Kecheng Cao

List of Publications by Year in Descending Order

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	Well-defined sub-nanometer graphene ribbons synthesized inside carbon nanotubes. *Carbon*, **2021**, 171, 221-229	10.4	7
35	Embedding Heterostructured ꞮMnS/MnO Nanoparticles in S-Doped Carbonaceous Porous Framework as High-Performance Anode for Lithium-Ion Batteries. *ChemElectroChem*, **2021**, 8, 918-927	4.3	8
34	Isotopic Labelling of Confined Carbyne. *Angewandte Chemie - International Edition*, **2021**, 60, 9897-9901	16.4	1
33	Isotopic Labelling of Confined Carbyne. *Angewandte Chemie*, **2021**, 133, 9985-9989	3.6	
32	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery. *Advanced Energy Materials*, **2021**, 11, 2100962	21.8	9
31	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	21.8	
30	Innentitelbild: Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice (Angew. Chem. 51/2020). *Angewandte Chemie*, **2020**, 132, 22994-22994	3.6	
29	Bimetallic manganese-vanadium functionalized N,S-doped carbon nanotubes as efficient oxygen evolution and oxygen reduction electrocatalysts. *Applied Catalysis B: Environmental*, **2020**, 277, 119195	21.8	36
28	Dynamic Covalent Formation of Concave Disulfide Macrocycles Mechanically Interlocked with Single-Walled Carbon Nanotubes. *Angewandte Chemie - International Edition*, **2020**, 59, 18774-18785	16.4	10
27	Mechanische Verzahnung von einwandigen KohlenstoffnanorꞮren durch dynamisch-kovalente Bildung von konkaven Disulfidmakrozyklen. *Angewandte Chemie*, **2020**, 132, 18933-18945	3.6	2
26	Imaging an unsupported metal-metal bond in dirhenium molecules at the atomic scale. *Science Advances*, **2020**, 6, eaay5849	14.3	15
25	Colyliform Crystalline 2D Covalent Organic Frameworks (COFs) with Quasi-3D Topologies for Rapid I2 Adsorption. *Angewandte Chemie*, **2020**, 132, 22886-22894	3.6	10
24	Colyliform Crystalline 2D Covalent Organic Frameworks (COFs) with Quasi-3D Topologies for Rapid I Adsorption. *Angewandte Chemie - International Edition*, **2020**, 59, 22697-22705	16.4	53
23	Atomic mechanism of metal crystal nucleus formation in a single-walled carbon nanotube. *Nature Chemistry*, **2020**, 12, 921-928	17.6	25
22	Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. *Angewandte Chemie*, **2020**, 132, 23122-23127	3.6	
21	Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. *Angewandte Chemie - International Edition*, **2020**, 59, 22922-22927	16.4	3
20	Selective Chemical Enhancement via Graphene Oxide in Infrared Attenuated Total Reflection Spectroscopy. *Journal of Physical Chemistry C*, **2019**, 123, 25286-25293	3.8	3

19	Transition-Metal Oxides/Carbides@Carbon Nanotube Composites as Multifunctional Electrocatalysts for Challenging Oxidations and Reductions. *Chemistry - A European Journal*, **2019**, 25, 11098-11104	4.8	19
18	Modular development of metal oxide/carbon composites for electrochemical energy conversion and storage. *Journal of Materials Chemistry A*, **2019**, 7, 13096-13102	13	16
17	Top-down synthesis of polyoxometalate-like sub-nanometer molybdenum-oxo clusters as high-performance electrocatalysts. *Chemical Science*, **2019**, 11, 1043-1051	9.4	13
16	Surface-enhanced infrared attenuated total reflection spectroscopy via carbon nanodots for small molecules in aqueous solution. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 1863-1871	4.4	7
15	Extraction of Linear Carbon Chains Unravels the Role of the Carbon Nanotube Host. *ACS Nano*, **2018**, 12, 8477-8484	16.7	22
14	Comparison of atomic scale dynamics for the middle and late transition metal nanocatalysts. *Nature Communications*, **2018**, 9, 3382	17.4	20
13	Templated direct growth of ultra-thin double-walled carbon nanotubes. *Nanoscale*, **2018**, 10, 21254-21261	7.7	12
12	Manganese Vanadium Oxide-N-Doped Reduced Graphene Oxide Composites as Oxygen Reduction and Oxygen Evolution Electrocatalysts. *ACS Applied Materials & Interfaces*, **2018**, 10, 44511-44517	9.5	37
11	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	11.5	12
10	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	13	29
9	Atomic Scale in-situ Studies of Catalytic Reactions between Iron Clusters and Single-walled Carbon Nanotubes **2016**, 492-493		
8	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, 7214-23	3.6	32
7	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	13	84
6	Chaos to order: an eco-friendly way to synthesize graphene quantum dots. *RSC Advances*, **2014**, 4, 43160-43165	3.7	7
5	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, 13518-26	7.7	23
4	In situ preparation of nitrogen-rich and functional ultramicroporous carbonaceous COFs by segregated microwave irradiation. *Microporous and Mesoporous Materials*, **2014**, 197, 148-155	5.3	34
3	Selective solid-phase extraction of uranium by salicylideneimine-functionalized hydrothermal carbon. *Journal of Hazardous Materials*, **2012**, 229-230, 321-30	12.8	127
2	Covalent Organic Framework Membrane with Turing Structures for Deacidification of Highly Acidic Solutions. *Advanced Functional Materials*,2108178	15.6	4

1 Carbon nanotube-dependent synthesis of armchair graphene nanoribbons. *Nano Research*,1 10 1