

Kecheng Cao

List of Publications by Year in descending order

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papers

1,164
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394421

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#	ARTICLE	IF	CITATIONS
1	Collyiform Crystalline 2D Covalent Organic Frameworks (COFs) with Quasi-3D Topologies for Rapid Adsorption. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22697-22705.	13.8	163
2	Selective solid-phase extraction of uranium by salicylideneimine-functionalized hydrothermal carbon. <i>Journal of Hazardous Materials</i> , 2012, 229-230, 321-330.	12.4	146
3	Simple small molecule carbon source strategy for synthesis of functional hydrothermal carbon: preparation of highly efficient uranium selective solid phase extractant. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1550-1559.	10.3	112
4	Bimetallic manganese-vanadium functionalized N,S-doped carbon nanotubes as efficient oxygen evolution and oxygen reduction electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119195.	20.2	76
5	Manganese Vanadium Oxide@N-Doped Reduced Graphene Oxide Composites as Oxygen Reduction and Oxygen Evolution Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44511-44517.	8.0	62
6	Atomic mechanism of metal crystal nucleus formation in a single-walled carbon nanotube. <i>Nature Chemistry</i> , 2020, 12, 921-928.	13.6	58
7	In situ preparation of nitrogen-rich and functional ultramicroporous carbonaceous COFs by microwave irradiation. <i>Microporous and Mesoporous Materials</i> , 2014, 197, 148-155.	4.4	45
8	Effective charge-discriminated group separation of metal ions under highly acidic conditions using nanodiamond-pillared graphene oxide membrane. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8051-8061.	10.3	40
9	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2100962.	19.5	39
10	Comparison of atomic scale dynamics for the middle and late transition metal nanocatalysts. <i>Nature Communications</i> , 2018, 9, 3382.	12.8	35
11	Dynamic Covalent Formation of Concave Disulfide Macrocycles Mechanically Interlocked with Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18774-18785.	13.8	35
12	Ligand-exchange mechanism: new insight into solid-phase extraction of uranium based on a combined experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7214-7223.	2.8	34
13	Imaging an unsupported metal-metal bond in dirhenium molecules at the atomic scale. <i>Science Advances</i> , 2020, 6, eaay5849.	10.3	30
14	Transition-Metal Oxides/Carbides@Carbon Nanotube Composites as Multifunctional Electrocatalysts for Challenging Oxidations and Reductions. <i>Chemistry - A European Journal</i> , 2019, 25, 11098-11104.	3.3	28
15	Strategy and mechanism for controlling the direction of defect evolution in graphene: preparation of high quality defect healed and hierarchically porous graphene. <i>Nanoscale</i> , 2014, 6, 13518-13526.	5.6	26
16	Extraction of Linear Carbon Chains Unravels the Role of the Carbon Nanotube Host. <i>ACS Nano</i> , 2018, 12, 8477-8484.	14.6	26
17	Collyiform Crystalline 2D Covalent Organic Frameworks (COFs) with Quasi-3D Topologies for Rapid Adsorption. <i>Angewandte Chemie</i> , 2020, 132, 22886-22894.	2.0	26
18	Well-defined sub-nanometer graphene ribbons synthesized inside carbon nanotubes. <i>Carbon</i> , 2021, 171, 221-229.	10.3	23

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19	Modular development of metal oxide/carbon composites for electrochemical energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13096-13102.	10.3	22
20	Top-down synthesis of polyoxometalate-like sub-nanometer molybdenum-oxo clusters as high-performance electrocatalysts. <i>Chemical Science</i> , 2020, 11, 1043-1051.	7.4	21
21	Embedding Heterostructured MnS/MnO Nanoparticles in Doped Carbonaceous Porous Framework as High-Performance Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2021, 8, 918-927.	3.4	21
22	Templated direct growth of ultra-thin double-walled carbon nanotubes. <i>Nanoscale</i> , 2018, 10, 21254-21261.	5.6	16
23	Direct Correlation of Carbon Nanotube Nucleation and Growth with the Atomic Structure of Rhenium Nanocatalysts Stimulated and Imaged by the Electron Beam. <i>Nano Letters</i> , 2018, 18, 6334-6339.	9.1	14
24	Covalent Organic Framework Membrane with Turing Structures for Deacidification of Highly Acidic Solutions. <i>Advanced Functional Materials</i> , 2022, 32, 2108178.	14.9	14
25	Chaos to order: an eco-friendly way to synthesize graphene quantum dots. <i>RSC Advances</i> , 2014, 4, 43160-43165.	3.6	10
26	Surface-enhanced infrared attenuated total reflection spectroscopy via carbon nanodots for small molecules in aqueous solution. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 1863-1871.	3.7	10
27	Mechanische Verzahnung von einwandigen Kohlenstoffnanoröhren durch dynamisch-kovalente Bildung von konkaven Disulfidmakrozyklen. <i>Angewandte Chemie</i> , 2020, 132, 18933-18945.	2.0	8
28	Carbon nanotube-dependent synthesis of armchair graphene nanoribbons. <i>Nano Research</i> , 2022, 15, 1709-1714.	10.4	8
29	Isotopic Labelling of Confined Carbyne. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9897-9901.	13.8	6
30	Selective Chemical Enhancement via Graphene Oxide in Infrared Attenuated Total Reflection Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25286-25293.	3.1	5
31	Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22922-22927.	13.8	3
32	Unravelling the Complete Raman Response of Graphene Nanoribbons Discerning the Signature of Edge Passivation. <i>Small Methods</i> , 2022, 6, .	8.6	2
33	Insight Into the Influence of Ligand Conformation on Extraction Behaviour of Uranium: A Combined Theoretical and Experimental Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 9603-9611.	0.9	0
34	Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. <i>Angewandte Chemie</i> , 2020, 132, 23122-23127.	2.0	0
35	Innentitelbild: Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice (Angew. Chem. 51/2020). <i>Angewandte Chemie</i> , 2020, 132, 22994-22994.	2.0	0
36	Isotopic Labelling of Confined Carbyne. <i>Angewandte Chemie</i> , 2021, 133, 9985-9989.	2.0	0

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37	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery (Adv. Energy Mater. 35/2021). Advanced Energy Materials, 2021, 11, 2170136.	19.5	0