

Robert C Haddon

List of Publications by Year in Descending Order

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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.

250 papers	25,138 citations	76 h-index	155 g-index
278 ext. papers	26,467 ext. citations	10.6 avg, IF	6.68 L-index

#	Paper	IF	Citations
250	Origin of the Giant Enhanced Raman Scattering by Sulfur Chains Encapsulated inside Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2021 , 15, 8574-8582	16.7	3
249	Chemically Functionalized Water-Soluble Single-Walled Carbon Nanotubes Obstruct Vesicular/Plasmalemmal Recycling in Astrocytes Down-Stream of Calcium Ions. <i>Cells</i> , 2020 , 9,	7.9	1
248	Organometallic chemistry of graphene: Photochemical complexation of graphene with group 6 transition metals. <i>Carbon</i> , 2018 , 129, 450-455	10.4	19
247	Effects of Chemically-Functionalized Single-Walled Carbon Nanotubes on the Morphology and Vitality of D54MG Human Glioblastoma Cells. <i>Neuroglia (Basel, Switzerland)</i> , 2018 , 1, 327-338		3
246	Effect of constructive rehybridization on transverse conductivity of aligned single-walled carbon nanotube films. <i>Materials Today</i> , 2018 , 21, 937-943	21.8	8
245	Quantum Transfer Energy and Nonlocal Correlation in a Dimer with Time-Dependent Coupling Effect. <i>International Journal of Theoretical Physics</i> , 2017 , 56, 1417-1428	1.1	
244	Sublimation-assisted graphene transfer technique based on small polyaromatic hydrocarbons. <i>Nanotechnology</i> , 2017 , 28, 255701	3.4	16
243	Visible-Blind UV Photodetector Based on Single-Walled Carbon Nanotube Thin Film/ZnO Vertical Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37094-37104	9.5	52
242	Advances in transferring chemical vapour deposition graphene: a review. <i>Materials Horizons</i> , 2017 , 4, 1054-1063	14.4	94
241	Fast Electrochromic Device Based on Single-Walled Carbon Nanotube Thin Films. <i>Nano Letters</i> , 2016 , 16, 5386-93	11.5	59
240	Application of Organometallic Chemistry to the Electrical Interconnection of Graphene Nanoplatelets. <i>Chemistry of Materials</i> , 2016 , 28, 2260-2266	9.6	15
239	Giant Raman Response to the Encapsulation of Sulfur in Narrow Diameter Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 40-3	16.4	31
238	Realistic Quantum Control of Energy Transfer in Photosynthetic Processes. <i>Energies</i> , 2016 , 9, 1063	3.1	3
237	Synthesis and Characterization of Hexahapto-Chromium Complexes of Single-Walled Carbon Nanotubes 2016 , 87-114		
236	Comparative Reaction Diagrams for the SN(2) Reaction Formulated According to the Leffler Analysis and the Hammond Postulate. <i>Journal of Organic Chemistry</i> , 2016 , 81, 3648-53	4.2	4
235	Networks of semiconducting SWNTs: contribution of midgap electronic states to the electrical transport. <i>Accounts of Chemical Research</i> , 2015 , 48, 2270-9	24.3	30
234	Stereochemical effect of covalent chemistry on the electronic structure and properties of the carbon allotropes and graphene surfaces. <i>Synthetic Metals</i> , 2015 , 210, 80-84	3.6	8

233	Band Structure Engineering by Substitutional Doping in Solid-State Solutions of [5-Me-PLY(O,O)] ₂ B(1-x)Be(x) Radical Crystals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10000-8	16.4	14
232	Ionic Liquid Gating of Suspended MoS ₂ Field Effect Transistor Devices. <i>Nano Letters</i> , 2015 , 15, 5284-8	11.5	56
231	Effect of Lanthanide Metal Complexation on the Properties and Electronic Structure of Single-Walled Carbon Nanotube Films. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28013-8	9.5	3
230	Chemically functionalized single-walled carbon nanotubes enhance the glutamate uptake characteristics of mouse cortical astrocytes. <i>Amino Acids</i> , 2015 , 47, 1379-88	3.5	16
229	A polymorph of the 6,13-dichloropentacene organic semiconductor: crystal structure, semiconductor measurements and band structure calculations. <i>CrystEngComm</i> , 2015 , 17, 4172-4178	3.3	10
228	Photochemical generation of bis-hexahapto chromium interconnects between the graphene surfaces of single-walled carbon nanotubes. <i>Materials Horizons</i> , 2015 , 2, 81-85	14.4	10
227	Application of Hybrid Fillers for Improving the Through-Plane Heat Transport in Graphite Nanoplatelet-Based Thermal Interface Layers. <i>Scientific Reports</i> , 2015 , 5, 13108	4.9	20
226	Solution-phase synthesis of chromium-functionalized single-walled carbon nanotubes. <i>Materials Letters</i> , 2015 , 142, 312-316	3.3	5
225	Optical and electronic properties of thin films and solutions of functionalized forms of graphene and related carbon materials. <i>Carbon</i> , 2014 , 72, 82-88	10.4	23
224	Single-Walled Carbon Nanotube/Poly(porphyrin) Hybrid for Volatile Organic Compounds Detection. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1602-1610	3.8	47
223	Enhanced electrical conductivity in a substitutionally doped spiro-bis(phenalenyl)boron radical molecular solid. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14738-41	16.4	29
222	Hexahapto-lanthanide interconnects between the conjugated surfaces of single-walled carbon nanotubes. <i>Dalton Transactions</i> , 2014 , 43, 7379-82	4.3	13
221	Organometallic Chemistry of Carbon Nanotubes and Graphene 2014 , 201-224		2
220	Effect of atomic interconnects on percolation in single-walled carbon nanotube thin film networks. <i>Nano Letters</i> , 2014 , 14, 3930-7	11.5	39
219	Changes in the morphology and proliferation of astrocytes induced by two modalities of chemically functionalized single-walled carbon nanotubes are differentially mediated by glial fibrillary acidic protein. <i>Nano Letters</i> , 2014 , 14, 3720-7	11.5	19
218	Formation of Transition Metal Cluster Adducts on the Surface of Single-walled Carbon Nanotubes: HRTEM Studies. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014 , 22, 47-53	1.8	3
217	Metals on Graphene and Carbon Nanotube Surfaces: From Mobile Atoms to Atomtronics to Bulk Metals to Clusters and Catalysts. <i>Chemistry of Materials</i> , 2014 , 26, 184-195	9.6	48
216	Synthesis of tetrachalcogenide-substituted phenalenyl derivatives: preparation and solid-state characterization of bis(3,4,6,7-tetrathioalkyl-phenalenyl)boron radicals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12936-9	16.4	18

215	Chemically engineered graphene-based 2D organic molecular magnet. <i>ACS Nano</i> , 2013 , 7, 10011-22	16.7	43
214	Diels-Alder reactions of graphene: computational predictions of products and sites of reaction. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17643-9	16.4	71
213	Chemically functionalized single-walled carbon nanotube films modulate the morpho-functional and proliferative characteristics of astrocytes. <i>Nano Letters</i> , 2013 , 13, 4387-92	11.5	24
212	Effect of covalent chemistry on the electronic structure and properties of carbon nanotubes and graphene. <i>Accounts of Chemical Research</i> , 2013 , 46, 65-76	24.3	148
211	Organometallic hexahapto functionalization of single layer graphene as a route to high mobility graphene devices. <i>Advanced Materials</i> , 2013 , 25, 1131-6	24	53
210	Hexathiophenalenyliums cations: syntheses, structures, and redox chemistry. <i>Organic Letters</i> , 2013 , 15, 1198-201	6.2	9
209	Charge-compensated, semiconducting single-walled carbon nanotube thin film as an electrically configurable optical medium. <i>Nature Photonics</i> , 2013 , 7, 459-465	33.9	32
208	Anisotropic Thermal and Electrical Properties of Thin Thermal Interface Layers of Graphite Nanoplatelet-Based Composites. <i>Scientific Reports</i> , 2013 , 3,	4.9	116
207	Functionalized single-walled carbon nanotube-based fuel cell benchmarked against US DOE 2017 technical targets. <i>Scientific Reports</i> , 2013 , 3, 2257	4.9	65
206	Effect of Group 6 Transition Metal Coordination on the Conductivity of Graphite Nanoplatelets. <i>Materials Letters</i> , 2012 , 80, 171-174	3.3	19
205	Sulfur and selenium substituted spiro-biphenalenyl-boron neutral radicals. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8245		17
204	Metals and superconductors: molecular analogs of atomic hydrogen. <i>ChemPhysChem</i> , 2012 , 13, 3581-3	3.2	31
203	Covalent chemistry in graphene electronics. <i>Materials Today</i> , 2012 , 15, 276-285	21.8	50
202	Chemically functionalized water-soluble single-walled carbon nanotubes modulate morpho-functional characteristics of astrocytes. <i>Nano Letters</i> , 2012 , 12, 4742-7	11.5	35
201	Room-temperature magnetic ordering in functionalized graphene. <i>Scientific Reports</i> , 2012 , 2, 624	4.9	67
200	Synthesis, Structure and Solid State Properties of Cyclohexanemethylamine Substituted Phenalenyl Based Molecular Conductor. <i>Crystals</i> , 2012 , 2, 446-465	2.3	2
199	Solid-state Bis-hexahapto-metal complexation of single-walled carbon nanotubes. <i>Journal of Physical Organic Chemistry</i> , 2012 , 25, 607-610	2.1	24
198	Synthesis, structure and solid state properties of benzannulated phenalenyl based neutral radical conductor. <i>Journal of Physical Organic Chemistry</i> , 2012 , 25, 566-573	2.1	9

197	Nonlocal spin transport in single-walled carbon nanotube networks. <i>Physical Review B</i> , 2012 , 85,	3.3	12
196	Hexahapto-Metal Complexes of Single-Walled Carbon Nanotubes. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1001-1019	2.6	33
195	Chemistry at the Dirac point: Diels-Alder reactivity of graphene. <i>Accounts of Chemical Research</i> , 2012 , 45, 673-82	24.3	122
194	High Energy Density Supercapacitor Based on a Hybrid Carbon Nanotube/Reduced Graphite Oxide Architecture. <i>Advanced Energy Materials</i> , 2012 , 2, 438-444	21.8	169
193	Reversible Grafting of π -Naphthylmethyl Radicals to Epitaxial Graphene. <i>Angewandte Chemie</i> , 2012 , 124, 4985-4988	3.6	15
192	Reversible grafting of π -naphthylmethyl radicals to epitaxial graphene. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4901-4	16.4	31
191	Effect of functionalization on the electrostatic charging, tunneling, and Raman spectroscopy of epitaxial graphene. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 03D103	1.3	1
190	Effect of first row transition metals on the conductivity of semiconducting single-walled carbon nanotube networks. <i>Applied Physics Letters</i> , 2012 , 100, 223111	3.4	25
189	Multilevel-3D bit patterned magnetic media with 8 signal levels per nanocolumn. <i>PLoS ONE</i> , 2012 , 7, e40134	3.7	22
188	Covalent Chemistry for Graphene Electronics. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2487-2498	6.4	118
187	Organometallic chemistry of extended periodic π -electron systems: hexahapto-chromium complexes of graphene and single-walled carbon nanotubes. <i>Chemical Science</i> , 2011 , 2, 1326	9.4	90
186	Synthesis, Dispersion, and Viscosity of Poly(ethylene glycol)-Functionalized Water-Soluble Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2011 , 23, 1246-1253	9.6	47
185	Single-walled carbon nanotubes chemically functionalized with polyethylene glycol promote tissue repair in a rat model of spinal cord injury. <i>Journal of Neurotrauma</i> , 2011 , 28, 2349-62	5.4	98
184	Aryl functionalization as a route to band gap engineering in single layer graphene devices. <i>Nano Letters</i> , 2011 , 11, 4047-51	11.5	127
183	Oxidized Graphite Nanoplatelets as an Improved Filler for Thermally Conducting Epoxy-Matrix Composites. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2011 , 133,	2	11
182	Diels-Alder chemistry of graphite and graphene: graphene as diene and dienophile. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3324-7	16.4	218
181	Isolation and identification of low molecular weight carboxylated carbons derived from the nitric acid treatment of single-walled carbon nanotubes. <i>Carbon</i> , 2011 , 49, 4982-4986	10.4	16
180	Effect of nitrophenyl functionalization on the magnetic properties of epitaxial graphene. <i>Small</i> , 2011 , 7, 1175-80	11	57

- 179 Synthesis, structure, and physical properties of a partial E-stacked phenalenyl-based neutral radical molecular conductor. *Chemistry - A European Journal*, **2011**, 17, 11576-84 4.8 18
- 178 Synthesis, crystallization, electrochemistry and single crystal X-ray analysis of a methoxy-substituted-tris-phenalenyl based neutral radical. *Journal of Materials Chemistry*, **2011**, 21, 1574-1581¹⁴
- 177 Synthesis, crystal structure, and physical properties of sterically unprotected hydrocarbon radicals. *Journal of the American Chemical Society*, **2011**, 133, 14240-3 16.4 67
- 176 The production of oxygenated polycrystalline graphene by one-step ethanol-chemical vapor deposition. *Carbon*, **2011**, 49, 3789-3795 10.4 33
- 175 Enhanced photosensitivity of electro-oxidized epitaxial graphene. *Applied Physics Letters*, **2011**, 98, 093115 11.5 16
- 174 Exploring the charge dynamics in graphite nanoplatelets by THz and infrared spectroscopy. *New Journal of Physics*, **2010**, 12, 113012 2.9 4
- 173 Electro-oxidized epitaxial graphene channel field-effect transistors with single-walled carbon nanotube thin film gate electrode. *Journal of the American Chemical Society*, **2010**, 132, 14429-36 16.4 36
- 172 Dependence of the thermal conductivity of two-dimensional graphite nanoplatelet-based composites on the nanoparticle size distribution. *Journal of Physics Condensed Matter*, **2010**, 22, 334216^{1.8} 33
- 171 Epitaxial graphene electronic structure and transport. *Journal Physics D: Applied Physics*, **2010**, 43, 374003 10.4
- 170 Spectroscopy of covalently functionalized graphene. *Nano Letters*, **2010**, 10, 4061-6 11.5 461
- 169 Resonating valence bond and sigma-charge density wave phases in a benzannulated phenalenyl radical. *Journal of the American Chemical Society*, **2010**, 132, 2684-94 16.4 30
- 168 Gram-scale preparation of surfactant-free, carboxylic acid groups functionalized, individual single-walled carbon nanotubes in aqueous solution. *Langmuir*, **2010**, 26, 1221-5 4 19
- 167 Enhanced electromodulation of infrared transmittance in semitransparent films of large diameter semiconducting single-walled carbon nanotubes. *Nano Letters*, **2010**, 10, 937-42 11.5 24
- 166 Hysteretic spin and charge delocalization in a phenalenyl-based molecular conductor. *Journal of the American Chemical Society*, **2010**, 132, 17258-64 16.4 55
- 165 Chemically engineered single-walled carbon nanotube materials for the electronic detection of hydrogen chloride. *Advanced Materials*, **2010**, 22, 848-52 24 17
- 164 The effect of nitric acid doping on the optical properties of carbon nanotube films. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2754-2757 1.3 15
- 163 Chemical approach to the realization of electronic devices in epitaxial graphene. *Physica Status Solidi - Rapid Research Letters*, **2009**, 3, 184-186 2.5 37
- 162 Chemical modification of epitaxial graphene: spontaneous grafting of aryl groups. *Journal of the American Chemical Society*, **2009**, 131, 1336-7 16.4 722

161	Methoxy-Substituted Phenalenyl-Based Neutral Radical Molecular Conductor. <i>Chemistry of Materials</i> , 2009 , 21, 2226-2237	9.6	29
160	Conductive single-walled carbon nanotube substrates modulate neuronal growth. <i>Nano Letters</i> , 2009 , 9, 264-8	11.5	159
159	Functionalization and dissolution of nitric acid treated single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18153-8	16.4	129
158	Tetrathiophenalenyl radical and its disulfide-bridged dimer. <i>Organic Letters</i> , 2008 , 10, 3121-3	6.2	49
157	Single-walled carbon nanotube thin film emitter-detector integrated optoelectronic device. <i>Nano Letters</i> , 2008 , 8, 2224-8	11.5	38
156	SWNT/WNT Hybrid Architecture for Proton Exchange Membrane Fuel Cell Cathodes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9089-9094	3.8	49
155	Trisphenalenyl-based neutral radical molecular conductor. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3942-51	16.4	56
154	Water soluble single-walled carbon nanotubes inhibit stimulated endocytosis in neurons. <i>Nano Letters</i> , 2008 , 8, 3538-42	11.5	66
153	Localization of spin and charge in phenalenyl-based neutral radical conductors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13683-90	16.4	45
152	Preparation and Properties of Nanocomposites from Pristine and Modified SWCNTs of Comparable Average Aspect Ratios. <i>High Performance Polymers</i> , 2008 , 20, 567-587	1.6	3
151	Controlling multidomain states to enable sub-10-nm magnetic force microscopy. <i>Applied Physics Letters</i> , 2008 , 93, 203116	3.4	29
150	⁵⁷ Fe NMR investigation of the field-induced spin-density-wave transitions in (TMTSF) ₂ ClO ₄ . <i>Physical Review B</i> , 2008 , 78,	3.3	5
149	Angular and temperature-dependent ⁷⁷ Se NMR in the metallic, SDW, and field-induced spin density wave phases of (TMTSF) ₂ X. <i>Journal of Physics: Conference Series</i> , 2008 , 132, 012014	0.3	
148	Wide-range optical spectra of carbon nanotubes: a comparative study. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2229-2232	1.3	12
147	Enhanced Thermal Conductivity in a Hybrid Graphite Nanoplatelet / Carbon Nanotube Filler for Epoxy Composites. <i>Advanced Materials</i> , 2008 , 20, 4740-4744	24	776
146	Phenalenyl-based neutral radical molecular conductors: substituent effects on solid-state structures and properties. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7163-74	16.4	36
145	Mechanism of ammonia detection by chemically functionalized single-walled carbon nanotubes: in situ electrical and optical study of gas analyte detection. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10700-6	16.4	77
144	Thermal conductivity measurements of semitransparent single-walled carbon nanotube films by a bolometric technique. <i>Nano Letters</i> , 2007 , 7, 900-4	11.5	97

143	The First Electronically Stabilized Phenalenyl Radical: Effect of Substituents on Solution Chemistry and Solid-State Structure. <i>Crystal Growth and Design</i> , 2007 , 7, 802-809	3.5	82
142	Multiscale carbon nanotube-carbon fiber reinforcement for advanced epoxy composites. <i>Langmuir</i> , 2007 , 23, 3970-4	4	702
141	Poly(m-aminobenzene sulfonic acid) functionalized single-walled carbon nanotubes based gas sensor. <i>Nanotechnology</i> , 2007 , 18, 165504	3.4	103
140	Soluble graphene derived from graphite fluoride. <i>Chemical Physics Letters</i> , 2007 , 445, 51-56	2.5	206
139	Biofunctionalization of Carbon Nanotubes 2007 ,		2
138	Carbon Nanotube Free-Standing Membrane of Pt/SWNTs as Catalyst Layer in Hydrogen Fuel Cells. <i>Australian Journal of Chemistry</i> , 2007 , 60, 528	1.2	15
137	Carbon Nanotube Free-Standing Film of Pt/MWNTs as a Bifunctional Component in Hydrogen Proton Exchange Membrane Fuel Cells. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1018, 1		
136	Graphite Nanoplatelet-Epoxy Composite Thermal Interface Materials. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7565-7569	3.8	844
135	Functionalized Single-Walled Carbon Nanotubes for Carbon Fiber-Epoxy Composites. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17865-17871	3.8	126
134	High Performance Hydrogen Fuel Cells with Ultralow Pt Loading Carbon Nanotube Thin Film Catalysts. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17901-17904	3.8	89
133	Fabrication and Properties of Conducting Polypyrrole/SWNT-PABS Composite Films and Nanotubes. <i>Electroanalysis</i> , 2006 , 18, 1047-1054	3	44
132	Spin-polarized transport in magnetically assembled carbon nanotube spin valves. <i>Applied Physics Letters</i> , 2006 , 89, 033119	3.4	20
131	Effect of single-walled carbon nanotube purity on the thermal conductivity of carbon nanotube-based composites. <i>Applied Physics Letters</i> , 2006 , 89, 133102	3.4	130
130	Application of centrifugation to the large-scale purification of electric arc-produced single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9902-8	16.4	100
129	Chemical engineering of the single-walled carbon nanotube-nylon 6 interface. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7492-6	16.4	174
128	Bone cell proliferation on carbon nanotubes. <i>Nano Letters</i> , 2006 , 6, 562-7	11.5	582
127	V-type nerve agent detection using a carbon nanotube-based amperometric enzyme electrode. <i>Analytical Chemistry</i> , 2006 , 78, 331-6	7.8	124
126	Isostructural bisdithiazolyl and bithiaselenazolyl radicals: trends in bandwidth and conductivity. <i>Inorganic Chemistry</i> , 2006 , 45, 10958-66	5.1	46

125	Bolometric infrared photoresponse of suspended single-walled carbon nanotube films. <i>Science</i> , 2006 , 312, 413-6	33.3	381
124	Resonating valence bond ground state in oxygen-functionalized phenalenyl-based neutral radical molecular conductors. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1982-94	16.4	118
123	Carbon nanotube free-standing membrane as gas diffusion layer in hydrogen fuel cells. <i>Micro and Nano Letters</i> , 2006 , 1, 62	0.9	18
122	Incorporation of highly dispersed single-walled carbon nanotubes in a polyimide matrix. <i>Composites Science and Technology</i> , 2006 , 66, 1190-1197	8.6	79
121	ZnO growth on Si with low-temperature ZnO buffer layers by ECR-assisted MBE. <i>Journal of Crystal Growth</i> , 2006 , 286, 61-65	1.6	51
120	Solution properties of graphite and graphene. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7720-7724	16.4	1119
119	Resonance stabilized bis-thiadiazinyl radicals. <i>Chemical Communications</i> , 2005 , 1218-20	5.8	23
118	Continuous spinning of a single-walled carbon nanotube-nylon composite fiber. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3847-54	16.4	352
117	Resonating valence-bond ground state in a phenalenyl-based neutral radical conductor. <i>Science</i> , 2005 , 309, 281-4	33.3	234
116	Bis-1,2,3-thiaselenazolyl radicals and their sigma-bonded dimers. <i>Chemical Communications</i> , 2005 , 1543-5	5.8	31
115	The effect of selenium incorporation on the bandwidth and conductivity of neutral radical conductors. <i>Chemical Communications</i> , 2005 , 5745-7	5.8	34
114	New family of aminophenalenyl-based neutral radical molecular conductors: synthesis, structure, and solid state properties. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8185-96	16.4	68
113	Pressure enhanced conductivity in bis-1,2,3-thiaselenazolyl dimers. <i>Journal of the American Chemical Society</i> , 2005 , 127, 18159-70	16.4	47
112	Electronic properties of single-walled carbon nanotube networks. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5990-5	16.4	323
111	Influence of the zeta potential on the dispersability and purification of single-walled carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11520-4	3.4	195
110	Synthesis and characterization of water soluble single-walled carbon nanotube graft copolymers. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8197-203	16.4	299
109	A Bone Mimic Based on the Self-Assembly of Hydroxyapatite on Chemically Functionalized Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2005 , 17, 3235-3241	9.6	249
108	Polyethyleneimine functionalized single-walled carbon nanotubes as a substrate for neuronal growth. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4285-9	3.4	238

107	Applications of Carbon Nanotubes in Biotechnology and Biomedicine. <i>Journal of Biomedical Nanotechnology</i> , 2005 , 1, 3-17	4	210
106	Comparison of analytical techniques for purity evaluation of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3439-48	16.4	282
105	A Disposable Biosensor for Organophosphorus Nerve Agents Based on Carbon Nanotubes Modified Thick Film Strip Electrode. <i>Electroanalysis</i> , 2005 , 17, 54-58	3	200
104	Tautomerism and ¹ H and ¹³ C NMR assignment of methyl derivatives of 9-hydroxyphenalenone. <i>Magnetic Resonance in Chemistry</i> , 2005 , 43, 1053-6	2.1	1
103	Chemically functionalized water soluble single-walled carbon nanotubes modulate neurite outgrowth. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1707-12	1.3	108
102	Light-mediated C-C sigma-bond driven crystallization of a phenalenyl radical dimer. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14297-302	16.4	44
101	Behavior of fluids in nanoscopic space. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6331-2	11.5	7
100	Bistabilities in 1,3,2-dithiazolyl radicals. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8256-65	16.4	174
99	Side-wall opening of single-walled carbon nanotubes (SWCNTs) by chemical modification: a critical theoretical study. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1552-4	16.4	92
98	A MOLECULE LIKE SODIUM. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2004 , 179, 673-684	1	54
97	Light Modulation of Electronic Transitions in Semiconducting Single Wall Carbon Nanotubes. <i>Nano Letters</i> , 2004 , 4, 1529-1533	11.5	27
96	Persistent Photoconductivity in Chemically Modified Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19976-19981	3.4	43
95	Magnetically Assembled Multiwalled Carbon Nanotubes on Ferromagnetic Contacts□ <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19818-19824	3.4	17
94	Dithiazolodithiazolyl Radicals: Substituent Effects on Solid State Structures and Properties. <i>Chemistry of Materials</i> , 2004 , 16, 1564-1572	9.6	47
93	Bistability and the phase transition in 1,3,2-dithiazolo[4,5-b]pyrazin-2-yl. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14692-3	16.4	113
92	Large-scale fabrication of aligned single-walled carbon nanotube array and hierarchical single-walled carbon nanotube assembly. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16698-9	16.4	97
91	Proton Exchange Membrane Fuel Cells with Carbon Nanotube Based Electrodes. <i>Nano Letters</i> , 2004 , 4, 345-348	11.5	682
90	Preparation of Single-Walled Carbon Nanotube Reinforced Polystyrene and Polyurethane Nanofibers and Membranes by Electrospinning. <i>Nano Letters</i> , 2004 , 4, 459-464	11.5	460

89	Chemically Functionalized Carbon Nanotubes as Substrates for Neuronal Growth. <i>Nano Letters</i> , 2004 , 4, 507-511	11.5	588
88	Nitric Acid Purification of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 13838-13842	3.4	422
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