Yuan Chen

List of Publications by Year
in descending order

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275	22,794	9264 74	10445 139
papers	citations	h-index	g-index

283	283	283	27297
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antibacterial Activity of Graphite, Graphite Oxide, Graphene Oxide, and Reduced Graphene Oxide: Membrane and Oxidative Stress. ACS Nano, 2011, 5, 6971-6980.	14.6	2,384
2	Scalable synthesis of hierarchically structured carbon nanotubeâ€“graphene fibres for capacitive energy storage. Nature Nanotechnology, 2014, 9, 555-562.	31.5	1,312
3	A review of rechargeable batteries for portable electronic devices. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 6-32.	17.3	694
4	Structural transformation of highly active metalâ€“organic framework electrocatalysts during the oxygen evolution reaction. Nature Energy, 2020, 5, 881-890.	39.5	647
5	Lateral Dimension-Dependent Antibacterial Activity of Graphene Oxide Sheets. Langmuir, 2012, 28, 12364-12372.	3.5	498
6	Emergence of fiber supercapacitors. Chemical Society Reviews, 2015, 44, 647-662.	38.1	498
7	Sharper and Faster â€œNano Dartsâ€•Kill More Bacteria: A Study of Antibacterial Activity of Individually Dispersed Pristine Single-Walled Carbon Nanotube. ACS Nano, 2009, 3, 3891-3902.	14.6	493
8	Analysis of the Genome and Transcriptome of Cryptococcus neoformans var. grubii Reveals Complex RNA Expression and Microevolution Leading to Virulence Attenuation. PLoS Genetics, 2014, 10, e1004261.	3.5	336
9	Toward the Extraction of Single Species of Single-Walled Carbon Nanotubes Using Fluorene-Based Polymers. Nano Letters, 2007, 7, 3013-3017.	9.1	314
10	MXene Materials for Designing Advanced Separation Membranes. Advanced Materials, 2020, 32, e1906697.	21.0	295
11	Ternary Hybrids of Amorphous Nickel Hydroxideâ€“Carbon Nanotubeâ€Conducting Polymer for Supercapacitors with High Energy Density, Excellent Rate Capability, and Long Cycle Life. Advanced Functional Materials, 2015, 25, 1063-1073.	14.9	288
12	High-Purity Separation of Gold Nanoparticle Dimers and Trimers. Journal of the American Chemical Society, 2009, 131, 4218-4219.	13.7	267
13	Allâ€Carbon Nanoarchitectures as Highâ€Performance Separation Membranes with Superior Stability. Advanced Functional Materials, 2015, 25, 7348-7359.	14.9	248
14	Controlled Functionalization of Carbonaceous Fibers for Asymmetric Solidâ€State Microâ€Supercapacitors with High Volumetric Energy Density. Advanced Materials, 2014, 26, 6790-6797.	21.0	243
15	Amorphous Bimetallic Oxideâ€“Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Znâ€“Air Batteries. Advanced Materials, 2017, 29, 1701410.	21.0	243
16	Electrocatalytic hydrogen evolution under neutral pH conditions: current understandings, recent advances, and future prospects. Energy and Environmental Science, 2020, 13, 3185-3206.	30.8	225
17	Hollow Fiber Membrane Decorated with Ag/MWNTs: Toward Effective Water Disinfection and Biofouling Control. ACS Nano, 2011, 5, 10033-10040.	14.6	217
18	A Flexible Rechargeable Zincâ€“Air Battery with Excellent Lowâ€Temperature Adaptability. Angewandte Chemie - International Edition, 2020, 59, 4793-4799.	13.8	217

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19	Toward Flexible Zincâ€Ion Hybrid Capacitors with Superhigh Energy Density and Ultralong Cycling Life: The Pivotal Role of ZnCl₂ Saltâ€Based Electrolytes. Angewandte Chemie - International Edition, 2021, 60, 990-997.	13.8	215
20	Synthesis of graphene materials by electrochemical exfoliation: Recent progress and future potential. , 2019, 1, 173-199.		213
21	Graphene oxide as effective selective barriers on a hollow fiber membrane for water treatment process. Journal of Membrane Science, 2015, 474, 244-253.	8.2	211
22	Incorporation of Single-Wall Carbon Nanotubes into an Organic Polymer Monolithic Stationary Phase for Î¼-HPLC and Capillary Electrochromatography. Analytical Chemistry, 2005, 77, 1398-1406.	6.5	199
23	Recent Progress of Carbon-Supported Single-Atom Catalysts for Energy Conversion and Storage. Matter, 2020, 3, 1442-1476.	10.0	196
24	Transforming Pristine Carbon Fiber Tows into High Performance Solidâ€State Fiber Supercapacitors. Advanced Materials, 2015, 27, 4895-4901.	21.0	193
25	Recent Advances in Materials and Design of Electrochemically Rechargeable Zincâ€“Air Batteries. Small, 2018, 14, e1801929.	10.0	192
26	Carbon nanomaterials for advancing separation membranes: A strategic perspective. Carbon, 2016, 109, 694-710.	10.3	189
27	(n,m) Selectivity of Single-Walled Carbon Nanotubes by Different Carbon Precursors on Coâˆ'Mo Catalysts. Journal of the American Chemical Society, 2007, 129, 9014-9019.	13.7	184
28	Prussian blue, its analogues and their derived materials for electrochemical energy storage and conversion. Energy Storage Materials, 2020, 25, 585-612.	18.0	181
29	Graphene Materials in Antimicrobial Nanomedicine: Current Status and Future Perspectives. Advanced Healthcare Materials, 2018, 7, e1701406.	7.6	166
30	Intrinsic Activity of Metal Centers in Metalâ€“Nitrogenâ€“Carbon Single-Atom Catalysts for Hydrogen Peroxide Synthesis. Journal of the American Chemical Society, 2020, 142, 21861-21871.	13.7	163
31	Deposition of Silver Nanoparticles on Multiwalled Carbon Nanotubes Grafted with Hyperbranched Poly(amidoamine) and Their Antimicrobial Effects. Journal of Physical Chemistry C, 2008, 112, 18754-18759.	3.1	161
32	1D Supercapacitors for Emerging Electronics: Current Status and Future Directions. Advanced Materials, 2020, 32, e1902387.	21.0	158
33	Nitrogen doped holey graphene as an efficient metal-free multifunctional electrochemical catalyst for hydrazine oxidation and oxygen reduction. Nanoscale, 2013, 5, 3457.	5.6	154
34	Antibacterial action of dispersed single-walled carbon nanotubes on Escherichia coli and Bacillus subtilis investigated by atomic force microscopy. Nanoscale, 2010, 2, 2744.	5.6	153
35	Using oxidation to increase the electrical conductivity of carbon nanotube electrodes. Carbon, 2009, 47, 1867-1870.	10.3	152
36	Epitaxial Growth of CdS Nanoparticle on Bi₂S₃ Nanowire and Photocatalytic Application of the Heterostructure. Journal of Physical Chemistry C, 2011, 115, 13968-13976.	3.1	149

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37	Outbred genome sequencing and CRISPR/Cas9 gene editing in butterflies. Nature Communications, 2015, 6, 8212.	12.8	146
38	Sandwich-Architectured Poly(lactic acid)â€“Graphene Composite Food Packaging Films. ACS Applied Materials & Interfaces, 2016, 8, 9994-10004.	8.0	146
39	Homogeneous, Heterogeneous, and Biological Catalysts for Electrochemical N₂ Reduction toward NH₃ under Ambient Conditions. ACS Catalysis, 2019, 9, 5245-5267.	11.2	145
40	Flexible Zincâ€Ion Hybrid Fiber Capacitors with Ultrahigh Energy Density and Long Cycling Life for Wearable Electronics. Small, 2019, 15, e1903817.	10.0	143
41	Population genomics and the evolution of virulence in the fungal pathogen Cryptococcus neoformans. Genome Research, 2017, 27, 1207-1219.	5.5	134
42	Toward Flexible Zincâ€Ion Hybrid Capacitors with Superhigh Energy Density and Ultralong Cycling Life: The Pivotal Role of ZnCl₂ Saltâ€Based Electrolytes. Angewandte Chemie, 2021, 133, 1003-1010.	2.0	130
43	Textile energy storage: Structural design concepts, material selection and future perspectives. Energy Storage Materials, 2016, 3, 123-139.	18.0	128
44	Recent advances in nanomaterial-modified polyamide thin-film composite membranes for forward osmosis processes. Journal of Membrane Science, 2019, 584, 20-45.	8.2	128
45	Ultrathin nickel boride nanosheets anchored on functionalized carbon nanotubes as bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2019, 7, 764-774.	10.3	123
46	Nickel-grafted TUD-1 mesoporous catalysts for carbon dioxide reforming of methane. Applied Catalysis B: Environmental, 2010, 95, 374-382.	20.2	122
47	All-carbon solid-state yarn supercapacitors from activated carbon and carbon fibers for smart textiles. Materials Horizons, 2015, 2, 598-605.	12.2	120
48	Selective Synthesis of (9,8) Single Walled Carbon Nanotubes on Cobalt Incorporated TUD-1 Catalysts. Journal of the American Chemical Society, 2010, 132, 16747-16749.	13.7	119
49	How carboxylic groups improve the performance of single-walled carbon nanotube electrochemical capacitors?. Energy and Environmental Science, 2011, 4, 4220.	30.8	119
50	Enabling highly efficient, flexible and rechargeable quasi-solid-state zn-air batteries via catalyst engineering and electrolyte functionalization. Energy Storage Materials, 2019, 20, 234-242.	18.0	115
51	The Cryptococcus neoformans Transcriptome at the Site of Human Meningitis. MBio, 2014, 5, e01087-13.	4.1	113
52	Nanoâ€RuO₂â€Decorated Holey Graphene Composite Fibers for Microâ€Supercapacitors with Ultrahigh Energy Density. Small, 2018, 14, e1800582.	10.0	113
53	A hierarchically porous nickelâ€“copper phosphide nano-foam for efficient electrochemical splitting of water. Nanoscale, 2017, 9, 4401-4408.	5.6	110
54	Formation of an Endophilin-Ca2+ Channel Complex Is Critical for Clathrin-Mediated Synaptic Vesicle Endocytosis. Cell, 2003, 115, 37-48.	28.9	108

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55	Make it stereoscopic: interfacial design for full-temperature adaptive flexible zincâ€“air batteries. Energy and Environmental Science, 2021, 14, 4926-4935.	30.8	108
56	Catalysts for chirality selective synthesis of single-walled carbon nanotubes. Carbon, 2015, 81, 1-19.	10.3	106
57	Synthesis of uniform diameter single-wall carbon nanotubes in Co-MCM-41: effects of the catalyst prereduction and nanotube growth temperatures. Journal of Catalysis, 2004, 225, 453-465.	6.2	105
58	Specific and reversible immobilization of NADH oxidase on functionalized carbon nanotubes. Journal of Biotechnology, 2010, 150, 57-63.	3.8	105
59	Tracing Genetic Exchange and Biogeography of Cryptococcus neoformans var. grubii at the Global Population Level. Genetics, 2017, 207, 327-346.	2.9	105
60	A graphene-covalent organic framework hybrid for high-performance supercapacitors. Energy Storage Materials, 2020, 32, 448-457.	18.0	103
61	Individually Dispersing Single-Walled Carbon Nanotubes with Novel Neutral pH Water-Soluble Chitosan Derivatives. Journal of Physical Chemistry C, 2008, 112, 7579-7587.	3.1	102
62	Fabrication of novel functionalized multi-walled carbon nanotube immobilized hollow fiber membranes for enhanced performance in forward osmosis process. Journal of Membrane Science, 2013, 446, 244-254.	8.2	102
63	Chiral-Selective CoSO₄/SiO₂ Catalyst for (9,8) Single-Walled Carbon Nanotube Growth. ACS Nano, 2013, 7, 614-626.	14.6	101
64	Genome Evolution and Innovation across the Four Major Lineages of Cryptococcus gattii. MBio, 2015, 6, e00868-15.	4.1	101
65	Covalent immobilization of nisin on multi-walled carbon nanotubes: superior antimicrobial and anti-biofilm properties. Nanoscale, 2011, 3, 1874.	5.6	100
66	Hydrogen evolution reaction activity of nickel phosphide is highly sensitive to electrolyte pH. Journal of Materials Chemistry A, 2017, 5, 20390-20397.	10.3	98
67	A review on lithium recovery using electrochemical capturing systems. Desalination, 2021, 500, 114883.	8.2	96
68	Space-confined assembly of all-carbon hybrid fibers for capacitive energy storage: realizing a built-to-order concept for micro-supercapacitors. Energy and Environmental Science, 2016, 9, 611-622.	30.8	94
69	Coâ€“Feâ€“Cr (oxy)Hydroxides as Efficient Oxygen Evolution Reaction Catalysts. Advanced Energy Materials, 2021, 11, 2003412.	19.5	94
70	Synthesis and Characterization of Highly Ordered Ni-MCM-41 Mesoporous Molecular Sieves. Journal of Physical Chemistry B, 2005, 109, 13237-13246.	2.6	90
71	Differentiation of Gas Molecules Using Flexible and All-Carbon Nanotube Devices. Journal of Physical Chemistry C, 2008, 112, 650-653.	3.1	85
72	Toward efficient and high rate sodium-ion storage: A new insight from dopant-defect interplay in textured carbon anode materials. Energy Storage Materials, 2020, 28, 55-63.	18.0	85

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73	Transcriptional dynamics of bile salt export pump during pregnancy: Mechanisms and implications in intrahepatic cholestasis of pregnancy. Hepatology, 2014, 60, 1993-2007.	7.3	82
74	Metatranscriptomic Study of Common and Host-Specific Patterns of Gene Expression between Pines and Their Symbiotic Ectomycorrhizal Fungi in the Genus Suillus. PLoS Genetics, 2016, 12, e1006348.	3.5	82
75	A carbon science perspective in 2018: Current achievements and future challenges. Carbon, 2018, 132, 785-801.	10.3	80
76	One-Dimensional van der Waals Heterostructures as Efficient Metal-Free Oxygen Electrocatalysts. ACS Nano, 2021, 15, 3309-3319.	14.6	79
77	Inhibitory Phosphorylation of GSK-3 by CaMKII Couples Depolarization to Neuronal Survival. Journal of Biological Chemistry, 2010, 285, 41122-41134.	3.4	77
78	Carbon science perspective in 2020: Current research and future challenges. Carbon, 2020, 161, 373-391.	10.3	77
79	Naturally derived honeycomb-like N,S-codoped hierarchical porous carbon with MS₂ (M =) Tj ETQq1 1 0.784314 rgBT /O	5.6	76
80	A high-performance metal-free hydrogen-evolution reaction electrocatalyst from bacterium derived carbon. Journal of Materials Chemistry A, 2015, 3, 7210-7214.	10.3	75
81	Ethanol-Assisted Graphene Oxide-Based Thin Film Formation at Pentaneâ€“Water Interface. Langmuir, 2011, 27, 9174-9181.	3.5	73
82	Pressure-Induced Single-Walled Carbon Nanotube (n,m) Selectivity on Coâ^'Mo Catalysts. Journal of Physical Chemistry C, 2007, 111, 14612-14616.	3.1	72
83	Metatranscriptomic analysis of ectomycorrhizal roots reveals genes associated with <scp>P</scp>ilodermaâ€“<scp>P</scp>inus symbiosis: improved methodologies for assessing gene expression in situ. Environmental Microbiology, 2014, 16, 3730-3742.	3.8	71
84	2D materials for 1D electrochemical energy storage devices. Energy Storage Materials, 2019, 19, 102-123.	18.0	71
85	Carbon nanotubes for flexible batteries: recent progress and future perspective. National Science Review, 2021, 8, nwaa261.	9.5	71
86	Microevolution of Serial Clinical Isolates of Cryptococcus neoformans var. grubii and C.Âgattii. MBio, 2017, 8, .	4.1	69
87	A Young Drosophila Duplicate Gene Plays Essential Roles in Spermatogenesis by Regulating Several Y-Linked Male Fertility Genes. PLoS Genetics, 2010, 6, e1001255.	3.5	68
88	Bile salt export pump is dysregulated with altered farnesoid X receptor isoform expression in patients with hepatocellular carcinoma. Hepatology, 2013, 57, 1530-1541.	7.3	67
89	Synthesis of uniform diameter single wall carbon nanotubes inBCo-MCM-41: effects of CO pressure and reaction time. Journal of Catalysis, 2004, 226, 351-362.	6.2	66
90	The effect of the cobalt loading on the growth of single wall carbon nanotubes by CO disproportionation on Co-MCM-41 catalysts. Carbon, 2006, 44, 67-78.	10.3	64

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91	Toward High-Performance Solution-Processed Carbon Nanotube Network Transistors by Removing Nanotube Bundles. Journal of Physical Chemistry C, 2008, 112, 12089-12091.	3.1	64
92	Mesostructured SBA-16 with excellent hydrothermal, thermal and mechanical stabilities: Modified synthesis and its catalytic application. Journal of Colloid and Interface Science, 2009, 333, 317-323.	9.4	62
93	Comparative analyses of clinical and environmental populations of <scp>C</scp>ryptococcus neoformans in <scp>B</scp>otswana. Molecular Ecology, 2015, 24, 3559-3571.	3.9	61
94	Effect of different catalyst supports on the (n,m) selective growth of single-walled carbon nanotube from Coâ€“Mo catalyst. Journal of Materials Science, 2009, 44, 3285-3295.	3.7	60
95	The Mechanism of Single-Walled Carbon Nanotube Growth and Chirality Selection Induced by Carbon Atom and Dimer Addition. ACS Nano, 2010, 4, 939-946.	14.6	59
96	Rechargeable zinc-air batteries with neutral electrolytes: Recent advances, challenges, and prospects. EnergyChem, 2021, 3, 100055.	19.1	59
97	Influence of graphene oxide lateral size on the properties and performances of forward osmosis membrane. Desalination, 2020, 484, 114421.	8.2	58
98	Mechanism of Cobalt Cluster Size Control in Co-MCM-41 during Single-Wall Carbon Nanotubes Synthesis by CO Disproportionation. Journal of Physical Chemistry B, 2004, 108, 15565-15571.	2.6	57
99	Selective Enrichment of (6,5) and (8,3) Single-Walled Carbon Nanotubes via Cosurfactant Extraction from Narrow (n,m) Distribution Samples. Journal of Physical Chemistry B, 2008, 112, 2771-2774.	2.6	57
100	Metal-free bifunctional carbon electrocatalysts derived from zeolitic imidazolate frameworks for efficient water splitting. Materials Chemistry Frontiers, 2018, 2, 102-111.	5.9	57
101	Low-Defect, Purified, Narrowly (n,m)-Dispersed Single-Walled Carbon Nanotubes Grown from Cobalt-Incorporated MCM-41. ACS Nano, 2007, 1, 327-336.	14.6	56
102	Energy Transfer from Photo-Excited Fluorene Polymers to Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 14946-14952.	3.1	54
103	Big to Small: Ultrafine Mo₂C Particles Derived from Giant Polyoxomolybdate Clusters for Hydrogen Evolution Reaction. Small, 2019, 15, e1900358.	10.0	53
104	Highly dispersed manganese oxide catalysts grafted on SBA-15: Synthesis, characterization and catalytic application in trans-stilbene epoxidation. Microporous and Mesoporous Materials, 2010, 132, 501-509.	4.4	52
105	Electronic Modulation of Nickel Disulfide toward Efficient Water Electrolysis. Small, 2020, 16, e1905885.	10.0	52
106	A core-sheath holey graphene/graphite composite fiber intercalated with MoS2 nanosheets for high-performance fiber supercapacitors. Electrochimica Acta, 2019, 305, 493-501.	5.2	51
107	Thiocyanate-Modified Silver Nanofoam for Efficient CO₂ Reduction to CO. ACS Catalysis, 2020, 10, 1444-1453.	11.2	51
108	Axial chlorine coordinated iron-nitrogen-carbon single-atom catalysts for efficient electrochemical CO2 reduction. Chemical Engineering Journal, 2022, 430, 132882.	12.7	51

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109	Solutionâ€Processable Carbon Nanotubes for Semiconducting Thinâ€Film Transistor Devices. Advanced Materials, 2010, 22, 1278-1282.	21.0	50
110	Probing the Diameter Limit of Single Walled Carbon Nanotubes in SWCNT: Fullerene Solar Cells. Advanced Energy Materials, 2016, 6, 1600890.	19.5	50
111	The roles of metal-organic frameworks in modulating water permeability of graphene oxide-based carbon membranes. Carbon, 2019, 148, 277-289.	10.3	50
112	Direct synthesis of highly ordered Co-SBA-15 mesoporous materials by the pH-adjusting approach. Microporous and Mesoporous Materials, 2008, 110, 347-354.	4.4	47
113	Octahedral Coordinated Trivalent Cobalt Enriched Multimetal Oxygenâ€Evolution Catalysts. Advanced Energy Materials, 2020, 10, 2002593.	19.5	47
114	Hierarchically porous carbon nanofibers embedded with cobalt nanoparticles for efficient H2O2 detection on multiple sensor platforms. Sensors and Actuators B: Chemical, 2020, 319, 128243.	7.8	46
115	Graphene oxide laminates intercalated with 2D covalent-organic frameworks as a robust nanofiltration membrane. Journal of Materials Chemistry A, 2020, 8, 9713-9725.	10.3	46
116	Pore Curvature Effect on the Stability of Coâ^'MCM-41 and the Formation of Size-Controllable Subnanometer Co Clustersâ€. Journal of Physical Chemistry B, 2005, 109, 2285-2294.	2.6	45
117	A narrow-bandgap benzobisthiadiazole derivative with high near-infrared photothermal conversion efficiency and robust photostability for cancer therapy. Chemical Communications, 2015, 51, 4223-4226.	4.1	45
118	Milk powder-derived bifunctional oxygen electrocatalysts for rechargeable Zn-air battery. Energy Storage Materials, 2018, 11, 134-143.	18.0	45
119	Synthesis of large pore-diameter SBA-15 mesostructured spherical silica and its application in ultra-high-performance liquid chromatography. Journal of Chromatography A, 2009, 1216, 7767-7773.	3.7	44
120	Asymmetric deposition of manganese oxide in single walled carbon nanotube films as electrodes for flexible high frequency response electrochemical capacitors. Electrochimica Acta, 2012, 78, 122-132.	5.2	44
121	Microbe-derived carbon materials for electrical energy storage and conversion. Journal of Energy Chemistry, 2016, 25, 191-198.	12.9	44
122	Characterization of the Organic Component of Low-Molecular-Weight Chromium-Binding Substance and Its Binding of Chromium. Journal of Nutrition, 2011, 141, 1225-1232.	2.9	43
123	Catalytic activity atlas of ternary Coâ€“Feâ€“V metal oxides for the oxygen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 15951-15961.	10.3	43
124	Drying graphene hydrogel fibers for capacitive energy storage. Carbon, 2020, 164, 100-110.	10.3	43
125	Bacterial physiology is a key modulator of the antibacterial activity of graphene oxide. Nanoscale, 2016, 8, 17181-17189.	5.6	42
126	Low-dose chemotherapy of hepatocellular carcinoma through triggered-release from bilayer-decorated magnetoliposomes. Colloids and Surfaces B: Biointerfaces, 2014, 116, 452-458.	5.0	41

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127	Assembly of pi-functionalized quaternary ammonium compounds with graphene hydrogel for efficient water disinfection. Journal of Colloid and Interface Science, 2019, 535, 149-158.	9.4	41
128	The on-demand engineering of metal-doped porous carbon nanofibers as efficient bifunctional oxygen catalysts for high-performance flexible Znâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 7297-7308.	10.3	41
129	Effect of Co-MCM-41 Conversion to Cobalt Silicate for Catalytic Growth of Single Wall Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 20095-20101.	2.6	40
130	CoSO4/SiO2 catalyst for selective synthesis of (9, 8) single-walled carbon nanotubes: Effect of catalyst calcination. Journal of Catalysis, 2013, 300, 91-101.	6.2	38
131	Estrogen and Estrogen Receptor-Î±-Mediated Transrepression of Bile Salt Export Pump. Molecular Endocrinology, 2015, 29, 613-626.	3.7	37
132	Antimicrobial graphene materials: the interplay of complex materials characteristics and competing mechanisms. Biomaterials Science, 2018, 6, 766-773.	5.4	37
133	Recent Advances in Carbon Nanotube Utilizations in Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2004765.	14.9	37
134	Hierarchical honeycomb graphene aerogels reinforced by carbon nanotubes with multifunctional mechanical and electrical properties. Carbon, 2021, 175, 312-321.	10.3	37
135	Graphene layers on Cu and Ni (111) surfaces in layer controlled graphene growth. RSC Advances, 2013, 3, 3046.	3.6	36
136	Nanocarbon materials in water disinfection: state-of-the-art and future directions. Nanoscale, 2019, 11, 9819-9839.	5.6	35
137	3d Transitionâ€Metalâ€Mediated Columbite Nanocatalysts for Decentralized Electrosynthesis of Hydrogen Peroxide. Small, 2021, 17, e2007249.	10.0	35
138	Activity and stability comparison of immobilized NADH oxidase on multi-walled carbon nanotubes, carbon nanospheres, and single-walled carbon nanotubes. Journal of Molecular Catalysis B: Enzymatic, 2011, 69, 120-126.	1.8	34
139	Multifunctional nitrogen-rich â€œbrick-and-mortarâ€•carbon as high performance supercapacitor electrodes and oxygen reduction electrocatalysts. Journal of Materials Chemistry A, 2013, 1, 11061.	10.3	34
140	Next generation multilocus sequence typing (NGMLST) and the analytical software program MLSTEZ enable efficient, cost-effective, high-throughput, multilocus sequencing typing. Fungal Genetics and Biology, 2015, 75, 64-71.	2.1	34
141	Hydrothermal assembly of micro-nano-integrated core-sheath carbon fibers for high-performance all-carbon micro-supercapacitors. Energy Storage Materials, 2017, 9, 221-228.	18.0	34
142	The effect of synthesis solution pH on the physicochemical properties of Co substituted MCM-41. Topics in Catalysis, 2005, 34, 31-40.	2.8	33
143	Monodispersed MCM-41 large particles by modified pseudomorphic transformation: Direct diamine functionalization and application in protein bioseparation. Microporous and Mesoporous Materials, 2009, 122, 114-120.	4.4	33
144	Hybrid ternary rice paperâ€“manganese oxideâ€“carbon nanotube nanocomposites for flexible supercapacitors. Nanoscale, 2013, 5, 11108.	5.6	33

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145	Novel Poly(l-lactide)/graphene oxide films with improved mechanical flexibility and antibacterial activity. Journal of Colloid and Interface Science, 2017, 507, 344-352.	9.4	33
146	Atomic carbon adsorption on Ni nanoclusters: a DFT study. Theoretical Chemistry Accounts, 2011, 128, 17-24.	1.4	32
147	â€œSmart poisoningâ€•of Co/SiO2catalysts by sulfidation for chirality-selective synthesis of (9,8) single-walled carbon nanotubes. Nanoscale, 2016, 8, 17705-17713.	5.6	32
148	2D Material Based Advanced Membranes for Separations in Organic Solvents. Small, 2020, 16, e2003400.	10.0	31
149	Enantioselectively controlled release of chiral drug (metoprolol) using chiral mesoporous silica materials. Nanotechnology, 2010, 21, 165103.	2.6	30
150	Mechanistic insights into isoform-dependent and species-specific regulation of bile salt export pump by farnesoid X receptor. Journal of Lipid Research, 2013, 54, 3030-3044.	4.2	30
151	Synergism of Water Shock and a Biocompatible Block Copolymer Potentiates the Antibacterial Activity of Graphene Oxide. Small, 2016, 12, 951-962.	10.0	30
152	Controlling water transport in carbon nanotubes. Nano Today, 2017, 14, 13-15.	11.9	30
153	Tuning crystallization and morphology of zinc oxide with polyvinylpyrrolidone: Formation mechanisms and antimicrobial activity. Journal of Colloid and Interface Science, 2019, 546, 43-52.	9.4	30
154	Synthesis of noble metal-based intermetallic electrocatalysts by space-confined pyrolysis: Recent progress and future perspective. Journal of Energy Chemistry, 2021, 60, 61-74.	12.9	30
155	High Selectivity cum Yield Gel Electrophoresis Separation of Single-Walled Carbon Nanotubes Using a Chemically Selective Polymer Dispersant. Journal of Physical Chemistry C, 2012, 116, 10266-10273.	3.1	29
156	Pressure-retarded membrane distillation for simultaneous hypersaline brine desalination and low-grade heat harvesting. Journal of Membrane Science, 2020, 597, 117765.	8.2	29
157	Zincâ€“Air Battery-Based Desalination Device. ACS Applied Materials & Interfaces, 2020, 12, 25728-25735.	8.0	29
158	Acetoneâ€Induced Graphene Oxide Film Formation at the Waterâ€“Air Interface. Chemistry - an Asian Journal, 2013, 8, 437-443.	3.3	28
159	Non-covalent synthesis of thermo-responsive graphene oxideâ€“perylene bisimides-containing poly(N-isopropylacrylamide) hybrid for organic pigment removal. Journal of Colloid and Interface Science, 2014, 430, 121-128.	9.4	28
160	Exploring the upper limit of single-walled carbon nanotube purity by multiple-cycle aqueous two-phase separation. Nanoscale, 2017, 9, 11640-11646.	5.6	28
161	Foldable and scrollable graphene paper with tuned interlayer spacing as high areal capacity anodes for sodium-ion batteries. Energy Storage Materials, 2021, 41, 395-403.	18.0	28
162	Essential role of the LIM domain in the formation of the PKCÉ›â€“ENHâ€“N-type Ca2+ channel complex. Cellular Signalling, 2006, 18, 215-224.	3.6	27

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