

Alexander Star

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

154
papers

14,241
citations

59
h-index

118
g-index

174
ext. papers

15,369
ext. citations

9.6
avg, IF

6.51
L-index

#	Paper	IF	Citations
154	Preparation and Properties of Polymer-Wrapped Single-Walled Carbon Nanotubes We would like to acknowledge the following agencies and foundations for supporting various aspects of this work: the polymer synthesis and spectroscopic characterization of the nanotube-polymer complex was funded by ONR; the chemical preparation and AFM analysis of these materials was supported by the NSF; device fabrication and characterization of the nanotube-based sensors was supported by the NSA and the nonlinear microscopy experiments were supported by the Army Research Office.	16.4	840
153	Carbon nanotube gas and vapor sensors. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6550-70	16.4	676
152	Electronic Detection of Specific Protein Binding Using Nanotube FET Devices. <i>Nano Letters</i> , 2003 , 3, 459-463	16.3	672
151	Carbon Nanotube Field-Effect-Transistor-Based Biosensors. <i>Advanced Materials</i> , 2007 , 19, 1439-1451	24	639
150	Carbon nanotubes degraded by neutrophil myeloperoxidase induce less pulmonary inflammation. <i>Nature Nanotechnology</i> , 2010 , 5, 354-9	28.7	600
149	Label-free detection of DNA hybridization using carbon nanotube network field-effect transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 921-6	11.5	587
148	Starched carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2508-12	16.4	529
147	Gas sensor array based on metal-decorated carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 21014-20	3.4	491
146	Electrocatalytic activity of nitrogen-doped carbon nanotube cups. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13200-1	16.4	482
145	Biodegradation of single-walled carbon nanotubes through enzymatic catalysis. <i>Nano Letters</i> , 2008 , 8, 3899-903	11.5	346
144	The enzymatic oxidation of graphene oxide. <i>ACS Nano</i> , 2011 , 5, 2098-108	16.7	313
143	Noncovalent Side-Wall Functionalization of Single-Walled Carbon Nanotubes. <i>Macromolecules</i> , 2003 , 36, 553-560	5.5	265
142	Nanoelectronic Carbon Dioxide Sensors. <i>Advanced Materials</i> , 2004 , 16, 2049-2052	24	263
141	Biological interactions of carbon-based nanomaterials: From coronation to degradation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 333-51	6	250
140	Mechanistic investigations of horseradish peroxidase-catalyzed degradation of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17194-205	16.4	243
139	Charge Transfer from Adsorbed Proteins. <i>Nano Letters</i> , 2004 , 4, 253-256	11.5	241
138	Interactions between Conjugated Polymers and Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 3124-3130	3.4	204

137	Interaction of Aromatic Compounds with Carbon Nanotubes: Correlation to the Hammett Parameter of the Substituent and Measured Carbon Nanotube FET Response. <i>Nano Letters</i> , 2003 , 3, 1421-1423	11.5	190
136	Nanotube Optoelectronic Memory Devices. <i>Nano Letters</i> , 2004 , 4, 1587-1591	11.5	176
135	Enzymatic degradation of multiwalled carbon nanotubes. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 9536-44	2.8	167
134	Charge transfer from ammonia physisorbed on nanotubes. <i>Physical Review Letters</i> , 2003 , 91, 218301	7.4	165
133	Dispersion and Solubilization of Single-Walled Carbon Nanotubes with a Hyperbranched Polymer. <i>Macromolecules</i> , 2002 , 35, 7516-7520	5.5	164
132	Chemical sensitivity of graphene edges decorated with metal nanoparticles. <i>Nano Letters</i> , 2011 , 11, 2342-7.5	11.5	163
131	Electronically monitoring biological interactions with carbon nanotube field-effect transistors. <i>Chemical Society Reviews</i> , 2008 , 37, 1197-206	58.5	153
130	Impaired clearance and enhanced pulmonary inflammatory/fibrotic response to carbon nanotubes in myeloperoxidase-deficient mice. <i>PLoS ONE</i> , 2012 , 7, e30923	3.7	145
129	Adsorption of surfactant lipids by single-walled carbon nanotubes in mouse lung upon pharyngeal aspiration. <i>ACS Nano</i> , 2012 , 6, 4147-56	16.7	145
128	Biodegradation of single-walled carbon nanotubes by eosinophil peroxidase. <i>Small</i> , 2013 , 9, 2721-9, 27201	11.5	145
127	Understanding the sensor response of metal-decorated carbon nanotubes. <i>Nano Letters</i> , 2010 , 10, 958-63.5	11.5	143
126	Graphene versus carbon nanotubes for chemical sensor and fuel cell applications. <i>Analyst, The</i> , 2010 , 135, 2790-7	5	138
125	Peroxidase-mediated biodegradation of carbon nanotubes in vitro and in vivo. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 1921-32	18.5	136
124	A natural vanishing act: the enzyme-catalyzed degradation of carbon nanomaterials. <i>Accounts of Chemical Research</i> , 2012 , 45, 1770-81	24.3	130
123	Chemically induced potential barriers at the carbon nanotube-metal nanoparticle interface. <i>Nano Letters</i> , 2007 , 7, 1863-8	11.5	118
122	Short-channel effects in contact-passivated nanotube chemical sensors. <i>Applied Physics Letters</i> , 2003 , 83, 3821-3823	3.4	117
121	Single-walled carbon nanotube based molecular switch tunnel junctions. <i>ChemPhysChem</i> , 2003 , 4, 1335-9.2	9.2	109
120	Electronic detection of lectins using carbohydrate-functionalized nanostructures: graphene versus carbon nanotubes. <i>ACS Nano</i> , 2012 , 6, 760-70	16.7	104

119	Carbon nanotube sensors for exhaled breath components. <i>Nanotechnology</i> , 2007 , 18, 375502	3.4	104
118	Direct effects of carbon nanotubes on dendritic cells induce immune suppression upon pulmonary exposure. <i>ACS Nano</i> , 2011 , 5, 5755-62	16.7	103
117	Lung macrophages "digest" carbon nanotubes using a superoxide/peroxynitrite oxidative pathway. <i>ACS Nano</i> , 2014 , 8, 5610-21	16.7	102
116	Influence of Mobile Ions on Nanotube Based FET Devices. <i>Nano Letters</i> , 2003 , 3, 639-641	11.5	102
115	Sweet carbon nanostructures: carbohydrate conjugates with carbon nanotubes and graphene and their applications. <i>Chemical Society Reviews</i> , 2013 , 42, 4532-42	58.5	100
114	Graphene oxide is degraded by neutrophils and the degradation products are non-genotoxic. <i>Nanoscale</i> , 2018 , 10, 1180-1188	7.7	100
113	Phosphatidylserine targets single-walled carbon nanotubes to professional phagocytes in vitro and in vivo. <i>PLoS ONE</i> , 2009 , 4, e4398	3.7	94
112	Chemical sensing with polyaniline coated single-walled carbon nanotubes. <i>Advanced Materials</i> , 2011 , 23, 536-40	24	92
111	Nanoelectronic detection of lectin-carbohydrate interactions using carbon nanotubes. <i>Nano Letters</i> , 2011 , 11, 170-5	11.5	92
110	Insight into the Mechanism of Graphene Oxide Degradation via the Photo-Fenton Reaction. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10519-10529	3.8	85
109	Single-walled carbon nanotubes under the influence of dynamic coordination and supramolecular chemistry. <i>Small</i> , 2005 , 1, 452-61	11	79
108	Luminescence "Turn-On" Detection of Gossypol Using Ln-Based Metal-Organic Frameworks and Ln Salts. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2897-2904	16.4	78
107	Understanding Interfaces in Metal-Graphitic Hybrid Nanostructures. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 147-60	6.4	75
106	Amplification of dynamic chiral crown ether complexes during cyclic acetal formation. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4220-4	16.4	74
105	Enzymatic oxidative biodegradation of nanoparticles: Mechanisms, significance and applications. <i>Toxicology and Applied Pharmacology</i> , 2016 , 299, 58-69	4.6	72
104	Free-Standing Nitrogen-Doped Cup-Stacked Carbon Nanotube Mats for Potassium-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1703-1707	6.1	71
103	Photoinduced charge transfer and acetone sensitivity of single-walled carbon nanotube-titanium dioxide hybrids. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9015-22	16.4	68
102	Preparation and Properties of Polymer-Wrapped Single-Walled Carbon Nanotubes. <i>Angewandte Chemie</i> , 2001 , 113, 1771-1775	3.6	67

101	Welding of gold nanoparticles on graphitic templates for chemical sensing. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3472-9	16.4	64
100	Carbon nanotube chemiresistor for wireless pH sensing. <i>Scientific Reports</i> , 2014 , 4, 4468	4.9	63
99	Fibrillar vs crystalline nanocellulose pulmonary epithelial cell responses: Cytotoxicity or inflammation?. <i>Chemosphere</i> , 2017 , 171, 671-680	8.4	60
98	Gender differences in murine pulmonary responses elicited by cellulose nanocrystals. <i>Particle and Fibre Toxicology</i> , 2016 , 13, 28	8.4	59
97	Graphene oxide, but not fullerenes, targets immunoproteasomes and suppresses antigen presentation by dendritic cells. <i>Small</i> , 2013 , 9, 1686-90	11	59
96	Biosensors based on one-dimensional nanostructures. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8940		59
95	Sensing with Nafion Coated Carbon Nanotube Field-Effect Transistors. <i>Electroanalysis</i> , 2004 , 16, 108-112		59
94	Electronic detection of the enzymatic degradation of starch. <i>Organic Letters</i> , 2004 , 6, 2089-92	6.2	54
93	Rapid Detection of SARS-CoV-2 Antigens Using High-Purity Semiconducting Single-Walled Carbon Nanotube-Based Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10321-10327	9.5	54
92	Extracellular entrapment and degradation of single-walled carbon nanotubes. <i>Nanoscale</i> , 2014 , 6, 6974-83	8.7	53
91	Carbon Nanotube Based Gas Sensors toward Breath Analysis. <i>ChemPlusChem</i> , 2016 , 81, 1248-1265	2.8	52
90	Carbon nanotubes enhance metastatic growth of lung carcinoma via up-regulation of myeloid-derived suppressor cells. <i>Small</i> , 2013 , 9, 1691-5	11	51
89	Starched Carbon Nanotubes. <i>Angewandte Chemie</i> , 2002 , 114, 2618-2622	3.6	50
88	Synthesis, characterization, and manipulation of nitrogen-doped carbon nanotube cups. <i>ACS Nano</i> , 2008 , 2, 1914-20	16.7	47
87	Electronic detection of bacteria using holey reduced graphene oxide. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3805-10	9.5	45
86	Decorated carbon nanotubes with unique oxygen sensitivity. <i>Nature Chemistry</i> , 2009 , 1, 500-6	17.6	44
85	MDSC and TGF β Are Required for Facilitation of Tumor Growth in the Lungs of Mice Exposed to Carbon Nanotubes. <i>Cancer Research</i> , 2015 , 75, 1615-23	10.1	43
84	Effect of antioxidants on enzyme-catalysed biodegradation of carbon nanotubes. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 302-309	7.3	43

83	In Situ Grown TiO ₂ Nanospindles Facilitate the Formation of Holey Reduced Graphene Oxide by Photodegradation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7403-10	9.5	42
82	Enzymatic 'stripping' and degradation of PEGylated carbon nanotubes. <i>Nanoscale</i> , 2014 , 6, 14686-90	7.7	42
81	Graphene oxide attenuates Th2-type immune responses, but augments airway remodeling and hyperresponsiveness in a murine model of asthma. <i>ACS Nano</i> , 2014 , 8, 5585-99	16.7	41
80	Interactions between Single-Walled Carbon Nanotubes and Tetraphenyl Metalloporphyrins: Correlation between Spectroscopic and FET Measurements. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 3539-3543	3.8	40
79	Dioxadiazadecalin/Salen Tautomeric Macrocycles and Complexes: Prototypal Dynamic Combinatorial Virtual Libraries. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 2685-2689	16.4	40
78	Effective and Low-Cost Platinum Electrodes for Microbial Fuel Cells Deposited by Electron Beam Evaporation. <i>Energy & Fuels</i> , 2007 , 21, 2984-2990	4.1	39
77	Block copolymer-templated nitrogen-enriched nanocarbons with morphology-dependent electrocatalytic activity for oxygen reduction. <i>Chemical Science</i> , 2014 , 5, 3315	9.4	37
76	Carbon nanotubes for the label-free detection of biomarkers. <i>ACS Nano</i> , 2013 , 7, 7448-53	16.7	37
75	Lactoperoxidase-mediated degradation of single-walled carbon nanotubes in the presence of pulmonary surfactant. <i>Carbon</i> , 2015 , 91, 506-517	10.4	37
74	Electrochemical characterization of carbon nanotube forests grown on copper foil using transition metal catalysts. <i>Thin Solid Films</i> , 2011 , 520, 1651-1655	2.2	37
73	Exploring the chemical sensitivity of a carbon nanotube/green tea composite. <i>ACS Nano</i> , 2010 , 4, 6854-626.7	6.7	37
72	The effect of temperature on the growth of carbon nanotubes on copper foil using a nickel thin film as catalyst. <i>Thin Solid Films</i> , 2011 , 519, 5371-5375	2.2	37
71	Pulmonary exposure to cellulose nanocrystals caused deleterious effects to reproductive system in male mice. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2016 , 79, 984-997	3.2	37
70	Single-walled carbon nanotubes templated CuO networks for gas sensing. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6575-6580	7.1	36
69	The Effect of Metal Catalyst on the Electrocatalytic Activity of Nitrogen-Doped Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25213-25221	3.8	34
68	Gas- und Dampfsensoren auf der Basis von Kohlenstoff-Nanoröhren. <i>Angewandte Chemie</i> , 2008 , 120, 6652-6673	3.6	32
67	Defect-Induced Near-Infrared Photoluminescence of Single-Walled Carbon Nanotubes Treated with Polyunsaturated Fatty Acids. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4859-4865	16.4	31
66	Perovskite solar cells based on bottom-fused TiO ₂ nanocones. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1520-1530	13	30

65	Nano-gold corking and enzymatic uncorking of carbon nanotube cups. <i>Journal of the American Chemical Society</i> , 2015 , 137, 675-84	16.4	30
64	Indium Oxide-Single-Walled Carbon Nanotube Composite for Ethanol Sensing at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 712-7	6.4	30
63	Corking carbon nanotube cups with gold nanoparticles. <i>ACS Nano</i> , 2012 , 6, 6912-21	16.7	26
62	Diazadioxadecalin and salen podands and macrocycles within dynamic combinatorial virtual libraries: structure, prototropy, complexation and enantioselective catalysis. <i>Journal of Organometallic Chemistry</i> , 2001 , 630, 67-77	2.3	26
61	Tetrahydrocannabinol Detection Using Semiconductor-Enriched Single-Walled Carbon Nanotube Chemiresistors. <i>ACS Sensors</i> , 2019 , 4, 2084-2093	9.2	25
60	Mechanism of Formation and Stabilities of the New Dioxadiazadecalin Systems. Ring-chain Tautomerism1. <i>Journal of Organic Chemistry</i> , 1999 , 64, 1166-1172	4.2	25
59	Growth of ZIF-8 on molecularly ordered 2-methylimidazole/single-walled carbon nanotubes to form highly porous, electrically conductive composites. <i>Chemical Science</i> , 2019 , 10, 737-742	9.4	24
58	Sensing Reversible Protein-Ligand Interactions with Single-Walled Carbon Nanotube Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17193-17199	3.8	24
57	Amplification of Dynamic Chiral Crown Ether Complexes During Cyclic Acetal Formation. <i>Angewandte Chemie</i> , 2003 , 115, 4352-4356	3.6	24
56	Long-Term Performance of Pt-Decorated Carbon Nanotube Cathodes in Phosphoric Acid Fuel Cells. <i>Energy & Fuels</i> , 2010 , 24, 1877-1881	4.1	23
55	In Vitro Toxicity Evaluation of Lignin-(Un)coated Cellulose Based Nanomaterials on Human A549 and THP-1 Cells. <i>Biomacromolecules</i> , 2016 , 17, 3464-3473	6.9	22
54	Simultaneous Spectroscopic and Solid-State Electronic Measurement of Single-Walled Carbon Nanotube Devices. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4430-4434	3.8	20
53	Uncondensed Graphitic Carbon Nitride on Reduced Graphene Oxide for Oxygen Sensing via a Photoredox Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27142-27151	9.5	19
52	Electrochemical Detection with Platinum Decorated Carbon Nanomaterials. <i>Electroanalysis</i> , 2011 , 23, 870-877	3	17
51	Single-walled carbon-nanotube spectroscopic and electronic field-effect transistor measurements: a combined approach. <i>Small</i> , 2007 , 3, 1324-9	11	17
50	Synthesis of one-dimensional SiC nanostructures from a glassy buckypaper. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1928-36	9.5	16
49	Fabrication of Holey Graphene: Catalytic Oxidation by Metalloporphyrin-Based Covalent Organic Framework Immobilized on Highly Ordered Pyrolytic Graphite. <i>Chemistry - A European Journal</i> , 2017 , 23, 5652-5657	4.8	15
48	Rigid versus Flexible Ligands on Carbon Nanotubes for the Enhanced Sensitivity of Cobalt Ions. <i>Macromolecules</i> , 2013 , 46, 1376-1383	5.5	15

47	Nanoelectronic Discrimination of Nonmalignant and Malignant Cells Using Nanotube Field-Effect Transistors. <i>ACS Sensors</i> , 2017 , 2, 1128-1132	9.2	15
46	Selecting fruits with carbon nanotube sensors. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7637-7640	16.4	15
45	Enzyme-catalyzed oxidation facilitates the return of fluorescence for single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13356-64	16.4	15
44	Dioxadiazadecalin/Salen Tautomeric Macrocycles and Complexes: Prototypal Dynamic Combinatorial Virtual Libraries. <i>Angewandte Chemie</i> , 2000 , 112, 2797-2801	3.6	15
43	Payload drug vs. nanocarrier biodegradation by myeloperoxidase- and peroxyxynitrite-mediated oxidations: pharmacokinetic implications. <i>Nanoscale</i> , 2015 , 7, 8689-94	7.7	14
42	Machine-Learning Identification of the Sensing Descriptors Relevant in Molecular Interactions with Metal Nanoparticle-Decorated Nanotube Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1219-1227	9.5	14
41	trans- and cis-1,3,5,7-Tetraazadecalin (TAD). A New and Strong Binding Mode in cis-TAD Chelates of Heavy Metal Ions. <i>Tetrahedron Letters</i> , 1997 , 38, 8073-8076	2	13
40	The Stereoisomeric Diaminobutanediol and Dioxadiazadecalin Systems: Synthesis, Structure, Stereoelectronics, and Conformation Theory vs. Experiment. <i>European Journal of Organic Chemistry</i> , 1999 , 1999, 2033-2043	3.2	13
39	Substrate placement angle-dependent growth of dandelion-like TiO ₂ nanorods for solid-state semiconductor-sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 53335-53343	3.7	12
38	"Zero-dimensional" single-walled carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11308-12	16.4	12
37	A new class of heterobicyclic systems: Dioxadiazadecalins. <i>Tetrahedron Letters</i> , 1997 , 38, 3573-3576	2	12
36	Targeting myeloid regulators by paclitaxel-loaded enzymatically degradable nanocups. <i>Nanoscale</i> , 2018 , 10, 17990-18000	7.7	11
35	Holey Graphene Metal Nanoparticle Composites via Crystalline Polymer Templated Etching. <i>Nano Letters</i> , 2019 , 19, 2824-2831	11.5	10
34	Controlling the volumetric parameters of nitrogen-doped carbon nanotube cups. <i>Nanoscale</i> , 2010 , 2, 1105-8	7.7	10
33	Oxidative unzipping of stacked nitrogen-doped carbon nanotube cups. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10734-41	9.5	9
32	Ultra-small TiO ₂ nanowire forests on transparent conducting oxide for solid-state semiconductor-sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 46987-46991	3.7	9
31	A System for Simple Real-Time Anastomotic Failure Detection and Wireless Blood Flow Monitoring in the Lower Limbs. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2016 , 4, 4100114	3	8
30	Probing Ca-induced conformational change of calmodulin with gold nanoparticle-decorated single-walled carbon nanotube field-effect transistors. <i>Nanoscale</i> , 2019 , 11, 13397-13406	7.7	8

29	Modification of Carbon Nitride/Reduced Graphene Oxide van der Waals Heterostructure with Copper Nanoparticles To Improve CO Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41588-41594	9.5	8
28	Probing Biomolecular Interactions with Gold Nanoparticle-Decorated Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20813-20820	3.8	8
27	Novel Dioxadiazadecalin Podands and Their Heavy Metal Ion Complexes. <i>European Journal of Organic Chemistry</i> , 2001 , 2001, 729-734	3.2	8
26	Nanoemitters and innate immunity: the role of surfactants and bio-coronas in myeloperoxidase-catalyzed oxidation of pristine single-walled carbon nanotubes. <i>Nanoscale</i> , 2017 , 9, 5948-5956	7.7	7
25	Efficient separation of nitrogen-doped carbon nanotube cups. <i>Carbon</i> , 2014 , 80, 583-590	10.4	7
24	Cyclotrimeratrylene-Based Glycoclusters as High Affinity Ligands of Bacterial Lectins from <i>Pseudomonas aeruginosa</i> and <i>Burkholderia ambifaria</i> . <i>ChemistrySelect</i> , 2016 , 1, 5863-5868	1.8	6
23	Breath Acetone Sensing Based on Single-Walled Carbon Nanotube-Titanium Dioxide Hybrids Enabled by a Custom-Built Dehumidifier. <i>ACS Sensors</i> , 2021 , 6, 871-880	9.2	5
22	Polybenzobisimidazole-derived two-dimensional supramolecular polymer. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 1095-1101	2.5	4
21	Carbon Nanotubes: Biodegradation of Single-Walled Carbon Nanotubes by Eosinophil Peroxidase (Small 16/2013). <i>Small</i> , 2013 , 9, 2720-2720	11	4
20	Synthesis and functionalization of nitrogen-doped carbon nanotube cups with gold nanoparticles as cork stoppers. <i>Journal of Visualized Experiments</i> , 2013 , e50383	1.6	4
19	[2+2] Photocycloaddition of Enones to Single-Walled Carbon Nanotubes Creates Fluorescent Quantum Defects. <i>ACS Nano</i> , 2021 , 15, 4833-4844	16.7	4
18	Oligomer Hydrate Crystallization Improves Carbon Nanotube Memory. <i>Chemistry of Materials</i> , 2018 , 30, 3813-3818	9.6	4
17	Corking Nitrogen-Doped Carbon Nanotube Cups with Gold Nanoparticles for Biodegradable Drug Delivery Applications. <i>Current Protocols in Chemical Biology</i> , 2015 , 7, 249-262	1.8	4
16	Zero-Dimensional Single-Walled Carbon Nanotubes. <i>Angewandte Chemie</i> , 2013 , 125, 11518-11522	3.6	3
15	Synthesis of Holey Graphene Nanoparticle Compounds. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36513-36522	9.5	3
14	Photoluminescence Response in Carbon Nanomaterials to Enzymatic Degradation. <i>Analytical Chemistry</i> , 2020 , 92, 12880-12890	7.8	3
13	Heterogeneous Growth of UiO-66-NH on Oxidized Single-Walled Carbon Nanotubes to Form "Beads-on-a-String" Composites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15482-15489	9.5	3
12	Machine learning-assisted calibration of Hg sensors based on carbon nanotube field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2021 , 180, 113085	11.8	3

11	Characterizing the Cellular Response to Nitrogen-Doped Carbon Nanocups. <i>Nanomaterials</i> , 2019 , 9,	5.4	2
10	Size Discrimination of Carbohydrates via Conductive Carbon Nanotube@Metal Organic Framework Composites. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8022-8033	16.4	2
9	Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2290-2297	5	1
8	Growth of Carbon Nanotubes on Copper Substrates Using a Nickel Thin Film Catalyst. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1204, 1		1
7	Detection of Lectins using Glyco-Functionalized Nanosensors. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1451, 191-196		1
6	Biosensing Using Carbon Nanotube Field-effect Transistors 2007 ,		1
5	Composition and Structure of Fluorescent Graphene Quantum Dots Generated by Enzymatic Degradation of Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13361-13369	3.8	1
4	Conjugation of Glycans with Carbon Nanostructures123-135		0
3	In situ Insights into the Uncorking and Oxidative Decomposition Dynamics of Gold Nanoparticle Corked Carbon Nanotube Cups for Drug Delivery. <i>Microscopy and Microanalysis</i> , 2018 , 24, 308-309	0.5	
2	Selektiver Nachweis von Ethylengas aus Fröhnten mit Kohlenstoffnanoröhren-Sensoren. <i>Angewandte Chemie</i> , 2012 , 124, 7755-7756	3.6	
1	Synthesis and Morphology Control of Carbon Nanotube/Polyaniline Composite for Chemical Sensing. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1408, 119		