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	Interpolation between W Dopant and Co Vacancy in CoOOH for Enhanced Oxygen Evolution Catalysis. Advanced Materials, 2022, 34, e2104667.	11.1	45
2	Atomically Thin Materials for Next-Generation Rechargeable Batteries. Chemical Reviews, 2022, 122, 957-999.	23.0	87
3	The typical structural evolution of silicon anode. Cell Reports Physical Science, 2022, 3, 100811.	2.8	10
4	Interface Engineering of CoS/CoO@N-Doped Graphene Nanocomposite for High-Performance Rechargeable Znâ€“Air Batteries. Nano-Micro Letters, 2021, 13, 3.	14.4	95
5	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
6	Sulfur doping optimized intermediate energetics of FeCoOOH for enhanced oxygen evolution catalytic activity. Cell Reports Physical Science, 2021, 2, 100331.	2.8	7
7	Engineering Crystallinity and Oxygen Vacancies of Co(II) Oxide Nanosheets for High Performance and Robust Rechargeable Znâ€“Air Batteries. Advanced Functional Materials, 2021, 31, 2101239.	7.8	202
8	Robust Pseudocapacitive Sodium Cation Intercalation Induced by Cobalt Vacancies at Atomically Thin Co_{1â^'x}Se₂/Graphene Heterostructure for Sodiumâ€ion Batteries. Angewandte Chemie, 2021, 133, 18978-18985.	1.6	12
9	Robust Pseudocapacitive Sodium Cation Intercalation Induced by Cobalt Vacancies at Atomically Thin Co_{1â^'x}Se₂/Graphene Heterostructure for Sodiumâ€ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 18830-18837.	7.2	68
10	Cation-vacancy induced Li+ intercalation pseudocapacitance at atomically thin heterointerface for high capacity and high power lithium-ion batteries. Journal of Energy Chemistry, 2021, 62, 281-288.	7.1	14
11	Rational design of metal oxide catalysts for electrocatalytic water splitting. Nanoscale, 2021, 13, 20324-20353.	2.8	38
12	2D Electrocatalysts for Converting Earthâ€Abundant Simple Molecules into Valueâ€Added Commodity Chemicals: Recent Progress and Perspectives. Advanced Materials, 2020, 32, e1904870.	11.1	76
13	High-yielding carbon nanofibers grown on NIPS-derived porous nickel as a flexible electrode for supercapacitors. Materials Chemistry Frontiers, 2020, 4, 2976-2981.	3.2	13
14	Confining Ultrathin 2D Superlattices in Mesoporous Hollow Spheres Renders Ultrafast and Highâ€Capacity Naâ€ion Storage. Advanced Energy Materials, 2020, 10, 2001033.	10.2	25
15	Coexisting Singleâ€Atomic Fe and Ni Sites on Hierarchically Ordered Porous Carbon as a Highly Efficient ORR Electrocatalyst. Advanced Materials, 2020, 32, e2004670.	11.1	404
16	Atomically thin mesoporous NiCo2O4 grown on holey graphene for enhanced pseudocapacitive energy storage. Journal of Materials Chemistry A, 2020, 8, 13443-13451.	5.2	25
17	Approaching the activity limit of CoSe2 for oxygen evolution via Fe doping and Co vacancy. Nature Communications, 2020, 11, 1664.	5.8	191
18	Transition Metal (Fe, Co, Mn) Boosting the Lithium Storage of the Multishelled NiO Anode. Energy Technology, 2020, 8, 2000008.	1.8	7

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19	How Cobalt and Iron Doping Determine the Oxygen Evolution Electrocatalytic Activity of NiOOH. Cell Reports Physical Science, 2020, 1, 100077.	2.8	35
20	Phosphorus and Sulfur Coâ€Doped Cobaltous Oxide Synthesized by an Inorganicâ€Saltâ€Assisted Method: Reaction Mechanism and Electrocatalytic Application. ChemPlusChem, 2020, 85, 1602-1611.	1.3	4
21	Manganese oxides transformed from orthorhombic phase to birnessite with enhanced electrochemical performance as supercapacitor electrodes. Journal of Materials Chemistry A, 2020, 8, 3746-3753.	5.2	22
22	A Hollowâ€Shell Structured V₂O₅ Electrodeâ€Based Symmetric Full Liâ€Ion Battery with Highest Capacity. Advanced Energy Materials, 2019, 9, 1900909.	10.2	51
23	In Situ Growth of Ni₂Pâ€“Cu₃P Bimetallic Phosphide with Bicontinuous Structure on Self-Supported NiCuC Substrate as an Efficient Hydrogen Evolution Reaction Electrocatalyst. ACS Catalysis, 2019, 9, 6919-6928.	5.5	138
24	A Yolkâ€“Shell Structured Silicon Anode with Superior Conductivity and High Tap Density for Full Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 8824-8828.	7.2	242
25	A Yolkâ€“Shell Structured Silicon Anode with Superior Conductivity and High Tap Density for Full Lithiumâ€Ion Batteries. Angewandte Chemie, 2019, 131, 8916-8920.	1.6	18
26	Constructing the best symmetric full K-ion battery with the NASICON-type K3V2(PO4)3. Nano Energy, 2019, 60, 432-439.	8.2	67
27	2020 roadmap on pore materials for energy and environmental applications. Chinese Chemical Letters, 2019, 30, 2110-2122.	4.8	75
28	Manipulating the assembled structure of atomically thin CoSe2 nanomaterials for enhanced water oxidation catalysis. Nano Energy, 2019, 57, 371-378.	8.2	23
29	Wet-chemistry grafted active pyridinic nitrogen sites on holey graphene edges as high performance ORR electrocatalyst for Zn-AirÂbatteries. Materials Today Energy, 2019, 11, 24-29.	2.5	23
30	Twoâ€Step Activated Carbon Cloth with Oxygenâ€Rich Functional Groups as a Highâ€Performance Additiveâ€Free Air Electrode for Flexible Zincâ€“Air Batteries. Advanced Energy Materials, 2019, 9, 1802936.	10.2	170
31	Manipulating the Architecture of Atomically Thin Transition Metal (Hydr)oxides for Enhanced Oxygen Evolution Catalysis. ACS Nano, 2018, 12, 1878-1886.	7.3	57
32	Self-Assembling Hollow Carbon Nanobeads into Double-Shell Microspheres as a Hierarchical Sulfur Host for Sustainable Room-Temperature Sodiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 20422-20428.	4.0	65
33	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
34	Introducing ion-transport-regulating nanochannels to lithium-sulfur batteries. Nano Energy, 2017, 33, 205-212.	8.2	54
35	Fish Gill Inspired Crossflow for Efficient and Continuous Collection of Spilled Oil. ACS Nano, 2017, 11, 2477-2485.	7.3	186
36	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

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37	Recent Progress in Graphite Intercalation Compounds for Rechargeable Metal (Li, Na, K, Al)â€Ion Batteries. Advanced Science, 2017, 4, 1700146.	5.6	390
38	A facile way to fabricate double-shell pomegranate-like porous carbon microspheres for high-performance Li-ion batteries. Journal of Materials Chemistry A, 2017, 5, 12073-12079.	5.2	30
39	Multiangular Rod-Shaped Na_{0.44}MnO₂ as Cathode Materials with High Rate and Long Life for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 3644-3652.	4.0	107
40	Atomically thin non-layered nanomaterials for energy storage and conversion. Chemical Society Reviews, 2017, 46, 7338-7373.	18.7	162
41	Mass Production and Pore Size Control of Holey Carbon Microcages. Angewandte Chemie, 2017, 129, 13978-13982.	1.6	8
42	Mass Production and Pore Size Control of Holey Carbon Microcages. Angewandte Chemie - International Edition, 2017, 56, 13790-13794.	7.2	39
43	2D Frameworks of C₂N and C₃N as New Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1702007.	11.1	282
44	Carbonâ€Coated Hierarchical SnO₂ Hollow Spheres for Lithium Ion Batteries. Chemistry - A European Journal, 2016, 22, 5853-5857.	1.7	62
45	Atomic Layerâ€byâ€Layer Co₃O₄/Graphene Composite for High Performance Lithiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1501835.	10.2	316
46	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
47	Engineering Hierarchical Hollow Nickel Sulfide Spheres for Highâ€Performance Sodium Storage. Advanced Functional Materials, 2016, 26, 7479-7485.	7.8	174
48	Graphene-like holey Co3O4 nanosheets as a highly efficient catalyst for oxygen evolution reaction. Nano Energy, 2016, 30, 267-275.	8.2	179
49	Directional Motion: Electric Field and Gradient Microstructure for Cooperative Driving of Directional Motion of Underwater Oil Droplets (Adv. Funct. Mater. 44/2016). Advanced Functional Materials, 2016, 26, 8148-8148.	7.8	3
50	Fish-scale bio-inspired multifunctional ZnO nanostructures. NPG Asia Materials, 2015, 7, e232-e232.	3.8	56
51	Two-step self-assembly of hierarchically-ordered nanostructures. Journal of Materials Chemistry A, 2015, 3, 11688-11699.	5.2	51
52	Friction and wear behaviors of B4C/6061Al composite. Materials & Design, 2014, 60, 669-677.	5.1	54
53	Generalized self-assembly of scalable two-dimensional transition metal oxide nanosheets. Nature Communications, 2014, 5, 3813.	5.8	741
54	Microstructures and mechanical properties of a Cu-bearing ODS steel fabricated by mechanical alloying and hot extrusion. Journal of Nuclear Materials, 2013, 434, 129-132.	1.3	4

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55	Innovative processing of high-strength and low-cost ferritic steels strengthened by Yâ€“Tiâ€“O nanoclusters. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 544, 59-69.	2.6	27
56	ODS ferritic steel engineered with bimodal grain size for high strength and ductility. Materials Letters, 2011, 65, 1672-1674.	1.3	63
57	Microstructures and mechanical properties of Feâ€“14Crâ€“3Wâ€“Tiâ€“Y2O3 steel with 1wt.% Cu addition fabricated by a new method. Journal of Nuclear Materials, 2011, 414, 422-425.	1.3	5