# Dongyuan Zhao

List of Publications by Year
in descending order



| 694 | 101,629 | 113 | 293 |
|---|---|---|---|
| papers | citations | 163 h-index | 292 g-index |

| 746 | 746 | 746 | 61120 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 2D mesoporous materials. National Science Review, 2022, 9, nwab108. | 4.6 | 27 |
| 2 | Methanol Steam Reforming over ZnO/ZnZrOx: Performance Enhanced with a Cooperative Effect. ChemCatChem, 2022, 14, . | 1.8 | 5 |
| 3 | Coreâ€Shell Structured Microâ€Nanomotors: Construction, Shell Functionalization, Applications, and Perspectives. Small, 2022, 18, e2102887. | 5.2 | 16 |
| 4 | Hierarchically Porous Silica Membrane as Separator for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, e2107957. | 11.1 | 59 |
| 5 | Highly efficient (200) oriented MAPbI3 perovskite solar cells. Chemical Engineering Journal, 2022, 433, 133845. | 6.6 | 21 |
| 6 | 2D materials: a wonderland for physical science. National Science Review, 2022, 9, nwab202. | 4.6 | 1 |
| 7 | Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2022, 144, 2208-2217. | 6.6 | 103 |
| 8 | Kineticsâ€Regulated Interfacial Selective Superassembly of Asymmetric Smart Nanovehicles with Tailored Topological Hollow Architectures. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 20 |
| 9 | Making MXenes more energetic in aqueous battery. Matter, 2022, 5, 8-10. | 5.0 | 36 |
| 10 | Kinetics-Controlled Super-Assembly of Asymmetric Porous and Hollow Carbon Nanoparticles as Light-Sensitive Smart Nanovehicles. Journal of the American Chemical Society, 2022, 144, 1634-1646. | 6.6 | 64 |
| 11 | Highly stable hybrid single-micelle: a universal nanocarrier for hydrophobic bioimaging agents. Nano Research, 2022, 15, 4582-4589. | 5.8 | 6 |
| 12 | Interfacial Assembly of Functional Mesoporous Carbonâ€Based Materials into Films for Batteries and Electrocatalysis. Advanced Materials Interfaces, 2022, 9, . | 1.9 | 13 |
| 13 | Enzyme-Based Mesoporous Nanomotors with Near-Infrared Optical Brakes. Journal of the American Chemical Society, 2022, 144, 3892-3901. | 6.6 | 70 |
| 14 | Versatile Synthesis of Mesoporous Crystalline TiO<sub>2</sub> Materials by Monomicelle Assembly. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 21 |
| 15 | InnenrÃ¼cktitelbild: Kineticsâ€Regulated Interfacial Selective Superassembly of Asymmetric Smart Nanovehicles with Tailored Topological Hollow Architectures (Angew. Chem. 12/2022). Angewandte Chemie, 2022, 134, . | 1.6 | 0 |
| 16 | Gradient Hierarchically Porous Structure for Rapid Capillary-Assisted Catalysis. Journal of the American Chemical Society, 2022, 144, 6091-6099. | 6.6 | 38 |
| 17 | Functional Ordered Mesoporous Materials: Present and Future. Nano Letters, 2022, 22, 3177-3179. | 4.5 | 36 |
| 18 | Superassembly of Surface-Enriched Ru Nanoclusters from Trappingâ€“Bonding Strategy for Efficient Hydrogen Evolution. ACS Nano, 2022, 16, 7993-8004. | 7.3 | 54 |

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| 19 | Soft Patch Interface-Oriented Superassembly of Complex Hollow Nanoarchitectures for Smart Dual-Responsive Nanospacecrafts. Journal of the American Chemical Society, 2022, 144, 7778-7789. | 6.6 | 25 |
| 20 | Synthesis of Ni/NiO@MoO<sub>3â”<sub><sub>x</sub> Composite Nanoarrays for High Current Density Hydrogen Evolution Reaction. Advanced Energy Materials, 2022, 12, . | 10.2 | 45 |
| 21 | Modular super-assembly of hierarchical superstructures from monomicelle building blocks. Science Advances, 2022, 8, eabo0283. | 4.7 | 23 |
| 22 | Hierarchical Confinement Effect with Zincophilic and Spatial Traps Stabilized Zn-Based Aqueous Battery. Nano Letters, 2022, 22, 4223-4231. | 4.5 | 99 |
| 23 | Unusual Mesoporous Titanium Niobium Oxides Realizing Sodiumâ€Ion Batteries Operated at â”40ÂÂ°C. Advanced Materials, 2022, 34, e2202873. | 11.1 | 28 |
| 24 | Constructing Unique Mesoporous Carbon Superstructures via Monomicelle Interface Confined Assembly. Journal of the American Chemical Society, 2022, 144, 11767-11777. | 6.6 | 41 |
| 25 | Visibleâ€Light Responsive TiO<sub>2</sub>â€Based Materials for Efficient Solar Energy Utilization. Advanced Energy Materials, 2021, 11, 2003303. | 10.2 | 118 |
| 26 | Monodisperse Ultrahigh Nitrogenâ€Containing Mesoporous Carbon Nanospheres from Melamineâ€Formaldehyde Resin. Small Methods, 2021, 5, e2001137. | 4.6 | 58 |
| 27 | NIRâ€II Jâ€Aggregates Labelled Mesoporous Implant for Imagingâ€Guided Osteosynthesis with Minimal Invasion. Advanced Functional Materials, 2021, 31, 2100656. | 7.8 | 14 |
| 28 | Membrane Interactions of Virus-like Mesoporous Silica Nanoparticles. ACS Nano, 2021, 15, 6787-6800. | 7.3 | 59 |
| 29 | Ligand-Mediated Spatially Controllable Superassembly of Asymmetric Hollow Nanotadpoles with Fine-Tunable Cavity as Smart H<sub>2</sub>O<sub>2</sub>-Sensitive Nanoswimmers. ACS Nano, 2021, 15, 11451-11460. | 7.3 | 24 |
| 30 | General Synthesis of Ultrafine Monodispersed Hybrid Nanoparticles from Highly Stable Monomicelles. Advanced Materials, 2021, 33, e2100820. | 11.1 | 30 |
| 31 | Precisely Controlled Vertical Alignment in Mesostructured Carbon Thin Films for Efficient Electrochemical Sensing. ACS Nano, 2021, 15, 7713-7721. | 7.3 | 28 |
| 32 | Sequential Superassembly of Nanofiber Arrays to Carbonaceous Ordered Mesoporous Nanowires and Their Heterostructure Membranes for Osmotic Energy Conversion. Journal of the American Chemical Society, 2021, 143, 6922-6932. | 6.6 | 61 |
| 33 | Programmable synthesis of radially gradient-structured mesoporous carbon nanospheres with tunable core-shell architectures. CheM, 2021, 7, 1020-1032. | 5.8 | 77 |
| 34 | Recent advances in TiO<sub>2</sub>â€based catalysts for N<sub>2</sub> reduction reaction. SusMat, 2021, 1, 174-193. | 7.8 | 50 |
| 35 | Inorganic-organic competitive coating strategy derived uniform hollow gradient-structured ferroferric oxide-carbon nanospheres for ultra-fast and long-term lithium-ion battery. Nature Communications, 2021, 12, 2973. | 5.8 | 62 |
| 36 | X-ray-activated persistent luminescence nanomaterials for NIR-II imaging. Nature Nanotechnology, 2021, 16, 1011-1018. | 15.6 | 335 |

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| 37 | Imparting multi-functionality to covalent organic framework nanoparticles by the dual-ligand assistant encapsulation strategy. Nature Communications, 2021, 12, 4556. | 5.8 | 62 |
| 38 | Streamlined Mesoporous Silica Nanoparticles with Tunable Curvature from Interfacial Dynamic-Migration Strategy for Nanomotors. Nano Letters, 2021, 21, 6071-6079. | 4.5 | 24 |
| 39 | A hybrid erbium(III)â€“bacteriochlorin near-infrared probe for multiplexed biomedical imaging. Nature Materials, 2021, 20, 1571-1578. | 13.3 | 138 |
| 40 | Functional mesoporous materials. Nano Research, 2021, 14, 2888-2890. | 5.8 | 0 |
| 41 | Precisely Designed Mesoscopic Titania for High-Volumetric-Density Pseudocapacitance. Journal of the American Chemical Society, 2021, 143, 14097-14105. | 6.6 | 30 |
| 42 | Near-infrared manipulation of multiple neuronal populations via trichromatic upconversion. Nature Communications, 2021, 12, 5662. | 5.8 | 70 |
| 43 | Sulfur-Based Aqueous Batteries: Electrochemistry and Strategies. Journal of the American Chemical Society, 2021, 143, 15475-15489. | 6.6 | 148 |
| 44 | Quasi-solid-state self-assembly of 1D-branched ZnSe/ZnS quantum rods into parallel monorail-like continuous films for solar devices. Nano Energy, 2021, 89, 106348. | 8.2 | 6 |
| 45 | Synthesis of a durable and efficient superhydrophobic copper mesh coated by organosilica nano/microstructures for separating oil from water. Surfaces and Interfaces, 2021, 27, 101464. | 1.5 | 4 |
| 46 | Quantized doping of CdS quantum dots with twelve gold atoms. Chemical Communications, 2021, 57, 6448-6451. | 2.2 | 3 |
| 47 | Manipulating atomic defects in plasmonic vanadium dioxide for superior solar and thermal management. Materials Horizons, 2021, 8, 1700-1710. | 6.4 | 13 |
| 48 | Recent Progress of Porous Materials in Lithiumâ€Metal Batteries. Small Structures, 2021, 2, 2000118. | 6.9 | 61 |
| 49 | Interfacial Assembly and Applications of Functional Mesoporous Materials. Chemical Reviews, 2021, 121, 14349-14429. | 23.0 | 151 |
| 50 | Laser Cladding Induced Spherical Graphitic Phases by Super-Assembly of Graphene-Like Microstructures and the Antifriction Behavior. ACS Central Science, 2021, 7, 318-326. | 5.3 | 8 |
| 51 | Spiral self-assembly of lamellar micelles into multi-shelled hollow nanospheres with unique chiral architecture. Science Advances, 2021, 7, eabi7403. | 4.7 | 54 |
| 52 | Interfacial Assembly of Mesoporous Silicaâ€Based Optical Heterostructures for Sensing Applications. Advanced Functional Materials, 2020, 30, 1906950. | 7.8 | 62 |
| 53 | Sequential Chemistry Toward Coreâ€“Shell Structured Metal Sulfides as Stable and Highly Efficient Visibleâ€Light Photocatalysts. Angewandte Chemie - International Edition, 2020, 59, 3287-3293. | 7.2 | 80 |
| 54 | Sequential Chemistry Toward Coreâ€“Shell Structured Metal Sulfides as Stable and Highly Efficient Visibleâ€Light Photocatalysts. Angewandte Chemie, 2020, 132, 3313-3319. | 1.6 | 16 |

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| 55 | Three-Dimensional Hierarchical Porous Nanotubes Derived from Metal-Organic Frameworks for Highly Efficient Overall Water Splitting. IScience, 2020, 23, 100761. | 1.9 | 26 |
| 56 | Synthesis of orthogonally assembled 3D cross-stacked metal oxide semiconducting nanowires. Nature Materials, 2020, 19, 203-211. | 13.3 | 172 |
| 57 | Interfacial Assembly Directed Unique Mesoporous Architectures: From Symmetric to Asymmetric. Accounts of Materials Research, 2020, 1, 100-114. | 5.9 | 38 |
| 58 | Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. Matter, 2020, 3, 2124-2137. | 5.0 | 177 |
| 59 | Highly dispersed Feâ€“Ce mixed oxide catalysts confined in mesochannels toward low-temperature oxidation of formaldehyde. Journal of Materials Chemistry A, 2020, 8, 17174-17184. | 5.2 | 43 |
| 60 | Hierarchy: from nature to artificial. National Science Review, 2020, 7, 1623-1623. | 4.6 | 8 |
| 61 | Mesoporous Materials for Electrochemical Energy Storage and Conversion. Advanced Energy Materials, 2020, 10, 2002152. | 10.2 | 162 |
| 62 | Surface-Confined Winding Assembly of Mesoporous Nanorods. Journal of the American Chemical Society, 2020, 142, 20359-20367. | 6.6 | 28 |
| 63 | An Aqueous Route Synthesis of Transition-Metal-Ions-Doped Quantum Dots by Bimetallic Cluster Building Blocks. Journal of the American Chemical Society, 2020, 142, 16177-16181. | 6.6 | 22 |
| 64 | Emerging trends in porous materials for CO<sub>2</sub>capture and conversion. Chemical Society Reviews, 2020, 49, 4360-4404. | 18.7 | 473 |
| 65 | Organic NIR-II molecule with long blood half-life for in vivo dynamic vascular imaging. Nature Communications, 2020, 11, 3102. | 5.8 | 226 |
| 66 | Branched Mesoporous TiO2 Mesocrystals by Epitaxial Assembly of Micelles for Photocatalysis. Cell Reports Physical Science, 2020, 1, 100081. | 2.8 | 7 |
| 67 | Nano-spatially confined Pdâ€“Cu bimetals in porous N-doped carbon as an electrocatalyst for selective denitrification. Journal of Materials Chemistry A, 2020, 8, 9545-9553. | 5.2 | 35 |
| 68 | FeN<sub>x</sub>and Î³-Fe<sub>2</sub>O<sub>3</sub>co-functionalized hollow graphitic carbon nanofibers for efficient oxygen reduction in an alkaline medium. Journal of Materials Chemistry A, 2020, 8, 6076-6082. | 5.2 | 40 |
| 69 | Stable Ti<sup>3+</sup> Defects in Oriented Mesoporous Titania Frameworks for Efficient Photocatalysis. Angewandte Chemie, 2020, 132, 17829-17836. | 1.6 | 20 |
| 70 | Stable Ti<sup>3+</sup> Defects in Oriented Mesoporous Titania Frameworks for Efficient Photocatalysis. Angewandte Chemie - International Edition, 2020, 59, 17676-17683. | 7.2 | 80 |
| 71 | Mesoporous Silica Materials: Interfacial Assembly of Mesoporous Silicaâ€Based Optical Heterostructures for Sensing Applications (Adv. Funct. Mater. 9/2020). Advanced Functional Materials, 2020, 30, 2070057. | 7.8 | 10 |
| 72 | Engine-Trailer-Structured Nanotrucks for Efficient Nano-Bio Interactions and Bioimaging-Guided Drug Delivery. CheM, 2020, 6, 1097-1112. | 5.8 | 55 |

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| 73 | Recent advances in the synthesis of hierarchically mesoporous TiO2 materials for energy and environmental applications. National Science Review, 2020, 7, 1702-1725. | 4.6 | 139 |
| 74 | A Universal Labâ€onâ€Saltâ€Particle Approach to 2D Singleâ€Layer Ordered Mesoporous Materials. Advanced Materials, 2020, 32, e1906653. | 11.1 | 41 |
| 75 | Ensembles of Photonic Beads: Optical Properties and Enhanced Lightâ€"Matter Interactions. Advanced Optical Materials, 2020, 8, 1901537. | 3.6 | 16 |
| 76 | Size and charge dual-transformable mesoporous nanoassemblies for enhanced drug delivery and tumor penetration. Chemical Science, 2020, 11, 2819-2827. | 3.7 | 66 |
| 77 | Super-assembled core-shell mesoporous silica-metal-phenolic network nanoparticles for combinatorial photothermal therapy and chemotherapy. Nano Research, 2020, 13, 1013-1019. | 5.8 | 69 |
| 78 | Scalable Synthesis of Uniform Mesoporous Aluminosilicate Microspheres with Controllable Size and Morphology and High Hydrothermal Stability for Efficient Acid Catalysis. ACS Applied Materials & Interfaces, 2020, 12, 21922-21935. | 4.0 | 17 |
| 79 | Cephalopod-inspired versatile design based on plasmonic VO2 nanoparticle for energy-efficient mechano-thermochromic windows. Nano Energy, 2020, 73, 104785. | 8.2 | 74 |
| 80 | Artificial Blood Vessel Frameworks from 3D Printing-Based Super-Assembly as In Vitro Models for Early Diagnosis of Intracranial Aneurysms. Chemistry of Materials, 2020, 32, 3188-3198. | 3.2 | 8 |
| 81 | Molecular Design Strategy for Ordered Mesoporous Stoichiometric Metal Oxide. Angewandte Chemie, 2019, 131, 16010-16015. | 1.6 | 8 |
| 82 | Molecular Design Strategy for Ordered Mesoporous Stoichiometric Metal Oxide. Angewandte Chemie - International Edition, 2019, 58, 15863-15868. | 7.2 | 50 |
| 83 | Manganese Oxide Nanoclusters for Skin Photoprotection. ACS Applied Bio Materials, 2019, 2, 3974-3982. | 2.3 | 7 |
| 84 | Elemental Migration in Core/Shell Structured Lanthanide Doped Nanoparticles. Chemistry of Materials, 2019, 31, 5608-5615. | 3.2 | 49 |
| 85 | Role of Nanoparticle Mechanical Properties in Cancer Drug Delivery. ACS Nano, 2019, 13, 7410-7424. | 7.3 | 243 |
| 86 | Heterogeneous Contraction-Mediated Asymmetric Carbon Colloids. , 2019, 1, 290-296. | | 20 |
| 87 | Interfacial Superâ€Assembled Porous CeO<sub>2</sub>/C Frameworks Featuring Efficient and Sensitive Decomposing Li<sub>2</sub>O<sub>2</sub> for Smart Liâ€"O<sub>2</sub> Batteries. Advanced Energy Materials, 2019, 9, 1901751. | 10.2 | 71 |
| 88 | Organosilica: Mesoporous Organosilica Hollow Nanoparticles: Synthesis and Applications (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 | 11.1 | 3 |
| 89 | Liâ€"O<sub>2</sub> Batteries: Interfacial Superâ€Assembled Porous CeO<sub>2</sub>/C Frameworks Featuring Efficient and Sensitive Decomposing Li<sub>2</sub>O<sub>2</sub> for Smart Liâ€"O<sub>2</sub> Batteries (Adv. Energy Mater. 40/2019). Advanced Energy Materials, 2019, 9, 1970157. | 10.2 | 2 |
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| 92 | Cementing Mesoporous ZnO with Silica for Controllable and Switchable Gas Sensing Selectivity. Chemistry of Materials, 2019, 31, 8112-8120. | 3.2 | 58 |
| 93 | Spherical Mesoporous Materials from Single to Multilevel Architectures. Accounts of Chemical Research, 2019, 52, 2928-2938. | 7.6 | 142 |
| 94 | Self-Assembled Nanoparticle Supertubes as Robust Platform for Revealing Long-Term, Multiscale Lithiation Evolution. Matter, 2019, 1, 976-987. | 5.0 | 41 |
| 95 | Defect-engineering of mesoporous TiO2 microspheres with phase junctions for efficient visible-light driven fuel production. Nano Energy, 2019, 66, 104113. | 8.2 | 107 |
| 96 | Two-Dimensional Mesoporous Heterostructure Delivering Superior Pseudocapacitive Sodium Storage via Bottom-Up Monomicelle Assembly. Journal of the American Chemical Society, 2019, 141, 16755-16762. | 6.6 | 99 |
| 97 | Surface-kinetics mediated mesoporous multipods for enhanced bacterial adhesion and inhibition. Nature Communications, 2019, 10, 4387. | 5.8 | 65 |
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| 99 | Spray-drying water-based assembly of hierarchical and ordered mesoporous silica microparticles with enhanced pore accessibility for efficient bio-adsorption. Journal of Colloid and Interface Science, 2019, 556, 529-540. | 5.0 | 20 |
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| 102 | Novel Black BiVO<sub>4</sub>/TiO<sub>2â^'</sub><sub>x</sub> Photoanode with Enhanced Photon Absorption and Charge Separation for Efficient and Stable Solar Water Splitting. Advanced Energy Materials, 2019, 9, 1901287. | 10.2 | 161 |
| 103 | Ultrahigh Surface Area Nâ€Doped Hierarchically Porous Carbon for Enhanced CO<sub>2</sub> Capture and Electrochemical Energy Storage. ChemSusChem, 2019, 12, 3541-3549. | 3.6 | 42 |
| 104 | Confined Interfacial Monomicelle Assembly for Precisely Controlled Coating of Single-Layered Titania Mesopores. Matter, 2019, 1, 527-538. | 5.0 | 80 |
| 105 | Liquidâ€“Solid Interfacial Assemblies of Soft Materials for Functional Freestanding Layered Membraneâ€“Based Devices toward Electrochemical Energy Systems. Advanced Energy Materials, 2019, 9, 1804005. | 10.2 | 18 |
| 106 | sp<sup>2</sup>-Hybridized Carbon-Containing Block Copolymer Templated Synthesis of Mesoporous Semiconducting Metal Oxides with Excellent Gas Sensing Property. Accounts of Chemical Research, 2019, 52, 714-725. | 7.6 | 90 |
| 107 | Superassembled Biocatalytic Porous Framework Micromotors with Reversible and Sensitive pHâ€Speed Regulation at Ultralow Physiological H<sub>2</sub>O<sub>2</sub> Concentration. Advanced Functional Materials, 2019, 29, 1808900. | 7.8 | 66 |
| 108 | Synthesis of carbon nanotubes@mesoporous carbon coreâ€“shell structured electrocatalysts via a molecule-mediated interfacial co-assembly strategy. Journal of Materials Chemistry A, 2019, 7, 8975-8983. | 5.2 | 55 |

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| 109 | Versatile Nanoemulsion Assembly Approach to Synthesize Functional Mesoporous Carbon Nanospheres with Tunable Pore Sizes and Architectures. Journal of the American Chemical Society, 2019, 141, 7073-7080. | 6.6 | 388 |
| 110 | Adaptive Thermochromic Windows from Active Plasmonic Elastomers. Joule, 2019, 3, 858-871. | 11.7 | 128 |
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| 112 | Encapsulating highly crystallized mesoporous Fe3O4 in hollow N-doped carbon nanospheres for high-capacity long-life sodium-ion batteries. Nano Energy, 2019, 56, 426-433. | 8.2 | 111 |
| 113 | Pore Engineering of Mesoporous Tungsten Oxides for Ultrasensitive Gas Sensing. Advanced Materials Interfaces, 2019, 6, 1801269. | 1.9 | 35 |
| 114 | Molecule Self-Assembly Synthesis of Porous Few-Layer Carbon Nitride for Highly Efficient Photoredox Catalysis. Journal of the American Chemical Society, 2019, 141, 2508-2515. | 6.6 | 685 |
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| 117 | Mesoporous Organosilica Hollow Nanoparticles: Synthesis and Applications. Advanced Materials, 2019, 31, e1707612. | 11.1 | 179 |
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| 123 | Scalable synthesis of wrinkled mesoporous titania microspheres with uniform large micron sizes for efficient removal of Cr(<scp>vi</scp>). Journal of Materials Chemistry A, 2018, 6, 3954-3966. | 5.2 | 45 |
| 124 | Nearâ€Infrared Triggered Decomposition of Nanocapsules with High Tumor Accumulation and Stimuli Responsive Fast Elimination. Angewandte Chemie - International Edition, 2018, 57, 2611-2615. | 7.2 | 111 |
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