

Cao-Thang Dinh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

14,018
citations

55
h-index

103
g-index

103
ext. papers

18,842
ext. citations

20.4
avg, IF

6.72
L-index

#	Paper	IF	Citations
89	Stabilizing Highly Active Ru Sites by Suppressing Lattice Oxygen Participation in Acidic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6482-6490	16.4	38
88	CO electrolysis to multicarbon products in strong acid. <i>Science</i> , 2021 , 372, 1074-1078	33.3	115
87	Single Pass CO ₂ Conversion Exceeding 85% in the Electrosynthesis of Multicarbon Products via Local CO ₂ Regeneration. <i>ACS Energy Letters</i> , 2021 , 6, 2952-2959	20.1	27
86	Ethylene Electrosynthesis: A Comparative Techno-economic Analysis of Alkaline vs Membrane Electrode Assembly vs CO ₂ /CO ₂ H ₄ Tandems. <i>ACS Energy Letters</i> , 2021 , 6, 997-1002	20.1	33
85	Gold Adparticles on Silver Combine Low Overpotential and High Selectivity in Electrochemical CO ₂ Conversion. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7504-7512	6.1	4
84	Toward efficient catalysts for electrochemical CO ₂ conversion to C ₂ products. <i>Current Opinion in Electrochemistry</i> , 2021 , 30, 100807	7.2	3
83	Can sustainable ammonia synthesis pathways compete with fossil-fuel based Haber-Bosch processes?. <i>Energy and Environmental Science</i> , 2021 , 14, 2535-2548	35.4	36
82	Efficient electrically powered CO ₂ -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , 2020 , 5, 478-486	62.3	163
81	Accelerated discovery of CO electrocatalysts using active machine learning. <i>Nature</i> , 2020 , 581, 178-183	50.4	328
80	CO electrolysis to multicarbon products at activities greater than 1 A cm. <i>Science</i> , 2020 , 367, 661-666	33.3	403
79	Enhanced Nitrate-to-Ammonia Activity on Copper-Nickel Alloys via Tuning of Intermediate Adsorption. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5702-5708	16.4	192
78	Molecular tuning of CO-to-ethylene conversion. <i>Nature</i> , 2020 , 577, 509-513	50.4	321
77	Hydration-Effect-Promoting Ni-Fe Oxyhydroxide Catalysts for Neutral Water Oxidation. <i>Advanced Materials</i> , 2020 , 32, e1906806	24	33
76	Cooperative CO ₂ -to-ethanol conversion via enriched intermediates at molecule-metal catalyst interfaces. <i>Nature Catalysis</i> , 2020 , 3, 75-82	36.5	164
75	Oxygen-tolerant electroproduction of C ₂ products from simulated flue gas. <i>Energy and Environmental Science</i> , 2020 , 13, 554-561	35.4	45
74	Efficient electrocatalytic conversion of carbon dioxide in a low-resistance pressurized alkaline electrolyzer. <i>Applied Energy</i> , 2020 , 261, 114305	10.7	30
73	Catalyst synthesis under CO ₂ electroreduction favours faceting and promotes renewable fuels electrosynthesis. <i>Nature Catalysis</i> , 2020 , 3, 98-106	36.5	158

72	Tuning OH binding energy enables selective electrochemical oxidation of ethylene to ethylene glycol. <i>Nature Catalysis</i> , 2020 , 3, 14-22	36.5	41
71	High-valence metals improve oxygen evolution reaction performance by modulating 3d metal oxidation cycle energetics. <i>Nature Catalysis</i> , 2020 , 3, 985-992	36.5	149
70	Gas diffusion electrode design for electrochemical carbon dioxide reduction. <i>Chemical Society Reviews</i> , 2020 , 49, 7488-7504	58.5	70
69	Fundamentals of Electrochemical CO ₂ Reduction on Single-Metal-Atom Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 10068-10095	13.1	82
68	CO ₂ Electroreduction to Methane at Production Rates Exceeding 100 mA/cm ² . <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14668-14673	8.3	14
67	Continuous Carbon Dioxide Electroreduction to Concentrated Multi-carbon Products Using a Membrane Electrode Assembly. <i>Joule</i> , 2019 , 3, 2777-2791	27.8	155
66	CO ₂ Electroreduction from Carbonate Electrolyte. <i>ACS Energy Letters</i> , 2019 , 4, 1427-1431	20.1	66
65	Binding Site Diversity Promotes CO Electroreduction to Ethanol. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8584-8591	16.4	178
64	Electrochemical CO Reduction into Chemical Feedstocks: From Mechanistic Electrocatalysis Models to System Design. <i>Advanced Materials</i> , 2019 , 31, e1807166	24	396
63	N-heterocyclic carbene-functionalized magic-number gold nanoclusters. <i>Nature Chemistry</i> , 2019 , 11, 419-425	17.6	185
62	Efficient electrocatalytic conversion of carbon monoxide to propanol using fragmented copper. <i>Nature Catalysis</i> , 2019 , 2, 251-258	36.5	111
61	Quantum-Dot-Derived Catalysts for CO ₂ Reduction Reaction. <i>Joule</i> , 2019 , 3, 1703-1718	27.8	78
60	Designing materials for electrochemical carbon dioxide recycling. <i>Nature Catalysis</i> , 2019 , 2, 648-658	36.5	442
59	Hydroxide promotes carbon dioxide electroreduction to ethanol on copper via tuning of adsorbed hydrogen. <i>Nature Communications</i> , 2019 , 10, 5814	17.4	95
58	Efficient upgrading of CO to C fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , 2019 , 10, 5186	17.4	55
57	Constraining CO coverage on copper promotes high-efficiency ethylene electroproduction. <i>Nature Catalysis</i> , 2019 , 2, 1124-1131	36.5	89
56	Boosting the Single-Pass Conversion for Renewable Chemical Electrosynthesis. <i>Joule</i> , 2019 , 3, 13-15	27.8	26
55	Multi-site electrocatalysts for hydrogen evolution in neutral media by destabilization of water molecules. <i>Nature Energy</i> , 2019 , 4, 107-114	62.3	264

54	Hydronium-Induced Switching between CO Electroreduction Pathways. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3833-3837	16.4	100
53	Chemical-to-Electricity Carbon: Water Device. <i>Advanced Materials</i> , 2018 , 30, e1707635	24	32
52	Catalyst electro-redeposition controls morphology and oxidation state for selective carbon dioxide reduction. <i>Nature Catalysis</i> , 2018 , 1, 103-110	36.5	479
51	What Should We Make with CO ₂ and How Can We Make It?. <i>Joule</i> , 2018 , 2, 825-832	27.8	546
50	Metal-Organic Frameworks Mediate Cu Coordination for Selective CO Electroreduction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11378-11386	16.4	188
49	2D Metal Oxyhalide-Derived Catalysts for Efficient CO Electroreduction. <i>Advanced Materials</i> , 2018 , 30, e1802858	24	123
48	Steering post-CO coupling selectivity enables high efficiency electroreduction of carbon dioxide to multi-carbon alcohols. <i>Nature Catalysis</i> , 2018 , 1, 421-428	36.5	348
47	Combined high alkalinity and pressurization enable efficient CO ₂ electroreduction to CO. <i>Energy and Environmental Science</i> , 2018 , 11, 2531-2539	35.4	147
46	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. <i>Nature Chemistry</i> , 2018 , 10, 149-154	17.6	328
45	A Surface Reconstruction Route to High Productivity and Selectivity in CO Electroreduction toward C Hydrocarbons. <i>Advanced Materials</i> , 2018 , 30, e1804867	24	131
44	Copper adparticle enabled selective electrosynthesis of n-propanol. <i>Nature Communications</i> , 2018 , 9, 4614	17.4	86
43	High Rate, Selective, and Stable Electroreduction of CO ₂ to CO in Basic and Neutral Media. <i>ACS Energy Letters</i> , 2018 , 3, 2835-2840	20.1	136
42	Copper nanocavities confine intermediates for efficient electrosynthesis of C ₃ alcohol fuels from carbon monoxide. <i>Nature Catalysis</i> , 2018 , 1, 946-951	36.5	205
41	Copper-on-nitride enhances the stable electrosynthesis of multi-carbon products from CO. <i>Nature Communications</i> , 2018 , 9, 3828	17.4	164
40	CO electroreduction to ethylene via hydroxide-mediated copper catalysis at an abrupt interface. <i>Science</i> , 2018 , 360, 783-787	33.3	980
39	Hollow Sr/Rh-codoped TiO ₂ photocatalyst for efficient sunlight-driven organic compound degradation. <i>RSC Advances</i> , 2017 , 7, 3480-3487	3.7	16
38	0D-2D Quantum Dot: Metal Dichalcogenide Nanocomposite Photocatalyst Achieves Efficient Hydrogen Generation. <i>Advanced Materials</i> , 2017 , 29, 1605646	24	73
37	Enhanced Solar-to-Hydrogen Generation with Broadband Epsilon-Near-Zero Nanostructured Photocatalysts. <i>Advanced Materials</i> , 2017 , 29, 1701165	24	29

36	Freestanding nano-photoelectrode as a highly efficient and visible-light-driven photocatalyst for water-splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10651-10657	13	8
35	Nanomorphology-Enhanced Gas-Evolution Intensifies CO ₂ Reduction Electrochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4031-4040	8.3	84
34	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO ₂ to Formate. <i>Joule</i> , 2017 , 1, 794-805	27.8	263
33	Joint tuning of nanostructured Cu-oxide morphology and local electrolyte programs high-rate CO ₂ reduction to C ₂ H ₄ . <i>Green Chemistry</i> , 2017 , 19, 4023-4030	10	31
32	Tunable Cu Enrichment Enables Designer Syngas Electrosynthesis from CO. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9359-9363	16.4	183
31	High-Density Nanosharp Microstructures Enable Efficient CO Electroreduction. <i>Nano Letters</i> , 2016 , 16, 7224-7228	11.5	126
30	Photon management for augmented photosynthesis. <i>Nature Communications</i> , 2016 , 7, 12699	17.4	142
29	Rational Design of Efficient Palladium Catalysts for Electroreduction of Carbon Dioxide to Formate. <i>ACS Catalysis</i> , 2016 , 6, 8115-8120	13.1	212
28	ZnFe ₂ O ₄ Leaves Grown on TiO ₂ Trees Enhance Photoelectrochemical Water Splitting. <i>Small</i> , 2016 , 12, 3181-8	11	50
27	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , 2016 , 352, 333-7	33.3	1459
26	Self-assembled nanoparticle-stabilized photocatalytic reactors. <i>Nanoscale</i> , 2016 , 8, 2107-15	7.7	18
25	Single-step colloidal quantum dot films for infrared solar harvesting. <i>Applied Physics Letters</i> , 2016 , 109, 183105	3.4	42
24	Enhanced electrocatalytic CO reduction via field-induced reagent concentration. <i>Nature</i> , 2016 , 537, 382-386	38.6	997
23	Nanocomposite heterojunctions as sunlight-driven photocatalysts for hydrogen production from water splitting. <i>Nanoscale</i> , 2015 , 7, 8187-208	7.7	341
22	Tailoring the assembly, interfaces, and porosity of nanostructures toward enhanced catalytic activity. <i>Chemical Communications</i> , 2015 , 51, 624-35	5.8	35
21	Spontaneous and Light-Driven Conversion of NO _x on Oxide-Modified TiO ₂ Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12750-12756	3.9	4
20	Three-dimensional ordered assembly of thin-shell Au/TiO ₂ hollow nanospheres for enhanced visible-light-driven photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6618-23	16.4	181
19	Visible light induced hydrogen generation using a hollow photocatalyst with two cocatalysts separated on two surface sides. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5937-41	3.6	78

18	Design of multicomponent photocatalysts for hydrogen production under visible light using water-soluble titanate nanodisks. <i>Nanoscale</i> , 2014 , 6, 4819-29	7.7	21
17	Three-Dimensional Ordered Assembly of Thin-Shell Au/TiO ₂ Hollow Nanospheres for Enhanced Visible-Light-Driven Photocatalysis. <i>Angewandte Chemie</i> , 2014 , 126, 6736-6741	3.6	26
16	Controlled synthesis of ceria nanoparticles for the design of nanohybrids. <i>Journal of Colloid and Interface Science</i> , 2013 , 394, 100-7	9.3	20
15	Design of water-soluble CdS/titanate/nickel nanocomposites for photocatalytic hydrogen production under sunlight. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13308	13	61
14	A solvothermal single-step route towards shape-controlled titanium dioxide nanocrystals. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 8-17	2.3	16
13	Controlled Synthesis of Titanate Nanodisks as Versatile Building Blocks for the Design of Hybrid Nanostructures. <i>Angewandte Chemie</i> , 2012 , 124, 6712-6716	3.6	2
12	Controlled synthesis of titanate nanodisks as versatile building blocks for the design of hybrid nanostructures. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6608-12	16.4	26
11	Back Cover: Controlled Synthesis of Titanate Nanodisks as Versatile Building Blocks for the Design of Hybrid Nanostructures (Angew. Chem. Int. Ed. 27/2012). <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6794-6794	16.4	1
10	Large-scale synthesis of uniform silver orthophosphate colloidal nanocrystals exhibiting high visible light photocatalytic activity. <i>Chemical Communications</i> , 2011 , 47, 7797-9	5.8	152
9	A general procedure to synthesize highly crystalline metal oxide and mixed oxide nanocrystals in aqueous medium and photocatalytic activity of metal/oxide nanohybrids. <i>Nanoscale</i> , 2011 , 3, 1861-73	7.7	50
8	Biomolecule-assisted route for shape-controlled synthesis of single-crystalline MnWO ₄ nanoparticles and spontaneous assembly of polypeptide-stabilized mesocrystal microspheres. <i>CrystEngComm</i> , 2011 , 13, 1450-1460	3.3	56
7	A new route to size and population control of silver clusters on colloidal TiO ₂ nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2228-34	9.5	48
6	Two-phase synthesis of colloidal annular-shaped Ce(x)La(1-x)CO ₃ OH nanoarchitectures assembled from small particles and their thermal conversion to derived mixed oxides. <i>Inorganic Chemistry</i> , 2011 , 50, 1309-20	5.1	33
5	Shape- and size-controlled synthesis of monoclinic ErOOH and cubic Er ₂ O ₃ from micro- to nanostructures and their upconversion luminescence. <i>ACS Nano</i> , 2010 , 4, 2263-73	16.7	65
4	Shape-controlled synthesis of highly crystalline titania nanocrystals. <i>ACS Nano</i> , 2009 , 3, 3737-43	16.7	365
3	Monodisperse samarium and cerium orthovanadate nanocrystals and metal oxidation states on the nanocrystal surface. <i>Langmuir</i> , 2009 , 25, 11142-8	4	62
2	A Novel Approach for Monodisperse Samarium Orthovanadate Nanocrystals: Controlled Synthesis and Characterization. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18584-18595	3.8	35
1	Electrochemical CO ₂ reduction to ethanol: from mechanistic understanding to catalyst design. <i>Journal of Materials Chemistry A</i> ,	13	7

