

Maoshuai He

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75
papers

2,541
citations

27
h-index

49
g-index

75
ext. papers

2,880
ext. citations

10.2
avg, IF

4.84
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 75 | Solutions of negatively charged graphene sheets and ribbons. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15802-4 | 16.4 | 410 |
| 74 | Chiral-selective growth of single-walled carbon nanotubes on lattice-mismatched epitaxial cobalt nanoparticles. <i>Scientific Reports</i> , 2013 , 3, 1460 | 4.9 | 149 |
| 73 | Predominant (6,5) single-walled carbon nanotube growth on a copper-promoted iron catalyst. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13994-6 | 16.4 | 148 |
| 72 | Thionine-mediated chemistry of carbon nanotubes. <i>Carbon</i> , 2004 , 42, 287-291 | 10.4 | 133 |
| 71 | Ribbon- and boardlike nanostructures of nickel hydroxide: synthesis, characterization, and electrochemical properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7654-8 | 3.4 | 130 |
| 70 | Effect of a multiscale reinforcement by carbon fiber surface treatment with graphene oxide/carbon nanotubes on the mechanical properties of reinforced carbon/carbon composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 90, 433-440 | 8.4 | 117 |
| 69 | Bioinspired Fluffy Fabric with In Situ Grown Carbon Nanotubes for Ultrasensitive Wearable Airflow Sensor. <i>Advanced Materials</i> , 2020 , 32, e1908214 | 24 | 80 |
| 68 | CVD growth of N-doped carbon nanotubes on silicon substrates and its mechanism. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 9275-9 | 3.4 | 63 |
| 67 | Growth Mechanism of Single-Walled Carbon Nanotubes on Iron-Copper Catalyst and Chirality Studies by Electron Diffraction. <i>Chemistry of Materials</i> , 2012 , 24, 1796-1801 | 9.6 | 59 |
| 66 | Selective growth of SWNTs on partially reduced monometallic cobalt catalyst. <i>Chemical Communications</i> , 2011 , 47, 1219-21 | 5.8 | 59 |
| 65 | Linking growth mode to lengths of single-walled carbon nanotubes. <i>Carbon</i> , 2017 , 113, 231-236 | 10.4 | 58 |
| 64 | Interfacial Microstructure and Enhanced Mechanical Properties of Carbon Fiber Composites Caused by Growing Generation 1-4 Dendritic Poly(amidoamine) on a Fiber Surface. <i>Langmuir</i> , 2016 , 32, 8339-49 | 4 | 57 |
| 63 | One-Pot Synthesis of Concave Platinum-Cobalt Nanocrystals and Their Superior Catalytic Performances for Methanol Electrochemical Oxidation and Oxygen Electrochemical Reduction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36164-36172 | 9.5 | 50 |
| 62 | Diameter and chiral angle distribution dependencies on the carbon precursors in surface-grown single-walled carbon nanotubes. <i>Nanoscale</i> , 2012 , 4, 7394-8 | 7.7 | 48 |
| 61 | Interfacial microstructure and mechanical properties of carbon fiber composites by fiber surface modification with poly(amidoamine)/polyhedral oligomeric silsesquioxane. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 90, 653-661 | 8.4 | 46 |
| 60 | Growth modes and chiral selectivity of single-walled carbon nanotubes. <i>Nanoscale</i> , 2018 , 10, 6744-6750 | 7.7 | 44 |
| 59 | Chiral-selective growth of single-walled carbon nanotubes on Fe-based catalysts using CO as carbon source. <i>Carbon</i> , 2016 , 108, 521-528 | 10.4 | 43 |

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| 58 | Designing Catalysts for Chirality-Selective Synthesis of Single-Walled Carbon Nanotubes: Past Success and Future Opportunity. <i>Advanced Materials</i> , 2019 , 31, e1800805 | 24 | 43 |
| 57 | Growth Termination and Multiple Nucleation of Single-Wall Carbon Nanotubes Evidenced by in Situ Transmission Electron Microscopy. <i>ACS Nano</i> , 2017 , 11, 4483-4493 | 16.7 | 39 |
| 56 | Low temperature growth of SWNTs on a nickel catalyst by thermal chemical vapor deposition. <i>Nano Research</i> , 2011 , 4, 334-342 | 10 | 39 |
| 55 | Bimetallic Catalysts for the Efficient Growth of SWNTs on Surfaces. <i>Chemistry of Materials</i> , 2004 , 16, 799-805 | 9.6 | 39 |
| 54 | Precise determination of the threshold diameter for a single-walled carbon nanotube to collapse. <i>ACS Nano</i> , 2014 , 8, 9657-63 | 16.7 | 35 |
| 53 | Iron Catalysts Reactivation for Efficient CVD Growth of SWNT with Base-growth Mode on Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12665-12668 | 3.4 | 35 |
| 52 | Growth kinetics of single-walled carbon nanotubes with a (2,) chirality selection. <i>Science Advances</i> , 2019 , 5, eaav9668 | 14.3 | 32 |
| 51 | Single-walled carbon nanotube networks for ethanol vapor sensing applications. <i>Nano Research</i> , 2013 , 6, 77-86 | 10 | 31 |
| 50 | Controllable Growth of (n, n) Family of Semiconducting Carbon Nanotubes. <i>CheM</i> , 2019 , 5, 1182-1193 | 16.2 | 27 |
| 49 | Chiral-selective growth of single-walled carbon nanotubes on stainless steel wires. <i>Carbon</i> , 2012 , 50, 4294-4297 | 10.4 | 27 |
| 48 | Horizontal Single-Walled Carbon Nanotube Arrays: Controlled Synthesis, Characterizations, and Applications. <i>Chemical Reviews</i> , 2020 , 120, 12592-12684 | 68.1 | 27 |
| 47 | Effect of Hydrogen Pressure on the Size of Nickel Nanoparticles Formed during Dewetting and Reduction of Thin Nickel Films. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 89-92 | 3.8 | 26 |
| 46 | Synergistic effects in FeCu bimetallic catalyst for low temperature growth of single-walled carbon nanotubes. <i>Carbon</i> , 2013 , 52, 590-594 | 10.4 | 25 |
| 45 | Anchoring effect of Ni ²⁺ in stabilizing reduced metallic particles for growing single-walled carbon nanotubes. <i>Carbon</i> , 2018 , 128, 249-256 | 10.4 | 25 |
| 44 | Pt-Pd Bimetal Popcorn Nanocrystals: Enhancing the Catalytic Performance by Combination Effect of Stable Multipetals Nanostructure and Highly Accessible Active Sites. <i>Small</i> , 2018 , 14, e1703613 | 11 | 24 |
| 43 | Key roles of carbon solubility in single-walled carbon nanotube nucleation and growth. <i>Nanoscale</i> , 2015 , 7, 20284-9 | 7.7 | 23 |
| 42 | High Durable Ternary Nanodendrites as Effective Catalysts for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23646-54 | 9.5 | 22 |
| 41 | Environmental transmission electron microscopy investigations of Pt-Fe ₂ O ₃ nanoparticles for nucleating carbon nanotubes. <i>Carbon</i> , 2016 , 110, 243-248 | 10.4 | 22 |

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| 40 | Insights into chirality distributions of single-walled carbon nanotubes grown on different CoxMg1-xO solid solutions. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5883-5889 | 13 | 22 |
| 39 | Chirality-controlled synthesis of single-walled carbon nanotubes from mechanistic studies toward experimental realization. <i>Materials Today</i> , 2018 , 21, 845-860 | 21.8 | 21 |
| 38 | Concentrated solutions of individualized single walled carbon nanotubes. <i>Carbon</i> , 2014 , 67, 360-367 | 10.4 | 20 |
| 37 | Temperature Dependent Raman Spectra of Carbon Nanobuds. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13540-13545 | 3.8 | 20 |
| 36 | Advance in Close-Edged Graphene Nanoribbon: Property Investigation and Structure Fabrication. <i>Small</i> , 2019 , 15, e1804473 | 11 | 16 |
| 35 | Synthesis of octahedral Pt-Ni-Ir yolk-shell nanoparticles and their catalysis in oxygen reduction and methanol oxidization under both acidic and alkaline conditions. <i>Nanoscale</i> , 2019 , 11, 23206-23216 | 7.7 | 15 |
| 34 | High temperature growth of single-walled carbon nanotubes with a narrow chirality distribution by tip-growth mode. <i>Chemical Engineering Journal</i> , 2018 , 341, 344-350 | 14.7 | 14 |
| 33 | A robust CoxMg1-xO catalyst for predominantly growing (6, 5) single-walled carbon nanotubes. <i>Carbon</i> , 2019 , 153, 389-395 | 10.4 | 14 |
| 32 | Is there chiral correlation between graphitic layers in double-wall carbon nanotubes?. <i>Carbon</i> , 2019 , 144, 147-151 | 10.4 | 14 |
| 31 | Growth and surface engineering of vertically-aligned low-wall-number carbon nanotubes. <i>Carbon</i> , 2012 , 50, 4750-4754 | 10.4 | 13 |
| 30 | Surfactant-resisted assembly of Fe-containing nanoparticles for site-specific growth of SWNTs on Si surface. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10946-51 | 3.4 | 13 |
| 29 | FeTiO based catalyst for large-chiral-angle single-walled carbon nanotube growth. <i>Carbon</i> , 2016 , 107, 865-871 | 10.4 | 11 |
| 28 | A facile route to homogeneous high density networks of metal nanoparticles. <i>Langmuir</i> , 2009 , 25, 11285-8 | 11 | 11 |
| 27 | Study of the Thermal Stability of Supported Catalytic Nanoparticles for the Growth of Single-Walled Carbon Nanotubes with Narrow Diameter Distribution by Chemical Vapor Deposition of Methane. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24123-24129 | 3.8 | 10 |
| 26 | Carbon fiber-promoted activation of catalyst for efficient growth of single-walled carbon nanotubes. <i>Carbon</i> , 2020 , 156, 410-415 | 10.4 | 10 |
| 25 | Iron silicide-catalyzed growth of single-walled carbon nanotubes with a narrow diameter distribution. <i>Carbon</i> , 2019 , 149, 139-143 | 10.4 | 9 |
| 24 | Growth of single-walled carbon nanotubes with large chiral angles on rhodium nanoparticles. <i>Nanoscale</i> , 2013 , 5, 10200-2 | 7.7 | 8 |
| 23 | SiO2-promoted growth of single-walled carbon nanotubes on an alumina supported catalyst. <i>Carbon</i> , 2021 , 176, 367-373 | 10.4 | 8 |

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| 22 | Stability of iron-containing nanoparticles for selectively growing single-walled carbon nanotubes. <i>Carbon</i> , 2020 , 158, 795-801 | 10.4 | 7 |
| 21 | Chemical vapor deposition synthesis of carbon nanosprouts on calcined stainless steel. <i>Materials Letters</i> , 2019 , 238, 290-293 | 3.3 | 6 |
| 20 | Iridium-catalyzed growth of single-walled carbon nanotubes with a bicentric diameter distribution. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1882-1887 | 7.8 | 5 |
| 19 | Temperature-dependent selective nucleation of single-walled carbon nanotubes from stabilized catalyst nanoparticles. <i>Chemical Engineering Journal</i> , 2021 , 431, 133487 | 14.7 | 5 |
| 18 | Direct synthesis of high-quality single-walled carbon nanotubes by the physical nucleation of iron nanoparticles in an atmospheric pressure carbon monoxide flow. <i>Carbon</i> , 2012 , 50, 5343-5345 | 10.4 | 4 |
| 17 | Chemical vapor deposition growth of single-walled carbon nanotubes from plastic polymers. <i>Carbon</i> , 2021 , | 10.4 | 4 |
| 16 | Palladium Nanobelts with Expanded Lattice Spacing for Electrochemical Oxygen Reduction in Alkaline Media. <i>ACS Applied Nano Materials</i> , 2021 , 4, 2118-2125 | 5.6 | 4 |
| 15 | Interfacial boron modification on mesoporous octahedral rhodium shell and its enhanced electrocatalysis for water splitting and oxygen reduction. <i>Chemical Engineering Journal</i> , 2022 , 435, 134982 | 14.7 | 3 |
| 14 | Organic sulfate modified carbon nanotube/polypyrrole core-shell nanocomposites with improved electrochemical performance. <i>Synthetic Metals</i> , 2016 , 217, 288-294 | 3.6 | 3 |
| 13 | 3d Transition Metal-Metallofullerene-Ligand Molecular Wires: Robust One-Dimensional Antiferromagnetic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30571-30577 | 3.8 | 3 |
| 12 | Temperature Dependence of G Mode in Raman Spectra of Metallic Single-Walled Carbon Nanotubes. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-6 | 3.2 | 2 |
| 11 | Sizable bandgaps of graphene in 3d transition metal intercalated defective graphene/WSe heterostructures.. <i>RSC Advances</i> , 2019 , 9, 18157-18164 | 3.7 | 2 |
| 10 | Narrow-chirality distributed single-walled carbon nanotube synthesized from oxide promoted Fe ₃ C catalyst. <i>Carbon</i> , 2022 , 191, 146-152 | 10.4 | 2 |
| 9 | Designed borophene/TMDs hybrid catalysts for enhanced hydrogen evolution reactions. <i>Journal of Materials Chemistry C</i> , | 7.1 | 2 |
| 8 | Laser switching characteristics of enriched (7,5) single-walled carbon nanotubes at 640 nm. <i>Carbon</i> , 2022 , 191, 433-438 | 10.4 | 1 |
| 7 | Bulk growth and separation of single-walled carbon nanotubes from rhenium catalyst. <i>Nano Research</i> , ¹ | 10 | 1 |
| 6 | Chirality distribution of single-walled carbon nanotubes grown from gold nanoparticles. <i>Carbon</i> , 2022 , 192, 259-264 | 10.4 | 1 |
| 5 | Solid supported ruthenium catalyst for growing single-walled carbon nanotubes with narrow chirality distribution. <i>Carbon</i> , 2022 , 193, 35-41 | 10.4 | 1 |

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| 4 | Subnanometer Single-Walled carbon nanotube growth from Fe-Containing Layered double hydroxides. <i>Chemical Engineering Journal</i> , 2022 , 446, 137087 | 14.7 | 1 |
| 3 | Low-temperature growth of carbon shells on gold and copper nanoparticles in transmission electron microscope. <i>Carbon</i> , 2020 , 167, 541-547 | 10.4 | 0 |
| 2 | Ni-Foam Structured Ni-Phyllosilicate Ensemble as an Efficient Monolithic Catalyst for CO2 Methanation. <i>Catalysis Letters</i> ,1 | 2.8 | 0 |
| 1 | Laser Irradiation-Hindered Growth of Small-Diameter Single-Walled Carbon Nanotubes by Chemical Vapor Deposition. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-7 | 3.2 | |