

# Kecheng Cao

## List of Publications by Citations

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36  
papers

682  
citations

15  
h-index

25  
g-index

39  
ext. papers

916  
ext. citations

10.4  
avg, IF

4.02  
L-index

#	Paper	IF	Citations
36	Selective solid-phase extraction of uranium by salicylideneimine-functionalized hydrothermal carbon. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 229-230, 321-30	12.8	127
35	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> , <b>2014</b> , 2, 1550-1559	13	84
34	Colyliform Crystalline 2D Covalent Organic Frameworks (COFs) with Quasi-3D Topologies for Rapid Adsorption. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22697-22705	16.4	53
33	Manganese Vanadium Oxide-N-Doped Reduced Graphene Oxide Composites as Oxygen Reduction and Oxygen Evolution Electrocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44511-44517	9.5	37
32	Bimetallic manganese-vanadium functionalized N,S-doped carbon nanotubes as efficient oxygen evolution and oxygen reduction electrocatalysts. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 277, 119195	21.8	36
31	In situ preparation of nitrogen-rich and functional ultramicroporous carbonaceous COFs by Segregated Microwave irradiation. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 197, 148-155	5.3	34
30	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> , <b>2015</b> , 17, 7214-23	3.6	32
29	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> , <b>2017</b> , 5, 8051-8061	13	29
28	Atomic mechanism of metal crystal nucleus formation in a single-walled carbon nanotube. <i>Nature Chemistry</i> , <b>2020</b> , 12, 921-928	17.6	25
27	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> , <b>2014</b> , 6, 13518-26	7.7	23
26	Extraction of Linear Carbon Chains Unravels the Role of the Carbon Nanotube Host. <i>ACS Nano</i> , <b>2018</b> , 12, 8477-8484	16.7	22
25	Comparison of atomic scale dynamics for the middle and late transition metal nanocatalysts. <i>Nature Communications</i> , <b>2018</b> , 9, 3382	17.4	20
24	Transition-Metal Oxides/Carbides@Carbon Nanotube Composites as Multifunctional Electrocatalysts for Challenging Oxidations and Reductions. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 11098-11104	4.8	19
23	Modular development of metal oxide/carbon composites for electrochemical energy conversion and storage. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13096-13102	13	16
22	Imaging an unsupported metal-metal bond in dirhenium molecules at the atomic scale. <i>Science Advances</i> , <b>2020</b> , 6, eaay5849	14.3	15
21	Top-down synthesis of polyoxometalate-like sub-nanometer molybdenum-oxo clusters as high-performance electrocatalysts. <i>Chemical Science</i> , <b>2019</b> , 11, 1043-1051	9.4	13
20	Templated direct growth of ultra-thin double-walled carbon nanotubes. <i>Nanoscale</i> , <b>2018</b> , 10, 21254-21261	17	12

19	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> , <b>2018</b> , 18, 6334-6339	11.5	12
18	Dynamic Covalent Formation of Concave Disulfide Macrocycles Mechanically Interlocked with Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 18774-18785	16.4	10
17	Colyiform Crystalline 2D Covalent Organic Frameworks (COFs) with Quasi-3D Topologies for Rapid I2 Adsorption. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 22886-22894	3.6	10
16	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100962	21.8	9
15	Embedding Heterostructured MnS/MnO Nanoparticles in S-Doped Carbonaceous Porous Framework as High-Performance Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2021</b> , 8, 918-927	4.3	8
14	Chaos to order: an eco-friendly way to synthesize graphene quantum dots. <i>RSC Advances</i> , <b>2014</b> , 4, 43160-43165	3.7	7
13	Surface-enhanced infrared attenuated total reflection spectroscopy via carbon nanodots for small molecules in aqueous solution. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 1863-1871	4.4	7
12	Well-defined sub-nanometer graphene ribbons synthesized inside carbon nanotubes. <i>Carbon</i> , <b>2021</b> , 171, 221-229	10.4	7
11	Covalent Organic Framework Membrane with Turing Structures for Deacidification of Highly Acidic Solutions. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2108178	15.6	4
10	Selective Chemical Enhancement via Graphene Oxide in Infrared Attenuated Total Reflection Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 25286-25293	3.8	3
9	Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22922-22927	16.4	3
8	Mechanische Verzahnung von einwandigen Kohlenstoffnanoröhren durch dynamisch-kovalente Bildung von konkaven Disulfidmakrozyklen. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 18933-18945	3.6	2
7	Isotopic Labelling of Confined Carbyne. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 9897-9901	16.4	1
6	Carbon nanotube-dependent synthesis of armchair graphene nanoribbons. <i>Nano Research</i> , <b>2016</b> , 9, 1000-1005	10	1
5	Atomic Scale in-situ Studies of Catalytic Reactions between Iron Clusters and Single-walled Carbon Nanotubes <b>2016</b> , 492-493		
4	Innentitelbild: Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice (Angew. Chem. 51/2020). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 22994-22994	3.6	
3	Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 23122-23127	3.6	
2	Isotopic Labelling of Confined Carbyne. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9985-9989	3.6	

- 1 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 <sup>21.8</sup>