

Yuhai Dou

List of Publications by Year in descending order

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57
papers

5,519
citations

101496

36
h-index

128225

60
g-index

62
all docs

62
docs citations

62
times ranked

8283
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized self-assembly of scalable two-dimensional transition metal oxide nanosheets. <i>Nature Communications</i> , 2014, 5, 3813.	5.8	741
2	Coexisting Single-Atomic Fe and Ni Sites on Hierarchically Ordered Porous Carbon as a Highly Efficient ORR Electrocatalyst. <i>Advanced Materials</i> , 2020, 32, e2004670.	11.1	404
3	Recent Progress in Graphite Intercalation Compounds for Rechargeable Metal (Li, Na, K, Al)-Ion Batteries. <i>Advanced Science</i> , 2017, 4, 1700146.	5.6	390
4	Atomic Layer-by-Layer $\text{Co}_3\text{O}_4/\text{Graphene}$ Composite for High Performance Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501835.	10.2	316
5	2D Frameworks of C_2N and C_3N as New Anode Materials for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1702007.	11.1	282
6	A Yolk-Shell Structured Silicon Anode with Superior Conductivity and High Tap Density for Full Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8824-8828.	7.2	242
7	Engineering Crystallinity and Oxygen Vacancies of Co(II) Oxide Nanosheets for High Performance and Robust Rechargeable Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101239.	7.8	202
8	Approaching the activity limit of CoSe_2 for oxygen evolution via Fe doping and Co vacancy. <i>Nature Communications</i> , 2020, 11, 1664.	5.8	191
9	Fish Gill Inspired Crossflow for Efficient and Continuous Collection of Spilled Oil. <i>ACS Nano</i> , 2017, 11, 2477-2485.	7.3	186
10	Graphene-like holey Co_3O_4 nanosheets as a highly efficient catalyst for oxygen evolution reaction. <i>Nano Energy</i> , 2016, 30, 267-275.	8.2	179
11	Engineering Hierarchical Hollow Nickel Sulfide Spheres for High-Performance Sodium Storage. <i>Advanced Functional Materials</i> , 2016, 26, 7479-7485.	7.8	174
12	Two-Step Activated Carbon Cloth with Oxygen-Rich Functional Groups as a High-Performance Additive-Free Air Electrode for Flexible Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1802936.	10.2	170
13	Atomically thin non-layered nanomaterials for energy storage and conversion. <i>Chemical Society Reviews</i> , 2017, 46, 7338-7373.	18.7	162
14	In Situ Growth of $\text{Ni}_2\text{P}-\text{Cu}_3\text{P}$ Bimetallic Phosphide with Bicontinuous Structure on Self-Supported NiCuC Substrate as an Efficient Hydrogen Evolution Reaction Electrocatalyst. <i>ACS Catalysis</i> , 2019, 9, 6919-6928.	5.5	138
15	Multiangular Rod-Shaped $\text{Na}_{0.44}\text{MnO}_2$ as Cathode Materials with High Rate and Long Life for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3644-3652.	4.0	107
16	Interface Engineering of $\text{CoS}/\text{CoO}@\text{N}$ -Doped Graphene Nanocomposite for High-Performance Rechargeable Zn-Air Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 3.	14.4	95
17	Atomically Thin Materials for Next-Generation Rechargeable Batteries. <i>Chemical Reviews</i> , 2022, 122, 957-999.	23.0	87
18	2D Electrocatalysts for Converting Earth-Abundant Simple Molecules into Value-Added Commodity Chemicals: Recent Progress and Perspectives. <i>Advanced Materials</i> , 2020, 32, e1904870.	11.1	76

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19	2020 roadmap on pore materials for energy and environmental applications. Chinese Chemical Letters, 2019, 30, 2110-2122.	4.8	75
20	Robust Pseudocapacitive Sodium Cation Intercalation Induced by Cobalt Vacancies at Atomically Thin Co _{1-x} Se ₂ /Graphene Heterostructure for Sodium-Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 18830-18837.	7.2	68
21	Constructing the best symmetric full K-ion battery with the NASICON-type K ₃ V ₂ (PO ₄) ₃ . Nano Energy, 2019, 60, 432-439.	8.2	67
22	Self-Assembling Hollow Carbon Nanobeads into Double-Shell Microspheres as a Hierarchical Sulfur Host for Sustainable Room-Temperature Sodium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 20422-20428.	4.0	65
23	ODS ferritic steel engineered with bimodal grain size for high strength and ductility. Materials Letters, 2011, 65, 1672-1674.	1.3	63
24	Carbon-Coated Hierarchical SnO ₂ Hollow Spheres for Lithium Ion Batteries. Chemistry - A European Journal, 2016, 22, 5853-5857.	1.7	62
25	Electric Field and Gradient Microstructure for Cooperative Driving of Directional Motion of Underwater Oil Droplets. Advanced Functional Materials, 2016, 26, 7986-7992.	7.8	61
26	Manipulating the Architecture of Atomically Thin Transition Metal (Hydr)oxides for Enhanced Oxygen Evolution Catalysis. ACS Nano, 2018, 12, 1878-1886.	7.3	57
27	Fish-scale bio-inspired multifunctional ZnO nanostructures. NPG Asia Materials, 2015, 7, e232-e232.	3.8	56
28	Friction and wear behaviors of B ₄ C/6061Al composite. Materials & Design, 2014, 60, 669-677.	5.1	54
29	Introducing ion-transport-regulating nanochannels to lithium-sulfur batteries. Nano Energy, 2017, 33, 205-212.	8.2	54
30	Two-step self-assembly of hierarchically-ordered nanostructures. Journal of Materials Chemistry A, 2015, 3, 11688-11699.	5.2	51
31	A Hollow-Shell Structured V ₂ O ₅ Electrode-Based Symmetric Full Li-Ion Battery with Highest Capacity. Advanced Energy Materials, 2019, 9, 1900909.	10.2	51
32	Scalable and controllable fabrication of CNTs improved yolk-shelled Si anodes with advanced in operando mechanical quantification. Energy and Environmental Science, 2021, 14, 3502-3509.	15.6	45
33	Interpolation between W Dopant and Co Vacancy in CoOOH for Enhanced Oxygen Evolution Catalysis. Advanced Materials, 2022, 34, e2104667.	11.1	45
34	Atomically thin Co ₃ O ₄ nanosheet-coated stainless steel mesh with enhanced capacitive Na ⁺ storage for high-performance sodium-ion batteries. 2D Materials, 2017, 4, 015022.	2.0	44
35	Understanding of the capacity contribution of carbon in phosphorus-carbon composites for high-performance anodes in lithium ion batteries. Nano Research, 2017, 10, 1268-1281.	5.8	43
36	Mass Production and Pore Size Control of Holey Carbon Microcages. Angewandte Chemie - International Edition, 2017, 56, 13790-13794.	7.2	39

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37	Rational design of metal oxide catalysts for electrocatalytic water splitting. <i>Nanoscale</i> , 2021, 13, 20324-20353.	2.8	38
38	How Cobalt and Iron Doping Determine the Oxygen Evolution Electrocatalytic Activity of NiOOH. <i>Cell Reports Physical Science</i> , 2020, 1, 100077.	2.8	35
39	A facile way to fabricate double-shell pomegranate-like porous carbon microspheres for high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12073-12079.	5.2	30
40	Innovative processing of high-strength and low-cost ferritic steels strengthened by TiO nanoclusters. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 544, 59-69.	2.6	27
41	Confining Ultrathin 2D Superlattices in Mesoporous Hollow Spheres Renders Ultrafast and High-Capacity Na-ion Storage. <i>Advanced Energy Materials</i> , 2020, 10, 2001033.	10.2	25
42	Atomically thin mesoporous NiCo ₂ O ₄ grown on holey graphene for enhanced pseudocapacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13443-13451.	5.2	25
43	Manipulating the assembled structure of atomically thin CoSe ₂ nanomaterials for enhanced water oxidation catalysis. <i>Nano Energy</i> , 2019, 57, 371-378.	8.2	23
44	Wet-chemistry grafted active pyridinic nitrogen sites on holey graphene edges as high performance ORR electrocatalyst for Zn-Air Batteries. <i>Materials Today Energy</i> , 2019, 11, 24-29.	2.5	23
45	Manganese oxides transformed from orthorhombic phase to birnessite with enhanced electrochemical performance as supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3746-3753.	5.2	22
46	A Yolk-Shell Structured Silicon Anode with Superior Conductivity and High Tap Density for Full Lithium-ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 8916-8920.	1.6	18
47	Cation-vacancy induced Li ⁺ intercalation pseudocapacitance at atomically thin heterointerface for high capacity and high power lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 62, 281-288.	7.1	14
48	High-yielding carbon nanofibers grown on NIPS-derived porous nickel as a flexible electrode for supercapacitors. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2976-2981.	3.2	13
49	Robust Pseudocapacitive Sodium Cation Intercalation Induced by Cobalt Vacancies at Atomically Thin Co _{1-x} Se ₂ /Graphene Heterostructure for Sodium-ion Batteries. <i>Angewandte Chemie</i> , 2021, 133, 18978-18985.	1.6	12
50	The typical structural evolution of silicon anode. <i>Cell Reports Physical Science</i> , 2022, 3, 100811.	2.8	10
51	Mass Production and Pore Size Control of Holey Carbon Microcages. <i>Angewandte Chemie</i> , 2017, 129, 13978-13982.	1.6	8
52	Transition Metal (Fe, Co, Mn) Boosting the Lithium Storage of the Multishelled NiO Anode. <i>Energy Technology</i> , 2020, 8, 2000008.	1.8	7
53	Sulfur doping optimized intermediate energetics of FeCoOOH for enhanced oxygen evolution catalytic activity. <i>Cell Reports Physical Science</i> , 2021, 2, 100331.	2.8	7
54	Microstructures and mechanical properties of Fe ₁₄ Cr ₃ W ₃ Ti ₂ O ₃ steel with 1wt.% Cu addition fabricated by a new method. <i>Journal of Nuclear Materials</i> , 2011, 414, 422-425.	1.3	5

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55	Microstructures and mechanical properties of a Cu-bearing ODS steel fabricated by mechanical alloying and hot extrusion. <i>Journal of Nuclear Materials</i> , 2013, 434, 129-132.	1.3	4
56	Phosphorus and Sulfur Co-doped Cobaltous Oxide Synthesized by an Inorganic Salt-Assisted Method: Reaction Mechanism and Electrocatalytic Application. <i>ChemPlusChem</i> , 2020, 85, 1602-1611.	1.3	4
57	Directional Motion: Electric Field and Gradient Microstructure for Cooperative Driving of Directional Motion of Underwater Oil Droplets (<i>Adv. Funct. Mater.</i> 44/2016). <i>Advanced Functional Materials</i> , 2016, 26, 8148-8148.	7.8	3