# Kecheng Cao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5832144/publications.pdf

Version: 2024-02-01

| | | 394421 | 414414 |
|---|---|---|---|
| 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 | Carbon nanotube-dependent synthesis of armchair graphene nanoribbons. Nano Research, 2022, 15, 1709-1714. | 10.4 | 8 |
| 2 | Covalent Organic Framework Membrane with Turing Structures for Deacidification of Highly Acidic Solutions. Advanced Functional Materials, 2022, 32, 2108178. | 14.9 | 14 |
| 3 | Unravelling the Complete Raman Response of Graphene Nanoribbons Discerning the Signature of Edge Passivation. Small Methods, 2022, 6, . | 8.6 | 2 |
| 4 | Well-defined sub-nanometer graphene ribbons synthesized inside carbon nanotubes. Carbon, 2021, 171, 221-229. | 10.3 | 23 |
| 5 | 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. | 3.4 | 21 |
| 6 | Isotopic Labelling of Confined Carbyne. Angewandte Chemie - International Edition, 2021, 60, 9897-9901. | 13.8 | 6 |
| 7 | Isotopic Labelling of Confined Carbyne. Angewandte Chemie, 2021, 133, 9985-9989. | 2.0 | 0 |
| 8 | Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Znâ€Metal Battery. Advanced Energy Materials, 2021, 11, 2100962. | 19.5 | 39 |
| 9 | 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. | 19.5 | 0 |
| 10 | Top-down synthesis of polyoxometalate-like sub-nanometer molybdenum-oxo clusters as high-performance electrocatalysts. Chemical Science, 2020, 11, 1043-1051. | 7.4 | 21 |
| 11 | Colyliform Crystalline 2D Covalent Organic Frameworks (COFs) with Quasiâ€3D Topologies for Rapid I<sub>2</sub> Adsorption. Angewandte Chemie, 2020, 132, 22886-22894. | 2.0 | 26 |
| 12 | Colyliform Crystalline 2D Covalent Organic Frameworks (COFs) with Quasiâ€3D Topologies for Rapid I<sub>2</sub> Adsorption. Angewandte Chemie - International Edition, 2020, 59, 22697-22705. | 13.8 | 163 |
| 13 | Atomic mechanism of metal crystal nucleus formation in a single-walled carbon nanotube. Nature Chemistry, 2020, 12, 921-928. | 13.6 | 58 |
| 14 | Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. Angewandte Chemie, 2020, 132, 23122-23127. | 2.0 | 0 |
| 15 | Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. Angewandte Chemie - International Edition, 2020, 59, 22922-22927. | 13.8 | 3 |
| 16 | Innentitelbild: Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice (Angew. Chem. 51/2020). Angewandte Chemie, 2020, 132, 22994-22994. | 2.0 | 0 |
| 17 | Bimetallic manganese-vanadium functionalized N,S-doped carbon nanotubes as efficient oxygen evolution and oxygen reduction electrocatalysts. Applied Catalysis B: Environmental, 2020, 277, 119195. | 20.2 | 76 |
| 18 | Dynamic Covalent Formation of Concave Disulfide Macrocycles Mechanically Interlocked with Singleâ€Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2020, 59, 18774-18785. | 13.8 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Mechanische Verzahnung von einwandigen KohlenstoffnanorÃ¶hren durch dynamischâ€kovalente Bildung von konkaven Disulfidmakrozyklen. Angewandte Chemie, 2020, 132, 18933-18945. | 2.0 | 8 |
| 20 | Imaging an unsupported metalâ€“metal bond in dirhenium molecules at the atomic scale. Science Advances, 2020, 6, eaay5849. | 10.3 | 30 |
| 21 | Selective Chemical Enhancement via Graphene Oxide in Infrared Attenuated Total Reflection Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 25286-25293. | 3.1 | 5 |
| 22 | Transitionâ€Metal Oxides/Carbides@Carbon Nanotube Composites as Multifunctional Electrocatalysts for Challenging Oxidations and Reductions. Chemistry - A European Journal, 2019, 25, 11098-11104. | 3.3 | 28 |
| 23 | Modular development of metal oxide/carbon composites for electrochemical energy conversion and storage. Journal of Materials Chemistry A, 2019, 7, 13096-13102. | 10.3 | 22 |
| 24 | Surface-enhanced infrared attenuated total reflection spectroscopy via carbon nanodots for small molecules in aqueous solution. Analytical and Bioanalytical Chemistry, 2019, 411, 1863-1871. | 3.7 | 10 |
| 25 | Templated direct growth of ultra-thin double-walled carbon nanotubes. Nanoscale, 2018, 10, 21254-21261. | 5.6 | 16 |
| 26 | Manganese Vanadium Oxideâ€“N-Doped Reduced Graphene Oxide Composites as Oxygen Reduction and Oxygen Evolution Electrocatalysts. ACS Applied Materials & Interfaces, 2018, 10, 44511-44517. | 8.0 | 62 |
| 27 | 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. | 9.1 | 14 |
| 28 | Extraction of Linear Carbon Chains Unravels the Role of the Carbon Nanotube Host. ACS Nano, 2018, 12, 8477-8484. | 14.6 | 26 |
| 29 | Comparison of atomic scale dynamics for the middle and late transition metal nanocatalysts. Nature Communications, 2018, 9, 3382. | 12.8 | 35 |
| 30 | 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. | 10.3 | 40 |
| 31 | 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 |
| 32 | 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. | 2.8 | 34 |
| 33 | 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. | 10.3 | 112 |
| 34 | Chaos to order: an eco-friendly way to synthesize graphene quantum dots. RSC Advances, 2014, 4, 43160-43165. | 3.6 | 10 |
| 35 | 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. | 5.6 | 26 |
| 36 | In situ preparation of nitrogen-rich and functional ultramicroporous carbonaceous COFs by â€œsegregatedâ€•microwave irradiation. Microporous and Mesoporous Materials, 2014, 197, 148-155. | 4.4 | 45 |

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|---|---|---|---|
| 37 | Selective solid-phase extraction of uranium by salicylideneimine-functionalized hydrothermal carbon. Journal of Hazardous Materials, 2012, 229-230, 321-330. | 12.4 | 146 |