Alexander Star

List of Publications by Year
in descending order

160 papers	16,343 citations	18482 62 h-index	15266 126 g-index
174 all docs	174 docs citations	174 times ranked	17549 citing authors

#	Article	IF	Citations
1	Preparation and Properties of Polymer-Wrapped Single-Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2001, 40, 1721-1725.	13.8	931
2	Electronic Detection of Specific Protein Binding Using Nanotube FET Devices. Nano Letters, 2003, 3, 459-463.	9.1	759
3	Carbon Nanotube Gas and Vapor Sensors. Angewandte Chemie - International Edition, 2008, 47, 6550-6570.	13.8	744
4	Carbon Nanotube Field-Effect-Transistor-Based Biosensors. Advanced Materials, 2007, 19, 1439-1451.	21.0	726
5	Carbon nanotubes degraded by neutrophil myeloperoxidase induce less pulmonary inflammation. Nature Nanotechnology, 2010, 5, 354-359.	31.5	698
6	Label-free detection of DNA hybridization using carbon nanotube network field-effect transistors. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 921-926.	7.1	646
7	Starched Carbon Nanotubes. Angewandte Chemie - International Edition, 2002, 41, 2508-2512.	13.8	579
8	Gas Sensor Array Based on Metal-Decorated Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 21014-21020.	2.6	542
9	Electrocatalytic Activity of Nitrogen-Doped Carbon Nanotube Cups. Journal of the American Chemical Society, 2009, 131, 13200-13201.	13.7	507
10	Biodegradation of Single-Walled Carbon Nanotubes through Enzymatic Catalysis. Nano Letters, 2008, 8, 3899-3903.	9.1	401
11	The Enzymatic Oxidation of Graphene Oxide. ACS Nano, 2011, 5, 2098-2108.	14.6	347
12	Biological interactions of carbon-based nanomaterials: From coronation to degradation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 333-351.	3.3	322
13	Nanoelectronic Carbon Dioxide Sensors. Advanced Materials, 2004, 16, 2049-2052.	21.0	294
14	Noncovalent Side-Wall Functionalization of Single-Walled Carbon Nanotubes. Macromolecules, 2003, 36, 553-560.	4.8	289
15	Mechanistic Investigations of Horseradish Peroxidase-Catalyzed Degradation of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 17194-17205.	13.7	280
16	Charge Transfer from Adsorbed Proteins. Nano Letters, 2004, 4, 253-256.	9.1	263
17	Interactions between Conjugated Polymers and Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2002, 106, 3124-3130.	2.6	223
18	Interaction of Aromatic Compounds with Carbon Nanotubes:Â Correlation to the Hammett Parameter of the Substituent and Measured Carbon Nanotube FET Response. Nano Letters, 2003, 3, 1421-1423.	9.1	204

#	Article	IF	Citations
19	Nanotube Optoelectronic Memory Devices. Nano Letters, 2004, 4, 1587-1591.	9.1	197
20	Enzymatic Degradation of Multiwalled Carbon Nanotubes. Journal of Physical Chemistry A, 2011, 115, 9536-9544.	2.5	189
21	Charge Transfer from Ammonia Physisorbed on Nanotubes. Physical Review Letters, 2003, 91, 218301.	7.8	178
22	Chemical Sensitivity of Graphene Edges Decorated with Metal Nanoparticles. Nano Letters, 2011, 11, 2342-2347.	9.1	177
23	Dispersion and Solubilization of Single-Walled Carbon Nanotubes with a Hyperbranched Polymer. Macromolecules, 2002, 35, 7516-7520.	4.8	176
24	Biodegradation of Singleâ€Walled Carbon Nanotubes by Eosinophil Peroxidase. Small, 2013, 9, 2721-2729.	10.0	171
25	Adsorption of Surfactant Lipids by Single-Walled Carbon Nanotubes in Mouse Lung upon Pharyngeal Aspiration. ACS Nano, 2012, 6, 4147-4156.	14.6	170
26	Electronically monitoring biological interactions with carbon nanotube field-effect transistors. Chemical Society Reviews, 2008, 37, 1197.	38.1	164
27	Understanding the Sensor Response of Metal-Decorated Carbon Nanotubes. Nano Letters, 2010, 10, 958-963.	9.1	161
28	Peroxidase-mediated biodegradation of carbon nanotubes in vitro and in vivo. Advanced Drug Delivery Reviews, 2013, 65, 1921-1932.	13.7	158
29	Impaired Clearance and Enhanced Pulmonary Inflammatory/Fibrotic Response to Carbon Nanotubes in Myeloperoxidase-Deficient Mice. PLoS ONE, 2012, 7, e30923.	2.5	156
30	Luminescence â€œTurn-Onâ€•Detection of Gossypol Using Ln³⁺-Based Metalâ€“Organic Frameworks and Ln³⁺ Salts. Journal of the American Chemical Society, 2020, 142, 2897-2904.	13.7	151
31	Graphene versus carbon nanotubes for chemical sensor and fuel cell applications. Analyst, The, 2010, 135, 2790.	3.5	150
32	Graphene oxide is degraded by neutrophils and the degradation products are non-genotoxic. Nanoscale, 2018, 10, 1180-1188.	5.6	148
33	A Natural Vanishing Act: The Enzyme-Catalyzed Degradation of Carbon Nanomaterials. Accounts of Chemical Research, 2012, 45, 1770-1781.	15.6	141
34	Rapid Detection of SARS-CoV-2 Antigens Using High-Purity Semiconducting Single-Walled Carbon Nanotube-Based Field-Effect Transistors. ACS Applied Materials & Interfaces, 2021, 13, 10321-10327.	8.0	139
35	Short-channel effects in contact-passivated nanotube chemical sensors. Applied Physics Letters, 2003, 83, 3821-3823.	3.3	130
36	Lung Macrophages â€œDigestâ€•Carbon Nanotubes Using a Superoxide/Peroxynitrite Oxidative Pathway. ACS Nano, 2014, 8, 5610-5621.	14.6	127

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37	Chemically Induced Potential Barriers at the Carbon Nanotubeâ˜Metal Nanoparticle Interface. Nano Letters, 2007, 7, 1863-1868.	9.1	122
38	Single-Walled Carbon Nanotube Based Molecular Switch Tunnel Junctions. ChemPhysChem, 2003, 4, 1335-1339.	2.1	121
39	Carbon nanotube sensors for exhaled breath components. Nanotechnology, 2007, 18, 375502.	2.6	119
40	Direct Effects of Carbon Nanotubes on Dendritic Cells Induce Immune Suppression Upon Pulmonary Exposure. ACS Nano, 2011, 5, 5755-5762.	14.6	116
41	Influence of Mobile Ions on Nanotube Based FET Devices. Nano Letters, 2003, 3, 639-641.	9.1	113
42	Electronic Detection of Lectins Using Carbohydrate-Functionalized Nanostructures: Graphene versus Carbon Nanotubes. ACS Nano, 2012, 6, 760-770.	14.6	112
43	Sweet carbon nanostructures: carbohydrate conjugates with carbon nanotubes and graphene and their applications. Chemical Society Reviews, 2013, 42, 4532-4542.	38.1	111
44	Phosphatidylserine Targets Single-Walled Carbon Nanotubes to Professional Phagocytes In Vitro and In Vivo. PLoS ONE, 2009, 4, e4398.	2.5	108
45	Chemical Sensing with Polyaniline Coated Singleâ€Walled Carbon Nanotubes. Advanced Materials, 2011, 23, 536-540.	21.0	101
46	Insight into the Mechanism of Graphene Oxide Degradation via the Photo-Fenton Reaction. Journal of Physical Chemistry C, 2014, 118, 10519-10529.	3.1	101
47	Nanoelectronic Detection of Lectin-Carbohydrate Interactions Using Carbon Nanotubes. Nano Letters, 2011, 11, 170-175.	9.1	96
48	Carbon Nanotube Chemiresistor for Wireless pH Sensing. Scientific Reports, 2014, 4, 4468.	3.3	95
49	Free-Standing Nitrogen-Doped Cup-Stacked Carbon Nanotube Mats for Potassium-Ion Battery Anodes. ACS Applied Energy Materials, 2018, 1, 1703-1707.	5.1	90
50	Single-Walled Carbon Nanotubes Under the Influence of Dynamic Coordination and Supramolecular Chemistry. Small, 2005, 1, 452-461.	10.0	89
51	Enzymatic oxidative biodegradation of nanoparticles: Mechanisms, significance and applications. Toxicology and Applied Pharmacology, 2016, 299, 58-69.	2.8	89
52	Fibrillar vs crystalline nanocellulose pulmonary epithelial cell responses: Cytotoxicity or inflammation?. Chemosphere, 2017, 171, 671-680.	8.2	84
53	Amplification of Dynamic Chiral Crown Ether Complexes During Cyclic Acetal Formation. Angewandte Chemie - International Edition, 2003, 42, 4220-4224.	13.8	83
54	Understanding Interfaces in Metalâ€“Graphitic Hybrid Nanostructures. Journal of Physical Chemistry Letters, 2013, 4, 147-160.	4.6	79

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55	Photoinduced Charge Transfer and Acetone Sensitivity of Single-Walled Carbon Nanotubeâ€“Titanium Dioxide Hybrids. Journal of the American Chemical Society, 2013, 135, 9015-9022.	13.7	77
56	Graphene Oxide, But Not Fullerenes, Targets Immunoproteasomes and Suppresses Antigen Presentation by Dendritic Cells. Small, 2013, 9, 1686-1690.	10.0	75
57	Welding of Gold Nanoparticles on Graphitic Templates for Chemical Sensing. Journal of the American Chemical Society, 2012, 134, 3472-3479.	13.7	73
58	Biosensors based on one-dimensional nanostructures. Journal of Materials Chemistry, 2011, 21, 8940.	6.7	70
59	Carbon Nanotube Based Gas Sensors toward Breath Analysis. ChemPlusChem, 2016, 81, 1248-1265.	2.8	70
60	Electronic Detection of the Enzymatic Degradation of Starch. Organic Letters, 2004, 6, 2089-2092.	4.6	67
61	Sensing with Nafion Coated Carbon Nanotube Field-Effect Transistors. Electroanalysis, 2004, 16, 108-112.	2.9	66
62	Gender differences in murine pulmonary responses elicited by cellulose nanocrystals. Particle and Fibre Toxicology, 2015, 13, 28.	6.2	64
63	Carbon Nanotubes Enhance Metastatic Growth of Lung Carcinoma via Upâ€Regulation of Myeloidâ€Derived Suppressor Cells. Small, 2013, 9, 1691-1695.	10.0	61
64	Extracellular entrapment and degradation of single-walled carbon nanotubes. Nanoscale, 2014, 6, 6974.	5.6	60
65	Enzymatic â€˜strippingâ€™ and degradation of PEGylated carbon nanotubes. Nanoscale, 2014, 6, 14686-14690.	5.6	54
66	Starched Carbon Nanotubes. Angewandte Chemie, 2002, 114, 2618-2622.	2.0	53
67	Electronic Detection of Bacteria Using Holey Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2014, 6, 3805-3810.	8.0	53
68	Synthesis, Characterization, and Manipulation of Nitrogen-Doped Carbon Nanotube Cups. ACS Nano, 2008, 2, 1914-1920.	14.6	51
69	Graphene Oxide Attenuates Th2-Type Immune Responses, but Augments Airway Remodeling and Hyperresponsiveness in a Murine Model of Asthma. ACS Nano, 2014, 8, 5585-5599.	14.6	51
70	Effect of antioxidants on enzyme-catalysed biodegradation of carbon nanotubes. Journal of Materials Chemistry B, 2013, 1, 302-309.	5.8	50
71	MDSC and TGFÎ² Are Required for Facilitation of Tumor Growth in the Lungs of Mice Exposed to Carbon Nanotubes. Cancer Research, 2015, 75, 1615-1623.	0.9	50
72	Lactoperoxidase-mediated degradation of single-walled carbon nanotubes in the presence of pulmonary surfactant. Carbon, 2015, 91, 506-517.	10.3	49

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73	Single-walled carbon nanotubes templated CuO networks for gas sensing. Journal of Materials Chemistry C, 2016, 4, 6575-6580.	5.5	49
74	In Situ Grown TiO₂ Nanospindles Facilitate the Formation of Holey Reduced Graphene Oxide by Photodegradation. ACS Applied Materials & Interfaces, 2016, 8, 7403-7410.	8.0	49
75	Dioxadiazadecalin/Salen Tautomeric Macrocycles and Complexes: Prototypal Dynamic Combinatorial Virtual Libraries. Angewandte Chemie - International Edition, 2000, 39, 2685-2689.	13.8	48
76	Decorated carbon nanotubes with unique oxygen sensitivity. Nature Chemistry, 2009, 1, 500-506.	13.6	48
77	Tetrahydrocannabinol Detection Using Semiconductor-Enriched Single-Walled Carbon Nanotube Chemiresistors. ACS Sensors, 2019, 4, 2084-2093.	7.8	46
78	Pulmonary exposure to cellulose nanocrystals caused deleterious effects to reproductive system in male mice. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2016, 79, 984-997.	2.3	45
79	Defect-Induced Near-Infrared Photoluminescence of Single-Walled Carbon Nanotubes Treated with Polyunsaturated Fatty Acids. Journal of the American Chemical Society, 2017, 139, 4859-4865.	13.7	44
80	Carbon Nanotubes for the Label-Free Detection of Biomarkers. ACS Nano, 2013, 7, 7448-7453.	14.6	43
81	Interactions between Single-Walled Carbon Nanotubes and Tetraphenyl Metalloporphyrins:â€‰ Correlation between Spectroscopic and FET Measurements. Journal of Physical Chemistry C, 2007, 111, 3539-3543.	3.1	42
82	Effective and Low-Cost Platinum Electrodes for Microbial Fuel Cells Deposited by Electron Beam Evaporation. Energy & Fuels, 2007, 21, 2984-2990.	5.1	42
83	The effect of temperature on the growth of carbon nanotubes on copper foil using a nickel thin film as catalyst. Thin Solid Films, 2011, 519, 5371-5375.	1.8	41
84	Electrochemical characterization of carbon nanotube forests grown on copper foil using transition metal catalysts. Thin Solid Films, 2011, 520, 1651-1655.	1.8	40
85	Block copolymer-templated nitrogen-enriched nanocarbons with morphology-dependent electrocatalytic activity for oxygen reduction. Chemical Science, 2014, 5, 3315.	7.4	40
86	Exploring the Chemical Sensitivity of a Carbon Nanotube/Green Tea Composite. ACS Nano, 2010, 4, 6854-6862.	14.6	38
87	The Effect of Metal Catalyst on the Electrocatalytic Activity of Nitrogen-Doped Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 25213-25221.	3.1	36
88	Nano-Gold Corking and Enzymatic Uncorking of Carbon Nanotube Cups. Journal of the American Chemical Society, 2015, 137, 675-684.	13.7	36
89	Perovskite solar cells based on bottom-fused TiO₂nanocones. Journal of Materials Chemistry A, 2016, 4, 1520-1530.	10.3	36
90	Indium Oxideâ€”Single-Walled Carbon Nanotube Composite for Ethanol Sensing at Room Temperature. Journal of Physical Chemistry Letters, 2015, 6, 712-717.	4.6	34

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91	Growth of ZIF-8 on molecularly ordered 2-methylimidazole/single-walled carbon nanotubes to form highly porous, electrically conductive composites. Chemical Science, 2019, 10, 737-742.	7.4	34
92	In Vitro Toxicity Evaluation of Lignin-(Un)coated Cellulose Based Nanomaterials on Human A549 and THP-1 Cells. Biomacromolecules, 2016, 17, 3464-3473.	5.4	33
93	Sensing Reversible Proteinâ€“Ligand Interactions with Single-Walled Carbon Nanotube Field-Effect Transistors. Journal of Physical Chemistry C, 2014, 118, 17193-17199.	3.1	32
94	Diazadioxadecalin and salen podands and macrocycles within dynamic combinatorial virtual libraries: structure, prototropy, complexation and enantioselective catalysis. Journal of Organometallic Chemistry, 2001, 630, 67-77.	1.8	29
95	Corking Carbon Nanotube Cups with Gold Nanoparticles. ACS Nano, 2012, 6, 6912-6921.	14.6	28
96	Uncondensed Graphitic Carbon Nitride on Reduced Graphene Oxide for Oxygen Sensing via a Photoredox Mechanism. ACS Applied Materials & Interfaces, 2017, 9, 27142-27151.	8.0	28
97	Mechanism of Formation and Stabilities of the New Dioxadiazadecalin Systems. Ringâ^'Chain Tautomerism1. Journal of Organic Chemistry, 1999, 64, 1166-1172.	3.2	27
98	Long-Term Performance of Pt-Decorated Carbon Nanotube Cathodes in Phosphoric Acid Fuel Cells. Energy & Fuels, 2010, 24, 1877-1881.	5.1	25
99	Machine-Learning Identification of the Sensing Descriptors Relevant in Molecular Interactions with Metal Nanoparticle-Decorated Nanotube Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 1219-1227.	8.0	25
100	Breath Acetone Sensing Based on Single-Walled Carbon Nanotubeâ€“Titanium Dioxide Hybrids Enabled by a Custom-Built Dehumidifier. ACS Sensors, 2021, 6, 871-880.	7.8	22
101	Simultaneous Spectroscopic and Solid-State Electronic Measurement of Single-Walled Carbon Nanotube Devices. Journal of Physical Chemistry C, 2008, 112, 4430-4434.	3.1	21
102	Nanoelectronic Discrimination of Nonmalignant and Malignant Cells Using Nanotube Field-Effect Transistors. ACS Sensors, 2017, 2, 1128-1132.	7.8	20
103	Targeting myeloid regulators by paclitaxel-loaded enzymatically degradable nanocups. Nanoscale, 2018, 10, 17990-18000.	5.6	20
104	Selecting Fruits with Carbon Nanotube Sensors. Angewandte Chemie - International Edition, 2012, 51, 7637-7638.	13.8	19
105	Fabrication of Holey Graphene: Catalytic Oxidation by Metalloporphyrinâ€Based Covalent Organic Framework Immobilized on Highly Ordered Pyrolytic Graphite. Chemistry - A European Journal, 2017, 23, 5652-5657.	3.3	19
106	Machine learning-assisted calibration of Hg2+ sensors based on carbon nanotube field-effect transistors. Biosensors and Bioelectronics, 2021, 180, 113085.	10.1	19
107	Singleâ€Walled Carbonâ€Nanotube Spectroscopic and Electronic Fieldâ€Effect Transistor Measurements: A Combined Approach. Small, 2007, 3, 1324-1329.	10.0	18
108	Electrochemical Detection with Platinum Decorated Carbon Nanomaterials. Electroanalysis, 2011, 23, 870-877.	2.9	18

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109	Rigid versus Flexible Ligands on Carbon Nanotubes for the Enhanced Sensitivity of Cobalt Ions. Macromolecules, 2013, 46, 1376-1383.	4.8	18
110	Enzyme-Catalyzed Oxidation Facilitates the Return of Fluorescence for Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2013, 135, 13356-13364.	13.7	18
111	Synthesis of One-Dimensional SiC Nanostructures from a Glassy Buckypaper. ACS Applied Materials & Interfaces, 2013, 5, 1928-1936.	8.0	16
112	Probing Ca²⁺-induced conformational change of calmodulin with gold nanoparticle-decorated single-walled carbon nanotube field-effect transistors. Nanoscale, 2019, 11, 13397-13406.	5.6	16
113	Size Discrimination of Carbohydrates via Conductive Carbon Nanotube@Metal Organic Framework Composites. Journal of the American Chemical Society, 2021, 143, 8022-8033.	13.7	16
114	A new class of heterobicyclic systems: Dioxadiazadecalins. Tetrahedron Letters, 1997, 38, 3573-3576.	1.4	15
115	Payload drug vs. nanocarrier biodegradation by myeloperoxidase- and peroxynitrite-mediated oxidations: pharmacokinetic implications. Nanoscale, 2015, 7, 8689-8694.	5.6	15
116	trans- and cis-1,3,5,7-Tetraazadecalin (TAD). A New and Strong Binding Mode in cis-TAD Chelates of Heavy Metal Ions. Tetrahedron Letters, 1997, 38, 8073-8076.	1.4	14
117	The Stereoisomeric Diaminobutanediol and Dioxadiazadecalin Systems: Synthesis, Structure, Stereoelectronics, and Conformation â€“ Theory vs. Experiment. European Journal of Organic Chemistry, 1999, 1999, 2033-2043.	2.4	14
118	Substrate placement angle-dependent growth of dandelion-like TiO₂nanorods for solid-state semiconductor-sensitized solar cells. RSC Advances, 2014, 4, 53335-53343.	3.6	14
119	Modification of Carbon Nitride/Reduced Graphene Oxide van der Waals Heterostructure with Copper Nanoparticles To Improve CO₂ Sensitivity. ACS Applied Materials & Interfaces, 2019, 11, 41588-41594.	8.0	14
120	Holey Graphene Metal Nanoparticle Composites via Crystalline Polymer Templated Etching. Nano Letters, 2019, 19, 2824-2831.	9.1	14
121	â€œZeroâ€Dimensionalâ€•Singleâ€Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2013, 52, 11308-11312.	13.8	13
122	A System for Simple Real-Time Anastomotic Failure Detection and Wireless Blood Flow Monitoring in the Lower Limbs. IEEE Journal of Translational Engineering in Health and Medicine, 2016, 4, 1-15.	3.7	13
123	[2Ï€ + 2Ï€] Photocycloaddition of Enones to Single-Walled Carbon Nanotubes Creates Fluorescent Quantum Defects. ACS Nano, 2021, 15, 4833-4844.	14.6	13
124	Controlling the volumetric parameters of nitrogen-doped carbon nanotube cups. Nanoscale, 2010, 2, 1105.	5.6	11
125	Photoluminescence Response in Carbon Nanomaterials to Enzymatic Degradation. Analytical Chemistry, 2020, 92, 12880-12890.	6.5	11
126	Ultra-small TiO₂nanowire forests on transparent conducting oxide for solid-state semiconductor-sensitized solar cells. RSC Advances, 2014, 4, 46987-46991.	3.6	10

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127	Oxidative Unzipping of Stacked Nitrogen-Doped Carbon Nanotube Cups. ACS Applied Materials & Interfaces, 2015, 7, 10734-10741.	8.0	10
128	Nanoemitters and innate immunity: the role of surfactants and bio-coronas in myeloperoxidase-catalyzed oxidation of pristine single-walled carbon nanotubes. Nanoscale, 2017, 9, 5948-5956.	5.6	9
129	Probing Biomolecular Interactions with Gold Nanoparticle-Decorated Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2017, 121, 20813-20820.	3.1	9
130	A Carbon Nanotube Sensor Array for the Label-Free Discrimination of Live and Dead Cells with Machine Learning. Analytical Chemistry, 2022, 94, 3565-3573.	6.5	9
131	Metalâ€“Organic Frameworks on Palladium Nanoparticleâ€“Functionalized Carbon Nanotubes for Monitoring Hydrogen Storage. ACS Applied Nano Materials, 2022, 5, 13779-13786.	5.0	9
132	Novel Dioxadiazadecalin Podands and Their Heavy Metal Ion Complexes. European Journal of Organic Chemistry, 2001, 2001, 729-734.	2.4	8
133	Efficient separation of nitrogen-doped carbon nanotube cups. Carbon, 2014, 80, 583-590.	10.3	8
134	Polybenzobisimidazoleâ€derived twoâ€dimensional supramolecular polymer. Journal of Polymer Science Part A, 2017, 55, 1095-1101.	2.3	7
135	Heterogeneous Growth of UiO-66-NH₂ on Oxidized Single-Walled Carbon Nanotubes to Form â€œBeads-on-a-Stringâ€•Composites. ACS Applied Materials & Interfaces, 2021, 13, 15482-15489.	8.0	7
136	Cerebrospinal Fluid Leak Detection with a Carbon Nanotube-Based Field-Effect Transistor Biosensing Platform. ACS Applied Materials & Interfaces, 2022, 14, 1684-1691.	8.0	7
137	Detection of Stress Hormone with Semiconducting Single-Walled Carbon Nanotube-Based Field-Effect Transistors. Journal of the Electrochemical Society, 2022, 169, 057519.	2.9	7
138	Carbon Nanotubes: Biodegradation of Single-Walled Carbon Nanotubes by Eosinophil Peroxidase (Small 16/2013). Small, 2013, 9, 2720-2720.	10.0	6
139	Cyclotriveratryleneâ€Based Glycoclusters as High Affinity Ligands of Bacterial Lectins from <i>Pseudomonas aeruginosa</i> and <i>Burkholderia ambifaria</i>. ChemistrySelect, 2016, 1, 5863-5868.	1.5	6
140	Oligomer Hydrate Crystallization Improves Carbon Nanotube Memory. Chemistry of Materials, 2018, 30, 3813-3818.	6.7	6
141	Picking Flowers with Carbon Nanotube Sensors. ACS Central Science, 2020, 6, 461-463.	11.3	6
142	Corking Nitrogenâ€Doped Carbon Nanotube Cups with Gold Nanoparticles for Biodegradable Drug Delivery Applications. Current Protocols in Chemical Biology, 2015, 7, 249-262.	1.7	6
143	Synthesis and Functionalization of Nitrogen-doped Carbon Nanotube Cups with Gold Nanoparticles as Cork Stoppers. Journal of Visualized Experiments, 2013, , e50383.	0.3	5
144	Bacterial Vaginosis Monitoring with Carbon Nanotube Field-Effect Transistors. Analytical Chemistry, 2022, 94, 3849-3857.	6.5	5

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145	Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. IEEE Transactions on Biomedical Engineering, 2018, 65, 2290-2297.	4.2	4
146	Characterizing the Cellular Response to Nitrogen-Doped Carbon Nanocups. Nanomaterials, 2019, 9, 887.	4.1	4
147	Synthesis of Holey Graphene Nanoparticle Compounds. ACS Applied Materials & Interfaces, 2020, 12, 36513-36522.	8.0	4
148	Composition and Structure of Fluorescent Graphene Quantum Dots Generated by Enzymatic Degradation of Graphene Oxide. Journal of Physical Chemistry C, 2021, 125, 13361-13369.	3.1	4
149	Nitrogen-Doped Carbon Nanotube Cups for Cancer Therapy. ACS Applied Nano Materials, 2022, 5, 13685-13696.	5.0	4
150	Sensors Best Paper Award 2013. Sensors, 2013, 13, 2113-2116.	3.8	2
151	Growth of Carbon Nanotubes on Copper Substrates Using a Nickel Thin Film Catalyst. Materials Research Society Symposia Proceedings, 2009, 1204, 1.	0.1	1
152	Detection of Lectins using Glyco-Functionalized Nanosensors. Materials Research Society Symposia Proceedings, 2012, 1451, 191-196.	0.1	1
153	Sensors Best Paper Award 2014. Sensors, 2014, 14, 1898-1901.	3.8	1
154	Graphitic Nanocapsules. Advanced Materials, 2009, 21, 4692-4695.	21.0	0
155	Synthesis and Morphology Control of Carbon Nanotube/Polyaniline Composite for Chemical Sensing. Materials Research Society Symposia Proceedings, 2012, 1408, 119.	0.1	0
156	Sensors Best Paper Award 2015. Sensors, 2015, 15, 2228-2231.	3.8	0
157	Frontispiece: Fabrication of Holey Graphene: Catalytic Oxidation by Metalloporphyrinâ€Based Covalent Organic Framework Immobilized on Highly Ordered Pyrolytic Graphite. Chemistry - A European Journal, 2017, 23, .	3.3	0
158	In situ Insights into the Uncorking and Oxidative Decomposition Dynamics of Gold Nanoparticle Corked Carbon Nanotube Cups for Drug Delivery. Microscopy and Microanalysis, 2018, 24, 308-309.	0.4	0
159	(Invited) Photoluminescence Study of Carbon Nanomaterial Interactions with the Immune System. ECS Meeting Abstracts, 2021, MA2021-01, 514-514.	0.0	0
160	(Invited) Cerebrospinal Fluid Leakage Detection with Carbon Nanotube-Based Field-Effect Transistors. ECS Meeting Abstracts, 2022, MA2022-01, 699-699.	0.0	0