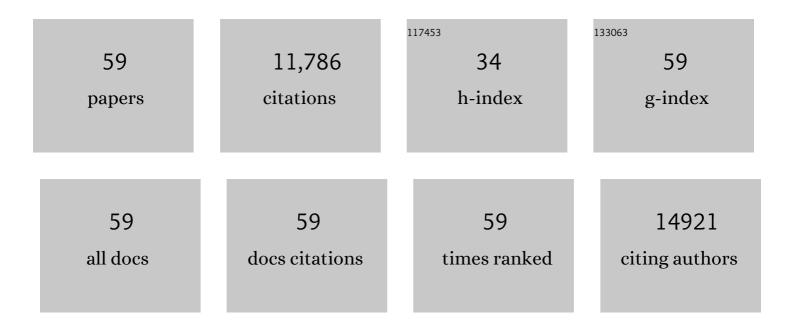
Jian Wang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5650141/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Techno-economic analysis of a solar thermochemical cycle-based direct coal liquefaction system for low-carbon oil production. Energy, 2022, 239, 122167.	4.5	7
2	Effects of cathode thickness and microstructural properties on the performance of protonic ceramic fuel cell (PCFC): A 3D modelling study. International Journal of Hydrogen Energy, 2022, 47, 4047-4061.	3.8	19
3	Bridging the Charge Accumulation and High Reaction Order for Highâ€Rate Oxygen Evolution and Long Stable Znâ€Air Batteries. Advanced Functional Materials, 2022, 32, .	7.8	49
4	Novel battery thermal management system with different shapes of pin fins. International Journal of Energy Research, 2022, 46, 5997-6011.	2.2	9
5	In Situ Anchoring Co–N–C Nanoparticles on Co ₄ N Nanosheets toward Ultrastable Flexible Self‣upported Bifunctional Oxygen Electrocatalyst Enables Recyclable Zn–Air Batteries Over 10 000 Cycles and Fast Charging. Small, 2022, 18, e2105887.	5.2	22
6	Pd/Fe ₂ O ₃ with Electronic Coupling Single-Site Pd–Fe Pair Sites for Low-Temperature Semihydrogenation of Alkynes. Journal of the American Chemical Society, 2022, 144, 573-581.	6.6	69
7	Carbon-based electrocatalysts for sustainable energy applications. Progress in Materials Science, 2021, 116, 100717.	16.0	216
8	Engineering the electronic structure of perovskite oxide surface with ionic liquid for enhanced oxygen reduction reaction. Applied Catalysis B: Environmental, 2021, 282, 119593.	10.8	35
9	Unlocking the Potential of Mechanochemical Coupling: Boosting the Oxygen Evolution Reaction by Mating Proton Acceptors with Electron Donors. Advanced Functional Materials, 2021, 31, 2008077.	7.8	40
10	Novel synthesis of Silicon/Carbon nanotubes microspheres as anode additives through chemical vapor deposition in fluidized bed reactors. Scripta Materialia, 2021, 192, 49-54.	2.6	19
11	Innovative non–oxidative methane dehydroaromatization via solar membrane reactor. Energy, 2021, 216, 119265.	4.5	21
12	Formation of FeOOH Nanosheets Induces Substitutional Doping of CeO _{2â^'} <i>_x</i> with Highâ€Valence Ni for Efficient Water Oxidation. Advanced Energy Materials, 2021, 11, 2002731.	10.2	110
13	One-Pot Heterointerfacial Metamorphosis for Synthesis and Control of Widely Varying Heterostructured Nanoparticles. Journal of the American Chemical Society, 2021, 143, 3383-3392.	6.6	9
14	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. Nature Catalysis, 2021, 4, 212-222.	16.1	266
15	Pt/Fe2O3 with Pt–Fe pair sites as a catalyst for oxygen reduction with ultralow Pt loading. Nature Energy, 2021, 6, 614-623.	19.8	274
16	Introducing Ag in Ba0.9La0.1FeO3-: Combining cationic substitution with metal particle decoration. Materials Reports Energy, 2021, 1, 100018.	1.7	6
17	A new high-voltage calcium intercalation host for ultra-stable and high-power calcium rechargeable batteries. Nature Communications, 2021, 12, 3369.	5.8	59
18	A mid/low-temperature solar-driven integrated membrane reactor for the dehydrogenation of propane – A thermodynamic assessment. Applied Thermal Engineering, 2021, 193, 116952.	3.0	11

Jian Wang

#	Article	IF	CITATIONS
19	Single-atom catalyst for high-performance methanol oxidation. Nature Communications, 2021, 12, 5235.	5.8	113
20	Restructuring highly electron-deficient metal-metal oxides for boosting stability in acidic oxygen evolution reaction. Nature Communications, 2021, 12, 5676.	5.8	92
21	Environmental and economic multi-objective optimization of comprehensive energy industry: A case study. Energy, 2021, 237, 121534.	4.5	7
22	Thermodynamic Assessment of a Solar-Driven Integrated Membrane Reactor for Ethanol Steam Reforming. Molecules, 2021, 26, 6921.	1.7	2
23	Theoretical Thermodynamic Efficiency Limit of Isothermal Solar Fuel Generation from H2O/CO2 Splitting in Membrane Reactors. Molecules, 2021, 26, 7047.	1.7	4
24	Manipulating the Conversion Kinetics of Polysulfides by Engineering Oxygen pâ€Band of Halloysite for Improved Liâ€6 Batteries. Small, 2021, , 2105661.	5.2	11
25	Stable and Highâ€Power Calciumâ€ion Batteries Enabled by Calcium Intercalation into Graphite. Advanced Materials, 2020, 32, e1904411.	11.1	87
26	The Role of Ceria in a Hybrid Catalyst toward Alkaline Water Oxidation. ChemSusChem, 2020, 13, 5273-5279.	3.6	36
27	Perspective of CIGS-BIPV's Product Competitiveness in China. International Journal of Photoenergy, 2020, 2020, 1-10.	1.4	9
28	Boosting the anchoring and catalytic capability of MoS ₂ for high-loading lithium sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 17646-17656.	5.2	33
29	Non-precious-metal catalysts for alkaline water electrolysis: <i>operando</i> characterizations, theoretical calculations, and recent advances. Chemical Society Reviews, 2020, 49, 9154-9196.	18.7	448
30	A Review of Carbon‧upported Nonprecious Metals as Energyâ€Related Electrocatalysts. Small Methods, 2020, 4, 2000621.	4.6	76
31	Probing and Resolving the Heterogeneous Degradation of Nickelâ€Rich Layered Oxide Cathodes across Multi‣ength Scales. Small Methods, 2020, 4, 2000551.	4.6	18
32	Recent Advances of First d-Block Metal-Based Perovskite Oxide Electrocatalysts for Alkaline Water Splitting. Catalysts, 2020, 10, 770.	1.6	28
33	Construction of Single-Phase Nickel Disulfide Microflowers as High-Performance Electrodes for Hybrid Supercapacitors. Energy & Fuels, 2020, 34, 10178-10187.	2.5	27
34	P-Substituted Ba _{0.95} La _{0.05} FeO _{3â^î^} as a Cathode Material for SOFCs. ACS Applied Energy Materials, 2019, 2, 5472-5480.	2.5	36
35	A strategy for optimizing efficiencies of solar thermochemical fuel production based on nonstoichiometric oxides. International Journal of Hydrogen Energy, 2019, 44, 19585-19594.	3.8	38
36	In-situ synthesis of bimetallic phosphide with carbon tubes as an active electrocatalyst for oxygen evolution reaction. Applied Catalysis B: Environmental, 2019, 254, 292-299.	10.8	141

JIAN WANG

#	Article	IF	CITATIONS
37	Thermodynamic analysis of a solar thermochemical cycle-based direct coal liquefaction system for oil production. Energy, 2019, 179, 1279-1287.	4.5	20
38	Experimental investigation of heat transfer and flow characteristics in finned copper foam heat sinks subjected to jet impingement cooling. Applied Energy, 2019, 241, 433-443.	5.1	70
39	Highly Active and Stable Cobalt-Free Hafnium-doped SrFe _{0.9} Hf _{0.1} O _{3â^î^} Perovskite Cathode for Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2018, 1, 2134-2142.	2.5	34
40	In situ formation of a 3D core-shell and triple-conducting oxygen reduction reaction electrode for proton-conducting SOFCs. Journal of Power Sources, 2018, 385, 76-83.	4.0	51
41	Water Splitting with an Enhanced Bifunctional Double Perovskite. ACS Catalysis, 2018, 8, 364-371.	5.5	186
42	Mechanochemical Coupling of MoS ₂ and Perovskites for Hydrogen Generation. ACS Applied Energy Materials, 2018, 1, 6409-6416.	2.5	33
43	Bimetal-decorated nanocarbon as a superior electrocatalyst for overall water splitting. Journal of Power Sources, 2018, 401, 312-321.	4.0	41
44	Energetics of Nanoparticle Exsolution from Perovskite Oxides. Journal of Physical Chemistry Letters, 2018, 9, 3772-3778.	2.1	65
45	In situ growth of Pt ₃ Ni nanoparticles on an A-site deficient perovskite with enhanced activity for the oxygen reduction reaction. Journal of Materials Chemistry A, 2017, 5, 6399-6404.	5.2	70
46	Boosting Bifunctional Oxygen Electrolysis for Nâ€Đoped Carbon via Bimetal Addition. Small, 2017, 13, 1604103.	5.2	118
47	H 2 O 2 Treated La 0.8 Sr 0.2 CoO 3-l̂´as an Efficient Catalyst for Oxygen Evolution Reaction. Electrochimica Acta, 2017, 244, 139-145.	2.6	33
48	Low temperature pulsed laser deposition of garnet Li 6.4 La 3 Zr 1.4 Ta 0.6 O 12 films as all solid-state lithium battery electrolytes. Journal of Power Sources, 2017, 365, 43-52.	4.0	65
49	A bi-functional catalyst for oxygen reduction and oxygen evolution reactions from used baby diapers: α-Fe ₂ O ₃ wrapped in P and S dual doped graphitic carbon. RSC Advances, 2016, 6, 64258-64265.	1.7	18
50	Ca and In co-doped BaFeO 3â^´Î´as a cobalt-free cathode material for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2016, 324, 224-232.	4.0	79
51	Ba0.5Sr0.5Co0.8Fe0.2O3â ^{~°} δ on N-doped mesoporous carbon derived from organic waste as a bi-functional oxygen catalyst. International Journal of Hydrogen Energy, 2016, 41, 10744-10754.	3.8	52
52	Boosting oxygen reduction/evolution reaction activities with layered perovskite catalysts. Chemical Communications, 2016, 52, 10739-10742.	2.2	83
53	Egg yolk-derived phosphorus and nitrogen dual doped nano carbon capsules for high-performance lithium ion batteries. Materials Letters, 2016, 167, 93-97.	1.3	38
54	Visualizing electronic interactions between iron and carbon by X-ray chemical imaging and spectroscopy. Chemical Science, 2015, 6, 3262-3267.	3.7	68

JIAN WANG

#	Article	IF	CITATIONS
55	Ba0.95La0.05FeO3â``–multi-layer graphene as a low-cost and synergistic catalyst for oxygen evolution reaction. Carbon, 2015, 90, 122-129.	5.4	29
56	The effect of A-site and B-site substitution on BaFeO3â^'Î': An investigation as a cathode material for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2015, 297, 511-518.	4.0	102
57	Highly active and durable methanol oxidation electrocatalyst based on the synergy of platinum–nickel hydroxide–graphene. Nature Communications, 2015, 6, 10035.	5.8	466
58	An Advanced Ni–Fe Layered Double Hydroxide Electrocatalyst for Water Oxidation. Journal of the American Chemical Society, 2013, 135, 8452-8455.	6.6	2,498
59	Co3O4 nanocrystals on graphene as a synergistic catalyst for oxygen reduction reaction. Nature Materials, 2011, 10, 780-786.	13.3	5,120