Yan Li

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4229143/publications.pdf

Version: 2024-02-01

206 papers	11,684 citations	34105 52 h-index	30087 103 g-index
210 all docs	210 docs citations	210 times ranked	13660 citing authors

#	Article	IF	Citations
1	Chirality-specific growth of single-walled carbon nanotubes on solid alloy catalysts. Nature, 2014, 510, 522-524.	27.8	677
2	Best Practices for Reporting Electrocatalytic Performance of Nanomaterials. ACS Nano, 2018, 12, 9635-9638.	14.6	537
3	Fabrication of Ultralong and Electrically Uniform Single-Walled Carbon Nanotubes on Clean Substrates. Nano Letters, 2009, 9, 3137-3141.	9.1	516
4	Selective Growth of Well-Aligned Semiconducting Single-Walled Carbon Nanotubes. Nano Letters, 2009, 9, 800-805.	9.1	426
5	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. ACS Nano, 2018, 12, 11756-11784.	14.6	388
6	Copper Catalyzing Growth of Single-Walled Carbon Nanotubes on Substrates. Nano Letters, 2006, 6, 2987-2990.	9.1	350
7	Doping-Free Fabrication of Carbon Nanotube Based Ballistic CMOS Devices and Circuits. Nano Letters, 2007, 7, 3603-3607.	9.1	319
8	Preparation of Monodispersed Feâ^'Mo Nanoparticles as the Catalyst for CVD Synthesis of Carbon Nanotubes. Chemistry of Materials, 2001, 13, 1008-1014.	6.7	303
9	Why Single-Walled Carbon Nanotubes Can Be Dispersed in Imidazolium-Based Ionic Liquids. ACS Nano, 2008, 2, 2540-2546.	14.6	296
10	Chirality Pure Carbon Nanotubes: Growth, Sorting, and Characterization. Chemical Reviews, 2020, 120, 2693-2758.	47.7	278
11	Electrochemical AFM â€œDip-Penâ€•Nanolithography. Journal of the American Chemical Society, 2001, 123, 2105-2106.	13.7	250
12	One-dimensional van der Waals heterostructures. Science, 2020, 367, 537-542.	12.6	238
13	Sizeâ€Dependent Enhancement of Electrocatalytic Oxygenâ€Reduction and Hydrogenâ€Evolution Performance of MoS₂ Particles. Chemistry - A European Journal, 2013, 19, 11939-11948.	3.3	226
14	Carbon Nanomaterials in Different Dimensions for Electrochemical Energy Storage. Advanced Energy Materials, 2016, 6, 1600278.	19.5	219
15	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth MÃ¶hwald. ACS Nano, 2019, 13, 6151-6169.	14.6	211
16	Ultralow Feeding Gas Flow Guiding Growth of Large-Scale Horizontally Aligned Single-Walled Carbon Nanotube Arrays. Nano Letters, 2007, 7, 2073-2079.	9.1	189
17	Self-Aligned Ballistic n-Type Single-Walled Carbon Nanotube Field-Effect Transistors with Adjustable Threshold Voltage. Nano Letters, 2008, 8, 3696-3701.	9.1	154
18	Y-Contacted High-Performance n-Type Single-Walled Carbon Nanotube Field-Effect Transistors: Scaling and Comparison with Sc-Contacted Devices. Nano Letters, 2009, 9, 4209-4214.	9.1	150

#	Article	IF	Citations
19	Carbon nanotubes combined with inorganic nanomaterials: Preparations and applications. Coordination Chemistry Reviews, 2010, 254, 1117-1134.	18.8	145
20	CMOS-based carbon nanotube pass-transistor logic integrated circuits. Nature Communications, 2012, 3, 677.	12.8	145
21	Carbon nanotube-based electrodes for flexible supercapacitors. Nano Research, 2020, 13, 1825-1841.	10.4	142
22	Efficient photovoltage multiplication in carbon nanotubes. Nature Photonics, 2011, 5, 672-676.	31.4	133
23	Solid-State, Polymer-Based Fiber Solar Cells with Carbon Nanotube Electrodes. ACS Nano, 2012, 6, 11027-11034.	14.6	132
24	Au â€œInkâ€•for AFM â€œDip-Penâ€•Nanolithography. Langmuir, 2001, 17, 2575-2578.	3.5	129
25	Growing Zigzag (16,0) Carbon Nanotubes with Structure-Defined Catalysts. Journal of the American Chemical Society, 2015, 137, 8688-8691.	13.7	118
26	Single Crystalline Trigonal Selenium Nanotubes and Nanowires Synthesized by Sonochemical Process. Crystal Growth and Design, 2005, 5, 911-916.	3.0	115
27	How Catalysts Affect the Growth of Singleâ€Walled Carbon Nanotubes on Substrates. Advanced Materials, 2010, 22, 1508-1515.	21.0	112
28	CVD synthesis and purification of single-walled carbon nanotubes on aerogel-supported catalyst. Applied Physics A: Materials Science and Processing, 2002, 74, 345-348.	2.3	109
29	Cell imaging by graphene oxide based on surface enhanced Raman scattering. Nanoscale, 2012, 4, 7084.	5.6	109
30	One-pot facile fabrication of carbon-coated Bi2S3 nanomeshes with efficient Li-storage capability. Nano Research, 2014, 7, 765-773.	10.4	105
31	Almost Perfectly Symmetric SWCNT-Based CMOS Devices and Scaling. ACS Nano, 2009, 3, 3781-3787.	14.6	100
32	Water-Assisted Preparation of High-Purity Semiconducting (14,4) Carbon Nanotubes. ACS Nano, 2017, 11, 186-193.	14.6	100
33	Lattice-Oriented Growth of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2000, 104, 6505-6508.	2.6	98
34	Engineering active edge sites of fractal-shaped single-layer MoS2 catalysts for high-efficiency hydrogen evolution. Nano Energy, 2018, 51, 786-792.	16.0	98
35	Decoration of Gold Nanoparticles on Surface-Grown Single-Walled Carbon Nanotubes for Detection of Every Nanotube by Surface-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2009, 131, 14310-14316.	13.7	97
36	The dispersion and aggregation of graphene oxide in aqueous media. Nanoscale, 2016, 8, 14587-14592.	5.6	95

#	Article	IF	Citations
37	Templated Synthesis of Single-Walled Carbon Nanotubes with Specific Structure. Accounts of Chemical Research, 2016, 49, 606-615.	15.6	94
38	Shape-Controlled Synthesis of CdS Nanocrystals in Mixed Solvents. Crystal Growth and Design, 2005, 5, 1801-1806.	3.0	93
39	Carbon nanotube-wired and oxygen-deficient MoO 3 nanobelts with enhanced lithium-storage capability. Journal of Power Sources, 2014, 247, 90-94.	7.8	92
40	High-Performance Carbon Nanotube Light-Emitting Diodes with Asymmetric Contacts. Nano Letters, 2011, 11, 23-29.	9.1	91
41	Ionicâ€Liquidâ€Assisted Preparation of Carbon Nanotubeâ€Supported Uniform Noble Metal Nanoparticles and Their Enhanced Catalytic Performance. Advanced Functional Materials, 2010, 20, 3747-3752.	14.9	90
42	Preparation of Cadmium Sulfide Nanowire Arrays in Anodic Aluminum Oxide Templates. Chemistry of Materials, 1999, 11, 3433-3435.	6.7	86
43	Growth of Semiconducting Single-Walled Carbon Nanotubes by Using Ceria as Catalyst Supports. Nano Letters, 2014, 14, 512-517.	9.1	80
44	Atomic-scale structural identification and evolution of Co-W-C ternary SWCNT catalytic nanoparticles: High-resolution STEM imaging on SiO ₂. Science Advances, 2019, 5, eaat9459.	10.3	71
45	Carbon nanotubes for flexible batteries: recent progress and future perspective. National Science Review, 2021, 8, nwaa261.	9.5	71
46	Spectroscopic Evidence and Molecular Simulation Investigation of the <I>Ï€</I> â€“ <I>Ï€</I> Interaction Between Pyrene Molecules and Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2007, 7, 2366-2375.	0.9	70
47	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. Nature Nanotechnology, 2020, 15, 164-166.	31.5	69
48	A Dopingâ€Free Carbon Nanotube CMOS Inverterâ€Based Bipolar Diode and Ambipolar Transistor. Advanced Materials, 2008, 20, 3258-3262.	21.0	66
49	The formation of cadmium sulfide nanowires in different liquid crystal systems. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 106-109.	5.6	57
50	Preparation of silver nanowire arrays in anodic aluminum oxide templates. Journal of Materials Science Letters, 2001, 20, 925-927.	0.5	56
51	Metallic Catalysts for Structure-Controlled Growth of Single-Walled Carbon Nanotubes. Topics in Current Chemistry, 2017, 375, 29.	5.8	55
52	Nitrogenâ€Doped Singleâ€Walled Carbon Nanotubes Grown on Substrates: Evidence for Framework Doping and Their Enhanced Properties. Advanced Functional Materials, 2011, 21, 986-992.	14.9	54
53	Composite Films Based on Aligned Carbon Nanotube Arrays and a Poly(Nâ€Isopropyl Acrylamide) Hydrogel. Advanced Materials, 2008, 20, 2201-2205.	21.0	53
54	Defective super-long carbon nanotubes and polypyrrole composite for high-performance supercapacitor electrodes. Electrochimica Acta, 2012, 66, 279-286.	5.2	51

#	Article	IF	Citations
55	Sacrificial template growth of CdS nanotubes from Cd(OH)2 nanowires. Journal of Solid State Chemistry, 2006, 179, 96-102.	2.9	49
56	Electronic transport in single-walled carbon nanotube/graphene junction. Applied Physics Letters, 2011, 99, .	3.3	48
57	(n,m) Assignments and quantification for single-walled carbon nanotubes on SiO₂/Si substrates by resonant Raman spectroscopy. Nanoscale, 2015, 7, 10719-10727.	5.6	48
58	Tensile Loading of Double-Walled and Triple-Walled Carbon Nanotubes and their Mechanical Properties. Journal of Physical Chemistry C, 2009, 113, 17002-17005.	3.1	47
59	Solution-Phase Synthesis of Heteroatom-Substituted Carbon Scaffolds for Hydrogen Storage. Journal of the American Chemical Society, 2010, 132, 15246-15251.	13.7	47
60	Carbon nanomaterials for photovoltaic process. Nano Energy, 2015, 15, 490-522.	16.0	47
61	Solvothermal synthesis of nanocrystalline cadmium sulfide. Journal of Materials Science, 2000, 35, 5933-5937.	3.7	46
62	Creation of Cadmium Sulfide Nanostructures Using AFM Dip-Pen Nanolithography. Journal of Physical Chemistry B, 2005, 109, 22337-22340.	2.6	45
63	Photovoltaic Effects in Asymmetrically Contacted CNT Barrier-Free Bipolar Diode. Journal of Physical Chemistry C, 2009, 113, 6891-6893.	3.1	45
64	Toward Complete Resolution of DNA/Carbon Nanotube Hybrids by Aqueous Two-Phase Systems. Journal of the American Chemical Society, 2019, 141, 20177-20186.	13.7	45
65	Hostâ€“Guest Molecular Interaction Enabled Separation of Large-Diameter Semiconducting Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2021, 143, 10120-10130.	13.7	44
66	Hydroxyl-rich ceriaÂhydrate nanoparticles enhancing the alcohol electrooxidation performance of Pt catalysts. Journal of Materials Chemistry A, 2018, 6, 2318-2326.	10.3	43
67	Direct Preparation and Patterning of Iron Oxide Nanoparticles via Microcontact Printing on Silicon Wafers for the Growth of Single-Walled Carbon Nanotubes. Chemistry of Materials, 2006, 18, 4109-4114.	6.7	42
68	Controllable preparation and properties of composite materials based on ceria nanoparticles and carbon nanotubes. Journal of Solid State Chemistry, 2008, 181, 2620-2625.	2.9	42
69	Preparation and electrochemical properties of MnO2nanosheets attached to Au nanoparticles on carbon nanotubes. Dalton Transactions, 2011, 40, 2332-2337.	3.3	42
70	Pencilâ€Drawing Skinâ€Mountable Microâ€Supercapacitors. Small, 2019, 15, e1804037.	10.0	42
71	Single-layer graphene sheets as counter electrodes for fiber-shaped polymer solar cells. RSC Advances, 2013, 3, 13720.	3.6	40
72	Selective Band Structure Modulation of Single-Walled Carbon Nanotubes in Ionic Liquids. Journal of the American Chemical Society, 2009, 131, 5364-5365.	13.7	39

#	Article	IF	Citations
73	Rational preparation of faceted platinum nanocrystals supported on carbon nanotubes with remarkably enhanced catalytic performance. Chemical Communications, 2009, , 7167.	4.1	39
74	In situ measurements on individual thin carbon nanotubes using nanomanipulators inside a scanning electron microscope. Ultramicroscopy, 2010, 110, 182-189.	1.9	39
75	Atomic Scale Stability of Tungstenâ€“Cobalt Intermetallic Nanocrystals in Reactive Environment at High Temperature. Journal of the American Chemical Society, 2019, 141, 5871-5879.	13.7	39
76	Kelvin probe force microscopy study on nanotriboelectrification. Applied Physics Letters, 2010, 96, .	3.3	38
77	Direct Growth of Single-Walled Carbon Nanotubes without Metallic Residues by Using Lead as a Catalyst. Chemistry of Materials, 2008, 20, 7521-7525.	6.7	36
78	Large Signal Operation of Small Band-Gap Carbon Nanotube-Based Ambipolar Transistor: A High-Performance Frequency Doubler. Nano Letters, 2010, 10, 3648-3655.	9.1	36
79	Atomic origins of the strong metalâ€“support interaction in silica supported catalysts. Chemical Science, 2021, 12, 12651-12660.	7.4	36
80	Carbon-Involved Near-Surface Evolution of Cobalt Nanocatalysts: An in Situ Study. CCS Chemistry, 2021, 3, 154-167.	7.8	36
81	Comparison between Copper and Iron as Catalyst for Chemical Vapor Deposition of Horizontally Aligned Ultralong Single-Walled Carbon Nanotubes on Silicon Substrates. Journal of Physical Chemistry C, 2010, 114, 15547-15552.	3.1	35
82	One-dimensional van der Waals heterostructures: Growth mechanism and handedness correlation revealed by nondestructive TEM. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	35
83	Dispersing Carbon-Based Nanomaterials in Aqueous Phase by Graphene Oxides. Langmuir, 2013, 29, 13527-13534.	3.5	34
84	Graphene Oxide as a Multifunctional Platform for Raman and Fluorescence Imaging of Cells. Small, 2015, 11, 3000-3005.	10.0	33
85	Self-Aligned U-Gate Carbon Nanotube Field-Effect Transistor with Extremely Small Parasitic Capacitance and Drain-Induced Barrier Lowering. ACS Nano, 2011, 5, 2512-2519.	14.6	32
86	Spectroscopic Characterization of the Chiral Structure of Individual Singleâ€Walled Carbon Nanotubes and the Edge Structure of Isolated Graphene Nanoribbons. Small, 2013, 9, 1284-1304.	10.0	32
87	Towards Entireâ€Carbonâ€Nanotube Circuits: The Fabrication of Singleâ€Walledâ€Carbonâ€Nanotube Fieldâ€Effect Transistors with Local Multiwalledâ€Carbonâ€Nanotube Interconnects. Advanced Materials, 2009, 21, 1339-1343.	21.0	31
88	Direct observation of the strong interaction between carbon nanotubes and quartz substrate. Nano Research, 2009, 2, 903.	10.4	31
89	2â€‰D Hybrid of Niâ€LDH Chips on Carbon Nanosheets as Cathode of Zincâ€“Air Battery for Electrocatalytic Conversion of O₂ into H₂O₂. ChemSusChem, 2020, 13, 1496-1503.	6.8	30
90	Carbon nanotube supported bifunctional electrocatalysts containing iron-nitrogen-carbon active sites for zinc-air batteries. Nano Research, 2021, 14, 4541-4547.	10.4	30

#	Article	IF	Citations
91	Composites of Functional Poly(phenylacetylene)s and Single-Walled Carbon Nanotubes: Preparation, Dispersion, and Near Infrared Photoresponsive Properties. Macromolecules, 2013, 46, 8479-8487.	4.8	29
92	Preferential Growth of Single-Walled Carbon Nanotubes on Silica Spheres by Chemical Vapor Deposition. Journal of Physical Chemistry B, 2005, 109, 6963-6967.	2.6	28
93	(n,m) Assignments of Metallic Single-Walled Carbon Nanotubes by Raman Spectroscopy: The Importance of Electronic Raman Scattering. ACS Nano, 2016, 10, 10789-10797.	14.6	27
94	The Quarter-Century Anniversary of Carbon Nanotube Research. ACS Nano, 2017, 11, 1-2.	14.6	26
95	Carbon-metal oxide nanocomposites as lithium-sulfur battery cathodes. Functional Materials Letters, 2018, 11, 1830007.	1.2	24
96	Stable Doping of Single-Walled Carbon Nanotubes for Flexible Transparent Conductive Films. ACS Nano, 2022, 16, 1063-1071.	14.6	24
97	Anisotropic Etching of Graphite Flakes with Water Vapor to Produce Armchairâ€Edged Graphene. Small, 2014, 10, 2809-2814.	10.0	23
98	Ultrahigh secondary electron emission of carbon nanotubes. Applied Physics Letters, 2010, 96, .	3.3	22
99	Nanoscience and Nanotechnology Impacting Diverse Fields of Science, Engineering, and Medicine. ACS Nano, 2016, 10, 10615-10617.	14.6	22
100	Molecular simulation study of different monolayers on Si (111) surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 242, 129-135.	4.7	21
101	Inorganic hierarchical nanostructures induced by concentration difference and gradient. Nano Research, 2008, 1, 213-220.	10.4	21
102	The preparation of multi-walled carbon nanotubes encapsulated by poly(3-acrylaminopropylsiloxane) with silica nanospheres on the polymer surface. Carbon, 2008, 46, 1670-1677.	10.3	21
103	Selective growth of chirality-enriched semiconducting carbon nanotubes by using bimetallic catalysts from salt precursors. Nanoscale, 2018, 10, 6922-6927.	5.6	21
104	Single-walled carbon nanotube based SERS substrate with single molecule sensitivity. Nano Research, 2022, 15, 694-700.	10.4	21
105	One-Dimensional van der Waals Heterostructures: A Perspective. ACS Nanoscience Au, 2022, 2, 3-11.	4.8	21
106	Flexible orientation control of ultralong single-walled carbon nanotubes by gas flow. Nanotechnology, 2009, 20, 185601.	2.6	20
107	Visualization of individual single-walled carbon nanotubes under an optical microscope as a result of decoration with gold nanoparticles. Carbon, 2011, 49, 1182-1188.	10.3	19
108	Reliability tests and improvements for Sc-contacted n-type carbon nanotube transistors. Nano Research, 2013, 6, 535-545.	10.4	19

#	Article	IF	Citations
109	Large-scale aligned crystalline CH₃NH₃PbI₃ perovskite array films. Journal of Materials Chemistry A, 2015, 3, 18847-18851.	10.3	19
110	Diameter-specific growth of single-walled carbon nanotubes using tungsten supported nickel catalysts. Carbon, 2017, 118, 485-492.	10.3	19
111	Suspended, Straightened Carbon Nanotube Arrays by Gel Chapping. ACS Nano, 2011, 5, 5656-5661.	14.6	18
112	Monolithic flexible supercapacitors drawn with nitrogen-doped carbon nanotube-graphene ink. Materials Research Bulletin, 2021, 139, 111266.	5.2	18
113	Site-Specific Deposition of Gold Nanoparticles on SWNTs. Journal of Physical Chemistry C, 2008, 112, 13437-13441.	3.1	17
114	Preparation and electrocatalytic properties of triuranium octoxide supported on reduced graphene oxide. Nano Research, 2015, 8, 546-553.	10.4	17
115	Cadmium sulfide nanorods formed in microemulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 257-258, 497-501.	4.7	16
116	Photoluminescence from Exciton Energy Transfer of Single-Walled Carbon Nanotube Bundles Dispersed in Ionic Liquids. Journal of Physical Chemistry C, 2012, 116, 22028-22035.	3.1	16
117	Diameter-controlled growth of aligned single-walled carbon nanotubes on quartz using molecular nanoclusters as catalyst precursors. Science Bulletin, 2013, 58, 433-439.	1.7	16
118	Reduced graphene oxide decorated with Bi2O2.33 nanodots for superior lithium storage. Nano Research, 2017, 10, 3690-3697.	10.4	16
119	Applications of Carbon Nanotubes in Oxygen Electrocatalytic Reactions. ACS Applied Materials & Interfaces, 2022, 14, 20455-20462.	8.0	16
120	Kinetic diffusionâ€“controlled synthesis of twinned intermetallic nanocrystals for CO-resistant catalysis. Science Advances, 2022, 8, .	10.3	16
121	Preparation and properties of CdS/Au composite nanorods and hollow Au tubes. Science Bulletin, 2010, 55, 921-926.	1.7	15
122	Targeted Raman Imaging of Cells Using Graphene Oxide-Based Hybrids. Langmuir, 2016, 32, 10253-10258.	3.5	15
123	Cu_xS nanoparticle@carbon nanorod composites prepared from metalâ€“organic frameworks as efficient electrode catalysts for quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2019, 7, 2210-2218.	10.3	15
124	Carbon Nanotube Research in Its 30th Year. ACS Nano, 2021, 15, 9197-9200.	14.6	15
125	MECHANISM OF THE EXTRACTANT LOSS IN LANTHANIDE EXTRACTION PROCESS WITH SAPONIFIED ORGANOPHOSPHORUS ACID EXTRACTION SYSTEMS â€" II: FORMATION OF AQUEOUS AGGREGATES. Solvent Extraction and Ion Exchange, 1996, 14, 585-601.	2.0	13
126	Structure Dependence of the Intermediate-Frequency Raman Modes in Isolated Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 23826-23832.	3.1	13

#	Article	IF	Citations
127	Catalysts for single-wall carbon nanotube synthesisâ€"From surface growth to bulk preparation. MRS Bulletin, 2017, 42, 809-818.	3.5	13
128	3D Vertical Arrays of Nanomaterials for Microscaled Energy Storage Devices. Accounts of Materials Research, 2021, 2, 1215-1226.	11.7	13
129	Direct growth of carbon nanotube junctions by a two-step chemical vapor deposition. Chemical Physics Letters, 2006, 432, 177-183.	2.6	12
130	Photoluminescence spectral imaging of ultralong single-walled carbon nanotubes: Micromanipulation-induced strain, rupture, and determination of handedness. Physical Review B, 2009, 80, .	3.2	12
131	Direct growth of single-walled carbon nanotubes on substrates. Science Bulletin, 2012, 57, 225-233.	1.7	12
132	Confined-solution process for high-quality CH3NH3PbBr3 single crystals with controllable morphologies. Nano Research, 2018, 11, 3306-3312.	10.4	12
133	Synthesis of ZnS Nanowires in Liquid Crystal Systems. Molecular Crystals and Liquid Crystals, 1999, 337, 193-196.	0.3	11
134	The preparation of Mg3Si2O5(OH)4 nanotubes under solvothermal conditions. Journal of Porous Materials, 2006, 13, 275-279.	2.6	11
135	Assembling Structure of Single-Walled Carbon Nanotube Thin Bundles. Journal of Physical Chemistry C, 2009, 113, 8132-8135.	3.1	11
136	High frequency resistance of single-walled and multiwalled carbon nanotubes. Applied Physics Letters, 2011, 98, .	3.3	11
137	Nanobeltâ€"carbon nanotube cross-junction solar cells. Energy and Environmental Science, 2012, 5, 6119.	30.8	11
138	Chiralityâ€Selective Photoluminescence Enhancement of ssDNAâ€Wrapped Singleâ€Walled Carbon Nanotubes Modified with Gold Nanoparticles. Small, 2016, 12, 3164-3171.	10.0	11
139	Multiple electronic Raman scatterings in a single metallic carbon nanotube. Physical Review B, 2016, 93, .	3.2	11
140	Material patterning on substrates by manipulation of fluidic behavior. National Science Review, 2019, 6, 758-766.	9.5	11
141	Tailoring the electrocatalytic oxygen reduction reaction pathway by tuning the electronic states of single-walled carbon nanotubes. Carbon, 2019, 147, 35-42.	10.3	11
142	Graphene oxide-supported cobalt tungstate as catalyst precursor for selective growth of single-walled carbon nanotubes. Inorganic Chemistry Frontiers, 2021, 8, 940-946.	6.0	11
143	High-yield and low-cost separation of high-purity semiconducting single-walled carbon nanotubes with closed-loop recycling of raw materials and solvents. Nano Research, 2021, 14, 4281-4287.	10.4	11
144	In Situ Epitaxial Growth of Triangular CdS Nanoplates on Mica by Dip-Pen Nanolithography. Journal of Physical Chemistry C, 2008, 112, 18938-18942.	3.1	10

#	Article	IF	Citations
145	Quantitative analysis of the (n,m) abundance of single-walled carbon nanotubes dispersed in ionic liquids by optical absorption spectra. Materials Chemistry and Physics, 2013, 139, 233-240.	4.0	10
146	Bilayer Plots for Accurately Determining the Chirality of Single-Walled Carbon Nanotubes Under Complex Environments. ACS Nano, 2017, 11, 10509-10518.	14.6	10
147	Polyoxometalate steric hindrance driven chirality-selective separation of subnanometer carbon nanotubes. Chemical Science, 2022, 13, 5920-5928.	7.4	10
148	Mesoporous cadmium sulfide templated by hexagonal liquid crystal. Journal of Materials Science Letters, 2001, 20, 1233-1235.	0.5	9
149	Channel-Length-Dependent Transport and Photovoltaic Characteristics of Carbon-Nanotube-Based, Barrier-Free Bipolar Diode. ACS Applied Materials & Interfaces, 2012, 4, 1154-1157.	8.0	9
150	Nucleation of copper nanoparticles on quartz as catalysts to grow single-walled carbon nanotube arrays. Carbon, 2016, 110, 390-395.	10.3	9
151	Synthesis and catalytic property of urania-palladium-graphene nanohybrids. Science China Materials, 2017, 60, 399-406.	6.3	9
152	One-step synthesis of MOF-derived Cu@N-doped carbon composites as counter electrode catalysts for quantum dot-sensitized solar cells. Electrochimica Acta, 2021, 380, 138228.	5.2	9
153	Seed-Mediated Growth of ZnO Nanorods on Multiwalled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2008, 8, 4441-4446.	0.9	8
154	Controlled Preparation of Inorganic Nanostructures on Substrates by Dipâ€Pen Nanolithography. Chemistry - an Asian Journal, 2010, 5, 980-990.	3.3	8
155	Patterning Nanoparticles by Microcontact Printing and Further Growth of Oneâ€Dimensional Nanomaterials. European Journal of Inorganic Chemistry, 2010, 2010, 4357-4362.	2.0	8
156	How to remove the influence of trace water from the absorption spectra of SWNTs dispersed in ionic liquids. Beilstein Journal of Nanotechnology, 2011, 2, 653-658.	2.8	8
157	Deformation of singleâ€walled carbon nanotubes by interaction with graphene: A firstâ€principles study. Journal of Computational Chemistry, 2015, 36, 717-722.	3.3	8
158	Surfactant-assisted synthesis of helical silica. Inorganica Chimica Acta, 2007, 360, 241-245.	2.4	7
159	High speed atomic force microscope lithography driven by electrostatic interaction. Applied Physics Letters, 2007, 91, .	3.3	6
160	Facile preparation of Carbon nanotubes and graphene sheets by a catalyst-free refluxing approach. Nano Research, 2012, 5, 640-645.	10.4	6
161	Radial deformation of single-walled carbon nanotubes on quartz substrates and the resultant anomalous diameter-dependent reaction selectivity. Nano Research, 2015, 8, 3054-3065.	10.4	6
162	Patterning catalyst via inkjet printing to grow single-walled carbon nanotubes. Chinese Chemical Letters, 2019, 30, 505-508.	9.0	6

#	Article	IF	Citations
163	Growth of Single-walled Carbon Nanotubes on Substrates Using Carbon Monoxide as Carbon Source. Chemical Research in Chinese Universities, 2021, 37, 1125-1129.	2.6	6
164	Control of the sizes of zinc sulfide particles by extractant. Journal of Materials Science, 2004, 39, 659-661.	3.7	5
165	A Waveguideâ€Like Effect Observed in Multiwalled Carbon Nanotube Bundles. Advanced Functional Materials, 2010, 20, 2263-2268.	14.9	5
166	Pointwise Plucking of Suspended Carbon Nanotubes. Nano Letters, 2012, 12, 3663-3667.	9.1	5
167	Kelvin Probe Force Microscopy in Nanoscience and Nanotechnology. , 2015, , 117-158.		5
168	Preparation of horizontally aligned single-walled carbon nanotubes with floating catalyst. Science China Chemistry, 2017, 60, 516-520.	8.2	5
169	Preparation of sub-square-meter-sized organic semiconductor films for photovoltaics applications. Nano Energy, 2018, 46, 11-19.	16.0	5
170	Epitaxial growth of horizontally aligned single-crystal arrays of perovskite. Science China Materials, 2019, 62, 59-64.	6.3	5
171	Gelation of uranyl ions and gel-derived uranium oxide nanoparticles for gas sensing. Nanoscale Advances, 2020, 2, 2478-2484.	4.6	5
172	Electronic Raman Scattering in Suspended Semiconducting Carbon Nanotube. Journal of Physical Chemistry Letters, 2020, 11, 10497-10503.	4.6	5
173	TEM study on extractive organic phase containing lanthanide ions. Journal of Alloys and Compounds, 1994, 216, L21-L23.	5.5	4
174	Nanoscience and Nanotechnology Cross Borders. ACS Nano, 2017, 11, 1123-1126.	14.6	4
175	Announcing the 2020 ACS Nano Award Lecture Laureates. ACS Nano, 2020, 14, 1213-1215.	14.6	4
176	Selective Growth of Singleâ€walled Carbon Nanotubes using Cobalt Disilicide. ChemNanoMat, 2022, 8, .	2.8	4
177	Molecular simulation study of alkyl-modified silicon crystal under the external electric field. Chemical Physics Letters, 2004, 389, 155-159.	2.6	3
178	Simultaneous detection of Raman scattering and near-infrared photoluminescence in one imaging microscope. Review of Scientific Instruments, 2012, 83, 063709.	1.3	3
179	Surface-Enhanced Raman Spectroscopy of Carbon Nanotubes in Aqueous Solution. Acta Chimica Sinica, 2012, 70, 1533.	1.4	3
180	Abnormal Raman Intensity of Single-Walled Carbon Nanotubes Grown on Silica Spheres. Journal of Physical Chemistry C, 2009, 113, 5075-5080.	3.1	2

#	Article	IF	Citations
181	Controlled preparation of CuO and Cu nanoparticles attached on carbon nanotubes for glucose sensing. Materials Technology, 2015, 30, A186-A191.	3.0	2
182	Prof. Millie Dresselhaus (1930â€“2017), Carbon Nanomaterials Pioneer. ACS Nano, 2017, 11, 2307-2308.	14.6	2
183	Effect of synthetic condition on the electrochemical behavior of MoO3 microplates used as anode in lithium-ion batteries. Canadian Journal of Chemistry, 2018, 96, 340-344.	1.1	2
184	Nanoscience and Nanotechnology Research at Peking University. ACS Nano, 2018, 12, 4075-4076.	14.6	2
185	Putting the World Back Together and Announcing the 2021 ACS Nano Award Lecture Laureates. ACS Nano, 2021, 15, 7837-7839.	14.6	2
186	Detection of Offâ€Resonance Singleâ€Walled Carbon Nanotubes by Enormous Surfaceâ€Enhanced Raman Scattering. Advanced Optical Materials, 0, , 2100559.	7.3	2
187	Synthesis of crystalline WS₃ with a layered structure and desert-rose-like morphology. Nanoscale Advances, 2022, 4, 1626-1631.	4.6	2
188	Building blocks for one-dimensional van der Waals heterostructures. , 2022, 1, 20220016.		2
189	The lecithin vesicle mediated mineralization of cadmium sulphide. Journal of Materials Science Letters, 1999, 18, 1821-1823.	0.5	1
190	A Big Year Ahead for Nano in 2018. ACS Nano, 2017, 11, 11755-11757.	14.6	1
191	Growing Contributions of Nano in 2020. ACS Nano, 2020, 14, 16163-16164.	14.6	1
192	Diameter controlled growth of single-walled carbon nanotubes. Scientia Sinica Chimica, 2020, 50, 1188-1204.	0.4	1
193	Marangoni-flow-assisted assembly of single-walled carbon nanotube films for human motion sensing. Fundamental Research, 2022, , .	3.3	1
194	Thermoelectric Measurement of Multi-Walled Carbon Nanotube Bundles by Using Nano-Probes. Journal of Nanoscience and Nanotechnology, 2010, 10, 4985-4991.	0.9	0
195	Enhanced etching of silicon didioxide guided by carbon nanotubes in HF solution. Chinese Physics B, 2011, 20, 108103.	1.4	0
196	Our First and Next Decades at ACS Nano. ACS Nano, 2017, 11, 7553-7555.	14.6	0
197	Helmuth MÃ¶hwald (1946â€“2018). ACS Nano, 2018, 12, 3053-3055.	14.6	0
198	(Invited) In Situ Study on Nucleation and Growth of Single-Walled Carbon Nanotubes on Catalysts. ECS Meeting Abstracts, 2021, MA2021-01, 547-547.	0.0	0

#	Article	IF	Citations
199	(Invited) Growth of Single-Walled Carbon Nanotubes with Specific Structure. ECS Meeting Abstracts, 2016, , .	0.0	0
200	(Invited) Tungsten-Based Intermetallic Compound As Catalyst for Structure-Specific Growth of Single-Walled Carbon Nanotubes. ECS Meeting Abstracts, 2017, , .	0.0	0
201	(Invited) New Aqueous Two-Phase Systems for Sorting DNA-Wrapped SWCNTs. ECS Meeting Abstracts, 2018, , .	0.0	0
202	(Invited) Structure Characterization of Intermetallic Compound Catalysts and Single-Walled Carbon Nanotubes. ECS Meeting Abstracts, 2018, , .	0.0	0
203	(Invited) In Situ Study of Cobalt-Tungsten and Cobalt Nanocrystals Under Reactive Environment. ECS Meeting Abstracts, 2019, , .	0.0	0
204	(Invited) In Situ Study on Cleation and Growth of Single-Walled Carbon Nanotubes on Catalysts. ECS Meeting Abstracts, 2020, MA2020-01, 664-664.	0.0	0
205	(Invited, Digital Presentation) Uniqueness of Cobalt-Tungsten Intermetallic Compounds in Catalyzing Single-Walled Carbon Nanotube Growth. ECS Meeting Abstracts, 2022, MA2022-01, 765-765.	0.0	0
206	(Invited, Digital Presentation) Application of Polyacid Clusters in Modifying Single-Walled Carbon Nanotubes. ECS Meeting Abstracts, 2022, MA2022-01, 723-723.	0.0	0