atom Dispersions. Advanced Materials, 2020, 32, e2003484.	11.1	90
8	Manipulation on active electronic states of metastable phase Î²-NiMoO4 for large current density hydrogen evolution. Nature Communications, 2021, 12, 5960.	5.8	86
9	Partialâ€Singleâ€Atom, Partialâ€Nanoparticle Composites Enhance Water Dissociation for Hydrogen Evolution. Advanced Science, 2021, 8, 2001881.	5.6	85
10	Stacking faults modulation for scattering optimization in GeTe-based thermoelectric materials. Nano Energy, 2020, 68, 104347.	8.2	77
11	Ultrafine WC nanoparticles anchored on co-encased, N-doped carbon nanotubes for efficient hydrogen evolution. Energy Storage Materials, 2017, 6, 104-111.	9.5	48
12	External electric field induced hydrogen storage/release on calcium-decorated single-layer and bilayer silicene. Physical Chemistry Chemical Physics, 2014, 16, 23985-23992.	1.3	47
13	Bond Electronegativity as Hydrogen Evolution Reaction Catalyst Descriptor for Transition Metal (TM) Tj ETQq1 1 0.784314 rgBT /Ove	3.2	45
14	External Electric Field Catalyzed N₂O Decomposition on Mn-Embedded Graphene. Journal of Physical Chemistry C, 2012, 116, 20342-20348.	1.5	44
15	Identifying Metallic Transition-Metal Dichalcogenides for Hydrogen Evolution through Multilevel High-Throughput Calculations and Machine Learning. Journal of Physical Chemistry Letters, 2021, 12, 2102-2111.	2.1	43
16	Dynamic coordination transformation of active sites in single-atom MoS₂ catalysts for boosted oxygen evolution catalysis. Energy and Environmental Science, 2022, 15, 2071-2083.	15.6	33
17	Reducing the charge overpotential of Liâ€“O₂ batteries through band-alignment cathode design. Energy and Environmental Science, 2020, 13, 2540-2548.	15.6	30
18	Surface synergism of Pd/H 2 Ti 3 O 7 composite nanowires for catalytic and photocatalytic hydrogen production from ammonia borane. International Journal of Hydrogen Energy, 2016, 41, 3428-3435.	3.8	29

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19	Revealing the Active Intermediates in the Oxidation of Formic Acid on Au and Pt(111). Chemistry - A European Journal, 2014, 20, 11005-11012.	1.7	28
20	Recent progress in theoretical and computational investigations of structural stability and activity of single-atom electrocatalysts. Progress in Natural Science: Materials International, 2019, 29, 256-264.	1.8	27
21	Design of Effective Graphene with the TM/O Moiety for the Oxygen Electrode Reaction. ACS Applied Energy Materials, 2020, 3, 260-267.	2.5	24
22	The VN3 embedded graphane with the improved selectivity for nitrogen fixation. Applied Surface Science, 2020, 513, 145855.	3.1	23
23	Designing fluorographene with FeN4 and CoN4 moieties for oxygen electrode reaction: A density functional theory study. Applied Surface Science, 2021, 537, 147846.	3.1	23
24	Transition metal-doped Î±-borophene as potential oxygen and hydrogen evolution electrocatalyst: A density functional theory study. Catalysis Communications, 2020, 144, 106090.	1.6	20
25	Feasibility of N₂ Reduction on the V Anchored 1Tâ˜MoS₂ Monolayer: A Density Functional Theory Study. ChemPhysChem, 2020, 21, 1235-1242.	1.0	14
26	Density functional theory calculations of adsorption of hydrogen fluoride on titanium embedded graphene. Thin Solid Films, 2013, 546, 124-127.	0.8	12
27	High strain rate compressive response of the Cf/SiC composite. Ceramics International, 2019, 45, 6812-6818.	2.3	12
28	Liquidâ€Phase Assisted Engineering of Highly Strong SiC Composite Reinforced by Multiwalled Carbon Nanotubes. Advanced Science, 2020, 7, 2002225.	5.6	11
29	Mo decoration on graphene edge for nitrogen fixation: A computational investigation. Applied Surface Science, 2021, 568, 150867.	3.1	11
30	Nano gold coupled black titania composites with enhanced surface plasma properties for efficient photocatalytic alkyne reduction. Applied Catalysis B: Environmental, 2022, 309, 121222.	10.8	11
31	Titanium Decorated Graphene as CO Detection Sensor. Nanoscience and Nanotechnology Letters, 2013, 5, 198-203.	0.4	10
32	Cooperative Effect of Multiple Active Sites and Hierarchical Chemical Bonds in Metalâ€“Organic Compounds for Improving Cathode Performance. ACS Energy Letters, 2020, 5, 477-485.	8.8	10
33	Theoretical Study of Fast Calculation of Damping Loss Factors for Rubber Polymers. Journal of Physical Chemistry Letters, 2020, 11, 6025-6031.	2.1	7
34	Optimized electron occupancy of solid-solution transition metals for suppressing the oxygen evolution of Li₂MnO₃. Journal of Materials Chemistry A, 2021, 9, 9337-9346.	5.2	7
35	Predicting Transitionâ€Metal/Benzenehexathiol Systems as Effective Cathodes of Liâ€S batteries with Conjugate Conductivity and Synergetic Discharge. ChemistrySelect, 2020, 5, 7783-7788.	0.7	5
36	The FeN₃ Doped Fluorographene for N₂ Fixation: A Density Functional Theory Study. ChemistrySelect, 2020, 5, 9370-9376.	0.7	3

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37	Tuning electronic and magnetic properties of partially hydrogenated graphene by biaxial tensile strain: a computational study. Nanoscale Research Letters, 2014, 9, 491.	3.1	2
38	DFT Calculation of NO Adsorption on Cr Doped Graphene. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 1047.	0.6	2
39	Assembling organicâ€“inorganic building blocks for high-capacity electrode design. Materials Horizons, 2021, 8, 1825-1834.	6.4	1
40	Critical Role of Interfacial Charge Transfer in Reducing Charge Potential of Liâ€“O2 Battery. Journal of Physical Chemistry C, 0, , .	1.5	1
41	Effective Descriptor for Nitrogen Reduction on Atomic Catalysts. Catalysis Letters, 0, , 1.	1.4	1
42	DFT Calculationof NOAdsorption on CrDoped Graphene. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, , 78.	0.6	0