Kecheng Cao

List of Publications by Year
in descending order

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Version: 2024-02-01

		393982	414034
37	1,164	19	32
papers	citations	h-index	g-index

39	39	39	1573
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Colyliform Crystalline 2D Covalent Organic Frameworks (COFs) with Quasiâ€3D Topologies for Rapid I₂ Adsorption. Angewandte Chemie - International Edition, 2020, 59, 22697-22705.	7.2	163
2	Selective solid-phase extraction of uranium by salicylideneimine-functionalized hydrothermal carbon. Journal of Hazardous Materials, 2012, 229-230, 321-330.	6.5	146
3	Simple small molecule carbon source strategy for synthesis of functional hydrothermal carbon: preparation of highly efficient uranium selective solid phase extractant. Journal of Materials Chemistry A, 2014, 2, 1550-1559.	5.2	112
4	Bimetallic manganese-vanadium functionalized N,S-doped carbon nanotubes as efficient oxygen evolution and oxygen reduction electrocatalysts. Applied Catalysis B: Environmental, 2020, 277, 119195.	10.8	76
5	Manganese Vanadium Oxideâ€“N-Doped Reduced Graphene Oxide Composites as Oxygen Reduction and Oxygen Evolution Electrocatalysts. ACS Applied Materials & Interfaces, 2018, 10, 44511-44517.	4.0	62
6	Atomic mechanism of metal crystal nucleus formation in a single-walled carbon nanotube. Nature Chemistry, 2020, 12, 921-928.	6.6	58
7	In situ preparation of nitrogen-rich and functional ultramicroporous carbonaceous COFs by â€œsegregatedâ€•microwave irradiation. Microporous and Mesoporous Materials, 2014, 197, 148-155.	2.2	45
8	Effective charge-discriminated group separation of metal ions under highly acidic conditions using nanodiamond-pillared graphene oxide membrane. Journal of Materials Chemistry A, 2017, 5, 8051-8061.	5.2	40
9	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Znâ€Metal Battery. Advanced Energy Materials, 2021, 11, 2100962.	10.2	39
10	Comparison of atomic scale dynamics for the middle and late transition metal nanocatalysts. Nature Communications, 2018, 9, 3382.	5.8	35
11	Dynamic Covalent Formation of Concave Disulfide Macrocycles Mechanically Interlocked with Singleâ€Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2020, 59, 18774-18785.	7.2	35
12	Ligand-exchange mechanism: new insight into solid-phase extraction of uranium based on a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2015, 17, 7214-7223.	1.3	34
13	Imaging an unsupported metalâ€“metal bond in dirhenium molecules at the atomic scale. Science Advances, 2020, 6, eaay5849.	4.7	30
14	Transitionâ€Metal Oxides/Carbides@Carbon Nanotube Composites as Multifunctional Electrocatalysts for Challenging Oxidations and Reductions. Chemistry - A European Journal, 2019, 25, 11098-11104.	1.7	28
15	Strategy and mechanism for controlling the direction of defect evolution in graphene: preparation of high quality defect healed and hierarchically porous graphene. Nanoscale, 2014, 6, 13518-13526.	2.8	26
16	Extraction of Linear Carbon Chains Unravels the Role of the Carbon Nanotube Host. ACS Nano, 2018, 12, 8477-8484.	7.3	26
17	Colyliform Crystalline 2D Covalent Organic Frameworks (COFs) with Quasiâ€3D Topologies for Rapid I₂ Adsorption. Angewandte Chemie, 2020, 132, 22886-22894.	1.6	26
18	Well-defined sub-nanometer graphene ribbons synthesized inside carbon nanotubes. Carbon, 2021, 171, 221-229.	5.4	23

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19	Modular development of metal oxide/carbon composites for electrochemical energy conversion and storage. Journal of Materials Chemistry A, 2019, 7, 13096-13102.	5.2	22
20	Top-down synthesis of polyoxometalate-like sub-nanometer molybdenum-oxo clusters as high-performance electrocatalysts. Chemical Science, 2020, 11, 1043-1051.	3.7	21
21	Embedding Heterostructured Î±â€MnS/MnO Nanoparticles in Sâ€Doped Carbonaceous Porous Framework as Highâ€Performance Anode for Lithiumâ€Ion Batteries. ChemElectroChem, 2021, 8, 918-927.	1.7	21
22	Templated direct growth of ultra-thin double-walled carbon nanotubes. Nanoscale, 2018, 10, 21254-21261.	2.8	16
23	Direct Correlation of Carbon Nanotube Nucleation and Growth with the Atomic Structure of Rhenium Nanocatalysts Stimulated and Imaged by the Electron Beam. Nano Letters, 2018, 18, 6334-6339.	4.5	14
24	Covalent Organic Framework Membrane with Turing Structures for Deacidification of Highly Acidic Solutions. Advanced Functional Materials, 2022, 32, 2108178.	7.8	14
25	Chaos to order: an eco-friendly way to synthesize graphene quantum dots. RSC Advances, 2014, 4, 43160-43165.	1.7	10
26	Surface-enhanced infrared attenuated total reflection spectroscopy via carbon nanodots for small molecules in aqueous solution. Analytical and Bioanalytical Chemistry, 2019, 411, 1863-1871.	1.9	10
27	Mechanische Verzahnung von einwandigen KohlenstoffnanorÃ¶hren durch dynamischâ€kovalente Bildung von konkaven Disulfidmakrozyklen. Angewandte Chemie, 2020, 132, 18933-18945.	1.6	8
28	Carbon nanotube-dependent synthesis of armchair graphene nanoribbons. Nano Research, 2022, 15, 1709-1714.	5.8	8
29	Isotopic Labelling of Confined Carbyne. Angewandte Chemie - International Edition, 2021, 60, 9897-9901.	7.2	6
30	Selective Chemical Enhancement via Graphene Oxide in Infrared Attenuated Total Reflection Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 25286-25293.	1.5	5
31	Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. Angewandte Chemie - International Edition, 2020, 59, 22922-22927.	7.2	3
32	Unravelling the Complete Raman Response of Graphene Nanoribbons Discerning the Signature of Edge Passivation. Small Methods, 2022, 6, .	4.6	2
33	Insight Into the Influence of Ligand Conformation on Extraction Behaviour of Uranium: A Combined Theoretical and Experimental Study. Journal of Nanoscience and Nanotechnology, 2016, 16, 9603-9611.	0.9	0
34	Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. Angewandte Chemie, 2020, 132, 23122-23127.	1.6	0
35	Innentitelbild: Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice (Angew. Chem. 51/2020). Angewandte Chemie, 2020, 132, 22994-22994.	1.6	0
36	Isotopic Labelling of Confined Carbyne. Angewandte Chemie, 2021, 133, 9985-9989.	1.6	0

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37	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Znâ€Metal Battery (Adv. Energy Mater. 35/2021). Advanced Energy Materials, 2021, 11, 2170136.	10.2	0