Alexander Star

List of Publications by Year in Descending Order

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	Breath Acetone Sensing Based on Single-Walled Carbon Nanotube-Titanium Dioxide Hybrids Enabled by a Custom-Built Dehumidifier. *ACS Sensors*, **2021**, 6, 871-880	9.2	5
153	Heterogeneous Growth of UiO-66-NH on Oxidized Single-Walled Carbon Nanotubes to Form "Beads-on-a-String" Composites. *ACS Applied Materials & Interfaces*, **2021**, 13, 15482-15489	9.5	3
152	[2+ 2]Photocycloaddition of Enones to Single-Walled Carbon Nanotubes Creates Fluorescent Quantum Defects. *ACS Nano*, **2021**, 15, 4833-4844	16.7	4
151	Machine learning-assisted calibration of Hg sensors based on carbon nanotube field-effect transistors. *Biosensors and Bioelectronics*, **2021**, 180, 113085	11.8	3
150	Size Discrimination of Carbohydrates via Conductive Carbon Nanotube@Metal Organic Framework Composites. *Journal of the American Chemical Society*, **2021**, 143, 8022-8033	16.4	2
149	Composition and Structure of Fluorescent Graphene Quantum Dots Generated by Enzymatic Degradation of Graphene Oxide. *Journal of Physical Chemistry C*, **2021**, 125, 13361-13369	3.8	1
148	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	9.5	54
147	Luminescence "Turn-On" Detection of Gossypol Using Ln-Based Metal-Organic Frameworks and Ln Salts. *Journal of the American Chemical Society*, **2020**, 142, 2897-2904	16.4	78
146	Synthesis of Holey Graphene Nanoparticle Compounds. *ACS Applied Materials & Interfaces*, **2020**, 12, 36513-36522	9.5	3
145	Photoluminescence Response in Carbon Nanomaterials to Enzymatic Degradation. *Analytical Chemistry*, **2020**, 92, 12880-12890	7.8	3
144	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	9.4	24
143	Holey Graphene Metal Nanoparticle Composites via Crystalline Polymer Templated Etching. *Nano Letters*, **2019**, 19, 2824-2831	11.5	10
142	Characterizing the Cellular Response to Nitrogen-Doped Carbon Nanocups. *Nanomaterials*, **2019**, 9,	5.4	2
141	Tetrahydrocannabinol Detection Using Semiconductor-Enriched Single-Walled Carbon Nanotube Chemiresistors. *ACS Sensors*, **2019**, 4, 2084-2093	9.2	25
140	Probing Ca-induced conformational change of calmodulin with gold nanoparticle-decorated single-walled carbon nanotube field-effect transistors. *Nanoscale*, **2019**, 11, 13397-13406	7.7	8
139	Modification of Carbon Nitride/Reduced Graphene Oxide van der Waals Heterostructure with Copper Nanoparticles To Improve CO Sensitivity. *ACS Applied Materials & Interfaces*, **2019**, 11, 41588-41594	9.5	8
138	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	9.5	14

137	Automatic Early-Onset Free Flap Failure Detection for Implantable Biomedical Devices. *IEEE Transactions on Biomedical Engineering*, **2018**, 65, 2290-2297	5	1
136	Free-Standing Nitrogen-Doped Cup-Stacked Carbon Nanotube Mats for Potassium-Ion Battery Anodes. *ACS Applied Energy Materials*, **2018**, 1, 1703-1707	6.1	71
135	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	0.5	
134	Graphene oxide is degraded by neutrophils and the degradation products are non-genotoxic. *Nanoscale*, **2018**, 10, 1180-1188	7.7	100
133	Targeting myeloid regulators by paclitaxel-loaded enzymatically degradable nanocups. *Nanoscale*, **2018**, 10, 17990-18000	7.7	11
132	Oligomer Hydrate Crystallization Improves Carbon Nanotube Memory. *Chemistry of Materials*, **2018**, 30, 3813-3818	9.6	4
131	Polybenzobisimidazole-derived two-dimensional supramolecular polymer. *Journal of Polymer Science Part A*, **2017**, 55, 1095-1101	2.5	4
130	Fabrication of Holey Graphene: Catalytic Oxidation by Metalloporphyrin-Based Covalent Organic Framework Immobilized on Highly Ordered Pyrolytic Graphite. *Chemistry - A European Journal*, **2017**, 23, 5652-5657	4.8	15
129	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	7.7	7
128	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	16.4	31
127	Fibrillar vs crystalline nanocellulose pulmonary epithelial cell responses: Cytotoxicity or inflammation?. *Chemosphere*, **2017**, 171, 671-680	8.4	60
126	Probing Biomolecular Interactions with Gold Nanoparticle-Decorated Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2017**, 121, 20813-20820	3.8	8
125	Uncondensed Graphitic Carbon Nitride on Reduced Graphene Oxide for Oxygen Sensing via a Photoredox Mechanism. *ACS Applied Materials & Interfaces*, **2017**, 9, 27142-27151	9.5	19
124	Nanoelectronic Discrimination of Nonmalignant and Malignant Cells Using Nanotube Field-Effect Transistors. *ACS Sensors*, **2017**, 2, 1128-1132	9.2	15
123	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, 4100114	3	8
122	Cyclotriveratrylene-Based Glycoclusters as High Affinity Ligands of Bacterial Lectins from Pseudomonas aeruginosa and Burkholderia ambifaria. *ChemistrySelect*, **2016**, 1, 5863-5868	1.8	6
121	Single-walled carbon nanotubes templated CuO networks for gas sensing. *Journal of Materials Chemistry C*, **2016**, 4, 6575-6580	7.1	36
120	Biological interactions of carbon-based nanomaterials: From coronation to degradation. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 333-51	6	250

119	In Situ Grown TiO2 Nanospindles Facilitate the Formation of Holey Reduced Graphene Oxide by Photodegradation. *ACS Applied Materials & Interfaces*, **2016**, 8, 7403-10	9.5	42
118	Enzymatic oxidative biodegradation of nanoparticles: Mechanisms, significance and applications. *Toxicology and Applied Pharmacology*, **2016**, 299, 58-69	4.6	72
117	Perovskite solar cells based on bottom-fused TiO2 nanocones. *Journal of Materials Chemistry A*, **2016**, 4, 1520-1530	13	30
116	Gender differences in murine pulmonary responses elicited by cellulose nanocrystals. *Particle and Fibre Toxicology*, **2016**, 13, 28	8.4	59
115	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	3.2	37
114	Carbon Nanotube Based Gas Sensors toward Breath Analysis. *ChemPlusChem*, **2016**, 81, 1248-1265	2.8	52
113	In Vitro Toxicity Evaluation of Lignin-(Un)coated Cellulose Based Nanomaterials on Human A549 and THP-1 Cells. *Biomacromolecules*, **2016**, 17, 3464-3473	6.9	22
112	Payload drug vs. nanocarrier biodegradation by myeloperoxidase- and peroxynitrite-mediated oxidations: pharmacokinetic implications. *Nanoscale*, **2015**, 7, 8689-94	7.7	14
111	Oxidative unzipping of stacked nitrogen-doped carbon nanotube cups. *ACS Applied Materials & Interfaces*, **2015**, 7, 10734-41	9.5	9
110	MDSC and TGF□Are Required for Facilitation of Tumor Growth in the Lungs of Mice Exposed to Carbon Nanotubes. *Cancer Research*, **2015**, 75, 1615-23	10.1	43
109	Lactoperoxidase-mediated degradation of single-walled carbon nanotubes in the presence of pulmonary surfactant. *Carbon*, **2015**, 91, 506-517	10.4	37
108	Nano-gold corking and enzymatic uncorking of carbon nanotube cups. *Journal of the American Chemical Society*, **2015**, 137, 675-84	16.4	30
107	Indium Oxide-Single-Walled Carbon Nanotube Composite for Ethanol Sensing at Room Temperature. *Journal of Physical Chemistry Letters*, **2015**, 6, 712-7	6.4	30
106	Corking Nitrogen-Doped Carbon Nanotube Cups with Gold Nanoparticles for Biodegradable Drug Delivery Applications. *Current Protocols in Chemical Biology*, **2015**, 7, 249-262	1.8	4
105	Carbon nanotube chemiresistor for wireless pH sensing. *Scientific Reports*, **2014**, 4, 4468	4.9	63
104	Electronic detection of bacteria using holey reduced graphene oxide. *ACS Applied Materials & Interfaces*, **2014**, 6, 3805-10	9.5	45
103	Enzymatic 'stripping' and degradation of PEGylated carbon nanotubes. *Nanoscale*, **2014**, 6, 14686-90	7.7	42
102	Block copolymer-templated nitrogen-enriched nanocarbons with morphology-dependent electrocatalytic activity for oxygen reduction. *Chemical Science*, **2014**, 5, 3315	9.4	37

101	Substrate placement angle-dependent growth of dandelion-like TiO2 nanorods for solid-state semiconductor-sensitized solar cells. *RSC Advances*, **2014**, 4, 53335-53343	3.7	12
100	Ultra-small TiO2 nanowire forests on transparent conducting oxide for solid-state semiconductor-sensitized solar cells. *RSC Advances*, **2014**, 4, 46987-46991	3.7	9
99	Graphene oxide attenuates Th2-type immune responses, but augments airway remodeling and hyperresponsiveness in a murine model of asthma. *ACS Nano*, **2014**, 8, 5585-99	16.7	41
98	Sensing Reversible Protein-Ligand Interactions with Single-Walled Carbon Nanotube Field-Effect Transistors. *Journal of Physical Chemistry C*, **2014**, 118, 17193-17199	3.8	24
97	Efficient separation of nitrogen-doped carbon nanotube cups. *Carbon*, **2014**, 80, 583-590	10.4	7
96	Lung macrophages "digest" carbon nanotubes using a superoxide/peroxynitrite oxidative pathway. *ACS Nano*, **2014**, 8, 5610-21	16.7	102
95	Insight into the Mechanism of Graphene Oxide Degradation via the Photo-Fenton Reaction. *Journal of Physical Chemistry C*, **2014**, 118, 10519-10529	3.8	85
94	Extracellular entrapment and degradation of single-walled carbon nanotubes. *Nanoscale*, **2014**, 6, 6974-83	7.7	53
93	Peroxidase-mediated biodegradation of carbon nanotubes in vitro and in vivo. *Advanced Drug Delivery Reviews*, **2013**, 65, 1921-32	18.5	136
92	Carbon Nanotubes: Biodegradation of Single-Walled Carbon Nanotubes by Eosinophil Peroxidase (Small 16/2013). *Small*, **2013**, 9, 2720-2720	11	4
91	"Zero-dimensional" single-walled carbon nanotubes. *Angewandte Chemie - International Edition*, **2013**, 52, 11308-12	16.4	12
90	Carbon nanotubes for the label-free detection of biomarkers. *ACS Nano*, **2013**, 7, 7448-53	16.7	37
89	Sweet carbon nanostructures: carbohydrate conjugates with carbon nanotubes and graphene and their applications. *Chemical Society Reviews*, **2013**, 42, 4532-42	58.5	100
88	Understanding Interfaces in Metal-Graphitic Hybrid Nanostructures. *Journal of Physical Chemistry Letters*, **2013**, 4, 147-60	6.4	75
87	Rigid versus Flexible Ligands on Carbon Nanotubes for the Enhanced Sensitivity of Cobalt Ions. *Macromolecules*, **2013**, 46, 1376-1383	5.5	15
86	Effect of antioxidants on enzyme-catalysed biodegradation of carbon nanotubes. *Journal of Materials Chemistry B*, **2013**, 1, 302-309	7.3	43
85	Enzyme-catalyzed oxidation facilitates the return of fluorescence for single-walled carbon nanotubes. *Journal of the American Chemical Society*, **2013**, 135, 13356-64	16.4	15
84	Photoinduced charge transfer and acetone sensitivity of single-walled carbon nanotube-titanium dioxide hybrids. *Journal of the American Chemical Society*, **2013**, 135, 9015-22	16.4	68

83	Biodegradation of single-walled carbon nanotubes by eosinophil peroxidase. *Small*, **2013**, 9, 2721-9, 2720	11	145
82	Synthesis of one-dimensional SiC nanostructures from a glassy buckypaper. *ACS Applied Materials & Interfaces*, **2013**, 5, 1928-36	9.5	16
81	The Effect of Metal Catalyst on the Electrocatalytic Activity of Nitrogen-Doped Carbon Nanotubes. *Journal of Physical Chemistry C*, **2013**, 117, 25213-25221	3.8	34
80	Carbon nanotubes enhance metastatic growth of lung carcinoma via up-regulation of myeloid-derived suppressor cells. *Small*, **2013**, 9, 1691-5	11	51
79	Graphene oxide, but not fullerenes, targets immunoproteasomes and suppresses antigen presentation by dendritic cells. *Small*, **2013**, 9, 1686-90	11	59
78	Zero-Dimensional Single-Walled Carbon Nanotubes. *Angewandte Chemie*, **2013**, 125, 11518-11522	3.6	3
77	Synthesis and functionalization of nitrogen-doped carbon nanotube cups with gold nanoparticles as cork stoppers. *Journal of Visualized Experiments*, **2013**, e50383	1.6	4
76	Impaired clearance and enhanced pulmonary inflammatory/fibrotic response to carbon nanotubes in myeloperoxidase-deficient mice. *PLoS ONE*, **2012**, 7, e30923	3.7	145
75	Electronic detection of lectins using carbohydrate-functionalized nanostructures: graphene versus carbon nanotubes. *ACS Nano*, **2012**, 6, 760-70	16.7	104
74	Corking carbon nanotube cups with gold nanoparticles. *ACS Nano*, **2012**, 6, 6912-21	16.7	26
73	A natural vanishing act: the enzyme-catalyzed degradation of carbon nanomaterials. *Accounts of Chemical Research*, **2012**, 45, 1770-81	24.3	130
72	Welding of gold nanoparticles on graphitic templates for chemical sensing. *Journal of the American Chemical Society*, **2012**, 134, 3472-9	16.4	64
71	Adsorption of surfactant lipids by single-walled carbon nanotubes in mouse lung upon pharyngeal aspiration. *ACS Nano*, **2012**, 6, 4147-56	16.7	145
70	Selektiver Nachweis von Ethylengas aus Früchten mit Kohlenstoffnanoröhren-Sensoren. *Angewandte Chemie*, **2012**, 124, 7755-7756	3.6	
69	Selecting fruits with carbon nanotube sensors. *Angewandte Chemie - International Edition*, **2012**, 51, 7637-8	16.4	15
68	Synthesis and Morphology Control of Carbon Nanotube/Polyaniline Composite for Chemical Sensing. *Materials Research Society Symposia Proceedings*, **2012**, 1408, 119		
67	Detection of Lectins using Glyco-Functionalized Nanosensors. *Materials Research Society Symposia Proceedings*, **2012**, 1451, 191-196		1
66	Biosensors based on one-dimensional nanostructures. *Journal of Materials Chemistry*, **2011**, 21, 8940		59

65	Chemical sensitivity of graphene edges decorated with metal nanoparticles. *Nano Letters*, **2011**, 11, 2342-7	11.5	163
64	Enzymatic degradation of multiwalled carbon nanotubes. *Journal of Physical Chemistry A*, **2011**, 115, 9536-44	2.8	167
63	The enzymatic oxidation of graphene oxide. *ACS Nano*, **2011**, 5, 2098-108	16.7	313
62	Electrochemical characterization of carbon nanotube forests grown on copper foil using transition metal catalysts. *Thin Solid Films*, **2011**, 520, 1651-1655	2.2	37
61	Chemical sensing with polyaniline coated single-walled carbon nanotubes. *Advanced Materials*, **2011**, 23, 536-40	24	92
60	Electrochemical Detection with Platinum Decorated Carbon Nanomaterials. *Electroanalysis*, **2011**, 23, 870-877	3	17
59	Direct effects of carbon nanotubes on dendritic cells induce immune suppression upon pulmonary exposure. *ACS Nano*, **2011**, 5, 5755-62	16.7	103
58	Nanoelectronic detection of lectin-carbohydrate interactions using carbon nanotubes. *Nano Letters* , **2011**, 11, 170-5	11.5	92
57	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	2.2	37
56	Carbon nanotubes degraded by neutrophil myeloperoxidase induce less pulmonary inflammation. *Nature Nanotechnology*, **2010**, 5, 354-9	28.7	600
55	Graphene versus carbon nanotubes for chemical sensor and fuel cell applications. *Analyst, The*, **2010**, 135, 2790-7	5	138
54	Exploring the chemical sensitivity of a carbon nanotube/green tea composite. *ACS Nano*, **2010**, 4, 6854-62	16.7	37
53	Long-Term Performance of Pt-Decorated Carbon Nanotube Cathodes in Phosphoric Acid Fuel Cells. *Energy & Fuels*, **2010**, 24, 1877-1881	4.1	23
52	Understanding the sensor response of metal-decorated carbon nanotubes. *Nano Letters*, **2010**, 10, 958-63	11.5	143
51	Controlling the volumetric parameters of nitrogen-doped carbon nanotube cups. *Nanoscale*, **2010**, 2, 1105-8	7.7	10
50	Phosphatidylserine targets single-walled carbon nanotubes to professional phagocytes in vitro and in vivo. *PLoS ONE*, **2009**, 4, e4398	3.7	94
49	Growth of Carbon Nanotubes on Copper Substrates Using a Nickel Thin Film Catalyst. *Materials Research Society Symposia Proceedings*, **2009**, 1204, 1		1
48	Decorated carbon nanotubes with unique oxygen sensitivity. *Nature Chemistry*, **2009**, 1, 500-6	17.6	44

47	Electrocatalytic activity of nitrogen-doped carbon nanotube cups. *Journal of the American Chemical Society*, **2009**, 131, 13200-1	16.4	482
46	Mechanistic investigations of horseradish peroxidase-catalyzed degradation of single-walled carbon nanotubes. *Journal of the American Chemical Society*, **2009**, 131, 17194-205	16.4	243
45	Electronically monitoring biological interactions with carbon nanotube field-effect transistors. *Chemical Society Reviews*, **2008**, 37, 1197-206	58.5	153
44	Simultaneous Spectroscopic and Solid-State Electronic Measurement of Single-Walled Carbon Nanotube Devices. *Journal of Physical Chemistry C*, **2008**, 112, 4430-4434	3.8	20
43	Biodegradation of single-walled carbon nanotubes through enzymatic catalysis. *Nano Letters*, **2008**, 8, 3899-903	11.5	346
42	Synthesis, characterization, and manipulation of nitrogen-doped carbon nanotube cups. *ACS Nano*, **2008**, 2, 1914-20	16.7	47
41	Carbon nanotube gas and vapor sensors. *Angewandte Chemie - International Edition*, **2008**, 47, 6550-70	16.4	676
40	Gas- und Dampfsensoren auf der Basis von Kohlenstoff-Nanor□ren. *Angewandte Chemie*, **2008**, 120, 6652-6673	3.6	32
39	Chemically induced potential barriers at the carbon nanotube-metal nanoparticle interface. *Nano Letters*, **2007**, 7, 1863-8	11.5	118
38	Effective and Low-Cost Platinum Electrodes for Microbial Fuel Cells Deposited by Electron Beam Evaporation. *Energy & Fuels*, **2007**, 21, 2984-2990	4.1	39
37	Carbon Nanotube Field-Effect-Transistor-Based Biosensors. *Advanced Materials*, **2007**, 19, 1439-1451	24	639
36	Single-walled carbon-nanotube spectroscopic and electronic field-effect transistor measurements: a combined approach. *Small*, **2007**, 3, 1324-9	11	17
35	Carbon nanotube sensors for exhaled breath components. *Nanotechnology*, **2007**, 18, 375502	3.4	104
34	Biosensing Using Carbon Nanotube Field-effect Transistors **2007**,		1
33	Interactions between Single-Walled Carbon Nanotubes and Tetraphenyl Metalloporphyrins: Correlation between Spectroscopic and FET Measurements. *Journal of Physical Chemistry C*, **2007**, 111, 3539-3543	3.8	40
32	Gas sensor array based on metal-decorated carbon nanotubes. *Journal of Physical Chemistry B*, **2006**, 110, 21014-20	3.4	491
31	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, 921-6	11.5	587
30	Single-walled carbon nanotubes under the influence of dynamic coordination and supramolecular chemistry. *Small*, **2005**, 1, 452-61	11	79

29	Nanotube Optoelectronic Memory Devices. *Nano Letters*, **2004**, 4, 1587-1591	11.5	176
28	Nanoelectronic Carbon Dioxide Sensors. *Advanced Materials*, **2004**, 16, 2049-2052	24	263
27	Sensing with Nafion Coated Carbon Nanotube Field-Effect Transistors. *Electroanalysis*, **2004**, 16, 108-112	3	59
26	Electronic detection of the enzymatic degradation of starch. *Organic Letters*, **2004**, 6, 2089-92	6.2	54
25	Charge Transfer from Adsorbed Proteins. *Nano Letters*, **2004**, 4, 253-256	11.5	241
24	Single-walled carbon nanotube based molecular switch tunnel junctions. *ChemPhysChem*, **2003**, 4, 1335-9	3.2	109
23	Amplification of Dynamic Chiral Crown Ether Complexes During Cyclic Acetal Formation. *Angewandte Chemie*, **2003**, 115, 4352-4356	3.6	24
22	Amplification of dynamic chiral crown ether complexes during cyclic acetal formation. *Angewandte Chemie - International Edition*, **2003**, 42, 4220-4	16.4	74
21	Interaction of Aromatic Compounds with Carbon Nanotubes:Correlation to the Hammett Parameter of the Substituent and Measured Carbon Nanotube FET Response. *Nano Letters*, **2003**, 3, 1421-1423	11.5	190
20	Electronic Detection of Specific Protein Binding Using Nanotube FET Devices. *Nano Letters*, **2003**, 3, 459-463	11.5	672
19	Noncovalent Side-Wall Functionalization of Single-Walled Carbon Nanotubes. *Macromolecules*, **2003**, 36, 553-560	5.5	265
18	Influence of Mobile Ions on Nanotube Based FET Devices. *Nano Letters*, **2003**, 3, 639-641	11.5	102
17	Short-channel effects in contact-passivated nanotube chemical sensors. *Applied Physics Letters*, **2003**, 83, 3821-3823	3.4	117
16	Charge transfer from ammonia physisorbed on nanotubes. *Physical Review Letters*, **2003**, 91, 218301	7.4	165
15	Starched Carbon Nanotubes. *Angewandte Chemie*, **2002**, 114, 2618-2622	3.6	50
14	Starched carbon nanotubes. *Angewandte Chemie - International Edition*, **2002**, 41, 2508-12	16.4	529
13	Dispersion and Solubilization of Single-Walled Carbon Nanotubes with a Hyperbranched Polymer. *Macromolecules*, **2002**, 35, 7516-7520	5.5	164
12	Interactions between Conjugated Polymers and Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry B*, **2002**, 106, 3124-3130	3.4	204

11	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	2.3	26
10	Novel Dioxadiazadecalin Podands and Their Heavy Metal Ion Complexes. *European Journal of Organic Chemistry*, **2001**, 2001, 729-734	3.2	8
9	Preparation and Properties of Polymer-Wrapped Single-Walled Carbon Nanotubes. *Angewandte Chemie*, **2001**, 113, 1771-1775	3.6	67
8	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	16.4	840
7	Dioxadiazadecalin/Salen Tautomeric Macrocycles and Complexes: Prototypal Dynamic Combinatorial Virtual Libraries. *Angewandte Chemie*, **2000**, 112, 2797-2801	3.6	15
6	Dioxadiazadecalin/Salen Tautomeric Macrocycles and Complexes: Prototypal Dynamic Combinatorial Virtual Libraries. *Angewandte Chemie - International Edition*, **2000**, 39, 2685-2689	16.4	40
5	The Stereoisomeric Diaminobutanediol and Dioxadiazadecalin Systems: Synthesis, Structure, Stereoelectronics, and Conformation Theory vs. Experiment. *European Journal of Organic Chemistry*, **1999**, 1999, 2033-2043	3.2	13
4	Mechanism of Formation and Stabilities of the New Dioxadiazadecalin Systems. Ring Chain Tautomerism1. *Journal of Organic Chemistry*, **1999**, 64, 1166-1172	4.2	25
3	A new class of heterobicyclic systems: Dioxadiazadecalins. *Tetrahedron Letters*, **1997**, 38, 3573-3576	2	12
2	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	2	13
1	Conjugation of Glycans with Carbon Nanostructures123-135		0