

Kenneth Davey

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.

63
papers

5,891
citations

34
h-index

72
g-index

72
ext. papers

8,032
ext. citations

15.8
avg. IF

6.65
L-index

#	Paper	IF	Citations
63	A statistical approach to boost soluble expression of E. coli-derived virus-like particles in shake-flask cultivation.. <i>Journal of Biotechnology</i> , 2022 , 347, 56-66	3.7	0
62	Main-group elements boost electrochemical nitrogen fixation. <i>CheM</i> , 2021 ,	16.2	28
61	Catalytic Oxidation of KS via Atomic Co and Pyridinic N Synergy in Potassium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16902-16907	16.4	11
60	Molecular Cleavage of Metal-Organic Frameworks and Application to Energy Storage and Conversion. <i>Advanced Materials</i> , 2021 , e2104341	24	17
59	Molecular Scalpel to Chemically Cleave Metal-Organic Frameworks for Induced Phase Transition. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6681-6690	16.4	26
58	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14131-14137	16.4	56
57	Tailoring Acidic Oxygen Reduction Selectivity on Single-Atom Catalysts via Modification of First and Second Coordination Spheres. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7819-7827	16.4	126
56	A critical review of ferritin as a drug nanocarrier: Structure, properties, comparative advantages and challenges. <i>Particuology</i> , 2021 , 64, 65-65	2.8	1
55	Efficient Nitrogen Fixation to Ammonia through Integration of Plasma Oxidation with Electrocatalytic Reduction. <i>Angewandte Chemie</i> , 2021 , 133, 14250-14256	3.6	15
54	ReS2 Nanosheets with In Situ Formed Sulfur Vacancies for Efficient and Highly Selective Photocatalytic CO2 Reduction. <i>Small Science</i> , 2021 , 1, 2000052		30
53	Spatial-confinement induced electroreduction of CO and CO to diols on densely-arrayed Cu nanopyramids. <i>Chemical Science</i> , 2021 , 12, 8079-8087	9.4	7
52	Mechanism for Zincophilic Sites on Zinc-Metal Anode Hosts in Aqueous Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003419	21.8	79
51	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. <i>Angewandte Chemie</i> , 2021 , 133, 7442-7451	3.6	43
50	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7366-7375	16.4	161
49	Significantly Raised Visible-Light Photocatalytic H Evolution on a 2D/2D ReS /In ZnS van der Waals Heterostructure. <i>Small</i> , 2021 , 17, e2100296	11	9
48	Significantly Raised Visible-Light Photocatalytic H2 Evolution on a 2D/2D ReS2/In2ZnS4 van der Waals Heterostructure (Small 32/2021). <i>Small</i> , 2021 , 17, 2170168	11	1
47	Dual-Function Electrolyte Additive for Highly Reversible Zn Anode. <i>Advanced Energy Materials</i> , 2021 , 11, 2102010	21.8	47

46	Directing the selectivity of CO ₂ electroreduction to target C ₂ products via non-metal doping on Cu surfaces. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6345-6351	13	12
45	A MoN electrocatalyst for efficient NaS electrodeposition in room-temperature sodium-sulfur batteries. <i>Nature Communications</i> , 2021 , 12, 7195	17.4	9
44	Atomic Engineering Catalyzed MnO Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density. <i>Advanced Materials</i> , 2020 , 32, e2001894	24	123
43	Photocatalysts for Hydrogen Evolution Coupled with Production of Value-Added Chemicals. <i>Small Methods</i> , 2020 , 4, 2000063	12.8	62
42	Unveiling the Advances of 2D Materials for Li/Na-S Batteries Experimentally and Theoretically. <i>Matter</i> , 2020 , 2, 323-344	12.7	78
41	Hybrid Aqueous Batteries: Atomic Engineering Catalyzed MnO ₂ Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density (Adv. Mater. 25/2020). <i>Advanced Materials</i> , 2020 , 32, 2070191	24	2
40	Electron-State Confinement of Polysulfides for Highly Stable Sodium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e1907557	24	87
39	Rational Design of Spinel Cobalt Vanadate Oxide Co VO for Superior Electrocatalysis. <i>Advanced Materials</i> , 2020 , 32, e1907168	24	72
38	Atomic-Level Reactive Sites for Semiconductor-Based Photocatalytic CO ₂ Reduction. <i>Advanced Energy Materials</i> , 2020 , 10, 1903879	21.8	162
37	Revealing the Magnesium-Storage Mechanism in Mesoporous Bismuth via Spectroscopy and Ab-Initio Simulations. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21728-21735	16.4	10
36	Revealing the Magnesium-Storage Mechanism in Mesoporous Bismuth via Spectroscopy and Ab-Initio Simulations. <i>Angewandte Chemie</i> , 2020 , 132, 21912-21919	3.6	3
35	Targeted Synergy between Adjacent Co Atoms on Graphene Oxide as an Efficient New Electrocatalyst for LiO ₂ Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1904206	15.6	49
34	A computational study on Pt and Ru dimers supported on graphene for the hydrogen evolution reaction: new insight into the alkaline mechanism. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3648-3654	13	86
33	Negative Charging of Transition-Metal Phosphides via Strong Electronic Coupling for Destabilization of Alkaline Water. <i>Angewandte Chemie</i> , 2019 , 131, 11922-11926	3.6	12
32	Negative Charging of Transition-Metal Phosphides via Strong Electronic Coupling for Destabilization of Alkaline Water. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11796-11800	16.4	101
31	Advantageous crystalline/morphous phase boundary for enhanced electrochemical water oxidation. <i>Energy and Environmental Science</i> , 2019 , 12, 2443-2454	35.4	172
30	Electrocatalysis: Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction (Adv. Mater. 16/2019). <i>Advanced Materials</i> , 2019 , 31, 1970113	24	2
29	Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2019 , 31, e1807771	24	149

28	An Electrolytic Zn/MnO ₂ Battery for High-Voltage and Scalable Energy Storage. <i>Angewandte Chemie</i> , 2019 , 131, 7905-7910	3.6	49
27	An Electrolytic Zn-MnO Battery for High-Voltage and Scalable Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7823-7828	16.4	464
26	Transition-Metal-Doped RuIr Bifunctional Nanocrystals for Overall Water Splitting in Acidic Environments. <i>Advanced Materials</i> , 2019 , 31, e1900510	24	261
25	Sodium-Ion Batteries: 1T'-ReS ₂ Confined in 2D-Honeycombed Carbon Nanosheets as New Anode Materials for High-Performance Sodium-Ion Batteries (Adv. Energy Mater. 30/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970117	21.8	3
24	1T'-ReS ₂ Confined in 2D-Honeycombed Carbon Nanosheets as New Anode Materials for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1901146	21.8	32
23	Regulating Electrocatalysts via Surface and Interface Engineering for Acidic Water Electrooxidation. <i>ACS Energy Letters</i> , 2019 , 4, 2719-2730	20.1	124
22	Long-Life Room-Temperature Sodium/Sulfur Batteries by Virtue of Transition-Metal-Nanocluster/Sulfur Interactions. <i>Angewandte Chemie</i> , 2019 , 131, 1498-1502	3.6	50
21	Long-Life Room-Temperature Sodium-Sulfur Batteries by Virtue of Transition-Metal-Nanocluster-Sulfur Interactions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1484-1488	16.4	113
20	Carbon, nitrogen and phosphorus containing metal-free photocatalysts for hydrogen production: progress and challenges. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1305-1322	13	125
19	Molecular-Level Hybridization of Nafion with Quantum Dots for Highly Enhanced Proton Conduction. <i>Advanced Materials</i> , 2018 , 30, e1707516	24	90
18	Enabling Pt-free photocatalytic hydrogen evolution on polymeric melon: Role of amorphization for overcoming the limiting factors. <i>Physical Review Materials</i> , 2018 , 2,	3.2	6
17	Titelbild: 2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries (Angew. Chem. 51/2018). <i>Angewandte Chemie</i> , 2018 , 130, 16809-16809	3.6	0
16	1D Sub-Nanotubes with Anatase/Bronze TiO Nanocrystal Wall for High-Rate and Long-Life Sodium-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, e1804116	24	85
15	Multiscale Structural Engineering of Ni-Doped CoO Nanosheets for Zinc-Air Batteries with High Power Density. <i>Advanced Materials</i> , 2018 , 30, e1804653	24	93
14	2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 16945-16949	3.6	10
13	2D MoN-VN Heterostructure To Regulate Polysulfides for Highly Efficient Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16703-16707	16.4	224
12	Advent of 2D Rhenium Disulfide (ReS ₂): Fundamentals to Applications. <i>Advanced Functional Materials</i> , 2017 , 27, 1606129	15.6	224
11	Counteracting Blueshift Optical Absorption and Maximizing Photon Harvest in Carbon Nitride Nanosheet Photocatalyst. <i>Small</i> , 2017 , 13, 1700376	11	31

10	A Benchmark Quantum Yield for Water Photoreduction on Amorphous Carbon Nitride. <i>Advanced Functional Materials</i> , 2017 , 27, 1702384	15.6	94
9	Graphene oxide coupled carbon nitride homo-heterojunction photocatalyst for enhanced hydrogen production. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 562-571	7.8	27
8	A detailed research study of learning and teaching core chemical engineering to a high standard in a mixed-ability small class in industry. <i>European Journal of Engineering Education</i> , 2017 , 42, 775-799	1.5	
7	Activity origin and catalyst design principles for electrocatalytic hydrogen evolution on heteroatom-doped graphene. <i>Nature Energy</i> , 2016 , 1,	62.3	703
6	Efficient and Stable Bifunctional Electrocatalysts Ni/NixMy (M = P, S) for Overall Water Splitting. <i>Advanced Functional Materials</i> , 2016 , 26, 3314-3323	15.6	690
5	2D phosphorene as a water splitting photocatalyst: fundamentals to applications. <i>Energy and Environmental Science</i> , 2016 , 9, 709-728	35.4	420
4	Water Splitting: Strongly Coupled Nafion Molecules and Ordered Porous CdS Networks for Enhanced Visible-Light Photoelectrochemical Hydrogen Evolution (Adv. Mater. 24/2016). <i>Advanced Materials</i> , 2016 , 28, 4943	24	
3	Strongly Coupled Nafion Molecules and Ordered Porous CdS Networks for Enhanced Visible-Light Photoelectrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2016 , 28, 4935-42	24	75
2	A quantitative failure assessment of ice slurry cooling of fish at sea to meet regulatory guidelines is demonstrated with Southern Bluefin Tuna (<i>Thunnus maccoyii</i>). <i>Journal of Food Engineering</i> , 2016 , 183, 58-64	6	
1	Experimental validation of a time-dependent model for chemical taste taint accumulation as geosmin (GSM) and 2-methylisoborneol (MIB) in commercial RAS farmed barramundi (<i>Lates calcarifer</i>). <i>Ecological Modelling</i> , 2016 , 340, 17-27	3	9