

Anmin Liu

List of Publications by Year in descending order

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109
papers

3,666
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3930
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in MXene-Based Materials for Metal-Sulfur and Metal-Air Batteries: Potential High-Performance Electrodes. <i>Electrochemical Energy Reviews</i> , 2022, 5, 112-144.	13.1	99
2	Sulfur contributes to stable and efficient carbon-based perovskite solar cells. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 54-59.	5.0	2
3	Double shelled hollow CoS ₂ @MoS ₂ @NiS ₂ polyhedron as advanced trifunctional electrocatalyst for zinc-air battery and self-powered overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 653-662.	5.0	44
4	MXenes and their composites for lithium- and sodium-ion battery applications. , 2022, , 307-341.		0
5	DFT study of X-site ion substitution doping of Cs ₂ PtX ₆ on its structural and electronic properties. <i>International Journal of Energy Research</i> , 2022, 46, 8471-8479.	2.2	11
6	Theoretical study of the solubility of Pt salts in ionic liquids and deep eutectic solvents. <i>Ionics</i> , 2022, 28, 1985-1997.	1.2	0
7	Ru and Fe Alloying on a Two-Dimensional MXene Support for Enhanced Electrochemical Synthesis of Ammonia. <i>ChemCatChem</i> , 2022, 14, .	1.8	10
8	Template synthesis of molybdenum-doped NiFe-layered double hydroxide nanotube as high efficiency electrocatalyst for oxygen evolution reaction. <i>Materials Today Sustainability</i> , 2022, 17, 100101.	1.9	8
9	Two-Dimensional MXene Supported Bismuth for Efficient Electrocatalytic Nitrogen Reduction. <i>ChemCatChem</i> , 2022, 14, .	1.8	10
10	Synthesis of one-dimensional vanadium-doped CoS/Co ₉ S ₈ heterojunctions as bifunctional electrocatalysts for zinc-air battery. <i>Materials Today Energy</i> , 2022, 25, 100968.	2.5	8
11	Highly efficient and stable perovskite solar cells induced by novel bulk organosulfur ammonium. <i>Materials Today Energy</i> , 2022, 26, 101004.	2.5	7
12	Organic/inorganic hybrid quaternary ionogel electrolyte with low lithium-ion association and uniform lithium flux for lithium secondary batteries. <i>Electrochimica Acta</i> , 2022, 416, 140292.	2.6	7
13	Self-assembly synthesis of Ni-decorated Nb ₂ C MXene as an efficient and stable catalyst towards electrochemical nitrogen reduction. <i>Ceramics International</i> , 2022, 48, 20599-20604.	2.3	10
14	One-Dimensional Co-Carbonate Hydroxide@Ni-MOFs Composite with Super Uniform Core-Shell Heterostructure for Ultrahigh Rate Performance Supercapacitor Electrode. <i>Small</i> , 2022, 18, e2200656.	5.2	17
15	Oxygen vacancy enabled fabrication of dual-atom Mn/Co catalysts for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11702-11711.	5.2	24
16	Peanut shells-derived biochars as adsorbents for the pipette-tip solid-phase extraction of endocrine-disrupting phenols in water, milk and beverage. <i>Journal of Chromatography A</i> , 2022, 1673, 463101.	1.8	16
17	Cascaded band gap design for highly efficient electron transport layer-free perovskite solar cells. <i>Chemical Communications</i> , 2022, 58, 6749-6752.	2.2	4
18	Mechanism of oxygen reduction reaction on Ni/CNTs and Ni/X-CNTs (X=B, N, O) catalysts: a theoretical study. <i>Theoretical Chemistry Accounts</i> , 2022, 141, .	0.5	0

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19	Fe-based catalysts for nitrogen reduction toward ammonia electrosynthesis under ambient conditions. <i>SusMat</i> , 2022, 2, 214-242.	7.8	35
20	DFT practice in MXene-based materials for electrocatalysis and energy storage: From basics to applications. <i>Ceramics International</i> , 2022, 48, 27217-27239.	2.3	8
21	Investigation of the interaction between graphene and fullerene C70: a molecular dynamics simulation. <i>Indian Journal of Physics</i> , 2021, 95, 851-856.	0.9	1
22	Cobalt induced growth of hollow MOF spheres for high performance supercapacitors. <i>Materials Chemistry Frontiers</i> , 2021, 5, 482-491.	3.2	60
23	DFT study of the defective carbon materials with vacancy and heteroatom as catalyst for NRR. <i>Applied Surface Science</i> , 2021, 536, 147851.	3.1	22
24	DMH and NA-based cyanide-free silver electroplating bath: a promising alternative to cyanide ones in microelectronics. <i>Ionics</i> , 2021, 27, 417-422.	1.2	9
25	Investigation on the interfacial behavior of polyorganic inhibitors on a metal surface by DFT study and MD simulation. <i>Applied Surface Science</i> , 2021, 541, 148570.	3.1	25
26	Density functional theory study of nitrogen-doped graphene as a high-performance electrocatalyst for CO ₂ RR. <i>Applied Surface Science</i> , 2021, 540, 148319.	3.1	32
27	Electrocatalytic Synthesis of Ammonia Using a 2D Ti ₃ C ₂ MXene Loaded with Copper Nanoparticles. <i>ChemPlusChem</i> , 2021, 86, 166-170.	1.3	23
28	Theoretical study of the influence of doped oxygen group elements on the properties of organic semiconductors. <i>Nanoscale Advances</i> , 2021, 3, 3100-3106.	2.2	0
29	A peanut shell-derived economical and eco-friendly biochar catalyst for electrochemical ammonia synthesis under ambient conditions: combined experimental and theoretical study. <i>Catalysis Science and Technology</i> , 2021, 11, 1526-1536.	2.1	8
30	Theoretical and experimental study of the influence of PEG and PEI on copper electrodeposition. <i>New Journal of Chemistry</i> , 2021, 45, 19655-19659.	1.4	3
31	Investigation of the interfacial behavior of organics on sulfide semiconductor surfaces by quantum chemical calculations and molecular dynamics simulations. <i>New Journal of Chemistry</i> , 2021, 45, 19321-19328.	1.4	0
32	Theoretical study of the influence of doped niobium on the electronic properties of CsPbBr ₃ . <i>Nanoscale Advances</i> , 2021, 3, 1910-1916.	2.2	1
33	FeS encapsulated hierarchical porous S, N-dual-doped carbon for oxygen reduction reaction facilitation in Zn-air batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2695-2703.	2.5	17
34	Recent progress in biomass-derived carbon materials used for secondary batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3017-3038.	2.5	36
35	Review—Current Progress of Non-Precious Metal for ORR Based Electrocatalysts Used for Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2021, 168, 044521.	1.3	15
36	Formation of Multiple Helical Core-Shell Structure from Polyphenyl and Boron Nitride Nanotube. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100078.	1.3	1

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37	<scp> CO ₂ </scp> electroreduction by <scp>AuCu</scp> bimetallic clusters: A first principles study. International Journal of Energy Research, 2021, 45, 18684-18694.	2.2	9
38	Design of Oxygen-doped Co₃S₄ Hollow Nanosheets by Suppressed Sulfurization for Supercapacitors. ChemElectroChem, 2021, 8, 3629-3636.	1.7	17
39	From 1D to 2D: dopamine constructed 2D NiCo-hydroxide nanosheets/graphene composites for high-performance supercapacitors. Sustainable Energy and Fuels, 2021, 5, 2373-2381.	2.5	5
40	Theoretical study of the oxygen reduction reaction on Ni&Nâ&C and Co&Nâ&C catalysts derived from ZIF 8. International Journal of Energy Research, 2021, 45, 8857-8870.	2.2	2
41	Recent progress in metal sulfide-based electron transport layers in perovskite solar cells. Nanoscale, 2021, 13, 17272-17289.	2.8	10
42	N-Doped Hierarchically Porous CNT@C Membranes for Accelerating Polysulfide Redox Conversion for High-Energy Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 2521-2529.	4.0	20
43	A two-dimensional MXene-supported metal-organic framework for highly selective ambient electrocatalytic nitrogen reduction. Nanoscale, 2021, 13, 2843-2848.	2.8	81
44	2D heterostructure comprised of Ni3S2/d-Ti3C2 supported on Ni foam as binder-free electrode for hybrid supercapacitor. Journal of Alloys and Compounds, 2020, 814, 152271.	2.8	59
45	Theoretical investigation of methanol oxidation on Pt and PtNi catalysts. Ionics, 2020, 26, 1325-1336.	1.2	9
46	Energy- and cost-efficient NaCl-assisted synthesis of MAX-phase Ti3AlC2 at lower temperature. Ceramics International, 2020, 46, 6934-6939.	2.3	41
47	Current progress of Pt and Pt-based electrocatalysts used for fuel cells. Sustainable Energy and Fuels, 2020, 4, 15-30.	2.5	375
48	Polymer electrolyte with dual functional groups designed via theoretical calculation for all-solid-state lithium batteries. Journal of Power Sources, 2020, 450, 227614.	4.0	22
49	Atomically dispersed M&N&C catalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2020, 8, 23187-23201.	5.2	109
50	Current progress and performance improvement of Pt/C catalysts for fuel cells. Journal of Materials Chemistry A, 2020, 8, 24284-24306.	5.2	137
51	A theoretical study of atomically dispersed MN₄/C (M = Fe or Mn) as a high-activity catalyst for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2020, 22, 28297-28303.	1.3	34
52	DFT study of Ru/graphene as high-performance electrocatalyst for NRR. Inorganic Chemistry Communication, 2020, 120, 108169.	1.8	11
53	Two-dimensional CuAg/Ti₃C₂ catalyst for electrochemical synthesis of ammonia under ambient conditions: a combined experimental and theoretical study. Sustainable Energy and Fuels, 2020, 4, 5061-5071.	2.5	26
54	Novel Lead-Free Material Cs₂PtI₆ with Narrow Bandgap and Ultra-Stability for Its Photovoltaic Application. ACS Applied Materials & Interfaces, 2020, 12, 44700-44709.	4.0	35

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55	Research on the Interfacial Interaction between Polyacetylene and Silver Nanowire. <i>Macromolecular Theory and Simulations</i> , 2020, 29, 2000034.	0.6	1
56	Formation of core-shell structure from carbon nanotube and gold nanowire: a molecular dynamic simulation. <i>Journal of Dispersion Science and Technology</i> , 2020, , 1-7.	1.3	0
57	Metal-Organic Framework-Derived Cobalt-Doped Carbon Material for Electrochemical Ammonia Synthesis under Ambient Conditions. <i>ChemElectroChem</i> , 2020, 7, 4900-4905.	1.7	12
58	Shape-controlled synthesis of Ni-based metal-organic frameworks with albizia flower-like spheres@nanosheets structure for high performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 347-355.	5.0	51
59	The reaction pathway of the CO ₂ RR to low-carbon alcohols: a theoretical study. <i>New Journal of Chemistry</i> , 2020, 44, 8971-8976.	1.4	14
60	Formation of polynylon12/carbon nanotubes composites through self-coiling process: a molecular dynamic simulation. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	3
61	Significantly Enhanced <i>v</i> -oc and Efficiency in Perovskite Solar Cells through Composition Adjustment of SnS ₂ Electron Transport Layers. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9250-9256.	3.2	18
62	Intermediate-Controlled Interfacial Engineering for Stable and Highly Efficient Carbon-Based PSCs. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34479-34486.	4.0	9
63	Recent Progress in MXene-Based Materials: Potential High-Performance Electrocatalysts. <i>Advanced Functional Materials</i> , 2020, 30, 2003437.	7.8	181
64	A two-dimensional Ru@MXene catalyst for highly selective ambient electrocatalytic nitrogen reduction. <i>Nanoscale</i> , 2020, 12, 10933-10938.	2.8	100
65	Co loaded on graphene with interfacial structure as high performance catalyst for 4e ⁻ ORR: a DFT study. <i>Ionics</i> , 2020, 26, 3483-3490.	1.2	9
66	Influence of Composite Additive on Gold Electrodeposition in DMH-Based Electrolyte: Combined Experimental and Theoretical Study. <i>Journal of the Electrochemical Society</i> , 2020, 167, 022506.	1.3	6
67	Facile synthesis of ZnS decorated N, S co-doped carbon polyhedron as high efficiency oxygen reduction reaction catalyst for Zn-air battery. <i>Applied Surface Science</i> , 2020, 509, 145367.	3.1	22
68	Current progress in electrocatalytic carbon dioxide reduction to fuels on heterogeneous catalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3541-3562.	5.2	204
69	Current Progress of Electrocatalysts for Ammonia Synthesis Through Electrochemical Nitrogen Reduction Under Ambient Conditions. <i>ChemSusChem</i> , 2020, 13, 3766-3788.	3.6	67
70	Semi closed coordination structure polymer electrolyte combined in situ interface engineering for lithium batteries. <i>Chemical Engineering Journal</i> , 2020, 394, 124847.	6.6	15
71	Preparation of AgCl photocatalyst by recovering silver from discarded cyanide-free silver electrodeposition bath: insightful investigation of quantum chemical calculations and experiment. <i>Ionics</i> , 2019, 25, 2419-2426.	1.2	4
72	A black phosphorus/Ti ₃ C ₂ MXene nanocomposite for sodium-ion batteries: a combined experimental and theoretical study. <i>Nanoscale</i> , 2019, 11, 19862-19869.	2.8	57

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73	Molecular dynamics simulations of single-walled carbon nanotubes and polymers. Surface Innovations, 2019, 7, 284-289.	1.4	4
74	Niobium Incorporation into CsPb ₂ Br for Stable and Efficient All-Inorganic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 19994-20003.	4.0	106
75	Palladium nanoparticles hosted in graphene-based 2-dimension polyelectrolyte brushes for enhanced hydrogenation selectivity of o-chloronitrobenzene. Applied Surface Science, 2019, 485, 230-237.	3.1	15
76	Electrostatic self-assembly of 2D delaminated MXene (Ti ₃ C ₂) onto Ni foam with superior electrochemical performance for supercapacitor. Electrochimica Acta, 2019, 305, 164-174.	2.6	123
77	Current progress in interfacial engineering of carbon-based perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 8690-8699.	5.2	84
78	Ultrathin 2D nitrogen-doped carbon nanosheets for high performance supercapacitors: insight into the effects of graphene oxides. Nanoscale, 2019, 11, 8588-8596.	2.8	49
79	Killing Two Birds with One Stone: A Highly Active Tubular Carbon Catalyst with Effective N Doping for Oxygen Reduction and Hydrogen Evolution Reactions. Catalysis Letters, 2019, 149, 486-495.	1.4	12
80	A facile approach for the fabrication of loading-controlled Ag/C foam catalyst. Ionics, 2019, 25, 361-365.	1.2	0
81	Preparation of gold catalyst by electrodeposition in [BMIm][TfO] ionic liquid electrolyte: an insightful study of theoretical calculations and experiments. Ionics, 2019, 25, 1407-1412.	1.2	2
82	Theoretical and experimental studies of the influence of microstructure on anti-tarnish ability of cyanide-free silver deposit. Ionics, 2019, 25, 849-857.	1.2	7
83	Molecular dynamics study of core-shell structure from carbon nanotube and platinum nanowire. Molecular Simulation, 2018, 44, 648-652.	0.9	4
84	3D self-supported hierarchical core/shell structured MnCo ₂ O ₄ @CoS arrays for high-energy supercapacitors. Journal of Materials Chemistry A, 2018, 6, 1822-1831.	5.2	141
85	In-Situ Grown Ni(OH) ₂ Nanosheets on Ni Foam for Hybrid Supercapacitors with High Electrochemical Performance. Journal of the Electrochemical Society, 2018, 165, A882-A890.	1.3	17
86	Formation of binocular-like structure using graphene nanosheet and carbon nanotubes. Molecular Simulation, 2018, 44, 200-205.	0.9	10
87	Theoretical and Experimental Studies of the Prevention Mechanism of Organic Inhibitors on Silver Anti-Tarnish. Journal of the Electrochemical Society, 2018, 165, H725-H732.	1.3	5
88	Graphene oxide template-directed synthesis of porous carbon nanosheets from expired wheat flour for high-performance supercapacitors. New Journal of Chemistry, 2018, 42, 11689-11696.	1.4	10
89	Formation of core-shell structure from carbon nanotube and silver nanowire. Journal of Alloys and Compounds, 2018, 765, 140-145.	2.8	16
90	In-Situ Growth of a Feather-like MnO ₂ Nanostructure on Carbon Paper for High-Performance Rechargeable Sodium-Ion Batteries. ChemElectroChem, 2018, 5, 3266-3272.	1.7	16

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91	Study on the synergistic lithium storage performance of Sn/graphene nanocomposites via quantum chemical calculations and experiments. <i>Applied Surface Science</i> , 2017, 416, 751-756.	3.1	21
92	Interfacial interaction between polypropylene and nanotube: A molecular dynamics simulation. <i>Journal of Molecular Structure</i> , 2017, 1144, 260-264.	1.8	20
93	Preparation of SnS/graphene nanocomposites from Sn/graphene for superior reversible lithium storage. <i>Materials Letters</i> , 2017, 209, 338-341.	1.3	24
94	A composite additive used for a new cyanide-free silver plating bath (II): an insight by electrochemical measurements and quantum chemical calculation. <i>New Journal of Chemistry</i> , 2017, 41, 11104-11112.	1.4	15
95	A Mixture of Ionic Liquid and Ethanol Used for Galvanostatic Electrodeposition of $Cu_{1-x}Ga_xSe_2$ Thin Films. <i>Journal of the Electrochemical Society</i> , 2017, 164, D969-D977.	1.3	4
96	A Hierarchical Porous $C@LiFePO_4$ /Carbon Nanotubes Microsphere Composite for High-Rate Lithium-Ion Batteries: Combined Experimental and Theoretical Study. <i>Advanced Energy Materials</i> , 2016, 6, 1600426.	10.2	194
97	Communication "Octahedral Indium Particles Synthesized by Electrodeposition from 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2016, 163, D707-D709.	1.3	2
98	Computational Chemistry and Electrochemical Mechanism Studies of Auxiliary Complexing Agents Used for Zn-Ni Electroplating in the 5'-Diethylhydantoin Electrolyte. <i>Journal of the Electrochemical Society</i> , 2016, 163, D764-D773.	1.3	5
99	Complexing agent study for environmentally friendly silver electrodeposition ($\langle scp \rangle$): electrochemical behavior of silver complex. <i>RSC Advances</i> , 2016, 6, 7348-7355.	1.7	23
100	Electrochemical Study of the Diffusion and Nucleation of Gallium(III) in [Bmim][TfO] Ionic Liquid. <i>Electrochimica Acta</i> , 2016, 190, 1066-1077.	2.6	19
101	Experimental and theoretical studies of DMH as a complexing agent for a cyanide-free gold electroplating electrolyte. <i>RSC Advances</i> , 2015, 5, 64997-65004.	1.7	48
102	Computational Chemistry and Electrochemical Studies of Adsorption Behavior of Organic Additives during Gold Deposition in Cyanide-free Electrolytes. <i>Electrochimica Acta</i> , 2015, 176, 10-17.	2.6	27
103	Desired crystal oriented $LiFePO_4$ nanoplatelets in situ anchored on a graphene cross-linked conductive network for fast lithium storage. <i>Nanoscale</i> , 2015, 7, 8819-8828.	2.8	107
104	A composite additive used for an excellent new cyanide-free silver plating bath. <i>New Journal of Chemistry</i> , 2015, 39, 2409-2412.	1.4	20
105	Role of polyethyleneimine as an additive in cyanide-free electrolytes for gold electrodeposition. <i>RSC Advances</i> , 2015, 5, 64806-64813.	1.7	28
106	Electrodeposit copper from alkaline cyanide-free baths containing 5,5'-dimethylhydantoin and citrate as complexing agents. <i>RSC Advances</i> , 2014, 4, 38012-38026.	1.7	26
107	Theoretical and experimental studies of the corrosion inhibition effect of nitrotetrazolium blue chloride on copper in 0.1 M H_2SO_4 . <i>RSC Advances</i> , 2014, 4, 40606-40616.	1.7	36
108	Complexing agent study via computational chemistry for environmentally friendly silver electrodeposition and the application of a silver deposit. <i>RSC Advances</i> , 2014, 4, 40930-40940.	1.7	43

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109	A Combined Theoretical and Experimental Study for Silver Electroplating. Scientific Reports, 2014, 4, 3837.	1.6	35