Robert C Haddon

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

#	Paper	IF	Citations
250	Solution properties of single-walled carbon nanotubes. <i>Science</i> , 1998 , 282, 95-8	33.3	2120
249	Solution properties of graphite and graphene. Journal of the American Chemical Society, 2006, 128, 772	0-1 6.4	1119
248	Graphite Nanoplatelet E poxy Composite Thermal Interface Materials. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7565-7569	3.8	844
247	Enhanced Thermal Conductivity in a Hybrid Graphite Nanoplatelet ICarbon Nanotube Filler for Epoxy Composites. <i>Advanced Materials</i> , 2008 , 20, 4740-4744	24	776
246	Chemical modification of epitaxial graphene: spontaneous grafting of aryl groups. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1336-7	16.4	722
245	Multiscale carbon nanotube-carbon fiber reinforcement for advanced epoxy composites. <i>Langmuir</i> , 2007 , 23, 3970-4	4	702
244	Proton Exchange Membrane Fuel Cells with Carbon Nanotube Based Electrodes. <i>Nano Letters</i> , 2004 , 4, 345-348	11.5	682
243	Chemically Functionalized Carbon Nanotubes as Substrates for Neuronal Growth. <i>Nano Letters</i> , 2004 , 4, 507-511	11.5	588
242	Bone cell proliferation on carbon nanotubes. <i>Nano Letters</i> , 2006 , 6, 562-7	11.5	582
241	Molecular functionalization of carbon nanotubes and use as substrates for neuronal growth. Journal of Molecular Neuroscience, 2000 , 14, 175-82	3.3	550
240	Dissolution of Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 1999 , 11, 834-840	24	521
239	Dissolution of Full-Length Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2525-2528	3.4	492
238	Spectroscopy of covalently functionalized graphene. <i>Nano Letters</i> , 2010 , 10, 4061-6	11.5	461
237	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
236	Nitric Acid Purification of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 13838-13842	3.4	422
235	Bolometric infrared photoresponse of suspended single-walled carbon nanotube films. <i>Science</i> , 2006 , 312, 413-6	33.3	381
234	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

(2001-2003)

233	Sidewall functionalization of single-walled carbon nanotubes by addition of dichlorocarbene. Journal of the American Chemical Society, 2003 , 125, 14893-900	16.4	340
232	piElectrons in three dimensiona. Accounts of Chemical Research, 1988, 21, 243-249	24.3	331
231	Electronic properties of single-walled carbon nanotube networks. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5990-5	16.4	323
230	Synthesis and characterization of water soluble single-walled carbon nanotube graft copolymers. Journal of the American Chemical Society, 2005 , 127, 8197-203	16.4	299
229	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
228	Design of organic metals and superconductors. <i>Nature</i> , 1975 , 256, 394-396	50.4	259
227	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
226	Crystal Growth, Structure, and Electronic Band Structure of ∄T Polymorphs. <i>Advanced Materials</i> , 1998 , 10, 379-382	24	245
225	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
224	Resonating valence-bond ground state in a phenalenyl-based neutral radical conductor. <i>Science</i> , 2005 , 309, 281-4	33.3	234
223	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
222	Applications of Carbon Nanotubes in Biotechnology and Biomedicine. <i>Journal of Biomedical Nanotechnology</i> , 2005 , 1, 3-17	4	210
221	Soluble graphene derived from graphite fluoride. Chemical Physics Letters, 2007, 445, 51-56	2.5	206
220	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
219	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
218	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
217	Bistabilities in 1,3,2-dithiazolyl radicals. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8256-65	16.4	174
216	Enhanced Physical Properties in a Pentacene Polymorph. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1732-1736	16.4	171

215	High Energy Density Supercapacitor Based on a Hybrid Carbon NanotubeReduced Graphite Oxide Architecture. <i>Advanced Energy Materials</i> , 2012 , 2, 438-444	21.8	169
214	Conductive single-walled carbon nanotube substrates modulate neuronal growth. <i>Nano Letters</i> , 2009 , 9, 264-8	11.5	159
213	Rehybridization and .piorbital overlap in nonplanar conjugated organic molecules: .piorbital axis vector (POAV) analysis and three-dimensional Hueckel molecular orbital (3D-HMO) theory. <i>Journal of the American Chemical Society</i> , 1987 , 109, 1676-1685	16.4	151
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	High resolution capillary electrophoresis of carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3169-74	16.4	139
210	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
209	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
208	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
207	Vibrational spectroscopy of superconducting K3C60 by inelastic neutron scattering. <i>Nature</i> , 1991 , 354, 462-463	50.4	127
206	Functionalized Single-Walled Carbon Nanotubes for Carbon Fiber E poxy Composites <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17865-17871	3.8	126
205	V-type nerve agent detection using a carbon nanotube-based amperometric enzyme electrode. <i>Analytical Chemistry</i> , 2006 , 78, 331-6	7.8	124
204	Chemistry at the Dirac point: Diels-Alder reactivity of graphene. <i>Accounts of Chemical Research</i> , 2012 , 45, 673-82	24.3	122
203	Molecular semiconductors from bifunctional dithia- and diselenadiazolyl radicals. Preparation and solid-state structural and electronic properties of 1,4-[(E2N2C)C6H4(CN2E2)] (E = sulfur, selenium). Journal of the American Chemical Society, 1991, 113, 582-588	16.4	121
202	Covalent Chemistry for Graphene Electronics. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2487-2498	6.4	118
201	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
200	Anisotropic Thermal and Electrical Properties of Thin Thermal Interface Layers of Graphite Nanoplatelet-Based Composites. <i>Scientific Reports</i> , 2013 , 3,	4.9	116
199	Chromatographic purification and properties of soluble single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 11673-7	16.4	116
198	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

197	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
196	Epitaxial graphene electronic structure and transport. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 3740	037	104
195	Poly(m-aminobenzene sulfonic acid) functionalized single-walled carbon nanotubes based gas sensor. <i>Nanotechnology</i> , 2007 , 18, 165504	3.4	103
194	Benzyne Adds Across a Closed 5 B Ring Fusion in C70: Evidence for Bond Delocalization in Fullerenes. <i>Journal of the American Chemical Society</i> , 1998 , 120, 2337-2342	16.4	101
193	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
192	3He NMR of He@C606-and He@C706 New Records for the Most Shielded and the Most Deshielded3He Inside a Fullerene1. <i>Journal of the American Chemical Society</i> , 1998 , 120, 6389-6393	16.4	99
191	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
190	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
189	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
188	Resonance-stabilized 1,2,3-dithiazolo-1,2,3-dithiazolyls as neutral pi-radical conductors. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9498-509	16.4	96
187	Advances in transferring chemical vapour deposition graphene: a review. <i>Materials Horizons</i> , 2017 , 4, 1054-1063	14.4	94
186	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
185	Organometallic chemistry of extended periodic Electron systems: hexahapto-chromium complexes of graphene and single-walled carbon nanotubes. <i>Chemical Science</i> , 2011 , 2, 1326	9.4	90
184	High Performance Hydrogen Fuel Cells with Ultralow Pt Loading Carbon Nanotube Thin Film Catalysts Journal of Physical Chemistry C, 2007 , 111, 17901-17904	3.8	89
183	Linear free energy relation of methanofullerene C61-substituents with cyclic voltammetry: Strong electron withdrawal anomaly. <i>Tetrahedron</i> , 1996 , 52, 5149-5159	2.4	89
182	X-ray crystal structures of the 1,3,2-benzodithiazolyl dimer and 1,3,2-benzodithiazolium chloride sulfur dioxide solvate: comparison of the molecular and electronic structures of the 10pielectron C6H4S2N+ cation and the C6H4S2N.bul. radical and dimer and a study of the variable-temperature	5.1	87
181	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
180	1,9-Dithiophenalenyl system. <i>Journal of the American Chemical Society</i> , 1978 , 100, 7629-7633	16.4	82

179	Electrochemical Evidence for Through-Space Orbital Interactions in Spiromethanofullerenes. Angewandte Chemie International Edition in English, 1995 , 34, 1591-1594		81
178	Comparative molecular orbital study of [6]-, [10]-, and [18]annulenes and the bridged [10]annulenes. <i>Journal of the American Chemical Society</i> , 1985 , 107, 289-298	16.4	81
177	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
176	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
175	The dimers of carbon monoxide and carbon monosulfide. Chemically bound triplet electronic ground states. <i>Journal of the American Chemical Society</i> , 1983 , 105, 194-198	16.4	76
174	Diels-Alder reactions of graphene: computational predictions of products and sites of reaction. Journal of the American Chemical Society, 2013, 135, 17643-9	16.4	71
173	Controlled Purification of Single-Walled Carbon Nanotube Films by Use of Selective Oxidation and Near-IR Spectroscopy. <i>Chemistry of Materials</i> , 2003 , 15, 4273-4279	9.6	71
172	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
171	Room-temperature magnetic ordering in functionalized graphene. Scientific Reports, 2012, 2, 624	4.9	67
170	Synthesis, crystal structure, and physical properties of sterically unprotected hydrocarbon radicals. Journal of the American Chemical Society, 2011 , 133, 14240-3	16.4	67
169	Water soluble single-walled carbon nanotubes inhibit stimulated endocytosis in neurons. <i>Nano Letters</i> , 2008 , 8, 3538-42	11.5	66
168	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
167	Unified theory of the thermodynamic and kinetic criteria of aromatic character in the [4n+2]annulenes. <i>Tetrahedron Letters</i> , 1980 , 21, 1191-1192	2	63
166	Theoretical studies in the norbornadiene-quadricyclane system. <i>Journal of the American Chemical Society</i> , 1983 , 105, 3110-3114	16.4	62
165	Prototypal dithiazolodithiazolyl radicals: synthesis, structures, and transport properties. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14394-403	16.4	60
164	Fast Electrochromic Device Based on Single-Walled Carbon Nanotube Thin Films. <i>Nano Letters</i> , 2016 , 16, 5386-93	11.5	59
163	Effect of nitrophenyl functionalization on the magnetic properties of epitaxial graphene. <i>Small</i> , 2011 , 7, 1175-80	11	57
162	Ionic Liquid Gating of Suspended MoS2 Field Effect Transistor Devices. <i>Nano Letters</i> , 2015 , 15, 5284-8	11.5	56

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161	Trisphenalenyl-based neutral radical molecular conductor. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3942-51	16.4	56
160	Hysteretic spin and charge delocalization in a phenalenyl-based molecular conductor. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17258-64	16.4	55
159	MINDO [modified intermediate neglect of differential overlap]/3 study of cyclopentadienyl(1+) and cyclopentadienyl(1-) ions. <i>Journal of the American Chemical Society</i> , 1973 , 95, 5836-5837	16.4	55
158	A MOLECULE LIKE SODIUM. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2004 , 179, 673-684	1	54
157	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
156	Visible-Blind UV Photodetector Based on Single-Walled Carbon Nanotube Thin Film/ZnO Vertical Heterostructures. <i>ACS Applied Materials & Samp; Interfaces</i> , 2017 , 9, 37094-37104	9.5	52
155	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
154	Covalent chemistry in graphene electronics. <i>Materials Today</i> , 2012 , 15, 276-285	21.8	50
153	Tetrathiophenalenyl radical and its disulfide-bridged dimer. Organic Letters, 2008, 10, 3121-3	6.2	49
152	SWNTMWNT Hybrid Architecture for Proton Exchange Membrane Fuel Cell Cathodes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9089-9094	3.8	49
151	The First Structurally Characterized Homofullerene (Fulleroid). <i>Journal of the American Chemical Society</i> , 1999 , 121, 7971-7972	16.4	49
150	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
149	Single-Walled Carbon Nanotube P oly(porphyrin) Hybrid for Volatile Organic Compounds Detection. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1602-1610	3.8	47
148	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
147	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
146	Dithiazolodithiazolyl Radicals: Substituent Effects on Solid State Structures and Properties. <i>Chemistry of Materials</i> , 2004 , 16, 1564-1572	9.6	47
145	The isolation, characterisation, gas phase electron diffraction and crystal structure of the thermally stable radical [CF3CSNSCCF3][]Dalton Transactions RSC, 2000 , 3365-3382		47
144	Isostructural bisdithiazolyl and bisthiaselenazolyl radicals: trends in bandwidth and conductivity. <i>Inorganic Chemistry</i> , 2006 , 45, 10958-66	5.1	46

143	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
142	Fabrication and Properties of Conducting Polypyrrole/SWNT-PABS Composite Films and Nanotubes. <i>Electroanalysis</i> , 2006 , 18, 1047-1054	3	44
141	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
140	Chemically engineered graphene-based 2D organic molecular magnet. <i>ACS Nano</i> , 2013 , 7, 10011-22	16.7	43
139	Persistent Photoconductivity in Chemically Modified Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19976-19981	3.4	43
138	Ab initio molecular orbital study of ethylenedione (O.dbd.C.dbd.C.dbd.O). <i>Journal of the American Chemical Society</i> , 1975 , 97, 1645-1649	16.4	41
137	Effects of electron correlation on the energies of 2-norbornyl cation structures. Evaluation of the nonclassical stabilization energy. <i>Journal of the American Chemical Society</i> , 1983 , 105, 5915-5917	16.4	40
136	3,4:3',4'-Bibenzo[b]thiophene. <i>Journal of Organic Chemistry</i> , 1979 , 44, 2491-2493	4.2	40
135	Ground states of molecules. 34. MINDO/3 calculations for nonclassical ions. <i>Journal of the American Chemical Society</i> , 1977 , 99, 377-385	16.4	40
134	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
133	Electron spin resonance studies of sulfur-based donor heterocycles: sulfur-33 couplings. <i>Journal of the American Chemical Society</i> , 1978 , 100, 4612-4614	16.4	39
132	Single-walled carbon nanotube thin film emitter-detector integrated optoelectronic device. <i>Nano Letters</i> , 2008 , 8, 2224-8	11.5	38
131	Chemical approach to the realization of electronic devices in epitaxial graphene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 184-186	2.5	37
130	Electro-oxidized epitaxial graphene channel field-effect transistors with single-walled carbon nanotube thin film gate electrode. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14429-36	16.4	36
129	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
128	A (13)C INADEQUATE and HF-GIAO study of C(60)H(2) and C(60)H(6) identification of ring currents in a 1,2-dihydrofullerene. <i>Journal of the American Chemical Society</i> , 2002 , 124, 8090-4	16.4	36
127	A pi-stacked 1,2,3-dithiazolyl radical. Preparation and solid state characterization of (Cl2C3NS)(ClC2NS2). <i>Chemical Communications</i> , 2002 , 1872-3	5.8	36
126	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

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125	Molecular materials from 1,3,2-dithiazolyls. Solid-state structuresand magnetic properties of 2,3-naphthalene and quinoxalinederivatives. <i>Chemical Communications</i> , 1997 , 873-874	5.8	34	
124	The effect of selenium incorporation on the bandwidth and conductivity of neutral radical conductors. <i>Chemical Communications</i> , 2005 , 5745-7	5.8	34	
123	Heterocyclic Thiazyl and Selenazyl Radicals; Synthesis and Applications in Solid State Architecture. <i>Studies in Inorganic Chemistry</i> , 1992 , 14, 295-322		34	
122	Hexahapto-Metal Complexes of Single-Walled Carbon Nanotubes. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1001-1019	2.6	33	
121	Dependence of the thermal conductivity of two-dimensional graphite nanoplatelet-based composites on the nanoparticle size distribution. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 334216	1.8	33	
120	The production of oxygenated polycrystalline graphene by one-step ethanol-chemical vapor deposition. <i>Carbon</i> , 2011 , 49, 3789-3795	10.4	33	
119	Micropatterned Oriented Zeolite Monolayer Films by Direct In Situ Crystallization. <i>Chemistry of Materials</i> , 2003 , 15, 2687-2689	9.6	33	
118	Mono- and difunctional furan-based 1,2,3,5-dithiadiazolyl radicals; preparation and solid state structures of 2,5-[(S2N2C)OC4H2(CN2S2)] and 2,5-[(S2N2C)OC4H2(CN)]. <i>Canadian Journal of Chemistry</i> , 1992 , 70, 919-925	0.9	33	
117	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	
116	StructureBroperty trends in Estacked dithiazolo-dithiazolyl conductors. <i>Chemical Communications</i> , 2002 , 2562-2563	5.8	32	
115	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	
114	Metals and superconductors: molecular analogs of atomic hydrogen. <i>ChemPhysChem</i> , 2012 , 13, 3581-3	3.2	31	
113	Reversible grafting of Enaphthylmethyl radicals to epitaxial graphene. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4901-4	16.4	31	
112	Bis-1,2,3-thiaselenazolyl radicals and their sigma-bonded dimers. <i>Chemical Communications</i> , 2005 , 1543-	- 5 .8	31	
111	Thermal hysteresis in dithiadiazolyl and dithiazolyl radicals induced by supercooling of paramagnetic liquids close to room temperature: a study of F3CCNSSN and an interpretation of the behaviour of F3CCSNSCCF3. <i>Chemical Communications</i> , 2002 , 1836-7	5.8	31	
110	Perturbational molecular orbital (PMO) theory of homoaromaticity. <i>Journal of the American Chemical Society</i> , 1975 , 97, 3608-3615	16.4	31	
109	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	
108	Resonating valence bond and sigma-charge density wave phases in a benzannulated phenalenyl radical. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2684-94	16.4	30	

107	Preparation and crystal structure of the paramagnetic solid F3CCSSSCCF3AsF6: implications for the identity of RCSSCRH. <i>Journal of the Chemical Society Dalton Transactions</i> , 1992 , 1563-1572		30
106	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
105	Methoxy-Substituted Phenalenyl-Based Neutral Radical Molecular Conductor. <i>Chemistry of Materials</i> , 2009 , 21, 2226-2237	9.6	29
104	Controlling multidomain states to enable sub-10-nm magnetic force microscopy. <i>Applied Physics Letters</i> , 2008 , 93, 203116	3.4	29
103	Molecular, electronic, and crystal structure of naphthol[1,8-cd:4,5-c'd']bis[1,2,6]thiadiazine. <i>Journal of the American Chemical Society</i> , 1979 , 101, 7277-7281	16.4	29
102	Planar cis-[10]annulene and azulene revisited. <i>Journal of the American Chemical Society</i> , 1982 , 104, 3516	5- <u>36</u> 548	29
101	Light Modulation of Electronic Transitions in Semiconducting Single Wall Carbon Nanotubes. <i>Nano Letters</i> , 2004 , 4, 1529-1533	11.5	27
100	Synthesis, characterization, and x-ray crystal structure of the paramagnetic solid 5-(trifluoromethyl)-1,2,3,4-trithiazolium hexafluoroarsenate, containing the novel, planar 7.pi. CF3CNSSS+.bul. radical cation. <i>Inorganic Chemistry</i> , 1992 , 31, 2274-2279	5.1	27
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98	112, 6545-6556 Preparation and solid state characterization of 4,4?-bis(1,2,3,5-dithiadiazolyl). <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 1447-1448		26
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