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2335	Icosahedral, decahedral and single faulted particles obtained from carbon soot. 1993 , 284, L444-L448		1
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2332	Electronic structure and growth mechanism of carbon tubules. 1993 , 19, 185-191		81
2331	Thinning and opening of carbon nanotubes by oxidation using carbon dioxide. 1993 , 362, 520-522		483
2330	Quantum molecular dynamics simulations of fullerenes and graphitic microtubules. 1993 , 26, 74-78		5
2329	Properties of fullerene nanotubes. 1993 , 54, 1835-1840		129
2328	Icosahedral, decahedral and single faulted particles obtained from carbon soot. 1993 , 284, L444-L448		4
2327	Vapor-Condensation Generation and STM Analysis of Fullerene Tubes. 1993 , 260, 515-8		195
2326	Atomic structure and doping of microtubules. 1993 , 47, 1708-1711		155
2325	Toroidal forms of graphitic carbon. 1993 , 47, 12908-12911		115

2324	Toroidal forms of graphitic carbon. II. Elongated tori. 1993 , 48, 8323-8328		112
2323	Helically coiled cage forms of graphitic carbon. 1993 , 48, 5643-5647		169
2322	Electronic structure of double-layer graphene tubules. 1993 , 73, 494-500		278
2321	Electronic structure of a stepped graphite surface. 1993 , 48, 1757-1760		128
2320	Helical and rotational symmetries of nanoscale graphitic tubules. 1993 , 47, 5485-5488		540
2319	Geometrical Understanding of Fullerene Structures and Electronic States. 1993 , 1, 365-377		11
2318	Electron-phonon coupling and the electrical conductivity of fullerene nanotubes. 1993 , 48, 11385-11389		133
2317	Nanotube structure and electronic properties probed by scanning tunneling microscopy. <i>Applied Physics Letters</i> , 1993 , 62, 2792-2794	3-4	65
2316	Magnetoplasmons and persistent currents in cylindrical tubules. 1993 , 48, 5567-5571		50
2315	Symmetry properties of chiral carbon nanotubes. 1993 , 47, 16671-16674		137
2314	Template synthesis of metal microtubule ensembles utilizing chemical, electrochemical, and vacuum deposition techniques. 1994 , 9, 1174-1183		134
2313	Carbon Nanotubes. 1994 , 19, 43-49		74
2312	Scanning tunneling spectroscopy of carbon nanotubes. 1994 , 9, 259-262		110
2311	Synthesis of Aliphatic Polyurea Films by Vapor Deposition Polymerization and Their Piezoelectric Properties. 1994 , 33, 4647-4651		17
2310	Endohedral adsorption in graphitic nanotubes. 1994 , 101, 3334-3340		24
2309	Transport properties of a 1D-1D'-1D quantum system. 1994 , 50, 15009-15014		3
2308	Structures of the helical carbon nanotubes. 1994 , 32, 393-403		117
2307	The graphitizability of fullerenes and related textures. 1994 , 32, 335-343		18

2306	Observation of fullerene cones. 1994 , 220, 192-196	301
2305	Electron spin resonance of carbon nanotubes. 1994 , 225, 161-164	75
2304	Infrared rotation and vibration bands of endohedral fullerene complexes. Helium in C60-derived nanotubes. 1994 , 227, 405-411	4
2303	Structural characterization of carbon nanotubes and nanoparticles by high-resolution electron microscopy. 1994 , 229, 587-592	11
2302	Growth behavior and growth defects of carbon nanotubes. 1994 , 185, 131-140	22
2301	Structures of carbon nanotubes studied by HRTEM and nanodiffraction. 1994 , 53, 333-342	87
2300	Optical properties for graphene microtubules of different geometries. 1994 , 91, 191-194	3
2299	Growth energetics of carbon nanotubes. 1994 , 73, 2468-2471	96
2298	Structure and vibrational properties of carbon tubules. 1994 , 42, 375-385	25
2297	Electronic properties of graphite nanotubules from galvanomagnetic effects. 1994 , 72, 697-700	197
2296	Stability and Band Gap Constancy of Boron Nitride Nanotubes. 1994 , 28, 335-340	1269
2295	Hybridization effects and metallicity in small radius carbon nanotubes. 1994 , 72, 1878-1881	830
2294	Totally tubular. 1994 , 265, 611-2	13
2293	Capillarity and wetting of carbon nanotubes. 1994 , 265, 1850-2	750
2292	Energetics and structure of toroidal forms of carbon. 1994 , 50, 17575-17582	31
2291	Electronic properties of semiconducting graphitic microtubules. 1994 , 50, 12203-12206	31
2290	Electronic and Lattice Properties of Carbon Nanotubes. 1994 , 63, 2252-2260	88
2289	Plasmons and optical properties of carbon nanotubes. 1994 , 50, 17744-17747	202

2288	Computer simulation of materials using parallel architectures. 1994 , 2, 180-208	15
2287	Electron Energy-Loss Spectra of Single-Shell Carbon Nanotubes. 1994 , 33, L1316-L1319	67
2286	Relating carbon tubules. 1994 , 49, 5643-5651	205
2285	Magnetic susceptibility of buckytubes. 1994 , 9, 1578-1582	66
2284	Theoretical investigation of the electronic structure and absorption spectra of carbon cluster nanotubes. 1994 , 4, 11-18	1
2283	Electronic band structure of multilayered carbon tubules. 1994 , 2, 350-356	62
2282	Magnetic energy bands of carbon nanotubes. 1994 , 50, 14698-14701	72
2281	Preparation of Fullerenes and Fullerene-Based Materials. 1994 , 109-148	38
2280	Structural transformations, reactions, and electronic properties of fullerenes, onions, and buckytubes. 1994 , 2, 547-556	1
2279	Synthesis of Single Walled Buckytubes. 1994 , 349, 275	
2278	Fullerene/Tubule Based Hollow Carbon Nano-Gears. 1994 , 349, 283	15
2277	High Yield Conversion of Carbon Nanotubes to Nanostraws at Mild Conditions. 1994 , 359, 75	
2276	Solid State Properties of Fullerenes and Fullerene-Based Materials. 1994 , 48, 1-108	33
2275	Nanolithographic patterning of metal films with a scanning tunnelling microscope. 1994 , T55, 86-89	2
2274	Electronic and structural properties of carbon nanotubes. 1995 , 33, 893-902	302
2273	Carbon nanotubes with single-layer walls. 1995 , 33, 903-914	86
2272	Scanning tunneling microscopy of carbon nanotubes and nanocones. 1995 , 33, 915-920	130
2271	Topological and SP ³ defect structures in nanotubes. 1995 , 33, 973-978	224

2270	Annealing effect on carbon nanotubes. An ESR study. 1995 , 233, 47-51	113
2269	Growth of carbon nanotubes: a molecular dynamics study. 1995 , 236, 150-155	52
2268	Physics of carbon nanotubes. 1995 , 33, 883-891	918
2267	Microscope studies of the morphology and structure of carbon nanotubes. 1995 , 30, 2291-2295	9
2266	Fullerenes, nanotubes, onions and related carbon structures. 1995 , 15, 209-262	118
2265	Chirality-dependence of energy gaps of semiconducting nanotubules. 1995 , 94, 435-437	20
2264	Symmetry properties of chiral carbon nanotubes. 1995 , 51, 11176-11179	48
2263	Energy gaps of semiconducting nanotubules. 1995 , 52, 2723-2727	56
2262	Electronic structure and transport properties of fullerene nanotubules. 1995 , 51, 13833-13836	2
2261	Synthesis, Purification and Properties of Carbon Nanotubes. 1995 , 267, 267-276	10
2260	Thermally Activated Electric Conduction in Carbon Nanotubes. 1995 , 34, L10-L12	24
2259	Electron microscopy study of coiled carbon tubules. 1995 , 71, 605-630	72
2258	Static conductivity and superconductivity of carbon nanotubes: Relations between tubes and sheets. 1995 , 52, 14935-14940	106
2257	Magnetization of graphene tubules. 1995 , 52, 8423-8438	87
2256	Phonons in graphitic tubules: A tight-binding molecular dynamics study. 1995 , 103, 6697-6705	97
2255	Theory of carbon nanotube growth. 1995 , 52, 14850-14858	99
2254	Static polarizabilities of single-wall carbon nanotubes. 1995 , 52, 8541-8549	394
2253	The onset of instability in nanostructures: The role of nonlinear resonance. 1995 , 102, 6619-6622	16

2252	Magnetoconductance of carbon nanotubes. 1995 , 51, 7592-7597	69
2251	Tiling rules for toroidal molecules. 1995 , 51, 1146-1149	25
2250	Pure carbon nanoscale devices: Nanotube heterojunctions. 1996 , 76, 971-974	767
2249	Theoretical study of one-dimensional chains of metal atoms in nanotubes. 1996 , 53, 4023-4026	87
2248	Polymorphism of Extended Fullerene Networks: Geometrical Parameters and Electronic Structures. 1996 , 4, 565-582	29
2247	Structural flexibility of carbon nanotubes. 1996 , 104, 2089-2092	995
2246	Collective excitations in a single-layer carbon nanotube. 1996 , 53, 15493-15496	59
2245	Thermal conductance and the Peltier coefficient of carbon nanotubes. 1996 , 53, 11186-11192	11
2244	Probing Electrical Transport in Nanomaterials: Conductivity of Individual Carbon Nanotubes. 1996 , 272, 523-526	888
2243	Prediction of a pure-carbon planar covalent metal. 1996 , 53, R13303-R13305	208
2242	Quantum conductance of carbon nanotubes with defects. 1996 , 54, 2600-2606	424
2241	Catalytic effects of heavy metals on the growth of carbon nanotubes and nanoparticles. 1996 , 57, 35-39	51
2240	Elaboration and characterization of various carbon nanostructures. 1996 , 81, 243-250	17
2239	Theoretical study of electronic density of states for carbon nanotubules. 1996 , 82, 17-21	4
2238	Tunneling conductance of connected carbon nanotubes. 1996 , 53, 2044-2050	276
2237	C60-Related Tubules and Spherules. 1996 , 756-869	17
2236	Estimation of superconducting transition temperature in metallic carbon nanotubes. 1996 , 53, 5129-5132	15
2235	Vibrational Spectrum of Carbon Nanotubes. 1996 , 4, 31-42	6

2234	Structural and electronic properties of pentagon-heptagon pair defects in carbon nanotubes. 1996 , 53, 11108-11113	316
2233	Magnetic properties of nested carbon nanostructures studied by electron spin resonance and magnetic susceptibility measurements. 1996 , 80, 1020-1027	61
2232	SCANNING TUNNELING MICROSCOPY OF CARBON NANOTUBES AND NANOCONES. 1996 , 65-70	
2231	TOPOLOGICAL AND SP ³ DEFECT STRUCTURES IN NANOTUBES. 1996 , 71-76	3
2230	PHYSICS OF CARBON NANOTUBES. 1996 , 27-35	18
2229	CARBON NANOTUBES WITH SINGLE-LAYER WALLS. 1996 , 47-58	2
2228	Lattice Distortion with Spatial Variation of Carbon Nanotubes in Magnetic Fields. 1996 , 65, 2976-2986	29
2227	Large-Scale Synthesis of Aligned Carbon Nanotubes. 1996 , 274, 1701-3	1466
2226	Fullerene genesis by ion beams II: Disclinations and the corranulene road. 1996 , 117, 375-386	11
2225	Scanning tunneling microscopy and spectroscopy of a carbon nanotube. 1996 , 34, 1295-1297	23
2224	Estimation of Peierls-transition temperature in metallic carbon nanotube. 1996 , 97, 303-307	27
2223	Heat capacity of carbon nanotubes. 1996 , 100, 177-180	178
2222	Electrical conductivity of individual carbon nanotubes. 1996 , 382, 54-56	2085
2221	Structure of polygonal defects in graphitic carbon sheets. 1996 , 54, 14713-14719	36
2220	Polyne ring nucleus growth model for single-layer carbon nanotubes. 1996 , 76, 2515-2518	105
2219	Electronic properties of carbon nanotubes with polygonized cross sections. 1996 , 54, R8377-R8380	151
2218	Mechanically stretched carbon nanotubes: Induction of chiral current. 1996 , 54, R11149-R11152	14
2217	Chiral conductivities of nanotubes. 1996 , 76, 2121-2124	94

2216	Anisotropic electron-beam damage and the collapse of carbon nanotubes. 1996 , 54, 5927-5931		142
2215	Electronic specific heat of single-walled carbon nanotubes. 1996 , 54, 2896-2900		5
2214	Curvature-induced bonding changes in carbon nanotubes investigated by electron energy-loss spectrometry. 1996 , 53, 13824-13829		86
2213	Graphitic structures: from planar to spheres, toroids and helices. 1996 , 354, 2025-2054		75
2212	Synthetic Routes to Novel Nanomaterials. 1997 , 5, 813-827		5
2211	Thermoelectric power properties of graphitic nanotubule bundles. 1997 , 82, 3164-3166		12
2210	Magnetotransport in bundles of intercalated carbon nanotubes. 1997 , 56, 2161-2165		44
2209	Evidence for Size-Dependent Discrete Dispersions in Single-Wall Nanotubes. 1997 , 78, 4434-4437		277
2208	Nonlinear optical properties of armchair nanotube. <i>Applied Physics Letters</i> , 1997 , 71, 1029-1031	3.4	52
2207	Length control of individual carbon nanotubes by nanostructuring with a scanning tunneling microscope. <i>Applied Physics Letters</i> , 1997 , 71, 2629-2631	3.4	136
2206	Electron spin resonance and microwave resistivity of single-wall carbon nanotubes. 1997 , 56, 9275-9278		81
2205	Electronic structure of single-wall, multiwall, and filled carbon nanotubes. 1997 , 55, 13980-13988		55
2204	Low Energy Properties of (n,n) Carbon Nanotubes. 1997 , 78, 4245-4248		123
2203	Theory of composite B _x C _y N _z nanotube heterojunctions. <i>Applied Physics Letters</i> , 1997 , 70, 197-199	3.4	222
2202	The unrestricted Hartree-Fock self consistent field calculation for spin density wave state in metallic carbon nanotube. 1997 , 106, 8746-8752		2
2201	Boron and its compounds with nonmetals: chemical bonding and the electronic properties. 1997 , 66, 459-482		20
2200	Quantum Transport in a Carbon Nanotube in Magnetic Fields. 1997 , 66, 3558-3565		32
2199	Boltzmann Conductivity of a Carbon Nanotube in Magnetic Fields. 1997 , 66, 169-173		37

2198	Optical and Magneto-Optical Properties of Carbon Nanotube Bundles. 1997 , 66, 3294-3302	10
2197	Quasiparticle Properties of an Electron Gas in a Cylindrical Tubule. 1997 , 66, 3543-3550	
2196	Elementary Excitations in a Carbon Nanotube. 1997 , 66, 757-764	4
2195	In Situ Band Gap Engineering of Carbon Nanotubes. 1997 , 79, 2093-2096	250
2194	Conductance of Carbon Nanotube Junctions in Magnetic Fields. 1997 , 66, 2973-2976	26
2193	Effective Low-Energy Theory for Correlated Carbon Nanotubes. 1997 , 79, 5082-5085	438
2192	Coulomb Interactions and Mesoscopic Effects in Carbon Nanotubes. 1997 , 79, 5086-5089	486
2191	Single-Electron Transport in Ropes of Carbon Nanotubes. 1997 , 275, 1922-5	1158
2190	Carbon Nanotubes for Next-Generation Electronics Devices. 1997 , 278, 77-78	229
2189	Size, Shape, and Low Energy Electronic Structure of Carbon Nanotubes. 1997 , 78, 1932-1935	877
2188	Nanotubes. 1997 , 2, 706-715	55
2187	Short-range correlation effects on the plasmons in cylindrical tubules. 1997 , 55, 1361-1363	12
2186	Low-frequency plasmons in metallic carbon nanotubes. 1997 , 56, 1430-1439	35
2185	FUTURE DIRECTIONS IN CARBON SCIENCE. 1997 , 27, 1-34	83
2184	Individual single-wall carbon nanotubes as quantum wires. 1997 , 386, 474-477	2526
2183	Electronic structure of graphite nanpipes. 1997 , 39, 1000-1003	
2182	Impurity screening in carbon nanotubes. 1997 , 56, 4996-5002	37
2181	Energy-Related Applications of Nanostructured Carbons. 1997 , 1, 273-286	10

2180	Optical-absorption spectra in armchair tubes. 1997 , 231, 259-264	3
2179	The Defect Character of Carbon Nanotubes and Nanoparticles. 1997 , 53, 341-351	7
2178	Nanotubes, nanoparticles, and aspects of fullerene related carbons. 1997 , 58, 1979-1982	14
2177	Electronic properties of carbon nanotubes containing defects. 1997 , 58, 1833-1837	24
2176	Synthesis of nanotubes via catalytic pyrolysis of acetylene: A SEM study. 1997 , 35, 951-966	39
2175	Gasification behavior of carbon nanotubes. 1997 , 35, 977-981	17
2174	Investigation of the change in band structure of a carbon nanotube due to a distortion keeping the initial translational symmetry. 1997 , 268, 365-371	4
2173	Structure and formation of raft-like bundles of single-walled helical carbon nanotubes produced by laser evaporation. 1997 , 269, 65-71	69
2172	Large third-order optical nonlinearities of C60-derived nanotubes in infrared. 1997 , 280, 66-72	26
2171	X-ray spectroscopic and quantum-chemical study of carbon tubes produced in arc-discharge. 1998 , 289, 341-349	16
2170	Resonance Raman scattering and diameter-dependent electronic states in single-wall carbon nanotubes. 1998 , 292, 575-579	42
2169	The effect of structural distortions on the electronic structure of carbon nanotubes. 1998 , 297, 45-50	122
2168	Carbon nanotubes as long ballistic conductors. 1998 , 393, 240-242	720
2167	Berry's Phase and Absence of Back Scattering in Carbon Nanotubes. 1998 , 67, 2857-2862	616
2166	Electron-electron correlations in carbon nanotubes. 1998 , 394, 761-764	224
2165	Room-temperature transistor based on a single carbon nanotube. 1998 , 393, 49-52	4626
2164	Electronic structure of atomically resolved carbon nanotubes. 1998 , 391, 59-62	2591
2163	Atomic structure and electronic properties of single-walled carbon nanotubes. 1998 , 391, 62-64	2107

2162	Broken symmetry and pseudogaps in ropes of carbon nanotubes. 1998 , 391, 466-468	312
2161	Density of states reflects diameter in nanotubes. 1998 , 394, 29-30	150
2160	Magnetic susceptibility of multilayered carbon nanotubes. 1998 , 40, 1769-1773	11
2159	Raman scattering of light and IR absorption in carbon nanotubes. 1998 , 86, 1030-1034	8
2158	Large-scale preparation of dispersive carbon nanotubes by arc-discharge method. 1998 , 41, 431-437	2
2157	Geometric boundary effects on the electronic properties of finite carbon nanotubes. 1998 , 59, 417-423	41
2156	Electron diffraction study of single-wall carbon nanotubes. 1998 , 105, 145-149	37
2155	Measurement of the elastic modulus of a multi-wall boron nitride nanotube. 1998 , 105, 297-300	474
2154	Electronic structures of chiral carbon toroids. 1998 , 107, 227-231	23
2153	One-dimensional nanostructures: Chemistry, physics & applications. 1998 , 107, 607-616	776
2152	The future of the fullerenes. 1998 , 107, 597-606	140
2151	Symmetry effect on the optical properties of armchair and zigzag nanotubes. 1998 , 107, 791-795	1
2150	Localization in single-walled carbon nanotubes. 1998 , 109, 105-109	40
2149	Theoretical study of third-order nonlinear optical response of semiconductor carbon nanotubes. 1998 , 245, 173-189	105
2148	Transport spectroscopy of single-walled carbon nanotubes. 1998 , 249-251, 132-135	9
2147	The atom number, symmetry and cap effects on the optical-absorption spectra of C60-derived nanotubes. 1998 , 241, 274-280	2
2146	Synthesis of carbon nanostructures by ion sputtering. 1998 , 242, 261-265	9
2145	Contacting carbon nanotubes selectively with low-ohmic contacts for four-probe electric measurements. <i>Applied Physics Letters</i> , 1998 , 73, 274-276	3-4 267

2144	Intertwined symmetry of the magnetic modulation and the flux-line lattice in the superconducting state of TmNi ₂ B ₂ C. 1998 , 393, 242-245	74
2143	Plasmons in carbon nanotube bundles. 1998 , 57, 10183-10187	30
2142	Carbon-Nanotube-Based Quantum Dot. 1998 , 81, 1278-1281	156
2141	Site-selective radiation damage of collapsed carbon nanotubes. <i>Applied Physics Letters</i> , 1998 , 73, 2435-2437	27
2140	Electronic structure of carbon nanotubes with chiral symmetry. 1998 , 57, R15037-R15039	131
2139	Energetics of bent carbon nanotubes. 1998 , 57, 2586-2591	56
2138	Nanoparticles of Layered Compounds with Hollow Cage Structures (Inorganic Fullerene-Like Structures) 1998 , 10, 3225-3238	246
2137	Atomic structure and electronic properties of single-wall carbon nanotubes probed by scanning tunneling microscope at room temperature. <i>Applied Physics Letters</i> , 1998 , 73, 3839-3841	3-4 79
2136	Effective-Mass Theory of Carbon Nanotube Junctions. 1998 , 67, 3542-3551	61
2135	Electronic and structural properties of multiwall carbon nanotubes. 1998 , 58, R16001-R16004	209
2134	Bandgap Oscillation in Polyphenanthrenes. 1998 , 102, 498-506	73
2133	Orientation and purification of carbon nanotubes using ac electrophoresis. 1998 , 31, L34-L36	297
2132	BACK MATTER. 1998 , 227-259	
2131	Persistent currents in toroidal carbon nanotubes. 1998 , 57, 6731-6737	96
2130	Atomic and electronic structures of large and small carbon tori. 1998 , 57, 14886-14890	74
2129	Low-frequency optical excitations in zigzag carbon tori. 1998 , 58, 3629-3632	16
2128	Deformation of carbon nanotubes by surface van der Waals forces. 1998 , 58, 13870-13873	578
2127	Plastic Deformations of Carbon Nanotubes. 1998 , 81, 5346-5349	216

2126	Conductivity and atomic structure of isolated multiwalled carbon nanotubes. 1998 , 43, 89-94	57
2125	Cones and Tubes: Geometry in the Chemistry of Carbon. 1998 , 31, 558-566	63
2124	Universal Density of States for Carbon Nanotubes. 1998 , 81, 2506-2509	474
2123	Thermoelectric Power of Single-Walled Carbon Nanotubes. 1998 , 80, 1042-1045	236
2122	Temperature-dependent resistivity of single-wall carbon nanotubes. 1998 , 41, 683-688	197
2121	Energetics, structure, mechanical and vibrational properties of single-walled carbon nanotubes. 1998 , 9, 184-191	411
2120	Multiprobe Transport Experiments on Individual Single-Wall Carbon Nanotubes. 1998 , 80, 4036-4039	275
2119	Scanning Tunneling Microscopy and Spectroscopy Studies of Single Wall Carbon Nanotubes. 1998 , 13, 2380-2388	46
2118	Formation of Thin Single-Wall Carbon Nanotubes by Laser Vaporization of Rh/Pd-Graphite Composite Rod. 1998 , 37, L616-L618	43
2117	A new kind of nonlinear optical material: the fullerene tube. 1998 , 31, 3079-3086	22
2116	Atomic resolution STM imaging of a twisted single-wall carbon nanotube. 1998 , 58, R4266-R4269	86
2115	Optical properties of carbon nanotubes. 1998 , 58, 6756-6759	81
2114	Plasmon excitations in graphitic carbon spheres. 1998 , 57, 15599-15612	37
2113	Effect of intertube coupling on the electronic structure of carbon nanotube ropes. 1998 , 58, R13314-R13317	124
2112	Relations between global and local topology in multiple nanotube junctions. 1998 , 58, 12671-12671	46
2111	Theory of nonlinear optical properties of C60-derived nanotubes. 1998 , 83, 3001-3007	29
2110	Tight-Binding Computation of the STM Image of Carbon Nanotubes. 1998 , 81, 5588-5591	110
2109	Spin Splitting and Even-Odd Effects in Carbon Nanotubes. 1998 , 81, 681-684	194

2108	Resonant Raman scattering and the zone-folded electronic structure in single-wall nanotubes. 1998 , 57, 4999-5001	59
2107	Correlation effects of single-wall carbon nanotubes in weak coupling. 1998 , 58, 4963-4971	35
2106	Thermoelectric power behavior in carbon nanotubule bundles from 4.2 to 300 K. 1998 , 58, 1166-1168	36
2105	Impurity Scattering in Carbon Nanotubes [Absence of Back Scattering] 1998 , 67, 1704-1713	417
2104	Magnetic Properties of Toroidal Carbon Nanotubes. 1998 , 67, 1094-1097	28
2103	Atomic and Electronic Structures of Deformed Graphite Sheets. 1998 , 67, 3976-3984	7
2102	Morphologies and Related Electronic Properties of Carbon Nanotubes. 1998 , 13, 2368-2379	6
2101	Electronic States of Toroidal Carbon Nanotubes. 1998 , 67, 259-263	18
2100	Electron-electron interaction effects in single-wall carbon nanotubes. 1999 , 411-424	
2099	A Simple Method to Make Field Emitter Using Ropes of Single-Walled Carbon Nanotubes. 1999 , 16, 117-119	5
2098	Numerical Study of Impurity Scattering in Carbon Nanotubes. 1999 , 68, 561-566	59
2097	Structure and morphology of carbon nanotubes grown on zeolite-supported catalysts by chemical vapor deposition. 1999 , 8, 545-550	1
2096	Carbon nanotubes: from macromolecules to nanotechnology. 1999 , 96, 14199-200	76
2095	Conductance of Carbon Nanotubes with a Vacancy. 1999 , 68, 716-719	92
2094	Novel Process for Fabricating Nanodevices Consisting of Carbon Nanotubes. 1999 , 38, 7247-7252	36
2093	Electrical Transport Properties in Carbon Nanotubes. 1999 , 107-127	4
2092	Theoretical estimations of third-order optical nonlinearities for semiconductor carbon nanotubes. 1999 , 11, 3065-3074	26
2091	Broken symmetries in scanning tunneling images of carbon nanotubes. 1999 , 59, R12759-R12762	50

2090	Self-inductance of chiral conducting nanotubes. 1999 , 60, 13885-13889		20
2089	Quantum interference of electrons in multiwall carbon nanotubes. 1999 , 60, 13492-13496		79
2088	Electron emission from films of carbon nanotubes and ta-C coated nanotubes. <i>Applied Physics Letters</i> , 1999 , 75, 2680-2682	3-4	50
2087	Development of an energy barrier at the metal-chain-metallic-carbon-nanotube nanocontact. 1999 , 60, 6074-6079		50
2086	Nucleation of Carbon Nanotubes without Pentagonal Rings. 1999 , 83, 1791-1794		49
2085	Electronic states of metallic and semiconducting carbon nanotubes with bond and site disorder. 1999 , 60, 1452-1455		20
2084	Plasmons in two-dimensional arrays of aligned carbon nanotubes. 1999 , 60, 14434-14440		17
2083	Ad-dimers on Strained Carbon Nanotubes: A New Route for Quantum Dot Formation?. 1999 , 83, 4132-4135		97
2082	Single-electron transistor made of multiwalled carbon nanotube using scanning probe manipulation. <i>Applied Physics Letters</i> , 1999 , 75, 728-730	3-4	81
2081	Electronics of single-wall carbon nanotubes.		
2080	Geometrical structure and electronic properties of atomically resolved multiwall carbon nanotubes. <i>Applied Physics Letters</i> , 1999 , 75, 2755-2757	3-4	21
2079	Novel Length Scales in Nanotube Devices. 1999 , 83, 5174-5177		247
2078	Laser-Driven Atomic Pump. 1999 , 82, 5373-5376		82
2077	Elastic Response of Carbon Nanotube Bundles to Visible Light. 1999 , 82, 3472-3475		136
2076	Resonantly enhanced Raman scattering and high-order Raman spectra of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 1999 , 75, 1524-1526	3-4	39
2075	Electrical transport in pure and boron-doped carbon nanotubes. <i>Applied Physics Letters</i> , 1999 , 74, 3149-3151	3-4	155
2074	Nanotube electronic states observed with thermal field emission electron spectroscopy. <i>Applied Physics Letters</i> , 1999 , 75, 2773-2775	3-4	45
2073	Exciton Effects of Optical Transitions in Single-Wall Carbon Nanotubes. 1999 , 68, 3131-3133		134

2072	Band-gap modification by radial deformation in carbon nanotubes. 1999 , 60, 10656-10659	101
2071	A novel method of varying the diameter of carbon nanotubes formed on an Fe-supported Y zeolite catalyst. 1999 , 29, 383-388	31
2070	Magnetic properties of chiral carbon toroids. 1999 , 269, 43-48	6
2069	Carbon nanotubes: nanomechanics, manipulation, and electronic devices. 1999 , 141, 201-209	224
2068	Field emission energy distributions from individual multiwalled carbon nanotubes. 1999 , 146, 312-327	194
2067	Loss of translational symmetry in carbon nanotubes. 1999 , 302, 60-64	13
2066	A census of nanotube caps. 1999 , 315, 335-347	66
2065	AharonovBohm oscillations in carbon nanotubes. 1999 , 397, 673-675	659
2064	Spontaneous chaotic granular mixing. 1999 , 397, 675-678	75
2063	Conductance in nanotube Y-junctions. 1999 , 306, 402-406	39
2062	Prediction of a nanoporous sp ² -carbon framework structure by combining graph theory with quantum mechanics. 1999 , 312, 536-541	23
2061	Third-order optical nonlinearities of chiral graphene tubules. 1999 , 313, 211-216	13
2060	Computational Materials Chemistry at the Nanoscale. 1999 , 1, 51-69	19
2059	Work Functions and Surface Functional Groups of Multiwall Carbon Nanotubes. 1999 , 103, 8116-8121	823
2058	Far-infrared gaps in single-wall carbon nanotubes. 1999 , 60, R11305-R11308	172
2057	Fullerenes and Nanotubes. 1999 , 35-94	9
2056	AM1 treatment of cyclacene tubes. 1999 , 490, 55-60	12
2055	Self-assembly growth of single-wall carbon nanotubes. 1999 , 155, 395-402	4

2054	Advanced syntheses and microfabrications of conjugated polymers, C60-containing polymers and carbon nanotubes for optoelectronic applications. 1999 , 10, 357-420		74
2053	Anorganische Nanofibren. 1999 , 111, 2311-2315		36
2052	Band-gap change of carbon nanotubes: Effect of small uniaxial and torsional strain. 1999 , 60, 13874-13878		323
2051	Electron diffraction and microscopy of nanotubes. 1999 , 62, 1471-1524		114
2050	Ring Formation in Single-Wall Carbon Nanotubes. 1999 , 103, 7551-7556		134
2049	Chemistry and Physics in One Dimension: Synthesis and Properties of Nanowires and Nanotubes. 1999 , 32, 435-445		3021
2048	Field emission microscopy of carbon nanotube caps. 1999 , 85, 3832-3836		140
2047	Electron backscattering on single-wall carbon nanotubes observed by scanning tunneling microscopy. 1999 , 47, 601-607		46
2046	Mechanisms of electron field emission from diamond, diamond-like carbon, and nanostructured carbon. 1999 , 17, 659		185
2045	Plasmons in Narrow-Gap Carbon Toroids. 1999 , 68, 1102-1105		6
2044	Bias-enhanced nucleation and growth of the aligned carbon nanotubes with open ends under microwave plasma synthesis. <i>Applied Physics Letters</i> , 1999 , 74, 3462-3464	3-4	123
2043	Growth of straight nanotubes with a cobalt-nickel catalyst by chemical vapor deposition. <i>Applied Physics Letters</i> , 1999 , 74, 644-646	3-4	53
2042	Electronic Density of States of Atomically Resolved Single-Walled Carbon Nanotubes: Van Hove Singularities and End States. 1999 , 82, 1225-1228		313
2041	Integrated nanotube circuits: Controlled growth and ohmic contacting of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 1999 , 75, 627-629	3-4	239
2040	Imaging electron wave functions of quantized energy levels in carbon nanotubes. 1999 , 283, 52-5		278
2039	Probing the single-wall carbon nanotube bundle: Raman scattering under high pressure. 1999 , 59, 10928-10934	358	
2038	Effects of Finite Length on the Electronic Structure of Carbon Nanotubes. 1999 , 103, 641-646		209
2037	Physical properties of multiwalled carbon nanotubes. 1999 , 1, 77-82		182

2036	Electrical conductivities of multi-wall carbon nano tubes. 1999 , 103, 2543-2546	94
2035	Optical properties of single-wall carbon nanotubes. 1999 , 103, 2555-2558	2028
2034	Nonlinear transport and localization in single-walled carbon nanotubes. 1999 , 103, 2529-2532	45
2033	Resistance of carbon nanotubes connected to reservoirs. 1999 , 103, 2527-2528	1
2032	Possible explanation for the conductance of a single quantum unit in metallic carbon nanotubes. 1999 , 60, R14009-R14011	40
2031	Electronic Excitations in Cylinder Superlattices. 1999 , 68, 3352-3359	3
2030	An Intrinsic Carbon Nanotube Heterojunction Diode. 1999 , 103, 1871-1875	37
2029	Electronic and magnetic properties of nanographite ribbons. 1999 , 59, 8271-8282	1030
2028	Third-order optical nonlinearity of semiconductor carbon nanotubes: third harmonic generation. 1999 , 8, 1240-1245	34
2027	Variable range hopping conduction in bulk samples composed of single-walled carbon nanotubes. 1999 , 86, 999-1003	85
2026	Molecular simulation of hydrogen adsorption in single-walled carbon nanotubes and idealized carbon slit pores. 1999 , 110, 577-586	465
2025	Simulation of nanotubular forms of matter. 1999 , 68, 103-118	24
2024	Controlled Chemical Routes to Nanotube Architectures, Physics, and Devices. 1999 , 103, 11246-11255	182
2023	Interference-Modulated Conductance in a Three-Terminal Nanotube System. 1999 , 103, 8671-8674	21
2022	Symmetry Effects on the Conductance of Nanotube Junctions. 1999 , 103, 10378-10381	9
2021	Subband Population in a Single-Wall Carbon Nanotube Diode. 1999 , 83, 3274-3276	114
2020	Structures of Boron Nitride Nanotubes with Single-Layer and Multilayers Produced by Arc Discharge. 1999 , 38, 159-163	39
2019	Full symmetry, optical activity, and potentials of single-wall and multiwall nanotubes. 1999 , 60, 2728-2739	252

2018	Electron scattering by a large molecule: Application to (n,n) nanotubes. 1999 , 60, 2194-2199	15
2017	Broken symmetry and pseudogaps in ropes of carbon nanotubes. 1999 , 60, 7899-7904	63
2016	Electronic Excitations in Multiwalled Carbon Nanotubes. 1999 , 68, 3806-3809	
2015	STM investigation of single-wall carbon nanotubes at room temperature. 1999 ,	
2014	Plasmon excitations in carbon nanotubes. 1999 , 79, 1531-1548	26
2013	Fullerene und Nanoröhren: Materialien für das nächste Jahrhundert?. 1999 , 47, 768-776	2
2012	Electronic Structures of Single-Walled Carbon Nanotubes Studied by NMR. 1999 , 593, 143	1
2011	Formation of Nanotube-Based Quantum Dots With Strain and Addimers. 1999 , 593, 149	
2010	Electronic Properties of Potassium-Doped Carbon Nanotube Lattice. 1999 , 593, 161	1
2009	Resonance Raman Scattering of Multi-Walled Carbon Nanotubes. 1999 , 593, 113	12
2008	Coherent Transport through Carbon Nanotubes with Finite Length. 2000 , 41, 571-573	
2007	Deposition of Nanotubes and Nanotube Composites Using Matrix-Assisted Pulsed Laser Evaporation. 2000 , 617, 231	17
2006	Scanning Tunneling Microscopy and Spectroscopy of Short Multiwall Carbon Nanotubes. 2000 , 633, 14281	
2005	Magnetic impurity effects in metallic carbon nanotubes: local non-Fermi liquid theory. 2000 , 2, 9-9	3
2004	An instability condition for the Hartree-Fock solution of the infinite one-dimensional system with two-crossing bands. I. Singlet-instability check of metallic carbon nanotube. 2000 , 76, 574-582	
2003	Endohedral selenium chains in carbon, boron nitride, and BC ₂ N nanotubes. 2000 , 80, 480-485	3
2002	Diameter control of single-walled carbon nanotubes. 2000 , 38, 1691-1697	277
2001	Decoration of activated carbon nanotubes with copper and nickel. 2000 , 38, 363-372	254

2000	Field emission from carbon nanotubes and its application to electron sources. 2000 , 38, 169-182	570
1999	STM study of single-walled carbon nanotubes. 2000 , 38, 1741-1744	34
1998	Mass production of single-wall carbon nanotubes by the arc plasma jet method. 2000 , 323, 580-585	113
1997	Resonant Raman study of the structure and electronic properties of single-wall carbon nanotubes. 2000 , 316, 186-190	212
1996	Observation of magnetic-field-modulated energy gap in carbon nanotubes. 2000 , 115, 467-471	30
1995	Cyclacene tubes having silaannulenic peripheries AM1 treatment. 2000 , 61, 1041-1045	3
1994	The electrical behavior of carbon nanotubes under high pressure. 2000 , 61, 1175-1178	41
1993	Electric-field-induced optical second-harmonic generation and nonlinear optical rectification in semiconducting carbon nanotubes. 2000 , 183, 317-326	21
1992	A BR study of single-walled carbon nanotubes. 2000 , 289-290, 589-593	1
1991	Low-frequency electronic excitations in doped carbon nanotubes. 2000 , 292, 117-126	10
1990	Transport through crossed nanotubes. 2000 , 6, 868-871	31
1989	Carbon nanotube synthesized on metallic substrates. 2000 , 162-163, 452-456	62
1988	Fullerene nanotubes as transporting and focusing elements of nanoscale beam technology. 2000 , 128-129, 51-58	13
1987	Inhibitor of neurite outgrowth in humans. 2000 , 403, 383-4	507
1986	Creating the narrowest carbon nanotubes. 2000 , 403, 384	121
1985	Diffusion flame synthesis of single-walled carbon nanotubes. 2000 , 323, 217-223	128
1984	Production of zigzag-type BN nanotubes and BN cones by thermal annealing. 2000 , 324, 359-364	103
1983	Helical Diffraction From Tubular Structures. 2000 , 44, 407-412	6

1982	Structural investigations of single-wall carbon nanotubes grown from nanosized graphite. 2000 , 66, 270-273	2
1981	Electronic Excitations in Intercalated Carbon Nanotubes. 2000 , 69, 1538-1542	
1980	FROM CARBON NANOTUBES TO CARBON NANORODS. 2000 , 11, 1247-1255	14
1979	Electron Spin Resonance of K-Doped Single-Wall Carbon Nanohorns and Single-Wall Carbon Nanotubes. 2000 , 340, 749-756	13
1978	MOTT TRANSITION IN A HELIX-BASED COMPLEX. 2000 , 14, 1825-1842	8
1977	Local Non-Fermi Liquid Theory of Magnetic Impurity Effects in Metallic Carbon Nanotubes. 2000 , 69, 316-319	2
1976	Electronic energy state of a periodic porous nanoscale graphite. 2000 , 33, 3146-3151	14
1975	STS properties of defective metallic carbon nanotubes. 2000 , 12, 8617-8622	1
1974	Helicity energy of a straight single-wall carbon nanotube. 2000 , 61, 12693-12696	14
1973	Ab Initio Study of Carbon Nanotubes in Electric Fields. 2000 , 39, 268-271	16
1972	Border states in heterosheets with hexagonal symmetry. 2000 , 62, 9896-9899	64
1971	Pressure dependence of the optical absorption spectra of single-walled carbon nanotube films. 2000 , 62, 1643-1646	69
1970	Optical properties of well-aligned multiwalled carbon nanotube bundles. 2000 , 61, 14114-14118	52
1969	Identification of the conducting category of individual carbon nanotubes from Stokes and anti-Stokes Raman scattering. 2000 , 62, 5186-5190	27
1968	Magnetoresistance and differential conductance in multiwalled carbon nanotubes. 2000 , 61, R16362-R16365	28
1967	Zeeman effect on the electronic spectral properties of carbon nanotubes in an axial magnetic field. 2000 , 62, 13209-13215	36
1966	Local electronic properties of single-wall nanotube circuits measured by conducting-tip AFM. 2000 , 62, R2307-R2310	43
1965	The Physics of Fullerene-Based and Fullerene-Related Materials. 2000 ,	37

1964	Electronic structure of kinked multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2000 , 76, 3594-3596	54
1963	Electronic structure of carbon nanotube ropes. 2000 , 61, 11156-11165	133
1962	Okada, Saito, and Oshiyama Reply:. 2000 , 85, 5672-5672	2
1961	Intrinsic electrical properties of individual single-walled carbon nanotubes with small band gaps. 2000 , 84, 5604-7	178
1960	Formation energies of topological defects in carbon nanotubes. 2000 , 62, 12652-12655	59
1959	Solitons in carbon nanotubes. 2000 , 62, 2806-2812	89
1958	Spatially resolved scanning tunneling spectroscopy on single-walled carbon nanotubes. 2000 , 62, 5238-5244	106
1957	Condensation of helium in nanotube bundles. 2000 , 84, 3883-6	103
1956	Smoothest bearings: interlayer sliding in multiwalled carbon nanotubes. 2000 , 85, 4727-30	282
1955	Spin configurations of a carbon nanotube in a nonuniform external potential. 2000 , 85, 365-8	95
1954	Intertube coupling in ropes of single-wall carbon nanotubes. 2000 , 85, 5186-9	198
1953	Propriétés structurales des jonctions de nanotubes de carbone. 2000 , 77, 667-675	
1952	Nearly free electron states in carbon nanotube bundles. 2000 , 62, 7634-7638	75
1951	Helium mixtures in nanotube bundles. 2000 , 61, 7288-7290	10
1950	Loss spectra of graphite-related systems: A multiwall carbon nanotube, a single-wall carbon nanotube bundle, and graphite layers. 2000 , 62, 8508-8516	45
1949	Plastic deformations of boron-nitride nanotubes: An unexpected weakness. 2000 , 62, 11050-11053	41
1948	Electronic and structural properties of carbon nanohorns. 2000 , 62, R2291-R2294	79
1947	Resonance Raman Scattering of Br ₂ Doped Single-Walled Carbon Nanotube Bundles. 2000 , 340, 757-762	13

1946	Preparation of carbon nanotubes from CO and in situ formed nano-sized Pd particles. 2000 , 15, 1822-1827	7
1945	Carbon Nanotubes. 2000 , 331-379	113
1944	Structure and electronic properties of nitrogen-containing carbon nanotubes. 2000 , 113, 251-255	31
1943	Graphitization behavior of carbon nanofibers prepared by the floating catalyst method. 2000 , 43, 291-294	25
1942	Simulation of scanning tunneling spectroscopy of supported carbon nanotubes. 2000 , 62, 2797-2805	20
1941	Defects, quasibound states, and quantum conductance in metallic carbon nanotubes. 2000 , 84, 2917-20	482
1940	Dynamic conductance of carbon nanotubes. 2000 , 84, 2921-4	62
1939	Properties of composite BxCyNz nanotubes and related heterojunctions. 2000 , 17, 107-114	39
1938	Electronic properties of oxidized carbon nanotubes. 2000 , 85, 1710-3	368
1937	Fractional quantum conductance in carbon nanotubes. 2000 , 84, 1974-7	150
1936	Plasmon excitations in graphitic carbon spheres measured by EELS. 2000 , 61, 5751-5759	34
1935	Theoretical STM signatures and transport properties of native defects in carbon nanotubes. 2000 , 61, 14194-14203	92
1934	Reversible Oxidation Effect in Raman Scattering from Metallic Single-Wall Carbon Nanotubes. 2000 , 104, 10995-10999	68
1933	Electronic structures of single-walled carbon nanotubes determined by NMR. 2000 , 288, 492-4	181
1932	Strain energy and Young's modulus of single-wall carbon nanotubes calculated from electronic energy-band theory. 2000 , 62, 13692-13696	207
1931	Topological phases in graphitic cones. 2000 , 85, 5190-3	110
1930	Atomic structure and electronic state of boron nitride fullerenes and nanotubes. 2000 , 9, 625-628	35
1929	Electronic Structures and Optical Properties of Open and Capped Carbon Nanotubes. 2000 , 122, 11129-11137	61

1928	Structure and Electronic Properties of Carbon Nanotubes. 2000 , 104, 2794-2809	545
1927	Electronic Structure of Carbon and Boron-Carbon-Nitrogen Nanotubes. 2000 , 381-408	
1926	Methods for preparation of carbon nanotubes. 2000 , 69, 35-52	83
1925	Gapping by squashing: metal-insulator and insulator-metal transitions in collapsed carbon nanotubes. 2000 , 84, 2453-6	116
1924	Growth and defect formation of single-wall carbon nanotubes. 2000 , 61, 11088-11092	38
1923	Optical dichroism in nanotubes. 2000 , 62, 6971-6974	51
1922	Localized-Density-Matrix Method and Its Application to Carbon Nanotubes. 2000 , 104, 2445-2453	40
1921	Diameters of Single-Wall Carbon Nanotubes Depending on Helium Gas Pressure in an Arc Discharge. 2000 , 104, 2495-2499	35
1920	Electron Interference Effects on the Conductance of Doped Carbon Nanotubes. 2000 , 104, 9807-9811	37
1919	Flame Synthesis of Metal-Catalyzed Single-Wall Carbon Nanotubes. 2000 , 104, 7209-7217	34
1918	Theoretical Investigations of Carbon Nanotube Growth. 2000 , 25, 1-12	12
1917	Optical spectra of single-wall carbon nanotube bundles. 2000 , 62, 13153-13159	81
1916	Architectures for molecular electronic computers. I. Logic structures and an adder designed from molecular electronic diodes. 2000 , 88, 386-426	297
1915	Single-wall carbon nanotube diameter distributions calculated from experimental parameters. 2001 , 63,	38
1914	Introduction to Carbon Materials Research. 2001 , 1-9	97
1913	Scanning Probe Microscopy Studies of Carbon Nanotubes. 2001 , 173-211	27
1912	Electronic Properties, Junctions, and Defects of Carbon Nanotubes. 2001 , 113-145	136
1911	Self-orientation of short single-walled carbon nanotubes deposited on graphite. <i>Applied Physics Letters</i> , 2001 , 78, 1355-1357	3.4 29

1910	The Formation of a Connection between Carbon Nanotubes in an Electron Beam. 2001 , 1, 329-332		182
1909	Carbon nanotubes as electron source in an x-ray tube. <i>Applied Physics Letters</i> , 2001 , 78, 2578-2580	3-4	340
1908	Band structures of carbon nanotubes: the sp ^{3s} * tight-binding model. 2001 , 13, L271-L275		23
1907	Arc plasma jet method producing single-wall carbon nanotubes. 2001 , 10, 1185-1189		18
1906	Electronic structure of radially deformed BN and BC ₃ nanotubes. 2001 , 63,		142
1905	Electron diffraction study of small bundles of single-wall carbon nanotubes with unique helicity. 2001 , 64,		31
1904	Semiconducting form of the first-row elements: C ₆₀ chain encapsulated in BN nanotubes. 2001 , 64,		35
1903	Band gaps of primary metallic carbon nanotubes. 2001 , 63,		106
1902	Grapevine-like growth of single walled carbon nanotubes among vertically aligned multiwalled nanotube arrays. <i>Applied Physics Letters</i> , 2001 , 79, 1252-1254	3-4	36
1901	Structural (n, m) determination of isolated single-wall carbon nanotubes by resonant Raman scattering. 2001 , 86, 1118-21		1247
1900	Chirality-dependent G-band Raman intensity of carbon nanotubes. 2001 , 64,		110
1899	Energetics and electronic structures of encapsulated C ₆₀ in a carbon nanotube. 2001 , 86, 3835-8		359
1898	Raman scattering study of electrochemically doped single wall nanotubes. 2001 , 116, 411-414		33
1897	Differential thermopower of a CNT chiral carbon nanotube. 2001 , 13, 5653-5662		20
1896	Electronic States in Capped Carbon Nanotubes. 2001 , 70, 1327-1341		18
1895	Structural deformation and intertube conductance of crossed carbon nanotube junctions. 2001 , 86, 688-91		96
1894	Optical third-harmonic generation from an array of aligned carbon nanotubes with randomly distributed diameters. 2001 , 10, 27-32		10
1893	Photoconductivity in Semiconducting Single-Walled Carbon Nanotubes. 2001 , 40, L1229-L1231		99

1892	Nonlinear optical properties of fullerenes and carbon nanotubes. 2001 , 267-307	4
1891	Conductance of Carbon Nanotubes with a Stone-Wales Defect. 2001 , 70, 2657-2665	46
1890	Optical Properties and Raman Spectroscopy of Carbon Nanotubes. 2001 , 213-247	43
1889	Rayleigh and Raman Scattering from Individual Carbon Nanotube Bundles. 2001 , 105, 1123-1134	112
1888	Optical properties of single-walled 4 Å carbon nanotubes. 2001 , 123, 9830-6	50
1887	Modeling of the electron field emission from carbon nanotubes. 2001 , 19, 1016	43
1886	Electronic transport properties of nanographite ribbon junctions. 2001 , 64,	240
1885	Ab initio study of hydrogen adsorption to single-walled carbon nanotubes. 2001 , 63,	148
1884	STM/STS on carbon nanotubes at low temperature. 2001 ,	
1883	Ab Initio Study of Si Doped Carbon Nanotubes: Electronic and Structural Properties. 2001 , 675, 1	
1882	Nano-Cylinder Structure Studied by X-ray Diffraction. 2001 , 703, 1	
1881	Self-Energy corrections to DFT-LDA Gaps of Realistic Carbon Nanotubes. 2001 , 703, 1	1
1880	Open Edge Growth Mechanisms of Single Wall Carbon Nanotubes. 2001 , 70, 1995-2011	11
1879	Conductance of Carbon Nanotube Junctions in Magnetic Fields. 2001 , 70, 2401-2408	7
1878	Micro-Raman spectroscopy of isolated single wall carbon nanotube. 2001 ,	
1877	Nature of near-infrared absorption in single-wall carbon nanotubes. 2001 , 281, 52-58	12
1876	Field emission from carbon nanotubes: the first five years. 2001 , 45, 893-914	497
1875	Formation and Raman spectroscopy of single wall carbon nanotubes synthesized by CO ₂ continuous laser vaporization. 2001 , 62, 2007-2010	15

1874	Magnetotransport of carbon nanotubes: magnetic-field-induced metal-insulator transition. 2001 , 298, 541-545	10
1873	The structure relaxation of carbon nanotube. 2001 , 304, 86-90	7
1872	Carbon nanotube composites synthesized by ion-assisted pulsed laser deposition. 2001 , 79, 123-127	6
1871	Electronic structure of collapsed C, BN, and BC ₃ nanotubes. 2001 , 1, 39-44	21
1870	Far-infrared to visible optical conductivity of single-wall carbon nanotubes. 2001 , 1, 45-49	24
1869	Nanotubes, Nanoscience, and Nanotechnology. 2001 , 15, 1-11	69
1868	Nanotubes. 2001 , 2, 78-105	535
1867	Electrocatalytic oxidation of 3,4-dihydroxyphenylacetic acid at a glassy carbon electrode modified with single-wall carbon nanotubes. 2001 , 47, 651-657	111
1866	Curious aligned growth of carbon nanotubes under applied electric field. 2001 , 39, 201-206	30
1865	Theoretical study of nanotube growth in terms of frontier density distribution. 2001 , 333, 29-35	11
1864	Dielectric function of single-wall carbon nanotubes. 2001 , 341, 16-22	15
1863	Lithium intercalation into the shell of 'cylindrical hard deposit'. 2001 , 343, 225-228	9
1862	Thin boron nitride nanotubes with unusual large inner diameters. 2001 , 350, 434-440	28
1861	Crystallization behavior of the amorphous carbon nanotubes prepared by the CVD method. 2001 , 233, 823-828	93
1860	Quantum effects in electrical and thermal transport through nanowires. 2001 , 13, R537-R568	56
1859	Electronic and structural properties of silicon-doped carbon nanotubes. 2001 , 64,	98
1858	Physical Properties of Multi-wall Nanotubes. 2001 , 329-391	31
1857	Optimal helicity of single-walled carbon nanotube. 2001 , 285, 207-211	44

1856	Two kinds of metallic states in carbon nanotubes Differences in transport properties. 2001 , 62, 413-417	1
1855	Carbon nanotube dendrites: availability and their growth model. 2001 , 36, 2519-2523	8
1854	Generation of circular and hexagonal microholes in a graphite surface. 2001 , 16, 1287-1292	6
1853	Theoretical modelling of nonlinear refraction and two-photon absorption in single-wall carbon nanotube bundles. 2001 , 3, 267-275	15
1852	Oscillator Strength of Metallic Carbon Nanotubes. 2001 , 70, 17-20	
1851	Ab initio Molecular Dynamics Study on Small Carbon Nanotubes. 2001 , 18, 1496-1499	26
1850	Pressure and Orientation Effects on the Electronic Structure of Carbon Nanotube Bundles. 2001 , 70, 2345-2352	16
1849	Strain-induced electronic property heterogeneity of a carbon nanotube. 2001 , 64,	44
1848	Collision of hydrogen atom with single-walled carbon nanotube: Adsorption, insertion, and healing. 2001 , 115, 8152-8156	30
1847	Tunneling between Luttinger liquids. 2001 , 63,	1
1846	Growth of (110) diamond using pure dicarbon. 2001 , 63,	22
1845	Electronic structure at carbon nanotube tips studied by photoemission spectroscopy. 2001 , 63,	50
1844	¹³ C NMR evidence for dynamics of nanotubes in ropes. 2001 , 63,	44
1843	Electronic interwall interactions and charge redistribution in multiwall nanotubes. 2001 , 65,	89
1842	Direct observation of graphite layer edge states by scanning tunneling microscopy. 2001 , 114, 1807-1812	63
1841	Controlled creation of a carbon nanotube diode by a scanned gate. <i>Applied Physics Letters</i> , 2001 , 79, 3326-3328	3-4 124
1840	Diameter control of single-walled carbon nanotubes using argonHelium mixture gases. 2001 , 115, 6752-6759	72
1839	Smallest nanotube: breaking the symmetry of sp(3) bonds in tubular geometries. 2001 , 87, 125502	89

1838	Far-Infrared gaps in single-wall carbon nanotubes. 2001 , 249, 145-154		4
1837	Coulomb interactions in carbon nanotubes. 2001 , 63,		35
1836	Electron Spectroscopy Studies of Carbon Nanotubes. 2001 , 247-272		7
1835	Collective oscillations in a single-wall carbon nanotube excited by fast electrons. 2001 , 64,		55
1834	Nanotube Electron Drag in Flowing Liquids. 2001 , 86, 131-134		192
1833	Which nanowire couples better electrically to a metal contact: Armchair or zigzag nanotube?. <i>Applied Physics Letters</i> , 2001 , 78, 2055-2057	3-4	32
1832	Universal expression for localization length in metallic carbon nanotubes. 2001 , 64,		38
1831	Low-temperature resistance of individual single-walled carbon nanotubes: A theoretical estimation. <i>Applied Physics Letters</i> , 2001 , 79, 3515-3517	3-4	43
1830	Fermi electron wave packet interference images on carbon nanotubes at room temperature. <i>Applied Physics Letters</i> , 2001 , 78, 808-810	3-4	20
1829	Zero-bias anomaly in disordered wires. 2001 , 87, 246801		48
1828	Helium in one-dimensional nanopores: free dispersion, localization, and commensurate/incommensurate transitions with nonrigid orbitals. 2001 , 86, 3360-3		35
1827	Vacuum structure of toroidal carbon nanotubes. 2002 , 65,		7
1826	Electronic structure and interband transitions of metallic carbon nanotubes. <i>Applied Physics Letters</i> , 2002 , 81, 5228-5230	3-4	25
1825	Charge screening effect in metallic carbon nanotubes. 2002 , 65,		18
1824	Bend-induced insulating gap in carbon nanotubes. 2002 , 66,		20
1823	Microscopic model of superconductivity in carbon nanotubes. 2002 , 88, 076403		59
1822	Quantum conductance of multiwall carbon nanotubes. 2002 , 66,		76
1821	Electronic structure of potassium-doped carbon nanotubes. 2002 , 65,		64

1820	Quantum interference induced by nonmagnetic impurities in a single-walled carbon nanotube. 2002 , 66,	10
1819	Symmetry effect on the conductance of two-defect carbon nanotubes. 2002 , 65,	19
1818	Dielectric response of semiconducting carbon nanotubes. <i>Applied Physics Letters</i> , 2002 , 81, 4835-4837 3.4	53
1817	Luttinger parameter g for metallic carbon nanotubes and related systems. 2002 , 66,	13
1816	Exohedral and endohedral adsorption of nitrogen on the sidewall of single-walled carbon nanotubes. 2002 , 66,	43
1815	Coulomb effects on the fundamental optical transition in semiconducting single-walled carbon nanotubes: Divergent behavior in the small-diameter limit. 2002 , 65,	83
1814	Effects of gamma radiation on poly(methyl methacrylate)/single-wall nanotube composites. 2002 , 17, 2507-2513	64
1813	Electron scattering in multiwall carbon nanotubes. 2002 , 66,	10
1812	Theory of scanning tunneling spectroscopy of fullerene peapods. 2002 , 66,	28
1811	Electronic and Optical Properties of Narrow-Gap Carbon Nanotubes. 2002 , 71, 1820-1823	34
1810	Stability of single-wall carbon nanotubes under hydrothermal conditions. 2002 , 17, 734-737	15
1809	Electronic and Mechanical Properties of Carbon Nanotubes. 2002 , 297-320	7
1808	A Top-Gate Carbon-Nanotube Field-Effect Transistor with a Titanium-Dioxide Insulator. 2002 , 41, L1049-L1051	28
1807	Geometric and Electronic Structure of New Carbon-Network Materials: Nanotube Array on Graphite Sheet. 2002 , 71, 2765-2770	37
1806	Geometries, Electronic Properties, and Energetics of Isolated Single Walled Carbon Nanotubes. 2002 , 71, 483-486	67
1805	Giant magneto-conductance in twisted carbon nanotubes. 2002 , 59, 75-80	11
1804	Tomonaga-Luttinger-Liquid Theory of Metallic Carbon Nanotubes with Open Boundaries. 2002 , 71, 2512-2519	10
1803	Photoconductivity and Local Transport Properties of Single-Wall Carbon Nanotubes. 2002 ,	2

1802	Controllable Growth, Structure, and Low Field Emission of Well-Aligned CNx Nanotubes. 2002 , 106, 2186-2190	156
1801	Interwall interaction and electronic structure of double-walled BN nanotubes. 2002 , 65,	72
1800	Scanning tunneling microscopy studies of the one-dimensional electronic properties of single-walled carbon nanotubes. 2002 , 53, 201-20	49
1799	A Novel Route to Multiwalled Carbon Nanotubes and Carbon Nanorods at Low Temperature. 2002 , 106, 933-937	78
1798	Synthesis of nearly uniform single-walled carbon nanotubes using identical metal-containing molecular nanoclusters as catalysts. 2002 , 124, 13688-9	166
1797	Mapping the one-dimensional electronic States of nanotube peapod structures. 2002 , 295, 828-31	337
1796	Synthesis of Ultralong and High Percentage of Semiconducting Single-walled Carbon Nanotubes. 2002 , 2, 703-708	170
1795	Enhanced Electron Field Emission in B-doped Carbon Nanotubes. 2002 , 2, 1191-1195	125
1794	Defects in carbon nanotubes. 2002 , 35, 1063-9	586
1793	Diameter-selective resonant Raman scattering in double-wall carbon nanotubes. 2002 , 66,	129
1792	Large Deformation Atomistic-Based Continuum Analysis of Carbon Nanotubes. 2002 ,	4
1791	Fundamental electronic properties and applications of single-walled carbon nanotubes. 2002 , 35, 1018-25	450
1790	Chemistry Inside Carbon Nanotubes: the Menshutkin SN2 Reaction. 2002 , 106, 1921-1925	119
1789	Electronic structure of the carbon nanotube tips studied by x-ray-absorption spectroscopy and scanning photoelectron microscopy. <i>Applied Physics Letters</i> , 2002 , 81, 4189-4191	3-4 52
1788	Single-walled carbon nanotube electronics. 2002 , 1, 78-85	828
1787	Computational designing of graphitic silicon carbide and its tubular forms. <i>Applied Physics Letters</i> , 2002 , 80, 586-588	3-4 139
1786	STM studies of single-walled carbon nanotubes. 2002 , 14, R145-R167	34
1785	Carbon nanotubes and their emission properties. 2002 , 172, 401	99

1784	Preparation and preliminary property study of carbon nanotubes films by electrophoretic deposition. 2002 , 57, 434-438	87
1783	Electronic Properties of Single-Walled Carbon Nanotubes. 2002 , 71, 1339-1345	15
1782	Electric polarization of heteropolar nanotubes as a geometric phase. 2002 , 88, 056803	216
1781	Characterization of Single-Walled Carbon Nanotubes (SWNTs) Produced by CO Disproportionation on CoMo Catalysts. 2002 , 14, 1853-1858	152
1780	Quantum Transport in Inhomogeneous Multi-Wall Nanotubes. 2002 , 333-347	
1779	Electronic properties of open-ended single wall carbon nanotubes. 2002 , 577, 131-135	9
1778	Nanotube-like structures naturally formed on HOPG surface. 2002 , 48, 237-240	4
1777	Raman spectroscopy on one isolated carbon nanotube. 2002 , 323, 15-20	61
1776	Prediction of electronic properties of carbon-based nanostructures. 2002 , 323, 21-29	18
1775	Electronic structure of potassium-doped carbon nanotubes. 2002 , 323, 219-221	4
1774	Tunneling spectroscopy on carbon nanotubes using STM. 2002 , 323, 230-232	14
1773	Electronic and geometric structures of metallofullerene peapods. 2002 , 323, 97-99	24
1772	Electrocatalytic oxidation of nitric oxide at multi-walled carbon nanotubes modified electrode. 2002 , 4, 690-694	209
1771	Ballistic conductance in quantum devices: from organic polymers to nanotubes. 2002 , 2, 47-49	8
1770	Chiral anomaly in toroidal carbon nanotubes. 2002 , 296, 237-242	3
1769	Localization length in deformed metallic carbon nanotubes. 2002 , 302, 125-130	7
1768	Electronic properties of bromine-doped carbon nanotubes. 2002 , 123, 495-499	38
1767	Growth-temperature induced metal-insulator transition in bamboo-shaped multiwalled carbon nanotubes. 2002 , 124, 147-150	10

1766	An atomistic-based finite deformation membrane for single layer crystalline films. 2002 , 50, 1941-1977	279
1765	O(N) parallel tight binding molecular dynamics simulation of carbon nanotubes. 2002 , 148, 188-205	10
1764	Investigation of the electrocatalytic behavior of single-wall carbon nanotube films on an Au electrode. 2002 , 73, 325-333	61
1763	Structure of carbon nanotubes probed by local and global probes. 2002 , 40, 1635-1648	54
1762	Preparation of monodispersed multi-walled carbon nanotubes in chemical vapor deposition. 2002 , 356, 563-566	12
1761	Structures of hydrogen molecules in single-walled carbon nanotubes. 2002 , 357, 97-102	22
1760	Catalytic growth of single-walled carbon nanotubes with a narrow distribution of diameters over Fe nanoparticles prepared in situ by the reduction of LaFeO ₃ . 2002 , 357, 297-300	37
1759	Direct trajectory simulation on the growth of carbon nanotubes. 2002 , 360, 149-154	2
1758	The electronic structure and its theoretical simulation of carbon nanotube with finite length. Part II: the energy gap and its oscillation properties of short armchair nanotubes. 2002 , 364, 338-344	21
1757	The electronic structure and its theoretical simulation of carbon nanotube with finited length. Part I: the frontier orbitals and its properties of short armchair nanotubes. 2002 , 364, 328-337	23
1756	The photoconductivity of PVK-carbon nanotube blends. 2002 , 364, 196-199	47
1755	Silicon nanotubes: Why not?. 2002 , 364, 251-258	135
1754	Selective synthesis of zigzag-type aligned carbon nanotubes on SiC (0 0 0 $\bar{1}$) wafers. 2002 , 366, 458-462	73
1753	Near-edge X-ray absorption fine structure study of helicity and defects in carbon nanotubes. 2002 , 366, 636-641	54
1752	Phonons and electron-phonon scattering in carbon nanotubes. 2002 , 65,	585
1751	Detailed analysis of the mean diameter and diameter distribution of single-wall carbon nanotubes from their optical response. 2002 , 66,	155
1750	Electronic structures and energetics of [5,5] and [9,0] single-walled carbon nanotubes. 2002 , 124, 8485-9	92
1749	Direct electrochemistry of cytochrome c at a glassy carbon electrode modified with single-wall carbon nanotubes. 2002 , 74, 1993-7	684

1748	Selection rules and superconducting correlations in carbon nanotubes. 2003 , 36, 317-326	5
1747	Continuum Mechanics Simulation of Post-buckling of Single-Walled Nanotubes. 2003 , 4,	5
1746	A low-cost Raman spectrometer design used to study Raman scattering from a single-walled carbon nanotube. 2003 , 115, 689-694	4
1745	High-purity single-wall carbon nanotubes synthesized from coal by arc discharge. 2003 , 41, 2170-2173	67
1744	Observations of novel carbon nanotubes with multiple hollow cores. 2003 , 41, 2477-2480	8
1743	Electronic properties of double-walled carbon nanotube films. 2003 , 41, 2495-2500	29
1742	Theoretical prediction on aluminum nitride nanotubes. 2003 , 371, 426-432	136
1741	Detection of an individual single-wall carbon nanotube by tip-enhanced near-field Raman spectroscopy. 2003 , 376, 174-180	190
1740	In situ TPO/Raman to characterize single-walled carbon nanotubes. 2003 , 376, 302-309	68
1739	Substrate effects on the growth of carbon nanotubes by thermal decomposition of methane. 2003 , 376, 717-725	73
1738	Doing chemistry on low-dimensional silicon surfaces: silicon nanowires as platforms and templates. 2003 , 246, 229-246	12
1737	A major milestone in nanoscale material science: the 2002 Benjamin Franklin Medal in Physics presented to Sumio Iijima. 2003 , 340, 221-242	6
1736	Structural and electronic properties of Benzorods \square 2003 , 639, 157-166	10
1735	Electronic structure of C60-encapsulating semiconducting carbon nanotube. 2003 , 125, 201-204	28
1734	Atomic force microscopy of bamboo-shaped multiwalled carbon nanotube structures. 2003 , 127, 29-32	10
1733	Tomonaga-Luttinger-liquid behavior in single-walled carbon nanotube networks. 2003 , 127, 215-218	19
1732	A finite deformation membrane based on inter-atomic potentials for the transverse mechanics of nanotubes. 2003 , 35, 193-215	48
1731	Annealing amorphous carbon nanotubes for their application in hydrogen storage. 2003 , 205, 39-43	68

1730	Novel magnetoplasmons in armchair carbon nanotubes. 2003 , 311, 53-59	4
1729	Nanomachines based on carbon nanotubes. 2003 , 313, 112-121	84
1728	Electronic structure of carbon nanotubes. 2003 , 4, 1009-1019	20
1727	Sensitivity to NO ₂ and cross-sensitivity analysis to NH ₃ , ethanol and humidity of carbon nanotubes thin film prepared by PECVD. 2003 , 95, 195-202	118
1726	Classification of two-shell nanotubes with commensurate structures of shells. 2003 , 45, 1396-1402	7
1725	Electronic and transport properties of a carbon-atom chain in the core of semiconducting carbon nanotubes. 2003 , 316, 101-106	25
1724	Effect of catalyst layer thickness and Ar dilution on the plasma deposition of multi-walled carbon nanotubes. 2003 , 12, 821-826	11
1723	Structure determination of individual single-wall carbon nanotubes by nanoarea electron diffraction. <i>Applied Physics Letters</i> , 2003 , 82, 2703-2705	3-4 125
1722	Variational approach to excitons in carbon nanotubes. 2003 , 67,	158
1721	Tuning chirality of single-wall carbon nanotubes by selective etching with carbon dioxide. 2003 , 125, 13946-7	15
1720	Structure and Energetics of Single-Walled Armchair and Zigzag Silicon Nanotubes. 2003 , 107, 7577-7581	79
1719	Helical gold nanotube synthesized at 150 K. 2003 , 91, 205503	202
1718	DC and AC Conductivity of Carbon Nanotubes/Polyepoxy Composites. 2003 , 36, 5187-5194	515
1717	Electrical transport properties of conjugated polymer onto self-assembled aligned carbon nanotubes. 2003 , 12, 1524-1531	9
1716	Selective thiolation of single-walled carbon nanotubes. 2003 , 139, 521-527	73
1715	Tribological properties of NiB-multi-walled carbon nanotubes electroless composite coating. 2003 , 57, 1256-1260	73
1714	Large N effects and renormalization of the long-range Coulomb interaction in carbon nanotubes. 2003 , 663, 605-621	13
1713	Local Softness versus Local Density of States as Reactivity Index. 2003 , 107, 6837-6842	26

1712	Ultrafast carrier dynamics in single-wall carbon nanotubes. 2003 , 90, 057404	288
1711	Curvature-induced metallization of double-walled semiconducting zigzag carbon nanotubes. 2003 , 91, 216801	65
1710	Nanosignal Processing: Stochastic Resonance in Carbon Nanotubes That Detect Subthreshold Signals. 2003 , 3, 1683-1686	48
1709	Nanotechnology at Present and its Promise for the Future. 2003 , 414-415, 85-94	14
1708	Theoretical analysis of external diameter distributions of carbon nanotubes by CVD. 2003 , 12, 1862-1866	5
1707	Specific heat of single-walled carbon nanotubes. 2003 , 68,	46
1706	Science and Technology of the Twenty-First Century: Synthesis, Properties, and Applications of Carbon Nanotubes. 2003 , 33, 419-501	773
1705	Magnetism in all-carbon nanostructures with negative Gaussian curvature. 2003 , 91, 237204	176
1704	Raman spectroscopy for probing chemically/physically induced phenomena in carbon nanotubes. 2003 , 14, 1130-1139	131
1703	Ideal tensile strength and band gap of single-walled carbon nanotubes. 2003 , 68,	159
1702	Quantum interference in carbon-nanotube electron resonators. 2003 , 91, 056802	49
1701	Growth and Properties of Single-Walled Carbon Nanotubes. 2003 , 1219-1250	
1700	Tungsten-rich deposits at anode using carbon nanotube emitters.	
1699	Selective Growth of Carbon Nanotubes on Prepatterned Amorphous Silicon Thin Films by Electroless Plating Ni. 2003 , 150, C631	4
1698	Zeeman splitting of zero-bias anomaly in Luttinger liquids. 2003 , 91, 046801	4
1697	Insulating, superconducting, and large-compressibility phases in nanotube ropes. 2003 , 91, 076401	16
1696	Quasiparticle band structure of carbon nanotubes. 2003 , 68,	90
1695	Correlation effects of carbon nanotubes at boundaries: Spin polarization induced by zero-energy boundary states. 2003 , 67,	8

1694	Magneto-electronic excitations in single-walled carbon nanotubes. 2003 , 67,	27
1693	Magneto-electronic and optical properties of carbon nanotubes. 2003 , 67,	76
1692	Metallic and semiconducting narrow carbon nanotubes. 2003 , 67,	127
1691	Quantum conductance of carbon nanotube peapods. <i>Applied Physics Letters</i> , 2003 , 83, 5217-5219	3.4 21
1690	Endohedral motions inside capped single-walled carbon nanotubes. 2003 , 118, 4456-4462	7
1689	Specific heats of dilute neon inside a long single-walled carbon nanotube. 2003 , 15, 6759-6771	4
1688	Superconductivity in carbon nanotube ropes. 2003 , 67,	29
1687	Ratio problem in single carbon nanotube fluorescence spectroscopy. 2003 , 90, 207401	184
1686	Electron-state control of carbon nanotubes by space and encapsulated fullerenes. 2003 , 67,	100
1685	Contrasting bonding behavior of thiol molecules on carbon fullerene structures. 2003 , 68,	4
1684	Electromechanical effects in carbon nanotubes: Ab initio and analytical tight-binding calculations. 2003 , 67,	63
1683	First-principles calculations for nitrogen-containing single-walled carbon nanotubes. 2003 , 94, 2398-2402	88
1682	Chirality-dependent absorption and third-order polarizability spectra in open single-wall carbon nanotubes. 2003 , 68,	15
1681	Dimensional crossover of dilute neon inside infinitely long single-walled carbon nanotubes viewed from specific heats. 2003 , 68,	5
1680	Bright band gap photoluminescence from unprocessed single-walled carbon nanotubes. 2003 , 90, 217401	259
1679	Electronic properties of intercalated single-wall carbon nanotubes and C60peapods. 2003 , 5, 156-156	39
1678	Single-Walled Carbon Nanotubes for Nanoelectronics. 2003 , 293-343	2
1677	Quasi-One-Dimensional Solid Lattice and Liquid hydrogen in Single-Walled carbon Nanotubes. 2003 , 20, 550-553	

1676	A transport approach to the superconducting proximity effect in carbon nanotubes. 2003 , 15, S2473-S2488	5
1675	Ab initio study of small diameter (6, 6) armchair carbon nanoropes: orientational dependent properties. 2003 , 15, 6931-6942	12
1674	Temperature Dependence of Photoconductivity of Single-Wall Carbon Nanotubes. 2003 ,	2
1673	Electronic States of BCN Alloy Nanotubes in a Simple Tight-Binding Model. 2003 , 72, 2656-2664	42
1672	Influence of the electronic structure on the field electron emission from carbon nanotubes. 2003 , 21, 382	8
1671	Spin Excitation in Nano-Graphite Ribbons with Zigzag Edges. 2003 , 72, 2145-2148	18
1670	Review of Polymer Composites with Carbon Nanotubes. 2003 ,	
1669	Magneto Energy Gap of a Single-Walled Carbon Nanotube. 2003 , 72, 454-455	10
1668	Fullerenes. 2003 ,	
1667	The Effects of Catalyst Grain Sizes on the Diameter of MPECVD Grown Patterned Carbon Nanotubes. 2003 , 772, 351	
1666	Hybrid Orbital Control in Carbon Alloys. 2003 , 15-40	
1665	Geometric construction of carbon nanotube junctions. 2004 , 12, 1251-1266	26
1664	Observing 2-channel Kondo physics in a carbon nanotube single-electron transistor. 2004 , 16, 749-755	5
1663	Nanotube-substrate interactions: distinguishing carbon nanotubes by the helical angle. 2004 , 92, 085503	34
1662	Microwave response of individual multiwall carbon nanotubes. 2004 , 70,	16
1661	Phase diagram of carbon nanotube ropes. 2004 , 70,	8
1660	Stability differences and conversion mechanism between nanotubes and scrolls. 2004 , 69,	21
1659	Nature of single vacancy in achiral carbon nanotubes. 2004 , 92, 105504	168

1658	Coulomb drag effect between Luttinger liquids. 2004 , 69,		16
1657	Structural and electronic properties of the metal-metal intramolecular junctions of single-walled carbon nanotubes. 2004 , 69,		18
1656	Impurity effects on resonant Andreev reflection in a finite-sized carbon nanotube system. 2004 , 70,		17
1655	Effect of uniaxial strain deformation upon the Raman radial breathing modes of single-wall carbon nanotubes in composites. 2004 , 69,		68
1654	h/e magnetic flux modulation of the energy gap in nanotube quantum dots. 2004 , 304, 1132-4		117
1653	Ab initio study of 4-armchair carbon nanoropes: Orientation-dependent properties. 2004 , 70,		15
1652	Linear optical properties of deformed carbon nanotubes. 2004 , 70,		16
1651	Chirality selection of single-walled carbon nanotubes by laser resonance chirality selection method. <i>Applied Physics Letters</i> , 2004 , 85, 858-860	3-4	66
1650	Effective masses of charge carriers in selected symmorphic and nonsymmorphic carbon nanotubes. 2004 , 69,		28
1649	Correlation of thermal stability with structural properties of ultrathin single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2004 , 84, 1677-1679	3-4	4
1648	Cold wall chemical vapor deposition of single walled carbon nanotubes. 2004 , 22, 747		12
1647	Ground-Based Space Radiation Effects Studies on Single-Walled Carbon Nanotube Materials. 2004 , 851, 380		5
1646	Chapter 8 Near-field nano-Raman spectroscopy for molecular analysis and imaging. 2004 , 1, 121-138		1
1645	Carbon Nanotubes. 2004 , 137-182		2
1644	Purification and Separation of Carbon Nanotubes. 2004 , 29, 252-259		141
1643	Properties and applications of high-mobility semiconducting nanotubes. 2004 , 16, R553-R580		104
1642	Microstructure of metal-filled carbon nanotubes. 2004 , 53, 149-55		18
1641	Electronic properties of peapods: effects of fullerene rotation and different types of tube. 2004 , 16, 1401-1408		19

1640	ENERGY GAP OF THE "METALLIC" SINGLE-WALLED CARBON NANOTUBES. 2004 , 18, 769-774	11
1639	Nanoscale Materials. 2004 ,	32
1638	Electron Lifetime in Armchair Carbon Nanotubes. 2004 , 73, 2936-2939	5
1637	Synthesis and correlation study on the morphology and Raman spectra of CN _x nanotubes by thermal decomposition of ferrocene/ethylenediamine. 2004 , 13, 69-73	34
1636	Preparation of copper nanoparticles on carbon nanotubes by electroless plating method. 2004 , 39, 1499-1505	71
1635	Ultrafast fiber pulsed lasers incorporating carbon nanotubes. 2004 , 10, 137-146	273
1634	Effects of topological defects in the semiconductor carbon nanotube intramolecular junctions. 2004 , 37, 473-478	4
1633	Electronic structure in finite-length deformed metallic carbon nanotubes. 2004 , 42, 503-508	7
1632	Theoretical study of the single-walled gold (5,3) nanotube. <i>Applied Physics Letters</i> , 2004 , 85, 2923-2925	3.4 32
1631	Excitonic effects and optical spectra of single-walled carbon nanotubes. 2004 , 92, 077402	805
1630	Band structure and transport properties of carbon nanotubes using a local pseudopotential and a transfer-matrix technique. 2004 , 42, 2057-2066	29
1629	A first-principles study of lithium absorption in boron- or nitrogen-doped single-walled carbon nanotubes. 2004 , 42, 2677-2682	104
1628	Magneto-electronic states of carbon toroids. 2004 , 42, 2879-2885	15
1627	Energy band structure effect of individual single-walled carbon nanotubes on field emission characteristics. 2004 , 344, 243-248	10
1626	Transport properties of C ₇₈ , C ₉₀ and Dy@C ₈₂ fullerenes-nanopeapods by field effect transistors. 2004 , 21, 1089-1092	52
1625	Elimination of metal catalyst and carbon-like impurities from single-wall carbon nanotube raw material. 2004 , 78, 311-314	23
1624	Optical absorption of graphite and single-wall carbon nanotubes. 2004 , 78, 1099-1105	43
1623	Photoluminescence from single-walled carbon nanotubes: a comparison between suspended and micelle-encapsulated nanotubes. 2004 , 78, 1107-1110	127

1622	Quasiparticle energies, excitonic effects and optical absorption spectra of small-diameter single-walled carbon nanotubes. 2004 , 78, 1129-1136	126
1621	Applications of graphic method to C20, C60, and achiral single-wall nanotubes. 2004 , 98, 51-58	1
1620	Linear Assemblies of Silica-Coated Gold Nanoparticles Using Carbon Nanotubes as Templates. 2004 , 16, 2179-2184	161
1619	Finite element methods for the non-linear mechanics of crystalline sheets and nanotubes. 2004 , 59, 419-456	120
1618	Low-temperature thermal conductance of carbon nanotubes. 2004 , 464-465, 350-353	5
1617	Transport properties of carbon nanotubes encapsulating fullerenes. 2004 , 464-465, 342-345	4
1616	A model dielectric response function for metallic nanotube ropes. 2004 , 132, 683-688	1
1615	Field emission of vertically-aligned carbon nanotube arrays grown on porous silicon substrate. 2004 , 48, 2147-2151	22
1614	Application of multi-walled carbon nanotubes functionalized with hemin for oxygen detection in neutral solution. 2004 , 562, 241-246	104
1613	Bandgap photoluminescence of semiconducting single-wall carbon nanotubes. 2004 , 21, 1057-1060	26
1612	Effective-mass approach to interaction effects on electronic structure in carbon nanotubes. 2004 , 22, 704-707	19
1611	Quadratic electro-optic effects and electro-absorption process in semiconductor carbon nanotubes. 2004 , 25, 23-28	6
1610	Does tubular structure of carbon form only from graphine sheet?. 2004 , 25, 69-77	9
1609	Optical properties of the semiconductor carbon nanotube intramolecular junctions. 2004 , 323, 122-131	19
1608	Electronic and transport properties of radially deformed zigzag single-walled carbon nanotubes. 2004 , 325, 149-155	7
1607	Antiresonance effect due to Stone-Wales defect in carbon nanotubes. 2004 , 325, 287-293	10
1606	Photon-assisted mesoscopic transport through a toroidal carbon nanotube coupled to normal metal leads. 2004 , 325, 407-414	4
1605	Band gap variations in an AFM tip-deformed metallic carbon nanotube. 2004 , 331, 99-104	11

1604	Influence of an impurity on a superconductor/carbon nanotube/superconductor system. 2004 , 331, 231-237	2
1603	A continuum model for calculating the phonon density of states of single-walled carbon nanotubes. 2004 , 344, 66-72	9
1602	Magnetic properties of nanotube structures. 2004 , 354, 290-292	9
1601	Double-wall nanotubes: classification and barriers to walls relative rotation, sliding and screwlike motion. 2004 , 385, 72-78	87
1600	A theoretical study on the geometrical features of finite-length carbon nanotubes capped with fullerene hemisphere. 2004 , 386, 38-43	51
1599	Organized networks of helically wound single-walled C-nanotubes. 2004 , 388, 36-39	11
1598	Third-order optical nonlinearity of semiconductor carbon nanotubes for third harmonic generation. 2004 , 388, 330-336	11
1597	A comparison of different preparation methods of Fe/Mo/Al ₂ O ₃ sol-gel catalyst for synthesis of single wall carbon nanotubes. 2004 , 393, 378-384	37
1596	Controlling the diameters in large-scale synthesis of single-walled carbon nanotubes by catalytic decomposition of CH ₄ . 2004 , 398, 276-282	44
1595	Electron transport properties of incommensurate double-walled carbon nanotubes. 2004 , 400, 384-388	10
1594	Exciton effects in carbon nanotubes. 2004 , 42, 1007-1010	57
1593	Photoconductivity of single-wall carbon nanotube films. 2004 , 42, 919-922	45
1592	Electronic and optical properties of double-walled armchair carbon nanotubes. 2004 , 42, 3159-3167	47
1591	Optical absorption matrix elements in single-wall carbon nanotubes. 2004 , 42, 3169-3176	94
1590	Effects of the pressure on growth of carbon nanotubes by plasma-enhanced hot filament CVD at low substrate temperature. 2004 , 236, 6-12	14
1589	How to Identify Haeckelite Structures: A Theoretical Study of Their Electronic and Vibrational Properties. 2004 , 4, 805-810	56
1588	Carbon nanotubes: synthesis and properties, electronic devices and other emerging applications. 2004 , 49, 325-377	209
1587	Computational Studies of Non-Equilibrium Molecular Transport through Carbon Nanotubes. 2004 , 108, 9861-9870	32

1586	Chemical Reactivity of Single-Walled Carbon Nanotubes to Amidogen from Density Functional Calculations. 2004 , 108, 9599-9603	32
1585	Growth Energetics of Single-Wall Carbon Nanotubes with Carbon Monoxide. 2004 , 108, 4308-4313	9
1584	Production of Large-Diameter Single-Wall Carbon Nanotubes by Adding Fe to a NiCo Catalyst in Laser Ablation. 2004 , 108, 12757-12762	11
1583	Observation of Thermopower Oscillations in the Coulomb Blockade Regime in a Semiconducting Carbon Nanotube. 2004 , 4, 45-49	58
1582	Curvilinear lattice in chiral carbon nanotubes. 2004 , 3, 425-431	1
1581	Current distribution in B- and N-doped carbon nanotubes. 2004 , 69,	32
1580	Preparation of copper nanoparticles on carbon nanotubes by electroless plating method. 2004 , 39, 1499-1499	
1579	Band structure and transport properties of carbon nanotubes using a local pseudopotential and a transfer-matrix technique. 2004 , 42, 2057-2057	
1578	Single Wall Carbon Nanotubes for p-Type Ohmic Contacts to GaN Light-Emitting Diodes. 2004 , 4, 911-914	90
1577	Field emission property characterization of individual carbon nanotubes through nanorobotic manipulations and its applications. 2004 ,	5
1576	Electronic, thermal and mechanical properties of carbon nanotubes. 2004 , 362, 2065-98	385
1575	Theoretical study of crossed and parallel carbon nanotube junctions and three-dimensional grid structures. 2004 , 70,	33
1574	Electronic structure and interband transitions of semiconducting carbon nanotubes. 2004 , 95, 399-401	29
1573	New Quantum Nanostructures. 2004 , 87-94	
1572	Proton Exchange Membrane Fuel Cells with Carbon Nanotube Based Electrodes. 2004 , 4, 345-348	682
1571	Structural study of nitrogen-doping effects in bamboo-shaped multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2004 , 84, 2877-2879	3-4 269
1570	The Role of Fullerene Hemispheres in Determining Structural Features of Finite-Length Carbon Nanotubes. 2004 , 108, 11426-11434	47
1569	Universal features of quantized thermal conductance of carbon nanotubes. 2004 , 92, 075502	172

1568	Stokes and anti-Stokes Raman spectra of small-diameter isolated carbon nanotubes. 2004 , 69,		91
1567	Aligned carbon nanotubes for nanoelectronics. 2004 , 15, S512-S516		102
1566	Lithium insertion into the raw multi-walled carbon nanotubes pre-doped with lithium in electrochemical impedance study. 2004 , 13, 99-105		15
1565	Phase diagram of single-wall carbon nanotube crystals under hydrostatic pressure. 2004 , 69,		41
1564	Interpretation of electron diffraction from carbon nanotube bundles presenting precise helicity. 2004 , 70,		18
1563	Double-wall carbon nanotube field-effect transistors: Ambipolar transport characteristics. <i>Applied Physics Letters</i> , 2004 , 84, 2412-2414	3-4	97
1562	Electrical and Mechanical Properties of Composite Materials Based on Carbon Nanotubes for Aerospace Applications. 2004 ,		1
1561	Carbon Nanotubes and Semiconducting Nanostructures: Current Views and Future Perspectives. 2004 ,		2
1560	Metallic to semiconducting transition of single-walled carbon nanotubes under high axial strain. 2004 , 31, 33-41		15
1559	Theoretical analysis on electronic properties of zigzag-type single-walled carbon nanotubes under radial deformation. 2004 , 30, 283-287		19
1558	UNUSUAL PROPERTIES AND STRUCTURE OF CARBON NANOTUBES. 2004 , 34, 247-278		373
1557	Quantitative evaluation of the octadecylamine-assisted bulk separation of semiconducting and metallic single-wall carbon nanotubes by resonance Raman spectroscopy. <i>Applied Physics Letters</i> , 2004 , 85, 1006-1008	3-4	67
1556	An overview of advances in heat conduction models and approaches for prediction of thermal conductivity in thin dielectric films. 2004 , 14, 12-65		20
1555	Geometry effects in confined space. 2004 , 70, 016103		47
1554	Fundamentals and Technological Aspects of Carbon Nanotubes. 2004 , 455-473		1
1553	Carbon Nanotubes. 2004 , 157-200		
1552	SYNTHESIS AND CHARACTERIZATION OF CARBON NANOTUBES FOR HYDROGEN STORAGE. 2004 , 263-316		
1551	End-cap effects on vibrational structures of finite-length carbon nanotubes. 2005 , 127, 11769-76		57

1550	Impurity States in Semiconducting Carbon Nanotubes. 2005 , 74, 425-429	9
1549	Effects of single-walled and multi-walled carbon nanotubes on the transient current in doped nematic cells in a polarity-reversed field. 2005 ,	3
1548	High-Density and Well-Aligned Carbon Nanotube Films on Silicon-Carbide Wafers. 2005 , 113, 637-641	1
1547	An overview of advanced materials for hydrogen storage. 2005 , 162-163, 169-177	141
1546	Electrocatalytic reduction of oxygen by a platinum nanoparticle/carbon nanotube composite electrode. 2005 , 577, 295-302	119
1545	Temperature dependence of time-resolved luminescence spectra for 1D excitons in single-walled carbon nanotubes in micelles. 2005 , 112, 287-290	5
1544	¹³ C NMR study of single-walled carbon nanotubes. 2005 , 359-361, 1412-1414	1
1543	Nanoscience: The quantum frontier. 2005 , 29, 447-453	4
1542	Quantum phase transitions of spin chiral nanotubes. 2005 , 29, 660-663	6
1541	Magnetization of carbon nanotubes. 2005 , 30, 86-92	13
1540	Temperature-dependent carrier dynamics in metallic carbon nanotubes. 2005 , 346, 347-354	1
1539	Raman spectroscopy of carbon nanotubes. 2005 , 409, 47-99	3238
1538	Characterization methods of carbon nanotubes: a review. 2005 , 119, 105-118	619
1537	Novel cold cathode materials and applications. 2005 , 48, 47-189	435
1536	Nanotubes for particle channeling, radiation and electron sources. 2005 , 234, 57-77	40
1535	Electrochemical oxidation of multi-walled carbon nanotubes and its application to electrochemical double layer capacitors. 2005 , 7, 249-255	170
1534	A comparative investigation on electronic structures and optical properties of C60 polymers, periodic fullerenes and carbon nanotubes. 2005 , 755, 105-111	2
1533	Structural and thermal stability of narrow and short carbon nanotubes and nanostrips. 2005 , 43, 1371-1377	34

1532	A shear-lag model for carbon nanotube-reinforced polymer composites. 2005 , 42, 1649-1667	204
1531	Lattice inversion for interatomic potentials in AlN, GaN and InN. 2005 , 309, 309-321	18
1530	A direct method to determine the chiral indices of carbon nanotubes. 2005 , 408, 75-79	41
1529	Measurement of handedness in multiwalled carbon nanotubes by electron diffraction. 2005 , 411, 291-296	5
1528	Photocurrent spectroscopy of double wall carbon nanotubes. 2005 , 412, 190-194	14
1527	Extinction and orientational dependence of electron diffraction from single-walled carbon nanotubes. 2005 , 412, 399-405	7
1526	Electronic structures of semiconducting double-walled carbon nanotubes: Important effect of interlayer interaction. 2005 , 414, 429-433	30
1525	Quantum interference in carbon nanotube intramolecular junction. 2005 , 46, 331-334	3
1524	Spin-polarized transport in carbon nanotubes with impurities. 2005 , 47, 437-441	4
1523	Carbon-nanotube-modified electrodes for the direct bioelectrochemistry of pseudoazurin. 2005 , 1, 083-092	8
1522	Carbon nanotube inner phase chemistry: the Cl- exchange SN2 reaction. 2005 , 5, 1861-6	29
1521	Effect of randomly occurring Stone-Wales defects on mechanical properties of carbon nanotubes using atomistic simulation. 2005 , 16, 555-566	94
1520	Infrared-active vibrational modes of single-walled carbon nanotubes. 2005 , 95, 157402	92
1519	Electronic structure of semiconducting nanotubes adsorbed on metal surfaces. 2005 , 95, 206804	45
1518	Lithium insertion into multi-walled raw carbon nanotubes pre-doped with lithium. 2005 , 89, 295-299	22
1517	Large-area carbon nanotubes film synthesized for field emission display by special CVD equipment and the field emission properties. 2005 , 93, 473-477	23
1516	Simultaneous Determination of Hydroquinone and Catechol at a Glassy Carbon Electrode Modified with Multiwall Carbon Nanotubes. 2005 , 17, 832-838	184
1515	Carbon nanotubes for science and technology. 2005 , 10, 171-185	34

1514	Synthesis and Electronic Properties of Individual Single-Walled Carbon Nanotube/Polypyrrole Composite Nanocables. 2005 , 17, 2727-2732	56
1513	Nanotubes and Nanowires. 2005 , 208-284	18
1512	Time-dependent electron transport in carbon nanotubes with impurities. 2005 , 369, 33-38	1
1511	Electronic and vibrational properties of chemically modified single-wall carbon nanotubes. 2005 , 58, 1-1	159
1510	Electrostriction in single-walled carbon nanotubes. 2005 , 105, 143-147	16
1509	Electro-Optical Characteristics of a Twisted Nematic Liquid-Crystal Cell Doped with Carbon Nanotubes in a DC Electric Field. 2005 , 12, 223-225	56
1508	Electrocatalytic Oxidation and Direct Determination of L-Tyrosine by Square Wave Voltammetry at Multi-wall Carbon Nanotubes Modified Glassy Carbon Electrodes. 2005 , 151, 47-52	125
1507	Wafer-level ordered arrays of aligned carbon nanotubes with controlled size and spacing on silicon. 2005 , 16, 841-845	30
1506	Tunable Field-Effect Transistor Device with Metallofullerene Nanopeapods. 2005 , 44, 469-472	24
1505	Synthesis and characterization of metallic TaSi ₂ nanowires. <i>Applied Physics Letters</i> , 2005 , 87, 223113	3.4 32
1504	Growth process of close-packed aligned carbon nanotubes on SiC. <i>Applied Physics Letters</i> , 2005 , 87, 103105	24
1503	Localization of electronic states by fullerene charges in carbon nanotubes. 2005 , 71,	2
1502	Image formation in a transmission electron microscope equipped with an environmental cell: Single-walled carbon nanotubes in source gases. 2005 , 72,	40
1501	RKKY interaction in single-walled nanotubes. 2005 , 71,	13
1500	Monochiral tubular graphite cones formed by radial layer-by-layer growth. 2005 , 71,	19
1499	Polarization of metallic carbon nanotubes from a model that includes both net charges and dipoles. 2005 , 71,	53
1498	Charge screening of single-walled carbon nanotubes in a uniform transverse electric field. 2005 , 72,	8
1497	Coulomb screening and electronic instabilities of small-diameter (5,0) nanotubes. 2005 , 72,	28

1496	Manipulating the electronic structures of silicon carbide nanotubes by selected hydrogenation. 2005 , 122, 214707	68
1495	Determination of optical isomers for left-handed or right-handed chiral double-wall carbon nanotubes. 2005 , 95, 187406	25
1494	Interaction of hydrogen with vacancies in a (12,0) carbon nanotube. 2005 , 71,	25
1493	Transport properties of carbon nanotubes encapsulating C60 and related materials. 2005 , 71,	23
1492	Real-space electronic-structure calculations with a time-saving double-grid technique. 2005 , 72,	75
1491	Tunable metal-semiconductor transition and single-channel transport in armchair carbon nanotubes with two local gates. 2005 , 71,	1
1490	Band-gap formation in (n,0) single-walled carbon nanotubes (n=9,12,15,18): A first-principles study. 2005 , 72,	42
1489	Band theory of single-walled carbon nanotubes. 2005 , 4, 452-459	3
1488	Cutting lines near the Fermi energy of single-wall carbon nanotubes. 2005 , 72,	46
1487	Unique effects of incommensurability on transport properties of incommensurate double-walled carbon nanotubes. 2005 , 17, 957-963	9
1486	Nano-Peapods Encapsulating Fullerenes. 2005 , 133-150	4
1485	IMAGING AND MAPPING OF INDIVIDUAL NANOPARTICLES AND NANOTUBES BY SELECTIVE NANO-VOLUME RAMAN SPECTROSCOPY. 2005 , 04, 31-44	1
1484	Formation energy of native defects in BN nanotubes: an ab initio study. 2005 , 16, 827-831	69
1483	AB-INITIO STUDY OF VARIOUS PROPERTIES OF SMALL DIAMETER ARMCHAIR CARBON NANOTUBES. 2005 , 04, 295-303	
1482	Conductivity in Carbon Nanotubes with Aharonov-Bohm Flux. 2005 , 74, 3027-3034	14
1481	Protein immunosensor using single-wall carbon nanotube forests with electrochemical detection of enzyme labels. 2005 , 1, 70-8	97
1480	Super-small energy gaps of single-walled carbon nanotube strands. <i>Applied Physics Letters</i> , 2005 , 86, 203107	3-4 17
1479	Effects of buffer layer materials and process conditions on growth mechanisms of forming networks of SWNTs by microwave plasma chemical vapor deposition. 2005 , 14, 1906-1910	5

1478	Optical Absorption of Single-Wall Carbon Nanotubes Produced by Arc-Discharge Method with Different Concentration of Ni/Co Catalyst. 2005 , 12, 287-292	
1477	Recent Advances on Polymers and Polymer Nanocomposites for Advanced Electronic Packaging Applications. 2005 ,	3
1476	Doubly clamped single-walled carbon nanotube resonators operating in MHz frequencies.	2
1475	Protein Sensor Using Carbon Nanotube Field Effect Transistor. 2005 , 44, 1596-1598	37
1474	CVD growth of N-doped carbon nanotubes on silicon substrates and its mechanism. 2005 , 109, 9275-9	63
1473	Carbon nanotubes for biomedical applications. 2005 , 4, 180-95	279
1472	Electron transport and hot phonons in carbon nanotubes. 2005 , 95, 236802	224
1471	Spectroscopically selective nanovolume Raman imaging of one single walled carbon nanotube. 2005 , 154, 201-204	1
1470	Fundamental properties of single-wall carbon nanotubes. 2005 , 109, 52-65	128
1469	Carbon-based nanotechnology on a supercomputer. 2005 , 17, R413-R459	16
1468	Chirality- and diameter-dependent reactivity of NO ₂ on carbon nanotube walls. 2005 , 127, 15724-9	84
1467	Curved pi-conjugation, aromaticity, and the related chemistry of small fullerenes (2005, 105, 3643-96	462
1466	Light emitting diodes of fully conjugated heterocyclic aromatic rigid-rod polymer doped with multi-wall carbon nanotubes. 2005 , 16, 1406-1410	30
1465	Manipulation and detection of single electrons for future information processing. 2005 , 97, 031101	92
1464	Displacement current detection of photoconduction in carbon nanotubes. <i>Applied Physics Letters</i> , 2005 , 86, 061114	3-4 48
1463	Set of carbon nanotube junctions. 2005 , 14, 763-765	12
1462	Carbon nanotube Schottky diodes using Ti-Schottky and Pt-Ohmic contacts for high frequency applications. 2005 , 5, 1469-74	159
1461	Electronic structure of embedded carbon nanotubes. 2005 , 71,	22

1460	Strain energy and electronic structures of silicon carbide nanotubes: Density functional calculations. 2005 , 71,		224
1459	Accurate determination of atomic structure of multiwalled carbon nanotubes by nondestructive nanobeam electron diffraction. <i>Applied Physics Letters</i> , 2005 , 86, 191903	3-4	34
1458	Determination and mapping of diameter and helicity for single-walled carbon nanotubes using nanobeam electron diffraction. 2005 , 71,		28
1457	Electron diffraction from carbon nanotubes. 2006 , 69, 2761-2821		67
1456	Carbon Nanotubes. 2006 ,		13
1455	Effect of substrate bias on growth and properties of carbon nanotubes deposited under no hydrogen introduction by MPCVD. 2006 , 15, 1053-1058		1
1454	Charge and spin transport in carbon nanotubes. 2006 , 21, S1-S9		22
1453	Structural studies of carbon nanotubes obtained by template deposition using high-energy X-ray scattering. 2006 , 15, 1036-1040		5
1452	Effects of gas adsorption on the electrical conductivity of single-wall carbon nanohorns. 2006 , 6, 1325-8		80
1451	Electronic Structure. 2006 , 199-276		2
1450	Noise-Enhanced Detection of Subthreshold Signals With Carbon Nanotubes. 2006 , 5, 613-627		46
1449	. 2006 ,		2
1448	Controlled laser heating of carbon nanotubes. <i>Applied Physics Letters</i> , 2006 , 88, 173113	3-4	43
1447	In-situ opening aligned carbon nanotube films/arrays for multichannel ballistic transport in electrical interconnect.		
1446	Nanocomposite for Advanced Packaging of Microelectronics. 2006 ,		
1445	Quantum-size effects in capped and uncapped carbon nanotubes. 2006 , 102, 71		15
1444	Molecular Dynamics Simulation of Magnetic Field Induced Orientation of Nanotube-Polymer Composite. 2006 , 45, 8984-8987		4
1443	Carbon Nanotubes. 2006 , 1-8		0

1442	Electrochemistry at single-walled carbon nanotubes: the role of band structure and quantum capacitance. 2006 , 128, 7353-9	188
1441	Role of contact bonding on electronic transport in metal-carbon nanotube-metal systems. 2006 , 17, 5063-5072	41
1440	Conducting MWNT/poly(vinyl acetate) composite nanofibres by electrospinning. 2006 , 17, 5829-5835	57
1439	Ab initio study of native defects in SiC nanotubes. 2006 , 74,	55
1438	Transport properties of finite carbon nanotubes under electric and magnetic fields. 2006 , 18, 10693-10703	4
1437	The electronic structures and properties of open-ended and capped carbon nanoneedles. 2006 , 46, 801-7	16
1436	Analytic approach to the linear susceptibility of zigzag carbon nanotubes. 2006 , 74,	13
1435	Temperature and size effects on diffusion in carbon nanotubes. 2006 , 110, 16332-6	37
1434	Method for determination of nature of single-wall carbon nanotubes (SWCNTs) in a bundle prepared by chemical vapor deposition technique. 2006 , 3, 5-10	4
1433	Electronic Properties of Carbon Tori in External Fields. 2006 , 75, 104710	4
1432	Carbon: Nanotubes. 2006 ,	
1431	Carbon nanotube noise characterization. 2006 , 6247, 239	
1430	Large magnetoresistance in single-walled carbon nanotubes contacted different ferromagnetic metal electrodes. 2006 , 38, 57-60	7
1429	Theoretical study on the adsorption of armchair carbon nanotubes on the hydrogenated surface of diamond. 2006 , 203, 3107-3113	5
1428	Growth and electrical characterization of high-aspect-ratio carbon nanotube arrays. 2006 , 44, 253-258	98
1427	Structural and electronic properties of carbon nanowires made of linear carbon chains enclosed inside zigzag carbon nanotubes. 2006 , 44, 456-462	31
1426	Doping effects of B and N on hydrogen adsorption in single-walled carbon nanotubes through density functional calculations. 2006 , 44, 939-947	149
1425	High-temperature electrical transport properties of buckypapers composed of doped single-walled carbon nanotubes. 2006 , 44, 2178-2183	22

1424	Photoemission studies of gold clusters thermally evaporated on multiwall carbon nanotubes. 2006 , 328, 385-391	34
1423	Coiled carbon nanotubes: Synthesis and their potential applications in advanced composite structures. 2006 , 37, 437-448	134
1422	Orientation dependence of diffraction intensities from helical structures. 2006 , 420, 171-176	7
1421	Third harmonic generation of semiconductor carbon nanotubes. 2006 , 433, 101-104	9
1420	Application of dielectrophoresis to fabrication of carbon nanohorn gas sensor. 2006 , 64, 408-415	44
1419	Molecular dynamics simulation of carbon nanotube structure. 2006 , 792-793, 78-81	9
1418	Study on effects of substrate temperature on growth and structure of alignment carbon nanotubes in plasma-enhanced hot filament chemical vapor deposition system. 2006 , 253, 904-908	8
1417	Structural and electronic properties of ultra-small radius SWCNT. 2006 , 31, 31-37	14
1416	Structural and electronic properties of bamboo-like carbon nanostructure. 2006 , 31, 62-66	10
1415	Low-energy electronic properties of carbon nanotubes. 2006 , 33, 57-65	7
1414	Dielectric screening for carbon nanotubes in a gating electric field. 2006 , 32, 577-580	2
1413	Electronic properties of armchair carbon nanotube array. 2006 , 32, 581-584	3
1412	Electronic decay rates in semiconducting carbon nanotubes. 2006 , 34, 658-661	2
1411	Electron transport in armchair single-wall carbon nanotubes. 2006 , 33, 336-342	5
1410	Effects of intertube interaction on the linear optical properties of the double-walled carbon nanotubes. 2006 , 351, 105-108	2
1409	The effect of uniaxial and torsional deformations on quantum interference of carbon nanotubes. 2006 , 351, 308-313	10
1408	Fabrication and characterization of suspended single-walled carbon nanotubes. 2006 , 139, 186-190	5
1407	Nanofabrication and the structure-property analyses of phase-change alloy-ended CNTs. 2006 , 200, 3206-3210z	

1406	Tunneling-current-induced light emission from individual carbon nanotubes. 2006 , 600, L15-L19		15
1405	Theoretical explorations on BN-doped armchair single-walled carbon nanotubes. 2006 , 765, 1-11		8
1404	Interaction of a transition metal atom with intrinsic defects in single-walled carbon nanotubes. 2006 , 110, 13941-6		59
1403	Effect of apical defects and doped atoms on field emission of boron nitride nanocones. 2006 , 110, 16346-52		22
1402	Carbon-nanotube-based hybrid materials: nanopeapods. 2006 , 1, 646-55		54
1401	Energies of optical transitions in metal and semiconductor nanotubes. 2006 , 51, 315-319		
1400	Nanotube-based nanoelectromechanical systems. 2006 , 103, 449-462		10
1399	Adsorption on the graphene surface of carbon nanotubes and their energy spectrum. 2006 , 48, 605-613		8
1398	Electronic instabilities in 3D arrays of small-diameter (3, 3) carbon nanotubes. 2006 , 51, 571-581		10
1397	Joule heating induced negative differential resistance in freestanding metallic carbon nanotubes. <i>Applied Physics Letters</i> , 2006 , 89, 103102	3-4	32
1396	Structure determinations of double-wall carbon nanotubes grown by catalytic chemical vapor deposition. 2006 , 41, 4382-4388		15
1395	The seminal literature of nanotechnology research. 2006 , 8, 193-213		60
1394	Magnetic field effects and renormalization of the long-range Coulomb interaction in carbon nanotubes. 2006 , 321, 934-949		9
1393	Synthesis and diameter control of multi-walled carbon nanotubes over gold nanoparticle catalysts. 2006 , 302, 201-207		25
1392	Reinforcement of precursor-derived Si ₃ N ₄ ceramics with carbon nanotubes. 2006 , 26, 3399-3405		46
1391	Metallic/semiconducting ratio of carbon nanotubes in a bundle prepared using CVD technique. 2006 , 67, 395-400		
1390	Adsorption on the carbon nanotubes. 2006 , 1, 317-322		5
1389	A rapid growth of aligned carbon nanotube films and high-aspect-ratio arrays. 2006 , 35, 195-199		9

1388	SWNTs/polystyrene composites preparations and electrical properties research. 2006 , 100, 77-81	38
1387	Porphyrin Molecular Nanodevices Wired Using Single-Walled Carbon Nanotubes. 2006 , 18, 1411-1415	67
1386	Quantized Electrical Conductance of Gold Helical Multishell Nanowires. 2006 , 75, 053705	22
1385	High energy-resolution electron energy-loss spectroscopy study of the electric structure of double-walled carbon nanotubes. 2006 , 55, 137-42	10
1384	ELECTRONIC-STRUCTURE ENGINEERING OF CARBON NANOTUBES. 2006 , 01, 115-138	47
1383	In situ growth of single-walled carbon nanotubes by bimetallic technique with/without dielectric support for nanodevice applications. 2006 , 24, 358	8
1382	Electrochemical functionalization of vertically aligned carbon nanotube arrays with molybdenum oxides for the development of a surface-charge-controlled sensor. 2006 , 17, 3994-4001	22
1381	Magneto-electronic properties of chiral carbon nanotubes and tori. 2006 , 18, 8313-8324	1
1380	Conductance of carbon nanotubes in a transverse electric field and an arbitrary magnetic field. 2006 , 17, 5632-8	3
1379	Suppression of electron-electron repulsion and superconductivity in ultra-small carbon nanotubes. 2006 , 18, S2115-S2126	12
1378	Gigantic Optical Stark Effect and Ultrafast Relaxation of Excitons in Single-Walled Carbon Nanotubes. 2006 , 75, 043709	14
1377	Chapter 8 Interfaces, Bifaces, and Nanotechnology. 2006 , 251-267	2
1376	Highly Flexible and Transparent Single Wall Carbon Nanotube Network Gas Sensors Fabricated on PDMS Substrates. 2006 , 922, 1	2
1375	Properties of the incandescent light emitted from double-walled carbon nanotube filament. 2006 , 15, 2731-2734	2
1374	Shot noise and conductance in metallic carbon nanotubes in the presence of correlated defects. 2006 , 73,	8
1373	Parallel arrays of individually addressable single-walled carbon nanotube field-effect transistors. 2006 , 99, 024302	28
1372	Preferential etching of metallic single-walled carbon nanotubes with small diameter by fluorine gas. 2006 , 73,	65
1371	Scaling of the conductance in gold nanotubes. 2006 , 74,	12

1370	Toward uniform nanotubular compounds: synthetic approach and ab initio calculations. 2006 , 124, 121102		6
1369	Carbon nanotubes as nanoelectromechanical systems components. 2006 , 361-488		1
1368	Separation of metallic and semiconducting single-walled carbon nanotubes. 2006 , 255-295		10
1367	Electronic properties of carbon nanotubes under external fields. 2006 , 73,		25
1366	Modulation of Luttinger liquid exponents in multiwalled carbon nanotubes. 2006 , 74,		6
1365	Effect of gravity on the growth of vertical single-walled carbon nanotubes in a chemical vapor deposition process. <i>Applied Physics Letters</i> , 2006 , 89, 033117	3-4	4
1364	Semiconducting single-walled carbon nanotubes exposed to distilled water and aqueous solution: Electrical measurement and theoretical calculation. <i>Applied Physics Letters</i> , 2006 , 88, 053114	3-4	12
1363	Electrical conductance and breakdown in individual CN _x multiwalled nanotubes. <i>Applied Physics Letters</i> , 2006 , 89, 143110	3-4	30
1362	Intertube interactions in carbon nanotube bundles. 2006 , 73,		39
1361	Large-amplitude coherent phonons and inverse Stone-Wales transitions in graphitic systems with defects interacting with ultrashort laser pulses. 2006 , 74,		14
1360	Ferromagnetism induced by heavy-ion irradiation in fullerene films. 2006 , 74,		44
1359	Electron scattering in a multiwall carbon nanotube bend junction studied by scanning tunneling microscopy. 2006 , 74,		14
1358	Electronic and Vibration Spectra of Hydrogenated Carbon Single-Wall Nanotubes. 2006 , 14, 165-170		6
1357	Tuning the electronic structures of semiconducting SiC nanotubes by N and NH _x (x=1,2) groups. 2006 , 125, 194710		26
1356	Electronic and transport properties of different boron-doped (12,0)/(6,6) carbon nanotube junctions. 2006 , 18, 9585-9592		1
1355	Optical Phonon Interacting with Electrons in Carbon Nanotubes. 2006 , 75, 084713		76
1354	Precise Assembly and Electrical Contact of MWCNT Based on AC Dielectrophoresis and Robotic Nanomanipulation Technology. 2006 ,		
1353	Well-Aligned In-situ Formed Open-End Carbon Nanotube for Device and Assembly Applications. 2006 , 968, 1		

1352	Single-walled carbon nanotube/polyaniline coated cellulose based electro-active paper (EAPap) as hybrid actuator. 2006 , 15, N61-N65	35
1351	Carbon β capods: new tunable nanoscale graphitic structure (Review). 2006 , 32, 887-905	39
1350	Nanospintronics with carbon nanotubes. 2006 , 21, S78-S95	93
1349	ELECTRONIC STRUCTURE OF FINITE-LENGTH CARBON NANOTUBES: CROSSOVER FROM FULLERENES TO NANOTUBES. 2007 , 02, 51-57	15
1348	Biofunctionalization of Carbon Nanotubes. 2007 ,	2
1347	. 2007 ,	
1346	MAGNETIC IMPURITY EFFECTS IN ZIGZAG CARBON NANOTUBES. 2007 , 06, 453-459	
1345	Chapter 9 Modeling and simulations of carbon nanotubes. 2007 , 227-244	
1344	Chapter 7 Toward nanomaterials: Structural, energetic and reactivity aspects of single-walled carbon nanotubes. 2007 , 18, 167-199	12
1343	Diffusion of chain molecules and mixtures in carbon nanotubes: the effect of host lattice flexibility and theory of diffusion in the Knudsen regime. 2007 , 127, 024904	43
1342	Growth and characterization of nitrogen-doped single-walled carbon nanotubes by water-plasma chemical vapour deposition. 2007 , 18, 285601	22
1341	The influence of dimensionality on superconductivity in carbon nanotubes. 2007 , 19, 395016	2
1340	Closed-packed and well-aligned carbon nanotube films on SiC. 2007 , 40, 6278-6286	13
1339	Very Thin Single-Walled Carbon Nanotubes Self-Assembled on 6H-SiC($\bar{1}\bar{1}\bar{1}$) Substrate by Surface Decomposition Method. 2007 , 46, L53-L56	5
1338	Energetics and electronic structure of armchair nanotubes with topological line defects. 2007 , 19, 365231	1
1337	Noncollinear coupling between magnetic adatoms in carbon nanotubes. 2007 , 76,	18
1336	Impurity mediated absorption continuum in single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 90, 023106	3-4 7
1335	Theoretical approach to electronic screening and correlated superconductivity in carbon nanotubes. 2007 , 75,	9

1334	Orientation dependence of magnetic moment on double-walled nanotubes with topological line defects. <i>Applied Physics Letters</i> , 2007 , 90, 103120	3-4	3
1333	Quantum effects in a double-walled carbon nanotube capacitor. 2007 , 76,		20
1332	Field-effect modulation of contact resistance between carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 91, 133515	3-4	10
1331	Effects of nitrogen in Stone-Wales defect on the electronic transport of carbon nanotube. <i>Applied Physics Letters</i> , 2007 , 91, 092121	3-4	20
1330	Electron-electron scattering rates in moderate-gap toroidal carbon nanotubes. 2007 , 76,		
1329	Carbon Nanotube-based Vectors for Delivering Immunotherapeutics and Drugs. 2007 ,		1
1328	Assembling Carbon Nanotube Bundles Using Transfer Process for Fine-Pitch Electrical Interconnect Applications. 2007 ,		8
1327	Electrical and Thermal Properties of Carbon Nanotube Polymer Composite Films. 2007 , 1018, 1		2
1326	Electronic excitations and deexcitations in narrow-gap carbon nanotubes. 2007 , 18, 435401		1
1325	Chapter 1 Metal-molecule-semiconductor junctions: An ab initio analysis. 2007 , 17, 1-54		1
1324	Electrostatic Force Microscopy of Nanofibers and Carbon Nanotubes: Quantitative Analysis Using Theory and Experiment. 2007 , 1025, 1		
1323	Carbon nanotube and nanofibre reinforced polymer fibres. 2007 , 194-234		1
1322	Adiabatic self-trapped states in zigzag nanotubes. 2007 , 19, 306205		3
1321	Electronic Structure and Energetics of MgB ₂ Nanotube. 2007 , 76, 043707		7
1320	Transport Properties of Double-Walled Carbon Nanotubes in a Transverse Electric Field. 2007 , 76, 104706		1
1319	Carbon Nanotube-based Sensor. 2007 ,		1
1318	Tip-Enhanced Spectroscopy for Nano Investigation of Molecular Vibrations. 2007 , 257-285		1
1317	Charge Carrier Mobility in Films of Carbon-Nanotube- Polymer Composites. 2007 , 61, 1152-1156		18

1316	Electronic and transport properties of nanotubes. 2007 , 79, 677-732	1082
1315	Density functional theory study of a graphene sheet modified with titanium in contact with different adsorbates. 2007 , 76,	85
1314	Formulation in terms of normalized propagators of a charge-dipole model enabling the calculation of the polarization properties of fullerenes and carbon nanotubes. 2007 , 75,	93
1313	Thermal Properties of Carbon Nanotubes. 2007 , 154-187	2
1312	Silicon-based low-dimensional nanomaterials and nanodevices. 2007 , 107, 1454-532	208
1311	Fine-pitch carbon nanotube bundles assembly using CNT transfer for electrical interconnects. 2007 ,	
1310	Dependence of Raman spectra G? band intensity on metallicity of single-wall carbon nanotubes. 2007 , 76,	62
1309	Synthesis of uniform double-walled carbon nanotubes using iron disilicide as catalyst. 2007 , 7, 2417-21	48
1308	Carbon Nanotubes Grow on the C Face of SiC (0001) during Sublimation Decomposition: Quantum Chemical Molecular Dynamics Simulations. 2007 , 111, 12960-12972	21
1307	Nanocrystalline nanowires: 2. Phonons. 2007 , 7, 11-4	15
1306	Synthesis of poly(para-phenylene)(2-isocyano-2-tosylpropane-1,3-diyl), poly(para-phenylene)(2-oxopropane-1,3-diyl) and oligo(cyclopentadienones) via carbonylative coupling of alpha,alpha'-dibromoxylene. 2007 , 4665-7	2
1305	Calculation of mobility using Monte Carlo method in a doped semiconducting single wall carbon nanotubes. 2007 ,	
1304	Vertically Aligned Large-Diameter Double-Walled Carbon Nanotube Arrays Having Ultralow Density. 2007 , 111, 9077-9080	65
1303	Growth of Suspended Single-Walled Carbon Nanotubes by Laser-Irradiated Chemical Vapor Deposition. 2007 , 61, 46-50	2
1302	Functionalizing Single-Walled Carbon Nanotube Networks: Effect on Electrical and Electrochemical Properties. 2007 , 111, 12944-12953	66
1301	Account of helical and rotational symmetries in the linear augmented cylindrical wave method for calculating the electronic structure of nanotubes: Towards the ab initio determination of the band structure of a (100, 99) tubule. 2007 , 76,	48
1300	Discontinuity in the family pattern of single-wall carbon nanotubes. 2007 , 76,	71
1299	Bound excitons in metallic single-walled carbon nanotubes. 2007 , 7, 1626-30	93

1298	Effects of band structure and quantum interference on the differential conductance of infinite metallic single-wall carbon nanotubes. 2007 , 19, 096207	4
1297	Large-scale CVD synthesis of nitrogen-doped multi-walled carbon nanotubes with controllable nitrogen content on a $\text{Co/Mg}^{1-\lambda}\text{MoO}_4$ catalyst. 2007 , 16, 425-430	62
1296	Dynamical behaviour of carbon nanotubes. 2007 , 16, 288-291	2
1295	New formations of carbon nanotube junctions. 2007 , 15, 739-745	7
1294	Structural, elastic, and electronic properties of SiC, BN, and BeO nanotubes. 2007 , 76,	194
1293	Adsorption and Surface Reactivity on Single-Walled Boron Nitride Nanotubes Containing Stone-Wales Defects. 2007 , 111, 14105-14112	104
1292	Cyclotron resonance study of the electron and hole velocity in graphene monolayers. 2007 , 76,	254
1291	Hidden one-electron interactions in carbon nanotubes revealed in graphene nanostrips. 2007 , 7, 825-30	166
1290	Tailored Field-Emission Property of Patterned Carbon Nitride Nanotubes by a Selective Doping of Substitutional N(SN) and Pyridine-like N(pN) Atoms. 2007 , 19, 2918-2920	50
1289	Nanocrystalline nanowires: I. Structure. 2007 , 7, 6-10	23
1288	A hybrid density functional study of zigzag SiC nanotubes. 2007 , 18, 495706	79
1287	Single-wall carbon nanotubes and peapods investigated by EPR. 2007 , 9, 6063-72	28
1286	Carbon-Nanotube Optoelectronics. 2007 , 423-454	18
1285	Carbon Nanotubes for Electronic and Electrochemical Detection of Biomolecules. 2007 , 19, 3214-3228	407
1284	Growth of single-walled carbon nanotubes on silicon nanowires. 2007 , 141, 632-634	11
1283	Amine-functionalized boron nitride nanotubes. 2007 , 142, 643-646	122
1282	Synthesis-condition dependence of carbon nanotube growth by alcohol catalytic chemical vapor deposition method. 2007 , 8, 292-295	35
1281	Chirality dependence of many body effects of single wall carbon nanotubes. 2007 , 45, 89-94	13

1280	Radial-breathing mode frequencies for nanotubes encapsulating fullerenes. 2007 , 438, 59-62	33
1279	Synthesis of carbide-free, high strength iron-carbon nanotube composite by in situ nanotube growth. 2007 , 442, 365-371	15
1278	Energetics and electronic structures of carbon nanotubes with adatom-vacancy defects. 2007 , 447, 263-267	17
1277	Controlling the dispersion of multi-wall carbon nanotubes in aqueous surfactant solution. 2007 , 45, 618-623	580
1276	A novel choice of the graphene unit vectors, useful in zone-folding computations. 2007 , 45, 1018-1024	11
1275	The effect of catalyst calcination temperature on the diameter of carbon nanotubes synthesized by the decomposition of methane. 2007 , 45, 1535-1541	47
1274	Characterization of SWCNT and PAN/SWCNT films. 2007 , 45, 2417-2423	13
1273	The effect of sulfur on the number of layers in a carbon nanotube. 2007 , 45, 2152-2158	64
1272	Electrochemical chlorine sensor with multi-walled carbon nanotubes as electrocatalysts. 2007 , 9, 2436-2440	35
1271	An exhaustive classification scheme for single-wall carbon nanotubes. 2007 , 393, 195-203	4
1270	Fabrication of flexible and transparent single-wall carbon nanotube gas sensors by vacuum filtration and poly(dimethyl siloxane) mold transfer. 2007 , 84, 1610-1613	56
1269	Highly visible-light luminescence properties of the carboxyl-functionalized short and ultrashort MWNTs. 2007 , 180, 1928-1933	15
1268	First-principles properties of organic polymer photovoltaic materials. 2007 , 107, 3120-3125	4
1267	Metal-induced gap states at a carbon-nanotube intramolecular heterojunction observed by scanning tunneling microscopy. 2007 , 3, 280-4	22
1266	Preferential orientation of a chiral semiconducting carbon nanotube on the locally de-passivated Si(100)-2 x 1:H surface identified by scanning tunneling microscopy. 2007 , 3, 1402-6	13
1265	Single-walled carbon-nanotube spectroscopic and electronic field-effect transistor measurements: a combined approach. 2007 , 3, 1324-9	17
1264	Highly selective dispersion of single-walled carbon nanotubes using aromatic polymers. 2007 , 2, 640-6	880
1263	The big picture of Raman scattering in carbon nanotubes. 2007 , 45, 71-81	94

1262	Carbon nanotubes and their interaction with the surface of diamond. 2007 , 75,	18
1261	Carrier Density and Effective Mass Calculations for Carbon Nanotubes. 2007 ,	2
1260	Field emission of electrons by carbon nanotube twist-yarns. 2007 , 88, 593-600	31
1259	Complete solution of elastica for a clamped-hinged beam, and its applications to a carbon nanotube. 2007 , 190, 133-150	37
1258	Electrical applications for novel carbon nanotube morphologies: Does function follow shape?. 2007 , 59, 33-38	2
1257	High-density and well-aligned carbon nanotubes formed by surface decomposition of SiC. 2007 , 254, 257-261	7
1256	Self-trapped electron states in nanotubes. 2007 , 228, 130-139	7
1255	Adsorption kinetics of alkanes on TiO ₂ nanotubes array Γ structure Γ activity relationship. 2007 , 601, 4620-4628	17
1254	Chemical composition and phase identification of sodium titanate nanostructures grown from titania by hydrothermal processing. 2007 , 68, 628-637	55
1253	Crystal orbital study on the zigzag single-walled carbon nanotubes with multi-dichlorocarbene addition. 2008 , 69, 2531-2534	25
1252	Effects of post-treatments on microstructure and hydrogen storage performance of the carbon nano-tubes prepared via a metal dusting process. 2008 , 182, 317-322	10
1251	Direct electrochemistry of glucose oxidase and biosensing for glucose based on boron-doped carbon nanotubes modified electrode. 2008 , 23, 1272-7	219
1250	An inlaying ultra-thin carbon paste electrode modified with functional single-wall carbon nanotubes for simultaneous determination of three purine derivatives. 2008 , 131, 411-416	39
1249	Purification of catalytically produced carbon nanotubes for use as support for fuel cell cathode Pt catalyst. 2008 , 43, 557-567	7
1248	Role of structure and morphology in the elastic modulus of carbon nanotube composites. 2008 , 43, 5837-5844	7
1247	A unified geometric rule for designing nanomagnetism in graphene. 2008 , 1, 497-501	70
1246	Analysis of different techniques for modelling excitons in carbon nanotubes. 2008 , 1, 101-105	1
1245	Fabrication of carbon nanotubes and byproducts by arc discharge in DC motors. 2008 , 3, 664-668	1

1244	Carrier density and effective mass calculations in carbon nanotubes. 2008 , 245, 2558-2562	49
1243	Optical properties of metallic and semiconducting single-wall carbon nanotubes. 2008 , 245, 2233-2238	10
1242	Some Properties of Sodium Dodecyl Sulfate Functionalized Multiwalled Carbon Nanotubes Electrode and Its Application on Detection of Dopamine in the Presence of Ascorbic Acid. 2008 , 20, 1811-1818	40
1241	Carbon nanotube gas and vapor sensors. 2008 , 47, 6550-70	676
1240	Formation of nanotubular methylaluminoxanes and the nature of the active species in single-site alpha-olefin polymerization catalysis. 2008 , 47, 9279-83	56
1239	Gas- und Dampfsensoren auf der Basis von Kohlenstoff-Nanoröhren. 2008 , 120, 6652-6673	32
1238	Formation of Nanotubular Methylaluminoxanes and the Nature of the Active Species in Single-Site Olefin Polymerization Catalysis. 2008 , 120, 9419-9423	11
1237	Electronic properties of single-walled carbon nanotubes under electric and magnetic fields. 2008 , 40, 2056-2058	13
1236	The electronic properties of SWNTs intercalated by electron acceptors. 2008 , 40, 2283-2288	23
1235	Temperature-dependent Coulomb scattering rates of Fermi-momentum states in metallic carbon nanotubes. 2008 , 40, 2720-2723	
1234	Multiscale modeling with carbon nanotubes. 2008 , 39, 208-221	32
1233	Vertically aligned double-walled carbon nanotube electrode prepared by transfer methodology for electric double layer capacitor. 2008 , 185, 1580-1584	21
1232	Spin probe ESR studies of dynamics of single walled carbon nanotubes. 2008 , 69, 1178-82	5
1231	Multi-walled carbon nanotubes as high temperature carbon monoxide sensors. 2008 , 134, 640-646	9
1230	In situ probing of acidic groups on acid-treated carbon nanofibers using 1-aminopyrene. 2008 , 193, 161-165	8
1229	Concurrent quantum/continuum coupling analysis of nanostructures. 2008 , 197, 3291-3323	19
1228	Re-emergent direct-indirect band gap transitions in carbon nanotubes under shear strains. 2008 , 46, 773-777	6
1227	Ultraviolet irradiated ozone treatment of a metal catalyst for the large-scale synthesis of single-walled carbon nanotubes with small, uniform diameters. 2008 , 46, 1443-1449	7

1226	Purification of carbon nanotubes. 2008 , 46, 2003-2025	570
1225	Synthesis of multi-wall carbon nanotubes by simple pyrolysis. 2008 , 145, 143-148	52
1224	Electronic properties of telescoping carbon nanotubes under external fields. 2008 , 145, 451-455	1
1223	Morphology of metallic nanoparticles as a function of deposition time in electroless deposition of metal on multi-walled carbon nanotubes. 2008 , 203, 357-363	30
1222	Ab initio study on the structural, energetic and electronic features of the asymmetric armchair SWCNT junctions. 2008 , 861, 79-84	3
1221	Design of carbon nanotube-polymer frameworks by electropolymerization of SWCNT-pyrrole derivatives. 2008 , 53, 3948-3954	30
1220	Development of an amperometric l-lactate biosensor based on l-lactate oxidase immobilized through silica sol-gel film on multi-walled carbon nanotubes/platinum nanoparticle modified glassy carbon electrode. 2008 , 28, 1070-1075	44
1219	A perspective on combining molecular nanomagnets and carbon nanotube electronics. 2008 , 361, 3807-3819	30
1218	Transport properties of AB-stacked bilayer graphene nanoribbons in an electric field. 2008 , 64, 73-80	11
1217	Lattice vibrations in single-wall carbon nanotubes. 2008 , 77,	29
1216	Polymer structure and solvent effects on the selective dispersion of single-walled carbon nanotubes. 2008 , 130, 3543-53	264
1215	Environmental applications of carbon-based nanomaterials. 2008 , 42, 5843-59	1154
1214	Highly selective growth of vertically aligned double-walled carbon nanotubes by a controlled heating method and their electric double-layer capacitor properties. 2008 , 2, 53-55	11
1213	A symmetry based investigation of the band gap of SWCNTs. 2008 , 6,	2
1212	Electronic structure of isolated, embedded, and double-walled nanotubes. 2008 , 53, 2171-2190	
1211	Direct electrochemical behavior of the Cysteamine/DNA/SWNTs-film-modified Au electrode and its interaction with taxol. 2008 , 44, 1052-1057	14
1210	Physical properties of CVD boron-doped multiwalled carbon nanotubes. 2008 , 111, 386-390	28
1209	New synthesis of Cu ₂ O and Cu nanoparticles on multi-wall carbon nanotubes. 2008 , 43, 1492-1496	16

1208	Preparation and characterization of NiCuB/CNTs quaternary electroless composite coating. 2008 , 43, 3425-3432	20
1207	Preparation of CNFs surface to coat with copper by electroless process. 2008 , 62, 494-497	16
1206	Transport properties of an armchair carbon nanotube with a double vacancy under stretching. 2008 , 20, 345225	2
1205	Cyclotron resonance of electrons and holes in graphene monolayers. 2008 , 366, 237-43	13
1204	Hybrid density functional study of armchair SiC nanotubes. 2008 , 77,	92
1203	Carbon Materials as Supports for Fuel Cell Electrocatalysts. 2008 , 429-480	7
1202	Edge-functionalized and substitutionally doped graphene nanoribbons: Electronic and spin properties. 2008 , 77,	461
1201	Selective aggregation of single-walled carbon nanotubes using the large optical field gradient of a focused laser beam. 2008 , 101, 127402	40
1200	Universal band gap modulation by radial deformation in semiconductor single-walled carbon nanotubes. 2008 , 78,	24
1199	Different Types of Nanosized Carbon Materials Produced by a Metal Dusting Process. 2008 , 112, 20143-20148	4
1198	Characteristics of Carbon Nanotubes for Nanoelectronic Device Applications. 2008 , 345-375	1
1197	Simultaneous Spectroscopic and Solid-State Electronic Measurement of Single-Walled Carbon Nanotube Devices. 2008 , 112, 4430-4434	20
1196	Energy-gap modulation of BN ribbons by transverse electric fields: First-principles calculations. 2008 , 77,	257
1195	Single-walled carbon nanotube network ultramicroelectrodes. 2008 , 80, 3598-605	52
1194	Chapter 2 Quantum theories for carbon nanotubes. 2008 , 29-48	0
1193	Electron transfer in pristine and functionalised single-walled carbon nanotubes. 2008 , 4867-74	16
1192	Vertically aligned N-doped carbon nanotubes by spray pyrolysis of turpentine oil and pyridine derivative with dissolved ferrocene. 2008 , 354, 4101-4106	34
1191	Comparative study of tunneling currents through silicon dioxide and high- ϵ dielectric hafnium oxide partly embedded with nanocrystals and nanotubes in metal oxide semiconductor structures. 2008 , 104, 034313	6

1190	Direct imaging of the structure, relaxation, and sterically constrained motion of encapsulated tungsten polyoxometalate lindqvist ions within carbon nanotubes. 2008 , 2, 966-76	43
1189	Energetics of nanoscale graphene ribbons: Edge geometries and electronic structures. 2008 , 77,	119
1188	Introduction. 2008 , 16, 651	6
1187	Carbons. 2008 , 357	2
1186	Spin and band-gap engineering in doped graphene nanoribbons. 2008 , 78,	114
1185	Fermi level engineering of single-walled carbon nanotubes by AuCl ₃ doping. 2008 , 130, 12757-61	215
1184	A new analytical model for predicting SWCNT band-gap from geometrical properties. 2008 ,	2
1183	Carbon nanotubes as interconnects: Emerging technology and potential reliability issues. 2008 ,	1
1182	Effect of Percolation on Electrical Conductivity in a Carbon Nanotube-Based Film Radiation Sensor. 2008 ,	3
1181	Systematic Comparison of the Raman Spectra of Metallic and Semiconducting SWNTs. 2008 , 112, 8319-8323	24
1180	Staggered alignment of quadrupolar molecules inside carbon nanotubes. 2008 , 112, 8999-9005	17
1179	CO oxidation catalyzed by single-walled helical gold nanotube. 2008 , 8, 195-202	110
1178	Separations of Metallic and Semiconducting Carbon Nanotubes by Using Sucrose as a Gradient Medium. 2008 , 112, 18889-18894	51
1177	Contrast in the Electronic and Magnetic Properties of Doped Carbon and Boron Nitride Nanotubes: A First-Principles Study. 2008 , 112, 3464-3472	11
1176	Antenna chemistry with metallic single-walled carbon nanotubes. 2008 , 130, 15340-7	23
1175	One-dimensional nanostructures: fabrication, characterisation and applications. 2008 , 53, 235-255	75
1174	Scaling law of the giant Stark effect in boron nitride nanoribbons and nanotubes. 2008 , 78,	84
1173	On the electronic and geometric structures of armchair GeC nanotubes: a hybrid density functional study. 2008 , 19, 335706	31

1172	Nanomechanics of carbon nanotubes. 2008 , 366, 1591-611		87
1171	Effect of band structure on field emission of crystalline graphite. 2008 , 20, 035204		5
1170	Carbon nanotubes. 2008 , 73, 891-913		13
1169	Carbon nanotube screening effects on the water-ion channels. <i>Applied Physics Letters</i> , 2008 , 93, 43122	3-4	12
1168	Visualization and investigation of Si-C covalent bonding of single carbon nanotube grown on silicon substrate. <i>Applied Physics Letters</i> , 2008 , 93, 103111	3-4	14
1167	Electronic properties of nanotube-ribbon hybrid systems. 2008 , 19, 105703		12
1166	A one-step technique to prepare aligned arrays of carbon nanotubes. 2008 , 19, 155602		43
1165	Electronic Properties of Nitrogen-Doped Carbon Nanotubes with Strain:Ab initioMethod Approach. 2008 , 47, 5062-5065		4
1164	Electron transport properties of ordered networks using carbon nanotubes. 2008 , 19, 315704		23
1163	Development of carbon nanotube based spectrum infrared sensors. 2008 ,		
1162	Probing quantum confinement of single-walled carbon nanotubes by resonant soft-x-ray emission spectroscopy. <i>Applied Physics Letters</i> , 2008 , 93, 023107	3-4	10
1161	Phase diagrams of the metallic zigzag carbon nanotube. 2008 , 78,		9
1160	Effects of deformation on the electronic structure of a single-walled carbon nanotube bundle. 2008 , 77,		17
1159	First-principles study for transport properties of armchair carbon nanotubes with a double vacancy under strain. 2008 , 103, 113714		5
1158	Effect of strain on the band gap and effective mass of zigzag single-wall carbon nanotubes: First-principles density-functional calculations. 2008 , 77,		36
1157	Unusual transport characteristics of nitrogen-doped single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2008 , 93, 043113	3-4	35
1156	Resistivity reduction of boron-doped multiwalled carbon nanotubes synthesized from a methanol solution containing boric acid. <i>Applied Physics Letters</i> , 2008 , 92, 202116	3-4	25
1155	Transforming carbon nanotubes by silylation: an ab initio study. 2008 , 100, 236102		11

1154	Engineering the Band Gap of Carbon Nanotubes. 2008 ,	
1153	Experimental study of Coulomb corrections and single-particle energies for single-walled carbon nanotubes using cross-polarized photoluminescence. 2008 , 78,	19
1152	Single-Walled Carbon Nanotubes. 2008 , 4085-4095	
1151	Magnetic Properties of Mn Doped Armchair Graphene Nanoribbon. 2008 , 49, 2445-2447	8
1150	Quantum transport properties of carbon nanotube with topologic defects. 2008 , 43, 19-22	4
1149	. 2009 ,	29
1148	A Review of Carbon Nanotubes-Based Gas Sensors. 2009 , 2009, 1-24	296
1147	Algorithm for Nanotubes Computer Generation with Different Configurations. 2009 , 2, 108-120	3
1146	Electronic Structure of a Collapsed Armchair Single-Walled Carbon Nanotube. 2009 , 7, 541-545	6
1145	Growth Mechanism Of Carbon Nanotubes Prepared By Fluidized Floating Catalyst Method. 2009 ,	1
1144	Electronic properties of a carbon nanotube in a field-effect transistor structure: A first-principles study. 2009 , 79,	6
1143	Kohn anomalies in graphene nanoribbons. 2009 , 80,	42
1142	Molecular dynamics study of the chiral vector influence on thermal conductivity of carbon nanotubes. 2009 ,	2
1141	Engineering the band gap of carbon nanotube for infrared sensors. <i>Applied Physics Letters</i> , 2009 , 95, 221107	3.4 18
1140	Theoretical calculation for the ultraviolet optical properties of single-walled carbon nanotubes. 2009 , 79,	27
1139	Physisorption of adenine DNA nucleosides on zigzag and armchair single-walled carbon nanotubes: A first-principles study. 2009 , 79,	28
1138	Magnetism in finite-sized single-walled carbon nanotubes of the zigzag type. 2009 , 79,	26
1137	Novel method to extract arrays of aligned carbon nanotube bundles from CNT film using solder ball grid arrays for higher performance device interconnects. 2009 ,	

1136	PREPARATION OF CARBON NANOTUBES BY FLUIDIZED FLOATING CATALYST METHOD USING NATURAL SOURCE. 2009 , 08, 351-357	1
1135	Ink-Jet Printing of a Single-Walled Carbon Nanotube Thin Film Transistor. 2009 , 48, 06FF03	21
1134	BAND STRUCTURE AND ELECTRON VELOCITY MEASUREMENT IN CARBON NANOTUBES AND GRAPHENE. 2009 , 23, 2655-2664	1
1133	Exciton States and Linear Optical Spectra of Semiconducting Carbon Nanotubes under Uniaxial Strain. 2009 , 26, 037102	3
1132	Application of nanomaterials in sizings for glass fibre/polypropylene hybrid yarn spinning. 2009 , 24, 29-35	10
1131	Electrical transport measurements of the side-contacts and embedded-end-contacts of platinum leads on the same single-walled carbon nanotube. 2009 , 20, 195202	10
1130	Electrical Transport Properties of Ni ₉ Ti ₅ Catalyzed Multi wall Carbon Nanotubes Film. 2009 , 2009, 1-8	2
1129	Adsorption of alkanes, alkenes and their mixtures in single-walled carbon nanotubes and bundles. 2009 , 35, 90-99	14
1128	SpinOrbit Interaction in Single Wall Carbon Nanotubes: Symmetry Adapted Tight-Binding Calculation and Effective Model Analysis. 2009 , 78, 074707	99
1127	Effect of FeOx loaded on CoOx/Al ₂ O ₃ catalyst for the formation of thin-walled carbon nanotubes. 2009 , 63, 1428-1430	8
1126	Functional Covalent Chemistry of Carbon Nanotube Surfaces. 2009 , 21, 625-642	221
1125	Ultrathin Carbon Nanotube Mat Electrodes for Enhanced Amperometric Detection. 2009 , 21, 3105-3109	48
1124	Influence of alternating L-/D-amino acid chiralities and disulfide bond geometry on the capacity of cysteine-containing reversible cyclic peptides to disperse carbon nanotubes. 2009 , 92, 212-21	9
1123	Electrical properties of boron-doped MWNTs synthesized by hot-filament chemical vapor deposition. 2009 , 469, 1002-1004	7
1122	First-principles study of narrow single-walled GaN nanotubes. 2009 , 373, 367-370	18
1121	Electrical and mechanical properties of carbon nanotube reinforced copper nanocomposites fabricated by electroless deposition process. 2009 , 513-514, 247-253	238
1120	Realization, characterization and functionalization of lipidic wrapped carbon nanotubes. 2009 , 11, 477-484	11
1119	Crucial functionalizations of carbon nanotubes for improved drug delivery: a valuable option?. 2009 , 26, 746-69	138

1118	Topology and Geometry of Smectic Order on Compact Curved Substrates. 2009 , 134, 487-536	12
1117	Functionalization of BN nanotubes with free radicals: electroaffinity-independent configuration and band structure engineering. 2009 , 4, 378-382	5
1116	Sidewall fluorination and hydrogenation of single-walled carbon nanotubes: a density functional theory study. 2009 , 4, 393-397	1
1115	Vertically aligned carbon nanotubes from natural precursors by spray pyrolysis method and their field electron emission properties. 2009 , 94, 51-56	13
1114	Description of band structures of armchair nanotubes using the symmetry-adapted linear augmented cylindrical wave method. 2009 , 246, 140-146	3
1113	Mass separation of metallic and semiconducting single-wall carbon nanotubes using agarose gel. 2009 , 246, 2490-2493	17
1112	Decorated carbon nanotubes with unique oxygen sensitivity. 2009 , 1, 500-6	44
1111	Band structure of armchair nanotubes determined by the linear augmented cylindrical wave method with taking into account screw and rotational symmetry. 2009 , 424, 10-13	1
1110	Electronic properties of zero-dimensional finite-sized nanographene. 2009 , 404, 305-309	3
1109	A full spd tight-binding treatment for electronic bands of graphitic tubes. 2009 , 149, 82-86	17
1108	Effects of inter wall hopping on the electronic properties of double-wall carbon nanotubes. 2009 , 149, 491-495	2
1107	Mechanical properties of hard Cr/MWNT composite coatings. 2009 , 203, 3610-3613	20
1106	Study on effect of oxygen adsorption on characteristics of field electron emission from aligned carbon nanotubes grown by plasma-enhanced hot filament chemical vapor deposition. 2009 , 83, 1414-1418	9
1105	Aqueous stability of oxidized carbon nanotubes and the precipitation by salts. 2009 , 165, 1239-42	52
1104	Strong effects of substitute nitrogen-doping on linear optical absorption spectra of zigzag carbon nanotubes. 2009 , 404, 4090-4094	8
1103	Highly dispersed Pt nanoparticles immobilized on 1,4-benzenediamine-modified multi-walled carbon nanotube for methanol oxidation. 2009 , 333, 300-3	23
1102	Influence of electric fields on magnetization of achiral carbon tori. 2009 , 41, 537-542	2
1101	Preparation and photocatalytic ability of highly defective carbon nanotubes. 2009 , 182, 2521-2525	45

1100	Dispersions, novel nanomaterial sensors and nanoconjugates based on carbon nanotubes. 2009 , 150, 63-89	79
1099	Energetics and electronic structure of semiconducting nanotubes adsorbed on . 2009 , 474, 302-306	7
1098	Formation of graphene nanostructures on diamond nanowire surfaces. 2009 , 483, 128-132	15
1097	Fabrication of the single-wall carbon nanotube compound polymer film electrode and the simultaneous electrochemical behavior of aminophenol isomers. 2009 , 54, 7531-7535	33
1096	The geometrical and electronic structures of open-end fully functionalized single-walled carbon nanotubes. 2009 , 9, 352-358	22
1095	Optimum degree of functionalization for carbon nanotubes. 2009 , 9, 1146-1150	70
1094	Electrochemical doping of single-walled carbon nanotubes in double layer capacitors studied by in situ Raman spectroscopy. 2009 , 47, 38-52	50
1093	Dispersion and thermal conductivity of carbon nanotube composites. 2009 , 47, 53-57	135
1092	Scanning tunneling microscopy observation of circular electronic superstructures on multiwalled carbon nanotubes functionalised by nitric acid. 2009 , 47, 764-768	5
1091	Transport properties of hot-pressed bulk carbon nanotubes compacted by spark plasma sintering. 2009 , 47, 1135-1140	23
1090	Electrochemistry at carbon nanotubes: perspective and issues. 2009 , 6886-901	255
1089	First-principles study for transport properties of defective carbon nanotubes with oxygen adsorption. 2009 , 69, 375-382	10
1088	Electron transport in nanotube-ribbon hybrids. 2009 , 70, 497-505	4
1087	Exciton-phonon coupling strength in single wall carbon nanotubes. 2009 , 70, 469-473	2
1086	Electronic properties and quantum transport in Graphene-based nanostructures. 2009 , 72, 1-24	144
1085	The electronic properties of graphene. 2009 , 81, 109-162	17608
1084	First-principles calculation of chiral current and quantum self-inductance of carbon nanotubes. 2009 , 80,	7
1083	Intrinsic dipole moment on the capped carbon nanotubes. 2009 , 80,	7

1082	Electrophysical properties of poly(N-vinylcarbazole)-carbon nanotubes composite films. 2009 , 51, 182-186	6
1081	Nanomechanical properties and phase transitions in a double-walled (5,5)@(10,10) carbon nanotube: ab initio calculations. 2009 , 108, 621-628	23
1080	An electromechanical nanothermometer based on thermal vibrations of carbon nanotube walls. 2009 , 51, 1306-1314	3
1079	Fabrication and Characterization of Indium Tin Oxide-Carbon Nanotube Nanocomposites. 2009 , 113, 15538-15543	6
1078	First-Principles Study of Chemisorption of Oxygen and Aziridine on Graphitic Nanostructures. 2009 , 113, 14721-14726	20
1077	Continuous Separation of Metallic and Semiconducting Carbon Nanotubes Using Agarose Gel. 2009 , 2, 125002	103
1076	Raman Spectroscopy and Low-Temperature Transport Measurements of Individual Single-Walled Carbon Nanotubes with Varying Thickness. 2009 , 113, 15398-15404	6
1075	A Micromechanics Model for the Electrical Conductivity of Nanotube-Polymer Nanocomposites. 2009 , 43, 917-941	141
1074	Molecular dynamics and phase transition in one-dimensional crystal of C(60) encapsulated inside single wall carbon nanotubes. 2009 , 3, 3878-83	31
1073	Dielectrophoretic assembly of high-density arrays of individual graphene devices for rapid screening. 2009 , 3, 1729-34	69
1072	Morphology influence of the oxidation kinetics of carbon nanofibers. 2009 , 51, 926-930	14
1071	Immobilization of DNA on nano-hydroxyapatite and their interaction with carbon nanotubes. 2009 , 159, 238-245	26
1070	High-field electrothermal transport in metallic carbon nanotubes. 2009 , 80,	11
1069	Raman spectroscopy of strained single-walled carbon nanotubes. 2009 , 6902-18	60
1068	Thermal boundary resistances of carbon nanotubes in contact with metals and polymers. 2009 , 9, 3805-9	77
1067	Nanomaterial-Based Label-Free Aptasensors. 139-158	
1066	Carbon Nanotubes: Synthesis, Properties, and Applications. 2009 , 27, 107-125	99
1065	Layered Titanium Oxide Nanosheet and Ultrathin Nanotubes: A First-Principles Prediction. 2009 , 113, 13610-13615	39

1064	Carbon Nanotube Electronics. 2009 ,	14
1063	Nanostructured Supported Catalysts for Low-Temperature Fuel Cells. 2009 , 1, 173-231	3
1062	Development of carbon nanotube based spectrum infrared sensors. 2009 ,	1
1061	Carbon nanotube-nanocrystal heterostructures. 2009 , 38, 1076-98	233
1060	The Investigation of Band Gap Changes of SWCNTs using a Non-orthogonal Tight Binding Model. 2009 , 17, 99-108	1
1059	A study of preferential growth of carbon nanotubes with semiconducting behavior grown by plasma-enhanced chemical vapor deposition. 2009 , 106, 073705	22
1058	Carbon nanotubes and nanotube composites for nonlinear optical devices. 2009 , 19, 7425	182
1057	Magnetoconductance of graphene nanoribbons. 2009 , 89, 697-709	23
1056	Electrochemical Corrosion Behavior of Carbon Nanotube-Doped Hard Chromium Coatings Electrodeposited from Cr(III) Baths. 2009 , 156, C123	2
1055	Encyclopedia of Complexity and Systems Science. 2009 , 9137-9158	
1054	A feasibility study of preparing carbon nanotubes by using a metal dusting process. 2009 , 18, 324-327	6
1053	Feasibility study of high performance field emitter pattern with the horizontally oriented carbon nanotubes by electrophoresis. 2009 , 18, 520-523	3
1052	Platinum and Ruthenium nanoparticles decorated multi walled carbon nanotubes as electrodes for polymer electrolyte membrane fuel cells. 2009 , 18, 497-500	24
1051	Density of States of Single-Walled Carbon Nanotubes Grown on Metal Tip Apex. 2009 , 2, 035005	9
1050	Computational Simulations on Heat Conduction in Carbon Nanotubes. 2009 , 73, 583-588	
1049	Carbon Nanotubes and Related Structures. 2009 , 441-491	
1048	J-E characteristics of Ni-catalysed multiwalled carbon nanotubes. 2009 , 2, 226	
1047	Achievements and challenges in the delivery of bioactive molecules by nano-carbon-based systems. 2010 , 1, 267	1

1046	Coulombic Dragging and Mechanical Propelling of Molecules in Nanofluidic Systems. 2010 , 117-149	
1045	Epoxy/Carbon Nanotube Nanocomposites. 2010 , 185-211	4
1044	Formation of Condensed Particles in Premixed Flames Catalyzed by Metal Carbonyls. 2010 , 224, 715-727	0
1043	Mechanically changed band gap of single walled carbon nanotube: a third neighbor tight-binding approach. 2010 , 8,	2
1042	Anisotropic tight-binding model applied to zigzag ultra-small nanotubes. 2010 , 74, 527-533	6
1041	Low-energy electron transmission in a partially unzipped zigzag nanotube. 2010 , 77, 433-440	5
1040	Tailoring Properties of Carbon Nanotube Dispersions and Nanocomposites Using Temperature-Responsive Copolymers of Pyrene-Modified Poly(N-cyclopropylacrylamide). 2010 , 43, 9447-9453 ²¹	
1039	Two chirality classes of ac quantum transport in metallic carbon nanotubes. 2010 , 81,	13
1038	Chiral currents in gold nanotubes. 2010 , 81,	12
1037	Electronic states of graphene nanoribbons and analytical solutions. 2010 , 11, 054504	255
1036	Deformation and transfer doping of a single-walled carbon nanotube adsorbed on metallic substrates. 2010 , 81,	13
1035	Influence of screw configuration, residence time, and specific mechanical energy in twin-screw extrusion of polycaprolactone/multi-walled carbon nanotube composites. 2010 , 70, 2045-2055	184
1034	Molecular dynamics simulation of nanoscale liquid flows. 2010 , 9, 1011-1031	112
1033	Strain effects in graphene and graphene nanoribbons: The underlying mechanism. 2010 , 3, 545-556	138
1032	Effect of Temperature Gradient Direction in the Catalyst Nanoparticle on CNTs Growth Mode. 2010 , 5, 1393-1402	7
1031	Exploring the structural and electronic properties of nitrogen-containing exohydrogenated carbon nanotubes: a quantum chemistry study. 2010 , 21, 573-581	31
1030	Remarkable diversity of carbon-carbon bonds: structures and properties of fullerenes, carbon nanotubes, and graphene. 2010 , 21, 1155-1169	108
1029	Molecular Devices Based on Fullerenes and Carbon Nanotubes. 2010 , 229-259	

1028	Scanning Photoelectron Microscopy for the Characterization of Novel Nanomaterials. 2010 , 79-118	
1027	Microwave plasma chemical vapor deposition synthesis of boron-doped carbon nanotube. 2010 , 470, S608-S609	8
1026	Linear optical response of carbon nanotubes under axial magnetic field. 2010 , 42, 1850-1860	10
1025	Kohn anomaly in Raman spectroscopy of single wall carbon nanotubes. 2010 , 42, 2005-2015	28
1024	Optical absorption of zigzag single walled boron nitride nanotubes. 2010 , 43, 312-318	6
1023	Atomic-scale characterization of silicon diffusion on carbon nanotubes. 2010 , 43, 610-613	2
1022	A systematic procedure for determining the chiral indices of multi-walled carbon nanotubes using electron diffraction--each and every shell. 2010 , 111, 66-72	19
1021	Ab initio density functional studies of the restructuring of graphene nanoribbons to form tailored single walled carbon nanotubes. 2010 , 48, 1153-1158	21
1020	Substrate-free synthesis of large area, continuous multi-layer graphene film. 2010 , 48, 2394-2400	22
1019	Structure and electronic properties of AgX (X=Cl, Br, I)-intercalated single-walled carbon nanotubes. 2010 , 48, 2708-2721	68
1018	Autothermal Reforming of CH ₄ and C ₃ H ₈ to Syngas in a Fluidized-Bed Reactor. 2010 , 31, 1115-1121	4
1017	Metal/semiconductor separation of single-wall carbon nanotubes by selective adsorption and desorption for agarose gel. 2010 , 247, 2867-2870	20
1016	Sorting single-wall carbon nanotubes combining gel chromatography and density-gradient ultracentrifugation. 2010 , 247, 2746-2749	5
1015	Davydov's solitons in zigzag carbon nanotubes. 2010 , 110, 11-24	3
1014	Enrichment of (8,4) single-walled carbon nanotubes through coextraction with heparin. 2010 , 6, 110-8	27
1013	Diameter- and metallicity-selective enrichment of single-walled carbon nanotubes using polymethacrylates with pendant aromatic functional groups. 2010 , 6, 1311-20	13
1012	. 2010 ,	117
1011	In Situ Probing of Oxygen-Containing Groups on Acid-treated Carbon Nanofibers using Aromatic Molecules. 2010 ,	

1010	Chemical Functionalization of Graphene Nanoribbons. 2010 , 2010, 1-7		38
1009	Coherent Phonons in Carbon Nanotubes. 2010 , 53, 317-326		4
1008	Optical Deposition of Carbon Nanotubes for Fiber-based Device Fabrication. 2010 ,		6
1007	Realization of Highly Controllable Electrolysis Process by Application of Carbon Nanotubes in Field Effect Transistors. 2010 , 1258, 1		
1006	Dielectrophoretic addressable deposition of arc-SWCNTs for high-throughput screening FET arrays. 2010 ,		
1005	Determination of the chiralities of isolated carbon nanotubes during superplastic elongation process. <i>Applied Physics Letters</i> , 2010 , 97, 051905	3-4	16
1004	Dispersion and Separation of Single-Walled Carbon Nanotubes. 2010 , 365-383		0
1003	Modeling SWCNT Bandgap and Effective Mass Variation Using a Monte Carlo Approach. 2010 , 9, 184-193		42
1002	Improved carbon nanotube supported Pt nanocatalysts with lyophilization method. 2010 ,		
1001	ELECTRON-PHONON INTERACTION IN CARBON NANOTUBES. 2010 , 24, 2947-2954		11
1000	The study of carbon nanotube's length in reference to its thermal conductivity by molecular dynamics approach. 2010 ,		2
999	The Optical Properties of Single-Walled Carbon Nanotubes in the Ultraviolet Region. 2010 , 49, 02BB01		
998	Asymmetrical Electronic Structure of Folded Graphene. 2010 , 79, 033702		8
997	Roles of radical characters of pristine and nitrogen-substituted hydrographene in dioxygen bindings. 2010 , 133, 174703		6
996	Soliton trap in strained graphene nanoribbons. 2010 , 12, 103015		15
995	A review on biomedical applications of single-walled carbon nanotubes. 2010 , 17, 10-24		158
994	Energetics and Electronic Structure of Ultimate Silicon Nanowire Confined in Nanospace. 2010 , 49, 065001		2
993	The concept of a novel hybrid smart composite reinforced with radially aligned zigzag carbon nanotubes on piezoelectric fibers. 2010 , 19, 035008		11

992	The impact of carbon nanotubes diameter on their thermal conductivity - Non-equilibrium molecular dynamics approach. 2010,	2
991	Electrochemistry. 53-75	
990	Recent Developments in Multifunctional Nanocomposites Using Carbon Nanotubes. 2010, 63,	130
989	Functionalization of Carbon Nanotubes for Nanoelectronic and Photovoltaic Applications. 2010, 333-363	1
988	Fundamental Importance of Background Analysis in Precise Characterization of Single-Walled Carbon Nanotubes by Optical Absorption Spectroscopy. 2010, 114, 10077-10081	21
987	Carbon nanotube-based electron field emitters. 2010, 53, 863-892	85
986	TRANSPORT PROPERTIES OF SINGLE-WALLED CARBON NANOTUBE WITH INTRAMOLECULAR JUNCTIONS. 2010, 24, 2445-2455	6
985	Carbon nanotube-based electron field emitters. 2010, 180, 897	22
984	Photophysics. 77-101	1
983	Linear augmented cylindrical wave Green's function method for electronic structure of nanotubes with substitutional impurities. 2010, 82,	31
982	Towards chirality-pure carbon nanotubes. 2010, 2, 1919-29	60
981	Sandwiched graphene--membrane superstructures. 2010, 4, 229-34	223
980	Transparent organic p-dopant in carbon nanotubes: bis(trifluoromethanesulfonyl)imide. 2010, 4, 6998-7004	51
979	Influence of Aromatic Environments on the Physical Properties of β -Carotene. 2010, 114, 2524-2530	11
978	The fermi level dependent electronic properties of the smallest (2,2) carbon nanotube. 2010, 10, 3290-6	8
977	Selective parallel integration of individual metallic single-walled carbon nanotubes from heterogeneous solutions. 2010, 26, 10419-24	14
976	Chemical approaches towards single-species single-walled carbon nanotubes. 2010, 2, 1901-18	38
975	Surfactant assisted dispersion of functionalized multi-walled carbon nanotubes in aqueous media. 2010, 41, 1038-1046	128

974	Carbon Nanotubes Under High Pressure Probed by Resonance Raman Scattering. 2010 , 435-446	4
973	The role of the geometry in multiwall carbon nanotube interconnects. 2010 , 108, 073704	4
972	Electronic transport between graphene layers covalently connected by carbon nanotubes. 2010 , 4, 7596-602	109
971	Carbon nanostructure-based field-effect transistors for label-free chemical/biological sensors. 2010 , 10, 5133-59	129
970	Modification of the structure of multi-walled carbon nanotubes by choice of catalyst and their electro-chemical behavior. 2010 , 120, 484-489	3
969	Removal of mercury from water by multi-walled carbon nanotubes. 2010 , 61, 591-8	73
968	Spin-orbit effects in carbon-nanotube double quantum dots. 2010 , 82,	32
967	Electronic-structure-dependent bacterial cytotoxicity of single-walled carbon nanotubes. 2010 , 4, 5471-9	392
966	Tight-binding model for carbon nanotubes from ab initio calculations. 2010 , 22, 275503	14
965	Understanding the sensor response of metal-decorated carbon nanotubes. 2010 , 10, 958-63	143
964	The effect of magnetic field and disorders on the electronic transport in graphene nanoribbons. 2010 , 22, 375303	7
963	Controlling the volumetric parameters of nitrogen-doped carbon nanotube cups. 2010 , 2, 1105-8	10
962	Recent advancements in boron nitride nanotubes. 2010 , 2, 2028-34	180
961	Definitive Band Gaps for Single-Wall Carbon Nanotubes. 2010 , 1, 2946-2950	149
960	Synthesis of bandgap-controlled semiconducting single-walled carbon nanotubes. 2010 , 4, 1012-8	49
959	Approximate quantum mechanical method for describing excitations and related properties of finite single-walled carbon nanotubes. 2010 , 81,	8
958	Dispersion of Multi-Walled Carbon Nanotubes in Alumina Sol for Carbon Nanotube/Alumina Composite Fiber Preparation. 2011 , 32, 1129-1134	4
957	Structural and electronic properties of graphene nanotube-nanoribbon hybrids. 2011 , 13, 3925-31	5

956	Separation and enrichment of semiconducting carbon nanotubes and its application to highly sensitive carbon nanotube gas sensor. 2011,	2
955	Separation of Metallic and Semiconducting Single-Wall Carbon Nanotube Solution by Vertical Electric Field. 2011, 115, 22827-22832	34
954	Conductance modulation in graphene nanoribbon under transverse asymmetric electric potential. 2011, 109, 073704	3
953	Irregular Modulation of Density-of-States of Nano-Peapods Encapsulating 82 Metallofullerenes. 2011, 115, 3968-3972	4
952	Selective dispersion of high purity semiconducting single-walled carbon nanotubes with regioregular poly(3-alkylthiophene)s. 2011, 2, 541	291
951	Energy Harvesting for Bio-sensing by Using Carbon Nanotubes. 2011, 195-216	
950	Electrical conductivity enhancement of polymer/multiwalled carbon nanotube (MWCNT) composites by thermally-induced defunctionalization of MWCNTs. 2011, 3, 2204-8	47
949	Electron Wave Function in Armchair Graphene Nanoribbons. 2011, 80, 044710	23
948	Functionalized Carbon Nanotubes: (X-CNTs). 2011, 113-161	0
947	Violation of the condon approximation in semiconducting carbon nanotubes. 2011, 5, 5233-41	45
946	Ferromagnetism induced by intrinsic defects and boron substitution in single-wall SiC nanotubes. 2011, 115, 9987-92	9
945	Adsorbability of Single-Wall Carbon Nanotubes onto Agarose Gels Affects the Quality of the Metal/Semiconductor Separation. 2011, 115, 21723-21729	21
944	Large-scale integration of single-walled carbon nanotubes and graphene into sensors and devices using dielectrophoresis: A review. 2011, 26, 1561-1571	20
943	RANDOM WALK TO GRAPHENE. 2011, 25, 4055-4080	10
942	Resonance energy transfer (RET)-Induced intermolecular pairing force: a tunable weak interaction and its application in SWNT separation. 2011, 115, 8155-66	7
941	Bulk synthesis of large diameter semiconducting single-walled carbon nanotubes by oxygen-assisted floating catalyst chemical vapor deposition. 2011, 133, 5232-5	118
940	Nanostructured Materials for Engineering Applications. 2011,	19
939	Chirality-dependent transport in double-walled carbon nanotube assemblies: the role of inner tubes. 2011, 5, 7547-54	27

938	Marked adsorption irreversibility of graphitic nanoribbons for CO ₂ and H ₂ O. 2011 , 133, 14880-3		55
937	Transversal electric field effect in multilayer graphene nanoribbon. <i>Applied Physics Letters</i> , 2011 , 98, 263105	3-4	15
936	Discovery of surfactants for metal/semiconductor separation of single-wall carbon nanotubes via high-throughput screening. 2011 , 133, 17610-3		38
935	Broadband Electromagnetic Absorbers Using Carbon Nanostructure-Based Composites. 2011 , 59, 2633-2646		193
934	Electronic properties of Cs-intercalated single-walled carbon nanotubes derived from nuclear magnetic resonance. 2011 , 13, 053045		7
933	Nano-Bio-Sensing. 2011 ,		6
932	First-Principles Study of Water Confined in Single-Walled Silicon Carbide Nanotubes. 2011 , 115, 17255-17264		18
931	Electrochemistry on Carbon-Nanotube-Modified Surfaces. 2011 , 117-168		
930	Physics and applications of aligned carbon nanotubes. 2011 , 60, 553-678		108
929	Nobel Lecture: Random walk to graphene*. 2011 , 83, 851-862		286
928	High-Efficiency Separation of Single-Wall Carbon Nanotubes by Self-Generated Density Gradient Ultracentrifugation. 2011 , 115, 1752-1756		36
927	Transport measurements on carbon nanotubes structurally characterized by electron diffraction. 2011 , 84,		4
926	Carbon nanotubes: engineering biomedical applications. 2011 , 104, 175-245		37
925	Fullerenes, carbon nanotubes, and graphene for molecular electronics. 2012 , 312, 127-74		19
924	Remote Plasma Chemical Vapor Deposition of Carbon Nanotubes and Analysis of Plasma Effect. 2011 , 39, 3133-3139		4
923	Macroscopic wall number analysis of single-walled, double-walled, and few-walled carbon nanotubes by X-ray diffraction. 2011 , 133, 5716-9		32
922	Quantum Theory of Thermoelectric Power (Seebeck Coefficient). 2011 ,		
921	Carbon Nanotube Fabrication: Patent Analysis. 2011 ,		0

920	One-Dimensional Crystals inside Single-Walled Carbon Nanotubes: Growth, Structure and Electronic Properties. 2011,	5
919	Basics of Carbon Nanotube and Its Applications-High expectations of technological innovation by carbon nanotube as new carbon material, and facing challenges for its practical applications-. 2011, 127, 61-68	
918	. 2011,	359
917	Nitrogen-Containing Carbon Nanotubes. A Theoretical Approach. 2011,	1
916	Polymer/Carbon Nanotube Nanocomposites. 2011,	45
915	Mobility of acid-treated carbon nanotubes in water-saturated porous media. 2011, 40, 1991-4	2
914	Influence of growth temperature on the structure, composition and bonding character of nitrogen-doped multiwalled carbon nanotubes. 2011, 26, 443-448	7
913	Thermodynamics of the Exchange of Solubilizers on Single-walled Carbon Nanotubes. 2011, 40, 730-732	9
912	Nanomanufacturing of multi-walled carbon nanotubes enhanced electrochemical electrode through surface micromachining. 2011, 7, 104	1
911	Carbon: Nanotubes. 2011,	
910	Theoretical study of adsorption of lithium atom on carbon nanotube. 2011, 1, 042106	22
909	Enhanced electrical conduction in aluminum wires coated with carbon nanotubes. 2011, 65, 271-274	8
908	. 2011, 5, 18-24	11
907	Recent applications of carbon nanotubes in hydrogen production and storage. 2011, 90, 3123-3140	121
906	A review of methods for the accurate determination of the chiral indices of carbon nanotubes from electron diffraction patterns. 2011, 49, 4961-4971	32
905	Foundations of Plasmonics. 2011, 60, 799-898	96
904	Double-walled carbon nanotubes: challenges and opportunities. 2011, 3, 503-18	138
903	Energetics and electronic structure of semiconducting single-walled carbon nanotubes adsorbed on metal surfaces. 2011, 84,	9

902	Cluster modeling of three types of double-walled armchair silicon carbide nanotubes. 2011 , 64, 353-363	4
901	Chapter 1:Carbon Nanotubes. 2011 , 1-242	2
900	Modeling electrical conductivities of nanocomposites with aligned carbon nanotubes. 2011 , 22, 485704	101
899	From metal/semiconductor separation to single-chirality separation of single-wall carbon nanotubes using gel. 2011 , 5, 301-306	44
898	Vibrational mode assignments for bundled single-wall carbon nanotubes using Raman spectroscopy at different excitation energies. 2011 , 102, 309-317	13
897	Low-energy electronic structures of nanotube–nanoribbon hybrid systems. 2011 , 182, 68-70	3
896	Carbon- and silicon-capped silicon carbide nanotubes: An ab initio study. 2011 , 375, 1817-1823	32
895	On the purification of CVD grown boron doped single-walled carbon nanotubes. 2011 , 248, 2504-2507	6
894	Separation of single-walled carbon nanotubes with aromatic group functionalized polymethacrylates and building blocks contribution to the enrichment. 2011 , 49, 949-960	3
893	Noncovalent modification of carbon nanotubes by conjugated polymer: A theoretical study. 2011 , 111, 3897-3903	1
892	Biomedical Applications of Single-Walled Carbon Nanotubes. 2011 , 481-528	
891	References. 2011 , 335-349	
890	Zufallswege zum Graphen (Nobel-Aufsatz). 2011 , 123, 7100-7122	21
889	Random walk to graphene (Nobel lecture). 2011 , 50, 6966-85	118
888	Carbon nanotube length reduction techniques, and characterisation of oxidation state using quasi-elastic light scattering. 2011 , 49, 862-868	15
887	The decoration of multi-walled carbon nanotubes with metal nanoparticles of uniform size using MeV electron beam irradiation. 2011 , 49, 1692-1698	17
886	Comparison of electronic and magnetic properties of Fe, Co and Ni nanowires encapsulated in beryllium oxygen nanotubes. 2011 , 963, 273-278	17
885	Preparation and characterization of a graphite electrode containing carbon nanotubes grown in situ by flame synthesis. 2011 , 56, 5205-5209	2

884	Effect of the dangling bond on the electronic and magnetic properties of BN nanoribbon. 2011 , 72, 256-262	31
883	Electron momentum density in multiwall carbon nanotubes. 2011 , 43, 1084-1086	8
882	Effects of axial magnetic field on the electronic and optical properties of boron nitride nanotube. 2011 , 43, 1631-1637	13
881	Band gap of carbon nanotubes under combined uniaxial/torsional strain. 2011 , 43, 1774-1778	8
880	Polymer/carbon nanotube composites for liquid sensing: Model for electrical response characteristics. 2011 , 52, 2276-2285	52
879	Manufacturing and tribological properties of copper matrix/carbon nanotubes composites. 2011 , 270, 382-394	62
878	A review on technological aspects influencing commercialization of carbon nanotube sensors. 2011 , 157, 1-7	111
877	Effects of an electric field on the electronic and optical properties of zigzag boron nitride nanotubes. 2011 , 151, 259-263	19
876	On the existence and stability of double-walled armchair silicon carbide nanotubes. 2011 , 151, 430-435	26
875	In-situ Crystal Structure Analysis of Cobalt Nanocompounds Synthesizing Graphite at High Temperatures. 2011 , 50, 015103	1
874	Spin Berry phase in anisotropic topological insulators. 2011 , 84,	31
873	Enhancement of nonlocal exchange near isolated band crossings in graphene. 2011 , 84,	24
872	Weak topological insulator with protected gapless helical states. 2011 , 84,	41
871	Electronic structure of a 4- μ m diameter carbon nanotube placed on a patterned hydrogen-terminated Si(001):3 \times 3 surface and the effect of electric field. 2011 , 83,	1
870	Origin of the n-type transport behavior of azafullerene encapsulated single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2011 , 99, 053105	3-4 4
869	Isospectral but physically distinct: Modular symmetries and their implications for carbon nanotori. 2011 , 84,	3
868	Biexcitons in semiconducting single-walled carbon nanotubes. 2011 , 83,	16
867	Increasing the efficiency of charge extraction limited poly-(3-hexylthiophene):[6,6] phenyl C61 butyric acid methyl ester solar cells using single walled carbon nanotubes with metallic characteristics. 2011 , 109, 124908	20

866	Measurement of shear stress between single-wall carbon nanotubes and substrates using NEMS devices. 2011 ,	2
865	Printing technology and advantage of purified semiconducting carbon nanotubes for thin film transistor fabrication on plastic films. 2011 ,	1
864	The effect of sintering temperature on the mechanical properties of a Cu/CNT nanocomposite prepared via a powder metallurgy method. 2011 , 2, 015006	27
863	Purity-enhanced bulk synthesis of thin single-wall carbon nanotubes using iron-copper catalysts. 2011 , 22, 395602	8
862	The effect of a transverse electric field on the electronic properties of an armchair carbon nanoscroll. 2011 , 91, 1557-1567	8
861	PHOTON-ASSISTED TRANSPORT IN CARBON NANOTUBE MESOSCOPIC DEVICE. 2011 , 10, 419-426	2
860	THE EFFECTS OF CO-DOPING OF B AND N ON THE ELECTRONIC TRANSPORT OF SINGLE-WALLED CARBON NANOTUBES. 2011 , 25, 1211-1218	2
859	AC Power Consumption of Single-Walled Carbon Nanotube Interconnects: Non-Equilibrium Green's Function Simulation. 2012 , 51, 045104	1
858	Energy Band Calculation of Spiral Single-Walled Carbon Nanotubes. 2012 , 535-537, 341-344	0
857	Heat-driven size manipulation of Fe catalytic nanoparticles for precise control of single-walled carbon nanotube diameter. 2012 , 45, 255302	5
856	Electrochemical Degradation Characteristics of Refractory Organic Pollutants in Coking Wastewater on Multiwall Carbon Nanotube-Modified Electrode. 2012 , 2012, 1-5	1
855	Properties of Reaction Intermediates from Unzipping Nanotubes via the Diketone Formation: A Computational Study. 2012 , 2012, 1-10	2
854	Dielectrophoretic Assembly of Semiconducting Carbon Nanotubes Separated and Enriched by Spin Column Chromatography and Its Application to Gas Sensing. 2012 , 51, 045102	4
853	Recovery Force of Carbon Nanotube Shape Memory. 2012 , 51, 06FD22	1
852	Electric Field Enhancement by Laser Light Focused at Electrode Edges for Controlled Positioning of Carbon Nanotubes. 2012 , 51, 06FD26	1
851	Thin-Film Transistors and Circuits Based on Carbon Nanotubes. 2012 , 8, 54-60	3
850	The specific heat and the radial thermal expansion of bundles of single-walled carbon nanotubes. 2012 , 38, 523-528	26
849	Electrochemical reaction of riboflavin at carbon nanotubes/Ni composite modified electrode fabricated by composite electrodeposition of carbon-nanotubes and Ni matrix. 2012 , 226, 81-85	0

848	Electrical transition of (3,3) carbon nanotube on patterned hydrogen terminated Si(001)-2 [1] driven by electric field. 2012 , 111, 123717	1
847	Torsional electromechanical systems based on carbon nanotubes. 2012 , 75, 116501	12
846	Specific Binding of Alzheimer's A β Peptide Fibrils to Single-Walled Carbon Nanotubes. 2012 , 2, 11	6
845	Comparison of computational methods in the electronic structure of carbon nanotubes of single walled (8,0). 2012 , 12, 383-389	1
844	Carbon nanotube structure, synthesis, and applications. 1-37	2
843	Topological insulator Nanotubes [2012, 400, 042021	2
842	Print Fabrication and Characterization of CNT Transistors on Plastic Films. 2012 , 25, 281-284	1
841	Electronic and optical properties of bundled single-walled carbon nanotubes investigated by the first-principles method. 2013 , 184, 1077-1085	7
840	Control over the performance characteristics of a passively mode-locked erbium-doped fibre ring laser. 2013 , 43, 691-698	2
839	Magnetic silicon carbide nanotubes by 3d transition metal atom functionalization. 2013 , 377, 2147-2153	9
838	Nanotechnology Safety in the Marine Industry. 2013 , 161-174	2
837	Carbon in Catalysis. 2013 , 56, 103-185	13
836	Dispersing single-walled carbon nanotubes in ionic liquids: a quantitative analysis. 2013 , 3, 20034	24
835	Bioimpact of Carbon Nanomaterials. 2013 , 193-271	4
834	Numerical study on thermal conductivity of nanomaterials - coarse Grained Molecular Dynamics Approach. 2013 ,	0
833	Fundamental optical properties of carbon nanotubes and graphene. 2013 , 3-25	6
832	Carbon nanotube solar cells. 2013 , 241-269	8
831	An atomistic-based foliation model for multilayer graphene materials and nanotubes. 2013 , 61, 235-253	15

830	Fundamental optical processes in armchair carbon nanotubes. 2013 , 5, 1411-39	46
829	Macroscopic self-standing SWCNT fibres as efficient electron emitters with very high emission current for robust cold cathodes. 2013 , 52, 356-362	22
828	Adsorption of transition metal atoms (Co and Ni) on zigzag graphene nanoribbon. 2013 , 110, 235-239	16
827	A luminescent supramolecular assembly composed of a single-walled carbon nanotube and a molecular magnet precursor. 2013 , 15, 1	4
826	Properties and Devices of Single One-Dimensional Nanostructure: Application of Scanning Probe Microscopy. 2013 , 339-358	
825	Properties of a field emission lighting plane employing highly crystalline single-walled carbon nanotubes fabricated by simple processes. 2013 , 65, 228-235	24
824	Bandstructure modulation for Si-h and Si-g nanotubes in a transverse electric field: Tight binding approach. 2013 , 63, 79-90	8
823	Introduction. 2013 , 28, 909-911	1
822	Optical absorption of zigzag single walled boron nitride nanotubes in axial magnetic field. 2013 , 25, 70-77	1
821	Density functional theory study on configurations and electronic properties of periodic nanoridges. 2013 , 77, 312-315	1
820	Linear Optical Response of Silicon Nanotubes Under Axial Magnetic Field. 2013 , 42, 58-70	6
819	Carbon nanotubes: synthesis, structure, functionalization, and characterization. 2014 , 350, 65-109	5
818	Material drag phenomena in nanotubes. 2013 , 113, 3372-90	37
817	Thin single-wall BN-nanotubes formed inside carbon nanotubes. 2013 , 3, 1385	47
816	Understanding Interfaces in Metal-Graphitic Hybrid Nanostructures. 2013 , 4, 147-60	75
815	R-graphyne: a new two-dimensional carbon allotrope with versatile Dirac-like point in nanoribbons. 2013 , 1, 5341	90
814	Single- and double-walled carbon nanotube based saturable absorbers for passive mode-locking of an erbium-doped fiber laser. 2013 , 23, 045105	34
813	Effects of Partial Hydrogenation on the Structure and Electronic Properties of Boron Nitride Nanotubes. 2013 , 117, 22224-22231	3

812	Chirality-dependent reactivity of individual single-walled carbon nanotubes. 2013 , 9, 1379-86	33
811	Impact excitation and electron-hole multiplication in graphene and carbon nanotubes. 2013 , 46, 1348-57	31
810	Novel Excitonic Properties of Carbon Nanotube Studied by Advanced Optical Spectroscopy. 2013 , 33-70	1
809	Complications pertaining to the detection and characterization of individual and embedded single walled carbon nanotubes by scanning electron microscopy. 2013 , 5, 2790-7	2
808	A DFT study on carbon-doping at different sites of (8, 0) boron nitride nanotube. 2013 , 24, 573-581	39
807	A comparative study on carbon/silicon doping effects on electronic structure and surface electrostatic potential of (6,0) boron-nitride nanotube: a DFT investigation. 2013 , 24, 1207-1214	8
806	Carbon nanostructures for hard tissue engineering. 2013 , 3, 11058	55
805	Introduction. 2013 , 1-5	
804	Existence and stability of co-axial and meshed double-walled armchair silicon nanotubes. 2013 , 47, 237-245	7
803	Density functional theory investigation of the VIIB transition metal atoms deposited on (5,5) single-walled carbon nanotubes. 2013 , 49, 61-67	31
802	STM and STS Studies on the Density of States Modulation of 82 and Sc3C2@C80 Binary-Metallofullerene Peapods. 2013 , 117, 6966-6971	3
801	Carbon-Based Nanomaterials From a Historical Perspective. 2013 , 101, 1522-1535	43
800	Electronic and optical properties of pure and doped boron-nitride nanotube. 2013 , 410, 212-216	12
799	Limits to the magnitude of capacitance in carbon nanotube array electrode based electrochemical capacitors. <i>Applied Physics Letters</i> , 2013 , 102, 173113	3-4 22
798	Chapter 6: Metallic Single-walled Carbon Nanotubes for Electrically Conductive Materials and Devices. 2013 , 182-211	1
797	Chapter 3: Photoelectrical Responses of Carbon Nanotube Polymer Composites. 2013 , 51-71	
796	A 3N rule for the electronic properties of doped graphene. 2013 , 24, 225705	41
795	Nanoscale damping characteristics of boron nitride nanotubes and carbon nanotubes reinforced polymer composites. 2013 , 5, 12052-7	81

794	Preferential Adsorption of Zigzag Single-Walled Carbon Nanotubes on the ST-Cut Surface of Quartz. 2013 , 117, 4639-4646	3
793	Quantum light sources based on individual carbon nanotubes. 2013 , 346-385e	3
792	Carbon Nanotube FET Technology for Radio-Frequency Electronics: State-of-the-Art Overview. 2013 , 1, 9-20	70
791	Electronic properties of pristine and modified single-walled carbon nanotubes. 2013 , 56, 1047-1073	27
790	Atomic hydrogen and oxygen adsorptions in single-walled zigzag silicon nanotubes. 2013 , 15, 1	
789	Wall-Number Selectivity in Single/Double-Wall Carbon Nanotube Production by Enhanced Direct Injection Pyrolytic Synthesis. 2013 , 52, 105102	7
788	Self-ordering electron donor-acceptor nanohybrids based on single-walled carbon nanotubes across different scales. 2013 , 52, 2180-4	39
787	Resistance in single-walled carbon nanotube networks formed on gold nanoparticle templates. 2013 , 46, 245106	4
786	A Comparative Study of Three Different Chemical Vapor Deposition Techniques of Carbon Nanotube Growth on Diamond Films. 2013 , 2013, 1-9	6
785	Effects of Cs adsorption on the field emission characteristics of closed single-walled carbon nanotubes. 2013 , 31, 021802	
784	Carbon nanotube and graphene-based fiber lasers. 2013 , 121-147e	1
783	On the Phononic Bandgap of Carbon Nanotubes. 2013 , 2013, 1-4	2
782	A Metal Matrix CNTs Modified Electrode Fabricated Using Micromachining-Based Implantation Method for Improving Sensitivity and Stability. 2013 , 2013, 1-5	
781	Wideband nonlinear characteristics of random multiwalled carbon nanotubes network. 2013 , 55, 2648-2652	2
780	Nonlinear Optical Studies of SWCNT+Coproporphyrin III Hybrid Systems. 2013 , 818, 132-136	1
779	Failure of Graphdiyne: Structurally Directed Delocalized Crack Propagation. 2013 , 80,	14
778	Electrochemical studies of U(VI)/U(IV) redox reaction in 1M H ₂ SO ₄ at single-walled carbon nanotubes (SWCNTs) modified gold (Au) electrode. 2013 , 101, 399-404	3
777	Electronic Properties of Capped Carbon Nanotubes under an Electric Field: Inhomogeneous Electric-Field Screening Induced by Bond Alternation. 2013 , 52, 06GD04	4

776	Magnetic Properties of Decamethyl Fullerenes: Radical Spin Interactions in Chemically Functionalized Fullerenes. 2013 , 6, 045102	12
775	Wave-Packet Dynamics Simulation on Electronic Transport in Carbon Nanotubes with Randomly Distributed Impurities. 2013 , 52, 06GD07	3
774	Electrical Contact of Au with CNTs Deposited at Different Deposition Temperatures on Silicon Substrate. 2013 , 667, 80-85	
773	Diameter-Controlled Synthesis of Single-Walled Carbon Nanotubes. 2013 , 652-654, 151-154	1
772	Energetics and Electronic Structures of C60 Included Within [n]Cyclacene Molecules. 2013 , 82, 094717	7
771	Carbon-Based Nanomaterials. 2013 , 115-144	1
770	Steady-state and quench-dependent relaxation of a quantum dot coupled to one-dimensional leads. 2013 , 88,	12
769	Electronic and structural properties of carbon nanotubes modulated by external strain. 2013 , 113, 244308	5
768	Density Functional Theory Studying for Nicotine Adsorption on Nanotube to Predict Thermodynamic Properties. 2013 , 21, 757-764	
767	Self-Ordering Electron Donor-Acceptor Nanohybrids Based on Single-Walled Carbon Nanotubes Across Different Scales. 2013 , 125, 2236-2240	20
766	Anomalous Electric-Field Screening at the Edge Atomic Sites of Finite-Length Zigzag Carbon Nanotubes. 2013 , 6, 045101	10
765	Carbon nanotubes: an overview. 2013 , 2, 299-337	1
764	Structural Control of Carbon Nanotubes due to Magnetic Fields Applied in Preparation. 2013 , 42, 304-306	3
763	An Ab initio Study on the Convergence of Electronic Properties of SiC Nanotubes. 2013 , 3, 69-73	
762	Separation of carbon nanotubes (CNTs) by the separation method for biomolecules. 2013 , 6, 75-83	
761	Effect of Nitrogen Impurity on Electronic Properties of Boron Nanotubes. 2014 , 2014, 1-8	
760	Synthesis of Functionalized Single Graphene Sheets by Thermal Exfoliation of Graphite Oxide. 2014 , 30, 1487-1492	2
759	THE BAND-GAP AND TRUE BAND-GAP IN NOMINALLY METALLIC CARBON NANOTUBES: THE TIGHT-BINDING STUDY ON CORRUGATION EFFECT. 2014 , 28, 1450018	

- 758 3D assembly and simulation of helical optical antenna-enhanced carbon nanotube IR sensors. **2014**,
- 757 Spatial distribution of state densities dominating strain sensitivity of carbon nanotubes. **2014**,
- 756 Electronic structures of carbon nanotubes with monovacancy under an electric field. **2014**, 53, 115102 2
- 755 Electrical conductivity of metal-carbon nanotube structures: Effect of length and doping. **2014**, 37, 1047-1051 3
- 754 Preparation Process Analysis on BN Powder with High Specific Surface Area. **2014**, 692, 311-314
- 753 Buckling Behavior and Atomic Elastic Stiffness in Defective Multi-Walled Carbon Nanotube under Axial Compression. **2014**, 626, 234-239 3
- 752 A broadband slab lens antenna formed from gradient refractive index metamaterials composed of cross-shaped cells. **2014**, 56, 1124-1129 7
- 751 Plasma-Enabled Carbon Nanostructures for Early Diagnosis of Neurodegenerative Diseases. **2014**, 7, 4896-4929 8
- 750 Energetics and Electronic Structures of Carbon Nanotubes Encapsulating Polycyclic Aromatic Hydrocarbon Molecules. **2014**, 83, 124709 16
- 749 Molecular Dynamics Simulation and Continuum Shell Model for Buckling Analysis of Carbon Nanotubes. **2014**, 239-273 9
- 748 The investigation of field emission properties of defective graphene-carbon nanotube composite. **2014**, 8, 243 4
- 747 Diameter-selective alignment of carbon nanotubes on Si(001) stepped surfaces. **2014**, 140, 044713 0
- 746 A finite-length capped single-walled carbon nanotube (5, 5) under an applied electric field. **2014**, 541, 012008 2
- 745 Towards highly transparent conducting electrodes for flexible devices. **2014**,
- 744 Laser-induced nanoscale thermocapillary flow for purification of aligned arrays of single-walled carbon nanotubes. **2014**, 8, 12641-9 36
- 743 Step edge influence on barrier height and contact area in vertical heterojunctions between epitaxial graphene and n-type 4H-SiC. *Applied Physics Letters*, **2014**, 104, 073508 3-4 4
- 742 Polyarenes II. **2014**, 2
- 741 Substrate-induced band gap renormalization in semiconducting carbon nanotubes. **2014**, 4, 3609 23

740	A Hybrid Classical-Quantum Transport Model for the Simulation of Carbon Nanotube Transistors. 2014 , 36, B486-B507	5
739	Three-dimensional polymeric structures of single-wall carbon nanotubes. 2014 , 140, 204709	7
738	Analysis of slow-wave propagation in coplanar transmission lines with inkjet printed multiwalled carbon nanotubes network. 2014 , 56, 1118-1124	1
737	Novel structure and abnormal electronic properties of ultra-thin BC ₂ N nanotubes from first-principles investigation. 2014 , 616-617, 61-66	6
736	Mechanical Properties, Electronic Structures, and Potential Applications in Lithium Ion Batteries: A First-Principles Study toward SnSe ₂ Nanotubes. 2014 , 118, 28291-28298	32
735	Engineering and Applications of Carbon Materials. 2014 , 219-525	8
734	Second-order envelope equation of graphene electrons. 2014 , 195, 95-101	
733	Geometric measures of finite carbon nanotube molecules: a proposal for length index and filling indexes. 2014 , 86, 489-495	49
732	Energetics and electronic structures of C ₆₀ included within [n]cyclacene molecules: Formation processes and dynamical property of C ₆₀ . 2014 , 53, 06JD06	4
731	Characteristics and Applications of Carbon Nanotubes with Different Numbers of Walls. 2014 , 313-339	3
730	High-energy resolution electron energy-loss spectroscopy study of interband transitions characteristic to single-walled carbon nanotubes. 2014 , 20, 807-14	7
729	Transition from Tubes to Sheets: A Comparison of the Properties and Applications of Carbon Nanotubes and Graphene. 2014 , 519-568	2
728	Three-dimensional Nanotube Networks and a New Horizon of Applications. 2014 , 457-493	2
727	Tunable inkjet printed hybrid carbon nanotubes/nanocrystals light sensor. 2014 , 196, 112-116	17
726	The synthesis of single-walled carbon nanotubes with narrow diameter distribution using polymerized hemoglobin. 2014 , 69, 588-594	5
725	Preparation and characterization of poly(1-amino-9,10-anthraquinone)/multiwalled carbon nanotube nanocomposite. 2014 , 145, 267-273	4
724	Multifunctional polymer foams with carbon nanoparticles. 2014 , 39, 486-509	157
723	Influence of non-covalent functionalization of carbon nanotubes on the rheological behavior of natural rubber latex nanocomposites. 2014 , 53, 147-159	58

722	Modeling of Carbon Nanotubes, Graphene and their Composites. 2014,	9
721	K6 carbon: a metallic carbon allotrope in sp ³ bonding networks. 2014, 140, 054514	44
720	Nanotube Based Nonlinear Fiber Devices for Fiber Lasers. 2014, 20, 89-98	7
719	Carbon nanotube and graphene hybrid thin film for transparent electrodes and field effect transistors. 2014, 26, 4247-52	108
718	A theoretical and experimental exploration of the mechanism of microwave assisted 1,3-dipolar cycloaddition of pyridinium ylides to single walled carbon nanotubes. 2014, 145, 99-107	5
717	Quantitative chemistry and the discrete geometry of conformal atom-thin crystals. 2014, 8, 1136-46	24
716	Optical properties of armchair graphene nanoribbons under uniaxial strain. 2014, 251, 1252-1256	4
715	Seebeck Coefficient in Multiwalled Carbon Nanotubes. 2014, 229-246	
714	Spectroscopic signatures of topological and diatom-vacancy defects in single-walled carbon nanotubes. 2014, 16, 1479-86	12
713	Current progress on the modification of carbon nanotubes and their application in electromagnetic wave absorption. 2014, 4, 14419	103
712	Enrichment of large-diameter semiconducting SWCNTs by polyfluorene extraction for high network density thin film transistors. 2014, 6, 2328-39	128
711	Trends in Nanoscale Mechanics. 2014,	2
710	Investigation on field emission properties of graphene-carbon nanotube composites. 2014, 4, 19622	13
709	Vacancy-Induced Intramolecular Junctions and Quantum Transport in Metallic Carbon Nanotubes. 2014, 118, 22984-22990	0
708	Simulation and experimental characterization of polymer/carbon nanotubes composites for strain sensor applications. 2014, 116, 054307	54
707	Differentiation of Carbon Nanotubes with Different Chirality. 2014, 19-38	3
706	Spin-state tuning of decamethyl C60 by an electric field. 2014, 614, 10-14	5
705	Chirality dependent elastic properties of single-walled boron nitride nanotubes under uniaxial and torsional loading. 2014, 115, 064303	19

704	Multidimensional Aspects of Single-Wall Carbon Nanotube Synthesis. 2014 , 7-17	
703	A DFT study on structural stability and electronic property of VIII B transition metal-doped carbon nanocaps. 2014 , 37, 6-12	5
702	Design of red, green, blue transparent electrodes for flexible optical devices. 2014 , 22 Suppl 5, A1257-69	11
701	Theoretical study of the influence of the electric field on the electronic properties of armchair boron nitride nanoribbon. 2014 , 64, 158-164	11
700	Interpretation of Ostwald ripening of catalytic nanoparticles based on the radial breathing mode in single-walled carbon nanotubes. 2014 , 64, 183-187	2
699	Polychiral semiconducting carbon nanotube-fullerene solar cells. 2014 , 14, 5308-14	101
698	Conjugated polymer-assisted dispersion of single-wall carbon nanotubes: the power of polymer wrapping. 2014 , 47, 2446-56	208
697	Dynamics of Topological Defects in Single-Walled Carbon Nanotubes during Catalytic Growth. 2014 , 118, 4808-4817	12
696	Comparative study on diameter distribution of single-walled carbon nanotubes using growth templates with different pore sizes: Zeolite-L, ZSM-5, and MCM-41. 2014 , 14, 1633-1638	6
695	Probing single-walled carbon nanotube defect chemistry using resonance Raman spectroscopy. 2014 , 67, 17-26	26
694	Modulation of electric field on persistent current of carbon nanotubes. 2014 , 378, 1428-1433	6
693	Influence of carbon nanotube wall thickness on performance of dye sensitized solar cell with hierarchical porous photoanode. 2014 , 191, 74-81	19
692	Structural, energetic and electrical properties of boron nitride nanotubes interacting with DMMP chemical agent. 2014 , 314, 575-580	8
691	Electronic Properties of SiNTs Under External Electric and Magnetic Fields Using the Tight-Binding Method. 2014 , 43, 329-340	7
690	Synthesis of refractory conductive niobium carbide nanowires within the inner space of carbon nanotube templates. 2014 , 7, 015101	4
689	Ultrashort single-wall carbon nanotubes reveal field-emission coulomb blockade and highest electron-source brightness. 2014 , 112, 126805	21
688	Electron transport through metallic single wall carbon nanotubes with adsorbed NO ₂ and NH ₃ molecules: A first-principles study. 2014 , 609, 76-81	7
687	Engineering preferential adsorption of single-walled carbon nanotubes on functionalized ST-cut surfaces of quartz. 2014 , 6, 12665-73	1

- 686 Chirality dependence of dipole matrix element of carbon nanotubes in axial magnetic field: A third neighbor tight binding approach. **2014**, 313, 406-415 4
- 685 Discontinuity of physical properties of carbon nanotube/polymer composites at the percolation threshold. **2014**, 392-393, 19-25 9
- 684 Effects of BN co-doping into the ultra-small diameter zigzag single-walled carbon nanotubes: A density functional theory study. **2014**, 59, 88-92 13
- 683 Dispersion of carbon nanotubes using mixed surfactants: experimental and molecular dynamics simulation studies. **2014**, 118, 3094-103 65
- 682 Molecular simulations of the carbon nanotubes intramolecular junctions under mechanical loading. **2014**, 82, 503-509 11
- 681 Introduction. **2014**, 1-10 1
- 680 Theoretical Aspects of Graphene Related Materials for Device Applications. **2014**, 57, 439-443
- 679 Change in Spatial Distribution of State Densities of Carbon Nanotubes Under Anisotropic Strain Field. **2014**, 0
- 678 Electronic and vibrational properties of dimer of single-wall carbon nanotubes. **2015**, 1
- 677 Properties of K,Rb-intercalated C60 encapsulated inside carbon nanotubes called peapods derived from nuclear magnetic resonance. **2015**, 118, 114305 1
- 676 Concept of the Tip Effect in Single Walled Carbon Nanotube. **2015**, 1099, 37-40
- 675 Quantitative evaluation of orbital hybridization in carbon nanotubes under radial deformation using Orbital axis vector. **2015**, 5, 047124 2
- 674 Effect of increased crystallinity of single-walled carbon nanotubes used as field emitters on their electrical properties. **2015**, 118, 214304 7
- 673 Spin-dependent energy gap oscillations in the ultra-short carbon nanotube (5, 5). **2015**, 643, 012083
- 672 Novel Functional Devices of Single-walled Carbon Nanotubes. **2015**, 9, A0080
- 671 Properties of Carbon: An Overview. **2015**, 1-30
- 670 Platinum(II)-Coordinated Pyridine-Functionalized Single-Wall Carbon Nanotubes and Electron Transport in Their Films. **2015**, 1, 353-358 4
- 669 Threshold voltage variation for charge accumulation in carbon nanotube owing to monatomic defect arrangement. **2015**, 54, 06FF04

668	Utilizing research into electrical double layers as a basis for the development of label-free biosensors based on nanomaterial transistors. 2015 , 1	5
667	A Review of Spectral Methods for Dispersion Characterization of Carbon Nanotubes in Aqueous Suspensions. 2015 , 2015, 1-11	44
666	X-ray photoelectron spectroscopy of graphitic carbon nanomaterials doped with heteroatoms. 2015 , 6, 177-92	243
665	Change in electronic properties of carbon nanotubes caused by local distortion under axial compressive strain. 2015 ,	
664	HYBRID ORGANIC SOLAR CELLS BLENDED WITH CNTs. 2015 , 22, 1550072	
663	Efficient near-infrared up-conversion photoluminescence in carbon nanotubes. 2015 , 6, 8920	76
662	The effect of boron doping on the thermal conductivity of zigzag carbon nanotubes. 2015 , 29, 1550025	8
661	Boron nitride nanomaterials for thermal management applications. 2015 , 16, 1339-46	89
660	Near-Industrialization Nanotechnologies Developed in JST's Nanomanufacturing Research Area in Japan. 2015 , 55-78	
659	Pt nanoparticle modified single walled carbon nanotube network electrodes for electrocatalysis: Control of the specific surface area over three orders of magnitude. 2015 , 244, 136-145	20
658	Electronic properties of disordered zigzag carbon nanotubes. 2015 , 29, 1550020	1
657	A Primer on the Geometry of Carbon Nanotubes and Their Modifications. 2015 ,	1
656	Dispersion of carbon nanotubes in organic solvent by commercial polymers with ethylene chains: Experimental and theoretical studies. 2015 , 54, 035101	6
655	Multifunctional nanocomposites reinforced with carbon nanopapers. 2015 , 371-399	
654	Charge transfer and storage in nanostructures. 2015 , 96, 1-69	62
653	Third-Nearest-Neighbors Tight-Binding Description of Optical Response of Carbon Nanotubes: Effects of Chirality and Diameter. 2015 , 44, 3500-3511	10
652	Temperature-compensated force/pressure sensor based on multi-walled carbon nanotube epoxy composites. 2015 , 15, 11133-50	18
651	Nano-Saturn: Energetics of the Inclusion Process of C60 into Cyclohexabiphenylene. 2015 , 119, 8931-8936	13

650	Adsorption of F127 onto single-walled carbon nanotubes characterized using small-angle neutron scattering. 2015 , 31, 3262-8	14
649	Displacement cross sections of electron irradiated graphene and carbon nanotubes. 2015 , 350, 20-25	5
648	Carbon Nitrogen Nanotubes as Efficient Bifunctional Electrocatalysts for Oxygen Reduction and Evolution Reactions. 2015 , 7, 11991-2000	103
647	Redox sorting of carbon nanotubes. 2015 , 15, 1642-6	73
646	Volatile Organic Compounds. 2015 , 1023-1046	1
645	Synthesis of Robust Precursors for the Controlled Fabrication of (6,6), (8,8), (10,10), and (12,12) Armchair Single-Walled Carbon Nanotubes. 2015 , 2015, 3053-3056	16
644	On a thickness free expression for the stiffness of carbon nanotubes. 2015 , 209-210, 38-44	7
643	Carbon Nanotubes for Dye-Sensitized Solar Cells. 2015 , 11, 2963-89	103
642	Synthesis of carbon nanotubes by arc-discharge and chemical vapor deposition method with analysis of its morphology, dispersion and functionalization characteristics. 2015 , 2, 1094017	44
641	Graphene-Based Dye-Sensitized Solar Cells: A Review. 2015 , 7, 1863-1912	85
640	Quantum transport in carbon nanotubes. 2015 , 87, 703-764	229
639	Topological Index of Some Carbon Nanotubes and the Symmetry Group for Nanotubes and Unit Cells in Solids. 2015 , 211, 58-126	1
638	Planar carbon nanotube-graphene hybrid films for high-performance broadband photodetectors. 2015 , 6, 8589	197
637	Influence of defects on carrier injection in carbon nanotubes with defects. 2015 , 54, 065101	10
636	Chirality analysis of horizontally aligned single-walled carbon nanotubes: decoupling populations and lengths. 2015 , 3, 15119-15123	14
635	The effects of boron doping on the optical absorption of carbon nanotubes. 2015 , 126, 1918-1922	9
634	Simultaneous chirality and enantiomer separation of metallic single-wall carbon nanotubes by gel column chromatography. 2015 , 87, 9467-72	28
633	Derivation of a universal estimate for the stiffness of carbon nanotubes. 2015 , 73, 116-125	9

632	Temperature Dependent Electrical Resistance of Proton Irradiated and Non-irradiated C60 Micro-rods. 2015 , 2, 4053-4059	3
631	Recent Progress on the Chemical Reactions of Single-Walled Carbon Nanotubes. 2015 , 177-197	1
630	Field-enhanced electronic specific heat of carbon nanotubes. 2015 , 67, 89-98	4
629	A coarse-grained model for the mechanical behavior of multi-layer graphene. 2015 , 82, 103-115	118
628	Micromechanics of piezoelectric fuzzy fiber-reinforced composite. 2015 , 81, 1-17	38
627	Photodoping and enhanced visible light absorption in single-walled carbon nanotubes functionalized with a wide band gap oligomer. 2015 , 27, 162-7	18
626	Environmental Analysis by Electrochemical Sensors and Biosensors. 2015 ,	2
625	Chemical functionalization of boron nitride nanotube via the 1,3-dipolar cycloaddition reaction of azomethine ylide: a quantum chemical study. 2015 , 26, 749-759	10
624	Electrochemical and photo-electrochemical properties of carbon spheres prepared via chemical vapor deposition. 2015 , 30, 456-461	18
623	The Heat Capacity of Nanotube Bundles with 1D Chains of Gas Adsorbates. 2015 , 121-130	2
622	Pristine carbon nanotubes as non-metal electrocatalysts for oxygen evolution reaction of water splitting. 2015 , 163, 96-104	109
621	High-resolution Raman imaging of bundles of single-walled carbon nanotubes by tip-enhanced Raman spectroscopy. 2015 , 93, 51-59	5
620	Structural and electronic properties of endohedral doped SWCNTs: A DFT study. 2015 , 65, 68-76	5
619	Photocurrent generation in carbon nanotube/cubic-phase HfO ₂ nanoparticle hybrid nanocomposites. 2016 , 7, 1075-85	10
618	Impact of single-walled carbon nanotubes on the embryo: a brief review. 2016 , 11, 349-55	12
617	A New, Simple and Versatile Strategy for the Synthesis of Short Segments of Zigzag-Type Carbon Nanotubes. 2016 , 22, 3105-14	10
616	Theoretical study of electronic and vibrational properties of dimer of single-wall carbon nanotubes. 2016 , 41, 20874-20879	10
615	Analysis of variance on thickness and electrical conductivity measurements of carbon nanotube thin films. 2016 , 27, 095004	18

614	Near-field imaging of single walled carbon nanotubes emitting in the telecom wavelength range. 2016 , 120, 123110		3
613	Effect of an intersection of carbon nanotubes on the carrier accumulation under an external electric field. 2016 , 9, 085103		5
612	Robust polyelectrolyte microcapsules reinforced with carbon nanotubes. 2016 , 6, 114639-114643		14
611	Vibrational characteristics of single-layered boron nitride nanosheet/single-walled boron nitride nanotube junctions using finite element modeling. 2016 , 3, 125027		7
610	Ambipolar transistors based on random networks of WS ₂ nanotubes. 2016 , 9, 075001		10
609	Quantum-walk transport properties on graphene structures. 2016 , 94,		12
608	Theory of intraband plasmons in doped carbon nanotubes: Rolled surface-plasmons of graphene. <i>Applied Physics Letters</i> , 2016 , 108, 163109	3-4	12
607	Multiwalled carbon nanotube field emitter as an electron source for a microcolumn. 2016 , 34, 011805		6
606	Phonon contribution to electrical resistance of acceptor-doped single-wall carbon nanotubes assembled into transparent films. 2016 , 94,		16
605	Ultrafast nonlinear photoresponse of single-wall carbon nanotubes: a broadband degenerate investigation. 2016 , 8, 9304-9		32
604	First-principles calculation on electronic properties of B and N co-doping carbon nanotubes. 2016 , 37, 032002		6
603	Self-assembly synthesis of graphene oxide double-shell hollow-spheres decorated with Mn ₃ O ₄ for electrochemical supercapacitors. 2016 , 107, 100-108		29
602	Substrate configuration, bifacial CdTe solar cells grown directly on transparent single wall carbon nanotube back contacts. 2016 , 157, 35-41		10
601	Applications of Carbon Nanotubes in Bio-Nanotechnology. 2016 , 379-408		1
600	Vertically-Aligned Carbon Nanotubes for Electrochemical Energy Conversion and Storage. 2016 , 253-270		4
599	Isolated crater formation by gas cluster ion impact and their use as templates for carbon nanotube growth. 2016 , 371, 317-321		3
598	Effects of uniaxial compressive strain on the electronic-transport properties of zigzag carbon nanotubes. 2016 , 9, 1267-1275		9
597	Anomalous electrostatic potential properties in carbon nanotube thin films under a weak external electric field. 2016 , 9, 045101		4

596	Effect of structural deformation on carrier accumulation in semiconducting carbon nanotubes under an external electric field. 2016 , 55, 045101	14
595	Controlled Growth of Semiconducting and Metallic Single-Wall Carbon Nanotubes. 2016 , 138, 6690-8	60
594	A stand-alone flat-plane lighting device in a diode structure employing highly crystalline SWCNTs as field emitters. 2016 , 65, 152-157	5
593	Coexistence of Dirac cones and Kagome flat bands in a porous graphene. 2016 , 109, 755-763	36
592	CVD-Synthesized Carbon Nanotubes. 2016 , 353-372	
591	Functionalized Carbon Nanotubes. 2016 , 431-444	
590	. 2016 ,	2
589	Functionalized carbon nanotubes and graphene-based materials for energy storage. 2016 , 52, 14350-14360	41
588	Influence of electronic type of SWNTs on the thermoelectric properties of SWNTs/PANI composite films. 2016 , 39, 146-152	18
587	5-Aminolevulinic acid functionalized boron-nitride and carbon nanotubes as drug delivery vehicles for skin anticancer drugs: a theoretical study. 2016 , 6, 92547-92559	9
586	Electronic properties and reactivity trend for defect functionalization of single-walled carbon nanotube with B, Al, Ga atoms. 2016 , 221, 242-246	18
585	Origin of the Surfactant-Dependent Redox Chemistry of Single-Wall Carbon Nanotubes. 2016 , 2, 911-920	12
584	Tuning electronic properties of carbon nanotubes by Boron and Nitrogen doping. 2016 , 499, 1-16	10
583	On the effect of vacancy defect on the mechanical properties of gallium nitride nanosheets. 2016 , 30, 1650151	7
582	Carbon-Based Nanomaterials. 2016 , 189-236	25
581	Multiple electronic Raman scatterings in a single metallic carbon nanotube. 2016 , 93,	9
580	Carbon : nickel nanocomposite templates - predefined stable catalysts for diameter-controlled growth of single-walled carbon nanotubes. 2016 , 8, 14888-97	9
579	Mathematical Challenges in a New Phase of Materials Science. 2016 ,	

578	Synthesis, properties and applications of 3D carbon nanotube-graphene junctions. 2016 , 49, 443001	15
577	Growth of semiconducting single-wall carbon nanotubes with a narrow band-gap distribution. 2016 , 7, 11160	62
576	Can We Optimize Arc Discharge and Laser Ablation for Well-Controlled Carbon Nanotube Synthesis?. 2016 , 11, 510	52
575	Changing the chirality of single-wall carbon nanotubes during epitaxial growth : A density functional theory study. 2016 , 31, 525-531	1
574	SWCNT-Pt-P2O5-Based Sensor for Humidity Measurements. 2016 , 16, 7593-7599	4
573	Tensile Characterization of Single-Walled Carbon Nanotubes with Helical Structural Defects. 2016 , 6, 20324	26
572	Carbon Nanotube TFTs. 2016 , 1145-1183	
571	Numerical study of carbon nanotubes under circularly polarized irradiation. 2016 , 9, 085101	0
570	Energetics and electronic structure of tubular Si vacancies filled with carbon nanotubes. 2016 , 55, 055101	1
569	Printed Carbon Nanotube Electronics and Sensor Systems. 2016 , 28, 4397-414	284
568	High frequency conductivity of hot electrons in carbon nanotubes. 2016 , 488, 83-87	3
567	Single-Chirality Separation and Optical Properties of (5,4) Single-Wall Carbon Nanotubes. 2016 , 120, 10705-10710	27
566	Predicting the binding properties of single walled carbon nanotubes (SWCNT) with an ADP/ATP mitochondrial carrier using molecular docking, chemoinformatics, and nano-QSBR perturbation theory. 2016 , 6, 58680-58693	11
565	Ag-catalysed cutting of multi-walled carbon nanotubes. 2016 , 27, 175604	4
564	Magnetic Field-Induced Splitting of Optical Spectra in Silicon Nanotubes: Tight Binding Calculations. 2016 , 8, 43-55	1
563	Optical Transition of Zigzag Silicon Nanotubes Under Intrinsic Curvature Effect. 2016 , 8, 217-224	7
562	On the characterization of the elastic properties of asymmetric single-walled carbon nanotubes. 2016 , 89, 62-68	7
561	Categorical prototyping: incorporating molecular mechanisms into 3D printing. 2016 , 27, 024002	5

560	Adsorption of sodium dodecylsulfate on single-walled carbon nanotubes characterised using small-angle neutron scattering. 2016 , 472, 1-7	14
559	Linear augmented cylindrical wave method for nanotubes electronic structure. 2016 , 116, 174-188	15
558	Exciton effects in strained armchair graphene nanoribbons. 2016 , 30, 1650021	2
557	On the efficiency of UV-vis spectroscopy in assessing the dispersion quality in sonicated aqueous suspensions of carbon nanotubes. 2016 , 495, 118-124	54
556	Synthesis and optical characterization of carbon nanotube arrays. 2016 , 77, 243-252	17
555	Periodic density functional theory study of structural and electronic properties of single-walled zinc oxide and carbon nanotubes. 2016 , 237, 36-47	16
554	Effects of B, N, P and B/N, B/P pair into zigzag single-walled carbon nanotubes: A first-principle study. 2016 , 646, 95-101	15
553	Hot electrons injection in carbon nanotubes under the influence of quasi-static ac-field. 2016 , 81, 145-149	5
552	Structural and electronic properties study on B-N co-doped (4,3) carbon nanotubes through first-principles calculations. 2016 , 490, 63-72	4
551	Upconversion photoluminescence imaging and spectroscopy of individual single-walled carbon nanotubes. 2016 , 9, 045103	8
550	Carbon nanoribbons and nanotubes based on β -graphyne: A first-principles study. 2016 , 78, 19-24	6
549	Carbon nanotubes for organic/inorganic hybrid solar cells. 2016 , 41, 137-149	23
548	Structural and optical properties of functionalized multi-walled carbon nanotubes. 2016 , 41, 491-496	18
547	A supramolecular helix that disregards chirality. 2016 , 8, 80-9	113
546	Advances in tailoring the electronic properties of single-walled carbon nanotubes. 2016 , 77, 125-211	72
545	Carbon Nanotubes. 2016 , 5-63	5
544	Characterization of Carbon Nanotube Based Composites under Consideration of Defects. 2016 ,	10
543	How does ss-DNA recognize the chirality of carbon nanotubes?. 2016 , 15, 60-64	1

542	SnO ₂ -decorated multiwalled carbon nanotubes and Vulcan carbon through a sonochemical approach for supercapacitor applications. 2016 , 29, 205-12	28
541	Graphene-Based Materials as Solid Phase Extraction Sorbent for Trace Metal Ions, Organic Compounds, and Biological Sample Preparation. 2016 , 46, 267-83	87
540	Large area CNT-Si heterojunction for photodetection. 2017 , 845, 12-15	10
539	Sorting Carbon Nanotubes. 2017 , 375, 13	48
538	Fundamental Structural, Electronic, and Chemical Properties of Carbon Nanostructures: Graphene, Fullerenes, Carbon Nanotubes, and Their Derivatives. 2017 , 1175-1258	2
537	Segregated network formation of multiwalled carbon nanotubes in natural rubber through surfactant assisted latex compounding: A novel technique for multifunctional properties. 2017 , 112, 264-277	41
536	Efficient separation of semiconducting single-wall carbon nanotubes by surfactant-composition gradient in gel filtration. 2017 , 56, 015101	4
535	Band gap scaling laws in group IV nanotubes. 2017 , 28, 115202	7
534	Single-atom spectroscopy of phosphorus dopants implanted into graphene. 2017 , 4, 021013	54
533	Environmental Impacts from Photovoltaic Solar Cells Made with Single Walled Carbon Nanotubes. 2017 , 51, 4722-4732	29
532	Relationship between local buckling and atomic elastic stiffness in multi-walled carbon nanotubes under compression and bending deformations. 2017 , 130, 214-221	7
531	The electronic properties of chiral carbon nanotubes. 2017 , 129, 290-294	12
530	Metallic Catalysts for Structure-Controlled Growth of Single-Walled Carbon Nanotubes. 2017 , 375, 29	41
529	Inkjet printing wearable electronic devices. 2017 , 5, 2971-2993	291
528	Synthesis and characterization of integrated SWCNT-Pt-P2O5-based sensor platforms for absolute humidity measurement. 2017 ,	
527	First-principles study of the dielectric functions of carbon nanotubes with adsorbed water. 2017 , 10, 045101	4
526	Raman intensity and vibrational modes of armchair CNTs. 2017 , 679, 45-51	3
525	Diameter-Sensitive Breakdown of Single-Walled Carbon Nanotubes upon KOH Activation. 2017 , 18, 1929-1936	5

524	Low-power-consumption flat-panel light-emitting device driven by field-emission electron source using high-crystallinity single-walled carbon nanotubes. 2017 , 56, 065101	6
523	Synthesis of single-walled carbon nanotubes from atomic-layer-deposited Co ₃ O ₄ and Co ₃ O ₄ /Fe ₂ O ₃ catalyst films. 2017 , 121, 389-398	12
522	Stability and electronic properties of defective single walled carbon nanotubes (CNTs). 2017 ,	3
521	Variable electronic transport properties of double carbon-nanotube junctions via substitutional Fe, Co, and Mn atom doping. 2017 , 254, 1700013	
520	Negative differential resistance and switching behavior in single wall bamboo-shape carbon nanotubes based molecular device: A first-principles study nanoscale device design. 2017 , 91, 148-154	4
519	Atomic-scale mechanisms of plasma-assisted elimination of nascent base-grown carbon nanotubes. 2017 , 118, 452-457	5
518	Graphene, hexagonal boron nitride, and their heterostructures: properties and applications. 2017 , 7, 16801-16822	340
517	Angle dependence of the shear behaviour of asymmetric carbon nanotubes. 2017 , 116, 136-143	8
516	Atomic Scale Study on Growth and Heteroepitaxy of ZnO Monolayer on Graphene. 2017 , 17, 120-127	81
515	Electronic and Optical Properties of Single Wall Carbon Nanotubes. 2017 , 375, 7	12
514	How the alignment of adsorbed ortho H pairs determines the onset of selective carbon nanotube etching. 2017 , 9, 1653-1661	8
513	Defect-enhanced Rashba spin-polarized currents in carbon nanotubes. 2017 , 96,	4
512	Bilayer Plots for Accurately Determining the Chirality of Single-Walled Carbon Nanotubes Under Complex Environments. 2017 , 11, 10509-10518	7
511	Redox-active nanomaterials for nanomedicine applications. 2017 , 9, 15226-15251	65
510	Intertube effects on one-dimensional correlated state of metallic single-wall carbon nanotubes probed by C ¹³ NMR. 2017 , 95,	
509	Electronic structures of hybrid graphane/boron nitride nanoribbons with hydrogen vacancies. 2017 , 7, 075118	1
508	The influence of aqueous sodium dodecyl sulphate solution in the photoresponsivity of nitrogen doped graphene oxide photodetector. 2017 , 73, 441-448	10
507	Electronic Excitation of an Isolated Single-Walled Carbon Nanotube by Tuning Electrochemical Potential. 2017 , 37-45	

- 506 Circular dichroism of single-wall carbon nanotubes. **2017**, 95, 18
- 505 An Analytical Fifth-Nearest Neighbor Tight-Binding Investigation of the Effect of Mechanical Deformations on SWCNTs. **2017**, 41, 123-130
- 504 Super-micron-scale atomistic simulation for electronic transport with atomic vibration: Unified approach from quantum to classical transport. **2017**, 96, 3
- 503 Momentum- and space-resolved high-resolution electron energy loss spectroscopy of individual single-wall carbon nanotubes. **2017**, 95, 13
- 502 Effects of surface functionalization on the electronic and structural properties of carbon nanotubes: A computational approach. **2017**, 426, 781-787 14
- 501 Higher-order continuum theories for buckling response of silicon carbide nanowires (SiCNWs) on elastic matrix. **2017**, 87, 1797-1814 22
- 500 Studies on the Plasmon-Induced Photoexcitation Processes of Molecules on Metal Surfaces. **2017**,
- 499 Adhesion of single- and multi-walled carbon nanotubes to silicon substrate: atomistic simulations and continuum analysis. **2017**, 50, 395303 11
- 498 Modulation of the Local Density of States of Carbon Nanotubes by Encapsulation of Europium Nanowires As Observed by Scanning Tunneling Microscopy and Spectroscopy. **2017**, 121, 18195-18201 2
- 497 Catalysts for single-wall carbon nanotube synthesis From surface growth to bulk preparation. **2017**, 42, 809-818 10
- 496 Chiral surfaces: The many faces of chiral recognition. **2017**, 32, 94-107 22
- 495 QPHT-graphene: A new two-dimensional metallic carbon allotrope. **2017**, 381, 2845-2849 11
- 494 Doppler Radar Analysis of a Tornadic Miniature Supercell during the Landfall of Typhoon Mujigae (2015) in South China. **2017**, 98, 1821-1831 17
- 493 Increased metallicity of Carbon nanotubes because of incorporation of extended Stone-Wales defects: an ab-initio real space approach. **2017**, 91, 269-276 3
- 492 Structure and Properties of Carbon Nanotubes. **2017**, 47-69 10
- 491 Single walled carbon nanotubes emission coupled with a silicon slot-ring resonator. **2017**, 191, 126-130 6
- 490 Purification of 1.9-nm-diameter semiconducting single-wall carbon nanotubes by temperature-controlled gel-column chromatography and its application to thin-film transistor devices. **2017**, 56, 065102 10
- 489 Energetics and Electronic Structures of Inclusion Compounds of Large Fullerenes and Cycloparaphenylenes. **2017**, 86, 104702

488	Capped carbon nanotubes with a number of ground state magnetization discontinuities increasing with their size. 2017 , 29, 215803	1
487	Interplay between the Kagome flat band and the Dirac cone in porous graphitic networks. 2017 , 125, 530-535	19
486	Asymmetric carrier accumulation in double-walled carbon nanotube by an external electric field. 2017 , 10, 075101	1
485	Effect of Twisting and Stretching on Magneto Resistance and Spin Filtration in CNTs. 2017 , 3, 27	
484	Single Wall Carbon Nanotubes Based Cryogenic Temperature Sensor Platforms. 2017 , 17,	15
483	716 nm deep-red passively Q-switched Pr:ZBLAN all-fiber laser using a carbon-nanotube saturable absorber. 2017 , 42, 671-674	20
482	Strain-induced charge transfer and polarity control of a heterosheet comprising C60and graphene. 2017 , 10, 095101	5
481	Review and Analysis of Contemporary Polymer Coats based Electromagnetic Shielding Strategies. 2017 , 10, 1-9	
480	Use of Single Wall Carbon Nanotube films doped with Triethyloxonium Hexachlorantimonate as a Transparent Back Contact for CdTe Solar Cells. 2017 ,	1
479	Energetics and electronic structures of nitrogen chains encapsulated in zigzag carbon nanotube. 2018 , 103, 444-451	13
478	Characterization of Graphene by Confocal Raman Spectroscopy. 2018 , 177-194	1
477	Computer-aided noise analysis of a multiwall carbon nanotube. 2018 , 13, 165-170	1
476	Capacitive gas and vapor sensors using nanomaterials. 2018 , 29, 6129-6148	23
475	Charge distribution in graphene from quantum calculation. 2018 , 27, 016801	2
474	Intra- and inter-shell Kondo effects in carbon nanotube quantum dots. 2018 , 91, 1	4
473	Carbon and Its New Allotropes: Fullerene, Carbon Nanotubes, and Graphene. 2018 , 1-40	2
472	Thermal characteristics of carbon fiber reinforced epoxy containing multi-walled carbon nanotubes. 2018 , 9, 1-5	9
471	The Electronic and Magnetic Properties of Tetragonal Ultrathin BaTiO ₃ Nanotube. 2018 , 31, 2629-2636	1

470	Hybrid Structures and Strain-Tunable Electronic Properties of Carbon Nanothreads. 2018 , 122, 3101-3106	11
469	Stereoisomerism and Structures of Rigid Cylindrical Cycloarylenes. 2018 , 91, 907-921	43
468	Possible High Thermoelectric Power in Semiconducting Carbon Nanotubes ~A Case Study of Doped One-Dimensional Semiconductors~. 2018 , 87, 024707	21
467	Intersubband plasmons in the quantum limit in gated and aligned carbon nanotubes. 2018 , 9, 1121	36
466	Dispersion of multiwalled carbon nanotubes in waterborne polyurethane emulsions derived from alcoholysis products of waste PET and its effect on properties. 2018 , 58, 2149-2155	2
465	Nanomaterial-based gas sensors: A review. 2018 , 46, 115-145	70
464	A Materials Roadmap to Functional Neural Interface Design. 2018 , 28, 1701269	165
463	Growth of coiled amorphous carbon nanotube array forest and its electromagnetic wave absorbing properties. 2018 , 134, 91-97	27
462	Molecular dynamics simulation strategies for designing carbon-nanotube-based targeted drug delivery. 2018 , 23, 235-250	58
461	Graphene, Fullerenes, Carbon Nanotubes: Electronic Subsystem. 2018 , 253-286	1
460	Recent advances in carbon nanotube based electrochemical biosensors. 2018 , 108, 687-703	147
459	Magnetic adatoms in two and four terminal graphene nanoribbons: A comparison between their spin polarized transport. 2018 , 98, 174-183	2
458	Aharonov-Casher effect and quantum transport in graphene based nano rings: A self-consistent Born approximation. 2018 , 449, 485-492	0
457	Electronic and Magnetic Properties of Monolayer and Bilayer Phosphorene Doped with Transition-Metal Atoms. 2018 , 255, 1700370	7
456	Charge calculation studies done on a single walled carbon nanotube using MOPAC. 2018 , 92, 479-485	4
455	Synthesis, Characterization and Applications of Single Walled Carbon NanotubePtB2O5 Sensors for Absolute Humidity Measurements. 2018 , 54, 623-630	2
454	Energetics and electronic structures of corrugated graphene nanoribbons. 2018 , 57, 085101	1
453	Synthesis, purification, properties and characterization of sorted single-walled carbon nanotubes. 2018 , 10, 22087-22139	45

452	Enhanced thermoelectric performance of CNT/P3HT composites with low CNT content.. 2018 , 8, 33855-33863	16
451	. 2018 ,	18
450	. 2018 ,	11
449	Controlled engineering of spin-polarized transport properties in a zigzag graphene nanojunction. 2018 , 124, 17005	8
448	Preparation of Graphite Oxide Containing Different Oxygen-Containing Functional Groups and the Study of Ammonia Gas Sensitivity. 2018 , 18,	22
447	Energetics and Electronic Structure of Triangular Hexagonal Boron Nitride Nanoflakes. 2018 , 8, 16657	19
446	Helical liquid in carbon nanotubes wrapped with DNA molecules. 2018 , 98,	3
445	Carbon Nanotubes. 2018 , 133-164	
444	Graphene and CNT Based EMI Shielding Materials. 2018 , 241-261	1
443	Unconventional charge and spin-dependent transport properties of a graphene nanoribbon with line-disorder. 2018 , 124, 57003	7
442	Bipolar Thermoelectric Effects in Semiconducting Carbon Nanotubes: Description in Terms of One-Dimensional Dirac Electrons. 2018 , 87, 114710	12
441	Characteristics of Carbon Nanotubes for Nanoelectronic Device Applications. 2018 , 597-628	
440	Introductory Chapter: Carbon Nanotubes and Their Applications. 2018 ,	2
439	Effects of Tube Diameter and Length on Transparent Conductivity of Single-Walled Carbon Nanotube Network Films. 2018 , 2018, 1-9	9
438	Introduction to Nanotechnology. 2018 , 1-17	1
437	Strengthening of C/SiC Composites by Electrophoretic Deposition of CNTs on a SiC Coating. 2018 , 27, 5762-5768	3
436	The formation and stability of junctions in single-wall carbon nanotubes. 2018 , 29, 485702	2
435	Stability and Reliability of an Electrical Device Employing Highly Crystalline Single-Walled Carbon Nanotubes as a Field Emitter. 2018 ,	

434	Reentrant Fulde-Ferrell-Larkin-Ovchinnikov superfluidity in the honeycomb lattice. 2018 , 97,	5
433	Structural parameters, electronic properties, and band gaps of a single walled carbon nanotube: A pz orbital tight binding study. 2018 , 120, 108-126	5
432	Synthesis, Characterization and General Properties of Carbon Nanotubes. 2018 , 1-59	0
431	6.11 Conductive Nanocomposites for Multifunctional Sensing Applications. 2018 , 315-351	2
430	High-performance single-walled carbon nanotube transparent conducting film fabricated by using low feeding rate of ethanol solution. 2018 , 5, 180392	17
429	Single- and multi-walled carbon nanotubes for solar cell applications. 2018 , 32, 1830007	4
428	Chirality transitions and transport properties of individual few-walled carbon nanotubes as revealed by in situ TEM probing. 2018 , 194, 108-116	6
427	Enhanced electromagnetic shielding property of C/SiC composites via electrophoretically-deposited CNTs onto SiC coating. 2018 , 44, 20187-20191	14
426	Ultra-narrow-band near-infrared thermal exciton radiation in intrinsic one-dimensional semiconductors. 2018 , 9, 3144	6
425	Electronic band structure of carbon honeycombs. 2018 , 5, 72-77	3
424	Single-Walled Carbon Nanotube Induced Optimized Electron Polarization of Rhodium Nanocrystals To Develop an Interface Catalyst for Highly Efficient Electrocatalysis. 2018 , 8, 8092-8099	57
423	Preparation and Properties of Aqueous SCNTs Dispersion based on A UV-curable Polymeric Dispersant. 2018 , 33, 485-491	1
422	Optical Band Gap Energies in Quasi-Metal Carbon Nanotubes. 2018 , 63, 55-60	8
421	Thickness-dependent thermoelectric power factor of polymer-functionalized semiconducting carbon nanotube thin films. 2018 , 19, 581-587	14
420	Thermal transport in graphene and its allotropes. 2018 , 1-68	
419	Measurement of complex optical susceptibility for individual carbon nanotubes by elliptically polarized light excitation. 2018 , 9, 3387	13
418	Energetics and electronic structures of perylene confined in carbon nanotubes. 2018 , 5, 180359	2
417	DyScN@C Single-Molecule Magnetic Metallofullerene Encapsulated in a Single-Walled Carbon Nanotube. 2018 , 140, 10955-10959	39

416	Effect of boron doping on the electrical conductivity of metallicity-separated single walled carbon nanotubes. 2018 , 10, 12723-12733	19
415	Imaging and Treating Cancer with Carbon Nanotube Technology. 2018 , 173-210	
414	Emission of the ferrocene molecules encapsulated in single-walled carbon nanotubes by X-ray irradiation. 2018 , 435, 219-223	
413	CNT Basics and Characteristics. 2018 , 1-24	4
412	A bottom-up approach for controlled deformation of carbon nanotubes through blistering of supporting substrate surface. 2018 , 29, 365304	6
411	Process-Structure-Property Relationship in Polymer Nanocomposites. 2018 , 25-100	6
410	Dynamics of hydroxyapatite and carbon nanotubes interaction. 2019 , 495, 143493	3
409	Strength of carbon nanotubes depends on their chemical structures. 2019 , 10, 3040	70
408	Carbon nanotube-reinforced intermetallic matrix composites: processing challenges, consolidation, and mechanical properties. 2019 , 104, 3803-3820	2
407	Rapidly self-heating shape memory polyurethane nanocomposite with boron-doped single-walled carbon nanotubes using near-infrared laser. 2019 , 175, 107065	15
406	Electron-Beam Manipulation of Silicon Impurities in Single-Walled Carbon Nanotubes. 2019 , 29, 1901327	5
405	Field-emission durability employing highly crystalline single-walled carbon nanotubes in a low vacuum with activated gas. 2019 , 52, 505303	2
404	Non-covalent Methods of Engineering Optical Sensors Based on Single-Walled Carbon Nanotubes. 2019 , 7, 612	18
403	High performance graphene-like thinly layered graphite based visible light photodetector. 2019 , 51, 1	
402	Aqueous two-phase extraction of semiconducting single-wall carbon nanotubes with isomaltodextrin and thin-film transistor applications. 2019 , 12, 097003	8
401	Symmetry-adapted real-space density functional theory for cylindrical geometries: Application to large group-IV nanotubes. 2019 , 100,	16
400	Magnetic properties of six-legged spin-1 nanotube in presence of a longitudinal applied field. 2019 , 9, 12364	6
399	Nanocarbon: Preparation, properties, and applications. 2019 , 327-354	0

398	Efficient growth of vertically-aligned single-walled carbon nanotubes combining two unfavorable synthesis conditions. 2019 , 146, 413-419	9
397	Effects of surface passivation by hydrogen on the structural and electronic properties of a germanium nanowire: A sp ³ tight binding study. 2019 , 488, 404-417	3
396	Atomic-scale structural identification and evolution of Co-W-C ternary SWCNT catalytic nanoparticles: High-resolution STEM imaging on SiO ₂ . 2019 , 5, eaat9459	37
395	Chirality dependent mechanical properties of carbon nano-structures. 2019 , 6, 095018	4
394	High Purity Semiconducting Single-Walled Carbon Nanotubes for Printed Electronics. 2019 , 2, 4286-4292	8
393	Metallic Catalysts for Structure-Controlled Growth of Single-Walled Carbon Nanotubes. 2019 , 25-67	0
392	Sorting Carbon Nanotubes. 2019 , 129-164	2
391	Energetics and electronic structures of MoS ₂ nanoribbons. 2019 , 58, 075002	1
390	Tight binding theory of thermal conductivity of doped carbon nanotube. 2019 , 114, 113586	4
389	Recent Advances in Applications of Sorted Single-Walled Carbon Nanotubes. 2019 , 29, 1902273	44
388	Organic and Carbon Gels. 2019 ,	8
387	Physics of Carbon Nanotubes and New Type of Carbon Network Materials: Electronic and Magnetic Properties. 2019 , 97-120	
386	Carbon Gels for Electrochemical Applications. 2019 , 149-189	
385	Single-Walled Carbon Nanotubes. 2019 ,	11
384	End functionalization of a double walled carbon nanotube for biomedical application. 2019 ,	
383	Synthesis and electromagnetic wave absorption properties of 3D spherical NiCo ₂ S ₄ composites. 2019 , 795, 327-335	15
382	Growth of single-walled carbon nanotubes by alcohol chemical vapor deposition with water vapor addition: Narrowing the diameter and chiral angle distributions. 2019 , 96, 160-166	2
381	Photovoltaic Characteristics of Multiwalled Carbon Nanotube Counter-Electrode Materials for Dye-Sensitized Solar Cells Produced by Chemical Treatment and Addition of Dispersant. 2019 , 9, 250	8

380	High-bias negative differential resistance effect in pure, doped and co-doped carbon nanotubes connected to boron nitride nanotubes. 2019 , 113, 1-7	1
379	NaNO ₃ sensing based on microfiber coated with multi-walled carbon nanotubes. 2019 , 185, 936-942	2
378	The Queen of Carbon!. 2019 , 24, 263-272	
377	Room-temperature infrared photodetectors with hybrid structure based on two-dimensional materials. 2019 , 28, 017302	12
376	Films of filled single-wall carbon nanotubes as a new material for high-performance air-sustainable transparent conductive electrodes operating in a wide spectral range. 2019 , 11, 6755-6765	12
375	Synthesis of Armchair and Chiral Carbon Nanobelts. 2019 , 5, 838-847	108
374	Polyfluorene-Sorted Semiconducting Single-Walled Carbon Nanotubes for Applications in Thin-Film Transistors. 2019 , 31, 2863-2872	18
373	Structural and electronic properties of T graphene nanotubes: a first-principles study. 2019 , 21, 053015	6
372	Engineering thermal and electrical properties of B/N doped carbon nanotubes: Tight binding approximation. 2019 , 792, 721-731	12
371	An Introduction to Nanotechnology. 2019 , 28, 1-27	52
370	Simple planar field-electron emitter using highly crystalline single-walled carbon nanotubes in a triode structure with in-plane under-gate electrode. 2019 , 37, 021201	
369	Environment Effects on the Charge States of Metallic and Semiconducting SWCNTs during Their Separation by the Electric-Field Induced Layer Formation Method. 2019 , 123, 3829-3835	5
368	Using nanotubes to study the phonon spectrum of two-dimensional materials. 2019 , 21, 5215-5223	2
367	Water flow in carbon nanotubes: the role of tube chirality. 2019 , 21, 6566-6573	32
366	Preparation of metallic single-wall carbon nanotubes. 2019 , 147, 187-198	8
365	Introduction to Optical Spectroscopy of Single-Wall Carbon Nanotubes. 2019 , 1-43	1
364	Conductive Effect of Increased Crystallinity of Single-Walled Carbon Nanotubes as Field Emitter. 2019 ,	
363	Energetics and electronic structures of N-doped graphene nanoribbons with pyridinic and graphitic edges. 2019 , 58, 125001	

- 362 A Tetraazapentacene-Pyrene Belt: Toward Synthesis of N-Doped Zigzag Carbon Nanobelts. **2019**, 21, 10120-10124 28
- 361 Carbon Nanomaterials for Targeted Cancer Therapy Drugs: A Critical Review. **2019**, 19, 502-522 34
- 360 Carbon Nanotube Chemical Sensors. **2019**, 119, 599-663 444
- 359 Nanohybrid Materials Based Biosensors for Heavy Metal Detection. **2019**, 233-264 3
- 358 Emergence of graphene as a promising anode material for rechargeable batteries: a review. **2019**, 11, 225-243 55
- 357 Synergy of physical properties of low-dimensional carbon-based systems for nanoscale device design. **2019**, 6, 042002 32
- 356 Assignment of the Absolute-Handedness Chirality of Single-Walled Carbon Nanotubes Using Organic Molecule Supramolecular Structures. **2019**, 25, 1941-1948 8
- 355 Gas sensing properties of CNT-BNNT-CNT nanostructures: A first principles study. **2019**, 470, 933-942 27
- 354 Synthesis, Characterization, and Applications of Carbon Nanotubes. **2019**, 1-45 10
- 353 C-57 carbon: A two-dimensional metallic carbon allotrope with pentagonal and heptagonal rings. **2019**, 160, 115-119 29
- 352 Chiral-selective etching effects on carbon nanotube growth at edge carbon atoms. **2019**, 40, 375-380 4
- 351 Adsorption sensitivity of pristine and Al- or Si-doped boron nitride nanoflake to COCl₂: a DFT study. **2019**, 117, 626-634 9
- 350 Multi-walled carbon nanotube films for the measurement of the alcoholic concentration. **2019**, 14, 304-308 14
- 349 Semiconducting Single-Walled Carbon Nanotubes or Very Rigid Conjugated Polymers: A Comparison. **2019**, 5, 1800514 15
- 348 Atomic Properties and Electronic Structure. **2019**, 23-66 2
- 347 Energetics and electronic structures of polymeric all-benzene hollow-cages and planar networks. **2019**, 58, 015002
- 346 Carbon Nanotubes: Electronic Structure and Spectroscopy. **2019**, 205-218 3
- 345 Carbon-based materials for bipolar plates for low-temperatures PEM fuel cells [A review]. **2019**, 12, 1930001 8

- 344 Nanoanalytics: history, concepts, and specificities. **2019**, 26, 5267-5281 15
- 343 Modeling the interaction between anti-cancer drug penicillamine and pristine and functionalized carbon nanotubes for medical applications: density functional theory investigation and a molecular dynamics simulation. **2020**, 38, 1322-1334 12
- 342 Edge morphology effect on field emission properties of graphene thin films. **2020**, 157, 33-39 8
- 341 Electronic Structure Calculations: The Density Functional Theory (DFT). **2020**, 354-372
- 340 Dynamical environmental effects lowering the plasmon energy and lifetime in doped carbon nanotubes. **2020**, 160, 1-4 2
- 339 Introduction to Carbon-Based Nanostructures. **2020**, 1-10
- 338 The New Family of Two-Dimensional Materials and van der Waals Heterostructures. **2020**, 70-91
- 337 Quantum Transport: General Concepts. **2020**, 92-119
- 336 Klein Tunneling and Ballistic Transport in Graphene and Related Materials. **2020**, 120-144
- 335 Quantum Transport in Disordered Graphene-Based Materials. **2020**, 145-209
- 334 Preface to the Second Edition. **2020**, xi-xii
- 333 Preface to the First Edition. **2020**, xiii-xvi
- 332 Electronic Properties of Carbon-Based Nanostructures. **2020**, 11-69
- 331 Quantum Hall Effects in Graphene. **2020**, 210-236
- 330 Spin-Related Phenomena. **2020**, 237-277
- 329 Ab Initio and Multiscale Quantum Transport in Graphene-Based Materials. **2020**, 293-353
- 328 Electronic Structure Calculations: The Many-Body Perturbation Theory (MBPT). **2020**, 373-378
- 327 Green's Functions and Ab Initio Quantum Transport in the Landauer-Büttiker Formalism. **2020**, 379-400

326	Recursion Methods for Computing the Density of States (DOS) and Wavepacket Dynamics. 2020 , 401-412	
325	Highly Sensitive Detection of NO by Au and TiO Nanoparticles Decorated SWCNTs Sensors. 2019 , 20,	9
324	A density functional theory outlook on the possible sensing ability of boron nitride nanotubes and their Al- and Si-doped derivatives for sulfonamide drugs. 2020 , 41, 82-95	9
323	Energetics and electronic structures of single walled carbon nanotubes encapsulated in boron nitride nanotubes. 2020 , 13, 015004	4
322	Recent Advances in Twisted Structures of Flatland Materials and Crafting Moiré Superlattices. 2020 , 30, 2000878	18
321	Carbon nanotube-based sensors and their application. 2020 , 265-291	2
320	Printed carbon nanotube thin-film transistors: progress on printable materials and the path to applications. 2020 , 12, 23371-23390	9
319	Preparation and Properties of Carbon Nanofiber Modified Emulsified Asphalt Based on Ultrasonication and Surfactant and the Impact of SBR and NH4Cl. 2020 , 7,	4
318	Graphite/gold nanoparticles electrode for direct protein attachment: characterization and gas sensing application. 2020 , 27, 43202-43211	1
317	Circular dichroism of doped carbon nanotubes. 2020 , 128, 164301	2
316	One-Dimensional Moiré Superlattices and Flat Bands in Collapsed Chiral Carbon Nanotubes. 2020 , 20, 7588-7593	2
315	Carbon Nanotubes. 2020 , 107-147	
314	Helicity Sorting and Optical Resolution of Functionalized Single-Walled Carbon Nanotubes and Their Optical Properties. 2020 , 124, 21886-21894	5
313	. 2020 ,	2
312	A Comprehensive Review on CNTs and CNT-Reinforced Composites: Syntheses, Characteristics and Applications. 2020 , 25, 101546	49
311	Band Engineering of Carbon Nanotubes for Device Applications. 2020 , 3, 664-695	13
310	Synthesis and applications of amino-functionalized carbon nanomaterials. 2020 , 56, 12698-12716	14
309	Synthesis of a Tetraepoxy Nanobelt and Its Reductive Aromatization Attempts. 2020 , 02, 330-335	1

308	Systematic theoretical study of carbon nanotubes rolled from a two-dimensional tetrahex-carbon nanosheet. 2020 , 102,	2
307	Passively Q-switched laser with specific chiral SWCNTs selected by N-CS as saturable absorber at 1 μ m. 2020 , 462, 125315	4
306	Nonresonant Polarized Raman Spectra Calculations of Nitrogen-Doped Single-Walled Carbon Nanotubes: Diameter, Chirality, and Doping Concentration Effects. 2020 , 2020, 1409581	0
305	Investigating the interactions of corona-free SWCNTs and cell membrane models using sum-frequency generation. 2020 , 16, 5711-5717	0
304	The Electronic Level II. 2020 , 213-247	
303	Smart carbon nanotubes for drug delivery system: A comprehensive study. 2020 , 58, 101811	22
302	Multimaterial and multifunctional neural interfaces: from surface-type and implantable electrodes to fiber-based devices. 2020 , 8, 6624-6666	20
301	Atomic-scale identification of influencing factors of sodium dendrite growth on different current collectors. 2020 , 8, 10199-10205	9
300	One-Pot Hydrothermal Synthesis of ZnS Nanospheres Anchored on 3D Conductive MWCNTs Networks as High-Rate and Cold-Resistant Anode Materials for Sodium-Ion Batteries. 2020 , 7, 1904-1913	12
299	The Effect of Ion Irradiation Density on the Defect of Graphene: A Molecular Dynamics Study. 2020 , 10, 158	1
298	Pentadiamond: A Hard Carbon Allotrope of a Pentagonal Network of sp ² and sp ³ C Atoms. 2020 , 125, 016001	14
297	Theoretical Chemistry for Advanced Nanomaterials. 2020 ,	
296	Electronic Properties of Transition Metal-Benzene Sandwich Clusters. 2020 , 313-349	0
295	Analytical modelling of single-walled carbon nanotube energies: the impact of curvature, length and temperature. 2020 , 2, 1	2
294	Electronic Transport Inhibiting of Carbon Nanotubes by 5f Elements. 2020 , 3, 1900226	2
293	ReviewRecent Advances in Carbon Nanomaterials as Electrochemical Biosensors. 2020 , 167, 037555	148
292	Enhancement of chlorobenzene sensing by doping aluminum on nanotubes: A DFT study. 2020 , 514, 145897	6
291	Application of carbon nanomaterials in plant biotechnology. 2020 , 30, 340-345	10


290	Solving the "MoS Nanotubes" Synthetic Enigma and Elucidating the Route for Their Catalyst-Free and Scalable Production. 2020 , 14, 3004-3016	31
289	Quantum Transport beyond DC. 2020 , 278-292	
288	Index. 2020 , 457-462	
287	Sonochemical reaction to control the near-infrared photoluminescence properties of single-walled carbon nanotubes. 2020 , 12, 6263-6270	7
286	Structural effects on carrier doping in carbon nanotube thin-film transistors. 2020 , 127, 134301	2
285	Carbon Nanomaterials Based Saturable Absorbers for Ultrafast Passive Mode-Locking of Fiber Lasers. 2020 , 16, 441-457	6
284	A study of the temperature effect on photoluminescence of the P3HT/MWNT nanocomposites. 2021 , 36, 549-552	
283	Fast transport of water in carbon nanotubes: a review of current accomplishments and challenges. 2021 , 47, 905-924	8
282	Plasmonic excitations and charge structure factor in armchair boron nitride nanotubes. 2021 , 126, 114385	2
281	Assessing the reliability of the Raman peak counting method for the characterization of SWCNT diameter distributions: a cross characterization with TEM. 2021 , 171, 968-979	6
280	Next Generation Multifunctional Nano-Science of Advanced Metal Complexes with Quantum Effect and Nonlinearity. 2021 , 94, 209-264	22
279	Tailored synthesis of hydrogel media for chirality separation of single walled carbon nanotubes. 2021 , 171, 597-609	5
278	A review on conducting carbon nanotube fibers spun via direct spinning technique. 2021 , 56, 1087-1115	6
277	Resonance structures and aromaticity in capped carbon nanotubes. 2021 , 173, 1082-1092	0
276	Size-dependent structural behaviors of crumpled graphene sheets. 2021 , 174, 148-157	13
275	Amorphous Silicon and Carbon Nanotubes Layered Thin-Film Based Device for Temperature Sensing Application. 2021 , 21, 2627-2633	
274	First-principles study of electronic structure of double-walled and single-walled carbon nanotubes. 2021 , 47, 2665-2671	3
273	Radially Oriented π -Cyclo-phenylenes. 2021 , 23, 87-92	1

272	Electromagnetic wave absorption properties of MWCNTs-COOH/cement composites with different shapes of chiral, armchair and zigzag. 2021 , 29, 386-393	11
271	EcoDesign and Sustainability I. 2021 ,	
270	Novel Strategies for Environmental Remediation of Pesticides Using Nanocatalysts. 2021 , 543-556	
269	Convenient Peierls phase choice for periodic atomistic systems under magnetic field. 2021 , 103,	0
268	The Synthesis of Conical Carbon.. 2021 , 5, e2001086	1
267	Theoretical and Computational Investigations of Carbon Nanostructures. 2021 , 139-164	
266	Carbon Nanomaterials for Biomedical Application. 2021 , 1309, 257-276	0
265	Four-dimensional vibrational spectroscopy for nanoscale mapping of phonon dispersion in BN nanotubes. 2021 , 12, 1179	6
264	Growth of Semiconducting Single-Walled Carbon Nanotubes Array by Precisely Inhibiting Metallic Tubes Using ZrO Nanoparticles. 2021 , 17, e2006605	4
263	Torsional Characteristics of Carbon Nanotubes: Micropolar Elasticity Models and Molecular Dynamics Simulation. 2021 , 11,	12
262	Doxorubicin Encapsulation in Carbon Nanotubes Having Haeckelite or Stone-Wales Defects as Drug Carriers: A Molecular Dynamics Approach. 2021 , 26,	1
261	Optimal Thermoelectric Power Factor of Narrow-Gap Semiconducting Carbon Nanotubes with Randomly Substituted Impurities. 2021 , 90, 044702	2
260	The insight flow characteristics of concentrated MWCNT in water base fluid: experimental study and ANN modelling. 2021 , 57, 1829	2
259	Contrasting H-Etching to OH-Etching in Plasma-Assisted Nucleation of Carbon Nanotubes. 2021 , 125, 7849-7855	
258	RKKY interaction in spin polarized doped zigzag carbon nanotube in Holstein model. 2021 , 128, 114612	
257	Electronic and transport properties of chemically functionalised zig-zag graphene nanoribbons: First principle study. 2021 , 95, 1	
256	Aromatic hydrocarbon belts. 2021 , 13, 402-419	21
255	Large thermoelectric power factor in wafer-scale free-standing single-walled carbon nanotube films. <i>Applied Physics Letters</i> , 2021 , 118, 173902	3.4 1

254	Fabrication, Electrical and Dielectric Characterization of Au/CNT/TiO ₂ /SiO ₂ /p-Si/Al with High Dielectric Constant, Low Loss Dielectric Tangent. 2021 , 10, 051003	3
253	New perspectives on Graphene/Graphene oxide based polymer nanocomposites for corrosion applications: The relevance of the Graphene/Polymer barrier coatings. 2021 , 154, 106215	14
252	Shape memory polymer nanocomposite: a review on structure-property relationship. 1	4
251	Modulation of electric field on low-frequency plasmons of carbon nanotubes. 2021 , 129, 114666	1
250	Collective plasmonic oscillations of zigzag boron-nitride nanotubes in the presence of Holstein phonons. 2021 , 130, 114687	
249	Lattice-fermionic Casimir effect and topological insulators. 2021 , 3,	2
248	Modeling the Conductivity Response to NO Gas of Films Based on MWCNT Networks. 2021 , 21,	4
247	Single-Walled Carbon Nanotube Chiral Selectivity Exhibited by Commercially Available Hydrogels of Varying Composition. 2021 , 13, 33635-33643	2
246	Comprehensive review on carbon nanotubes embedded in different metal and polymer matrix: fabrications and applications. 2021 , 1-28	15
245	A Meta-Analysis of Conductive and Strong Carbon Nanotube Materials. 2021 , 33, e2008432	18
244	Chirality dependent structural, electronic and mechanical properties of pristine Ag, Au and Pt nanotubes: A DFT study. 2021 , 131, 114745	0
243	Thermal Conductivity and Heat Capacity of Silicene Nanotube Compared to Silicene Nanoribbon. 1	
242	One-dimensional van der Waals heterostructures: Growth mechanism and handedness correlation revealed by nondestructive TEM. 2021 , 118,	13
241	A Review on Fracture Analysis of CNT/Graphene Reinforced Composites for Structural Applications. 1	2
240	A brief review on graphene oxide Nanoscrolls: Structure, Synthesis, characterization and scope of applications. 2021 , 420, 129914	19
239	Essential Electronic Properties of Silicon Nanotubes. 2021 , 11,	1
238	Growth of Single-walled Carbon Nanotubes on Substrates Using Carbon Monoxide as Carbon Source. 2021 , 37, 1125	1
237	Comparative study of the thermoresistive behavior of carbon nanotube-based nanocomposites and multiscale hybrid composites. 2021 , 222, 109068	2

236	Advanced machine learning decision policies for diameter control of carbon nanotubes. 2021 , 7,	1
235	Band alignment in carbon-based one-dimensional van der Waals heterostructures. 2021 , 134, 114929	2
234	Electronic and transport properties of nitrogen and boron doped zigzag silicon carbide nanoribbons: First principle study. 2021 , 338, 114476	1
233	Spiro-graphene: A two-dimensional metallic carbon allotrope of fused pentagons. 2021 , 185, 404-409	2
232	Modulation of intertube band dispersion relation of carbon nanotube bundles by symmetry and intertube wave function coupling. 2021 , 60, 025002	1
231	Edge State Induced Spintronic Properties of Graphene Nanoribbons: A Theoretical Perspective. 2021 , 165-198	
230	Field Emission from Single-Wall Nanotubes. 119-142	1
229	ELECTRONIC TRANSPORT IN NANOTUBES AND THROUGH JUNCTIONS OF NANOTUBES. 2006 , 123-142	1
228	SCANNING TUNNELING MICROSCOPY AND SPECTROSCOPY OF CARBON NANOTUBES. 2006 , 19-42	1
227	Tip-Enhanced Near-Field Raman Scattering: Fundamentals and New Aspects for Molecular Nanoanalysis/Identification. 2006 , 241-260	9
226	Nanotubes: A Revolution in Materials Science and Electronics. 1999 , 189-234	106
225	Scanning Probe Microscopy of Individual Carbon Nanotube Quantum Devices. 2007 , 423-439	1
224	Theoretical Study of Nanowires. 2003 , 95-124	2
223	Carbon Nanotubes: From Fundamental Nanoscale Objects Towards Functional Nanocomposites and Applications. 2008 , 101-119	6
222	High-Pressure Hydrogenated Carbon Nanostructures. 2010 , 225-250	1
221	Electronic Properties of Boron-Nitride and Boron Carbonitride Nanotubes and Related Heterojunctions. 2009 , 83-103	2
220	Nanotechnology in Carbon Materials. 1999 , 285-329	7
219	Scanning Tunneling Microscopy and Spectroscopy of Carbon Nanotubes. 1994 , 137-141	1

218	Nanotechnology in Wastewater and the Capacity of Nanotechnology for Sustainability. 2020 , 1-45	3
217	Carbon Nanotubes: Synthesis and Application in Solar Cells. 2020 , 159-184	1
216	Electronic Properties of Graphene. 2017 , 83-96	1
215	Carbon Nanotube TFTs. 2012 , 751-776	1
214	Nanomaterials Properties. 2011 , 5-22	2
213	Single-Walled Carbon Nanotubes. 2013 , 105-146	18
212	The Wonderful World of Carbon. 1998 , 9-29	4
211	Electronic, Transport and Mechanical Properties of Carbon Nanotubes. 2002 , 187-220	3
210	Construction of Negatively Curved Cubic Carbon Crystals via Standard Realizations. 2016 , 83-100	1
209	Interpretation of the STM Images of Carbon Nanotubes. 2001 , 233-244	3
208	Electronic Properties of Carbon Nanotubes and Applications. 2001 , 11-49	1
207	Soft X-Ray Spectroscopy as a Probe of the Electronic Structure of Nanostructured Solids. 2000 , 347-362	1
206	Theoretical Study of the Structure and Electronic Properties of Carbon and B X C Y N Z Nanotubes. 1996 , 419-435	1
205	Electronic and Doping Properties of B x C y N z Nanotubes. 1997 , 133-142	1
204	Functional Nanoscale Devices. 1999 , 67-91	3
203	Molecular Modeling and Simulation of Physical Properties and Behavior of Low-Dimensional Carbon Allotropes. 2014 , 45-109	1
202	Electronic Properties of Carbon Nanotubes Probed by Magnetic Measurements. 1999 , 76-88	0
201	Experimental evaluation of Pt/TiO ₂ /rGO as an efficient HER catalyst via artificial photosynthesis under UVB & visible irradiation. 2020 , 45, 17174-17190	14

200	Introduction to Graphene-Based Nanomaterials: From Electronic Structure to Quantum Transport. 2020,	10
199	Chapter 1:Carbon-based Nanomaterials in Analytical Chemistry. 2018, 1-36	5
198	Performance of graphene dispersion by using mixed surfactants. 2020, 7, 095009	7
197	Self-assembly of plasmonic chiral superstructures with intense chiroptical activity. 2020, 1, 032002	3
196	Adhesion property of carbon nanotube micelles for high-quality printed transistors. 2016,	1
195	Fabrication of Vertically-Aligned Carbon Nanotube Electrodes Using Grid-Inserted Plasma-Enhanced Chemical Vapor Deposition for Chemical Sensors. 2008, 47, 2028-2031	1
194	Elementary Excitations in Cylinder Bundles. 1998, 67, 2522-2528	4
193	Ground-State Properties of a Peierls-Hubbard Triangular Prism. 2010, 79, 044709	7
192	ReviewState-of-the-Art Organic Solar Cells based on Carbon Nanotubes and Graphene. 2020, 9, 105004	4
191	Introduction to Photovoltaic Physics, Applications, and Technologies. 2010, 1-48	1
190	- Atomistic Simulation of Gas Adsorption in Carbon Nanostructures. 2012, 307-348	1
189	Dispersive Micro Raman Backscattering Spectroscopy Investigation of Arc Discharge Synthesized CNTs Doped by Boron and Nitrogen. 2009, 116, 217-220	7
188	Carbon nanotube/silicon hybrid heterojunctions for photovoltaic devices. 2014, 2, 23-56	18
187	High harmonic generation in armchair carbon nanotubes. 2020, 28, 19760-19771	2
186	The effect of DNA-dispersed single-walled carbon nanotubes on the polymerase chain reaction. 2014, 9, e94117	21
185	Field Emission Properties of Individual Carbon Nanotubes in Nanorobotic Manipulation and Electron-Beam-Induced Deposition. 2004, 16, 597-603	5
184	Sorption properties of carbon nanostructures. 2004, 174, 1191	71
183	 2007, 177, 786	12

182	Random walk to graphene. 2011 , 181, 1284	20
181	Electronic properties of pristine and modified single-walled carbon nanotubes. 2013 , 183, 1145-1174	8
180	A Review of the Properties and CVD Synthesis of Coiled Carbon Nanotubes. 2010 , 3, 2618-2642	57
179	<i>Ab Initio&/i> Study of the Electronic and Vibrational Properties of 1-nm-Diameter Single-Walled Nanotubes. 2013 , 03, 178-184	4
178	Synthesis of High Purity Carbon Nano Fibers and Hydrogen from Propane Decomposition. 2008 , 29, 389-392	2
177	The Effect of Exchange and Correlation on Properties of Carbon Nanotube Structure: A DFT study. 2011 , 55, 7-13	5
176	A review: controlled synthesis of vertically aligned carbon nanotubes. 2011 , 12, 185-193	15
175	Carbon nanotubes-properties and applications: a review. 2013 , 14, 131-144	236
174	In-situCrystal Structure Analysis of Cobalt Nanocompounds Synthesizing Graphite at High Temperatures. 2011 , 50, 015103	2
173	Dielectrophoretic Assembly of Semiconducting Carbon Nanotubes Separated and Enriched by Spin Column Chromatography and Its Application to Gas Sensing. 2012 , 51, 045102	3
172	AC Power Consumption of Single-Walled Carbon Nanotube Interconnects: Non-Equilibrium Green's Function Simulation. 2012 , 51, 045104	2
171	Recovery Force of Carbon Nanotube Shape Memory. 2012 , 51, 06FD22	2
170	Electric Field Enhancement by Laser Light Focused at Electrode Edges for Controlled Positioning of Carbon Nanotubes. 2012 , 51, 06FD26	2
169	Electronic structure of carbon nanotube thin films with nanoscale interfaces under an electric field. 2017 , 56, 06GE02	1
168	Versatile Types of Inorganic/Organic NIR-IIa/IIb Fluorophores: From Strategic Design toward Molecular Imaging and Theranostics. 2021 ,	34
167	Advances and Frontiers in Single-Walled Carbon Nanotube Electronics. 2021 , 8, e2102860	5
166	Impact of edge functionalization on electron field-emission characteristics of carbon nanotubes: A theoretical approach. 2021 , 413491	2
165	Structural and electronic properties of zigzag single wall (8,0), (9,0), and (10,0) silicon carbide nanotubes. 2021 , 20, 101257	0

- 164 New Application of Carbon Nanotubes. Development of Carbon-Nanotube Probes for Scanning Probe Microscopy.. **2000**, 21, 540-545 1
- 163 Ab initio Study of Clusters and Nanotubes in Electric Fields. **2000**, 60-65
- 162 Thermal and Electrical Conductance of Carbon Nanostructures. **2001**, 263-272
- 161 Elastic Properties of Fullerenes. **2001**, 163-171
- 160 Electronic Structure and Quantum Conductance of Carbon Nanotubes. **2001**, 233-261
- 159 Carbon Nanotube and Its Application to Nanoelectronics. **2002**,
- 158 Diffraction and Imaging of Single-Walled Carbon Nanotubes. **2003**, 3-44
- 157 Electron Diffraction and Microscopy of Single-Walled Carbon Nanotube Bundles. **2003**, 45-72 2
- 156 Cylindrical-Wave Method in Theory of Pristine and Metal-Doped Nanotubes and Nanowires. **2003**, 409-452
- 155 Electrical and Mechanical Properties of Nanotubes Determined Using In-situ TEM Probes. **2005**, 273-306
- 154 Quantum Jewels in Carbon Nanotubes. **2005**, 2, 03
- 153 Bibliography. **2005**, 261-308
- 152 Carbon Nanotubes and Bismuth Nanowires. **2005**, 1
- 151 Modeling of Structure and Growth Rate of Carbon Nanotubes in Flame Synthesis. **2006**,
- 150 Simulation von CNFET basierten Digitalschaltungen. 4, 307-311
- 149 Low-Energy Physical Properties of Edge States in Nanographite Systems. **2007**, 103-149
- 148 Applications of Carbon Nanotubes in Bio-Nanotechnology. **2007**, 439-475
- 147 The Study of Electron Properties of Carbon Nanotubes Deposited on Highly Orientated Pyrolytical Graphite Using Scanning Probe Spectroscopy. **2007**, 111, 661-669

- 146 Mechanics of Carbon Nanotubes1. **2007**, 23-1-23-63
- 145 Characterization of Carbon Nanotubes by Optical Spectroscopy. **2008**, 125-180 ○
- 144 Carbon Nanotube and Fullerene Sensors. **2009**, 1-18
- 143 Single-Walled Carbon Nanotubes. **2008**, 4108-4118
- 142 Metal Oxide Nanoribbons and Carbon Nanotubes. **2008**, 2140-2152
- 141 Band Structure and Electron Transport Physics of One-Dimensional SWNTs. **2009**, 1-42 ○
- 140 Linear Augmented Cylindrical Wave Method for Electronic Structure of Isolated, Embedded, and Double-Walled Nanotubes. **2009**, 135-169
- 139 Optical studies of inner tubes within double-walled carbon nanotubes. **2009**, 2009, 172-179
- 138 Electromechanical and Chemical Sensing at the Nanoscale: DFT and Transport Modeling. **2009**, 47-69
- 137 Dynamics of coherent phonons in disordered graphite. **2010**, 1
- 136 Graphene and Carbon Nanotubes. **2010**, 465-479
- 135 Schwankungerscheinungen. **2010**, 563-592
- 134 Accurate determination of electronic transition energy of carbon nanotubes from the resonant behavior of radial breathing modes and their overtones. **2010**, 59, 7966 ○
- 133 Structures and Synthesis of Carbon Nanotubes. 1-14 1
- 132 Biomedical Applications I. **2011**, 23-45
- 131 Electronic energy band structures of carbon nanotubes with spin-orbit coupling interaction. **2011**, 60, 075202
- 130 Selective Separation of Semiconducting Single-Walled Carbon Nanotubes via Microwave Irradiation. **2011**, 20, 294-299
- 129 Information Electronics in the Nanotechnology Era. **2012**, 3-43

- 128 Controlling the Structure of Aligned Carbon Nanotubes on Silicon-Carbide Wafers. 201-207
- 127 Toolbox for Dispersing Carbon Nanotubes into Polymers to Get Electrically Conductive Nanocomposites. **2012**, 31-33
- 126 Simulating the Electron Transmission with Different Defective Carbon Nanotubes. **2012**, 122, 190-196
- 125 Effect of Pressure on the Electrical Resistance of Individual Boron-Doped Carbon Nanotubes. **2012**, 51, 105103
- 124 Science and Applications of Photomechanical Actuation of Carbon Nanostructures. **2012**, 177-236
- 123 Geometrical Modeling of Walls of Multiwall Carbon Nanotube. **2013**, 03, 10-15 1
- 122 Rolling effects on electronic characteristics for graphene nanoribbons. **2013**, 62, 056103
- 121 Introduction. **2013**, 1-21
- 120 Coherent Phonon Dynamics in Carbon Nanotubes. **2014**, 105-127
- 119 Charakterystyka fizykochemiczna nanorurek węglowych. **2014**,
- 118 The Role and Application of Quantum Capacitance in Nanostructured Energy Storage Devices. **2014**, 859-866 1
- 117 Otrzymywanie nanorurek węglowych. **2014**,
- 116 The Role and Application of Quantum Capacitance in Nanostructured Energy Storage Devices. 859-866
- 115 Fullerenes and Carbon Nanotubes. **2014**, 1493-1501
- 114 Computer Simulation of Materials Using Parallel Architectures. **1995**, 87-123
- 113 LDF Electronic Structure of Fullerene Tubules. **1996**, 153-175
- 112 Carbon Nanotubes and Aligned Carbon Nanotube Films. **1996**, 437-442
- 111 Frontiers of Carbon Nanotubes and Beyond. **1999**, 164-183 1

- 110 Optical and Electrical Properties of C60, C70, Nanotubes and Endohedral Fullerenes. **1999**, 363-392
- 109 Nanotubes: Functionalization. 3321-3337
- 108 Metal Oxide Nanoribbons and Carbon Nanotubes: Modeling. 2479-2490
- 107 Single-Walled Carbon Nanotubes: Geometries, Electronic Properties, and Actuation. 4512-4521
- 106 Carbon Nanotube TFTs. **2015**, 1-33
- 105 Some Specific Examples of MathematicsMaterials Science Collaboration at AIMR. **2015**, 51-67
- 104 Carbon Nanotubes: Synthesis, Properties and Applications. 89-138 5
- 103 Spinnable Carbon Nanotubes and Technical Yarns Produced by These Special Fibers. **2015**, 22, 1-12
- 102 Fundamental Structural, Electronic, and Chemical Properties of Carbon Nanostructures: Graphene, Fullerenes, Carbon Nanotubes, and Their Derivatives. **2016**, 1-84
- 101 Carbon Nanotube-/Graphene-Reinforced Ceramic Composites. **2017**, 599-625 0
- 100 Chapter 1 Advanced Anode Catalysts for Direct Alcohol Fuel Cells. **2016**, 1-62
- 99 A Recent Progress in Nanocarbon Research and Development. **2017**, 30, 2-5
- 98 Funktionswerkstoffe. **2018**, 19-128
- 97 Development of Nanocarbon Materials and Its Application. **2018**, 30, 365-370
- 96 Mesoscopic Physics of Phonon Transport in Carbon Materials.
- 95 Functional Materials. **2021**, 17-119
- 94 Cross-linking gelation of isomaltodextrin for the chromatographic separation of semiconducting carbon nanotubes. **2021**, 14, 017001 2
- 93 Kondo effects in small-bandgap carbon nanotube quantum dots. **2020**, 11, 1873-1890

92	CHAPTER 1:Carbon Nanotubes. 2021 , 1-110	
91	MULTIWALL CARBON NANOTUBE IMPEDANCE MATCHING SECTION. 2020 , 89, 69-75	0
90	HOT Graphene and HOT Graphene Nanotubes: New Low Dimensional Semimetals and Semiconductors. 2020 , 15, 56	1
89	Electronic Transport and Electrical Properties of Carbon Nanotubes. 2021 , 1-39	
88	Mechanical properties of carbon nanotube under uniaxial tensile strain. 2020 , 59, SIID02	0
87	Synthesis of Carbon Nanotubes by Floating Catalyst Chemical Vapor Deposition and Their Applications. 2108541	3
86	Metal-insulator transition in few-layered GaTe transistors. 2020 , 41, 072902	0
85	Application of the Electronic Properties of Carbon Nanotubes: Computation of the Magnetic Properties and the ¹³ C NMR Shifts. 2004 , 343-358	
84	Elementary band representations for (double)-line groups. 2020 , 53, 455204	0
83	A Novel Approach to Artificial Energy-Loss Free Field Emitters: The Outstanding Cathodic Durability of High Crystallized Single-Walled Carbon Nanotubes. 2021 , 413-424	
82	Hole Doping in Polythiophenes Encapsulated in Semiconducting and Metallic Single-Walled Carbon Nanotubes: Impact of the Electronic Structure.	1
81	Mechanism and Mitigation of Irreversible Material Loss within Gel-Based Single-Walled Carbon Nanotube Purification Schemes. 2021 , 125, 26084-26098	1
80	A study on wafer scalable, industrially applicable CNT based nanocomposites of Al-CNT, Cu-CNT, Ti-CNT, and Ni-CNT as thermal interface materials synthesised by thin film techniques. 2021 , 429, 127926	1
79	A tight-binding study of the electron transport through single-walled carbon nanotube-graphene hybrid nanostructures.. 2021 , 155, 244104	2
78	Nanomaterials in transistors. 2021 ,	
77	Kinetics-Controlled Growth of Metallic Single-Wall Carbon Nanotubes from CoRe Nanoparticles.. 2022 ,	1
76	Enhanced electrical conductivity in graphene-copper multilayer composite. 2022 , 12, 015310	1
75	Preparation of lysozyme/carbon nanotube hybrids and their interactions at the nano-bio interface. 2022 , 163, 106659	0

- 74 Electrical Properties of Carbon Nanotubes. **2021**, 1-35
- 73 Low-dimensional Thermoelectric Materials. **2022**, 209-238
- 72 A new frontier in switchable bioelectronics and bionanotechnology interfaces. **2022**, 25-42
- 71 Emerging Internet of Things driven carbon nanotubes-based devices. 1 5
- 70 Growth of Single-Walled Carbon Nanotubes from Solid Carbon Nanoparticle Seeds via Cap Formation Engineering with a Two-Step Growth Process and Water Vapor Supply.. **2022**, 7, 3639-3648 0
- 69 Empirical formulation of broadband complex refractive index spectra of single-chirality carbon nanotube assembly. **2022**, 0
- 68 Encapsulation and on-demand release of functional materials from conductive nanofibers via electrical signals.
- 67 Field Emission of Multi-Walled Carbon Nanotubes from Pt-Assisted Chemical Vapor Deposition.. **2022**, 12, 1
- 66 Carbon nanomaterials: Application as sensors for diagnostics. **2022**, 211-248
- 65 Programming the genetic code of a single carbon nanotube. **2022**,
- 64 Regulation of 2D DNA Nanostructures by the Coupling of Intrinsic Tile Curvature and Arm Twist.. **2022**, 4
- 63 Diameter Dependence of Band Gap of Single-Walled Boron Nitride Nanotubes. **2021**, 63, 1126-1130
- 62 A review on low-dimensional novel optoelectronic devices based on carbon nanotubes. **2021**, 11, 110701 1
- 61 Gas Sensing Properties of High-Purity Semiconducting Single-Walled Carbon Nanotubes for NH₃, H₂, and NO. **2021**, 10, 121004 0
- 60 Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration.. **2021**, 374, 1616-1620 8
- 59 Electrical and Electrochemical Sensors Based on Carbon Nanotubes for the Monitoring of Chemicals in Water-A Review.. **2021**, 22, 5
- 58 Multiwall Carbon Nanotube Time Delay Section. **2021**,
- 57 New Perspectives in SWCNT Applications: Tuball SWCNTs.Part 1. Tuball by Itself [All You Need to Know about It.. **2022**, 100175 3

- 56 Tip-Enhanced Near-Field Raman Scattering: Fundamentals and New Aspects for Molecular Nanoanalysis/Identification. **2006**, 241-260
- 55 Gate-tunable contact-induced Fermi-level shift in semimetal.. **2022**, 119, e2119016119 1
- 54 Observation of Soliton and Bound Soliton in Erbium-Doped Fiber Lasers Using a Non-Irradiated and Low-Dose Gamma-Irradiated Nanotube Mode-Locker.
- 53 Nanocomposites of Carbon Nanotubes for Electrochemical Energy Storage Applications. **2022**, 245-265 0
- 52 The emergence of graphene research topics through interactions within and beyond. 1-37
- 51 Synthesis and characterization of single-walled carbon nanotube: Cyto-genotoxicity in *Allium cepa* root tips and molecular docking studies. 1
- 50 Ni₃S₂ nanowires filled carbon nanotubes of ultra-high quality: Synthesis methods, structure, and electrical properties. **2022**, 127, 109156
- 49 Stabilities, electronic and piezoelectric properties of blue-phosphorene-phase MXs (M' = Ge, Sn; X' = S, Se, Te) nanotubes. **2022**, 599, 153995
- 48 Nanowires and Nanotubes. 1-50 1
- 47 Carbon Nanotubes in Tumor-Targeted Chemotherapeutic Formulations: A Review of Opportunities and Challenges. 0
- 46 Statistical Verification of Anomaly in Chiral Angle Distribution of Air-Suspended Carbon Nanotubes. 0
- 45 Improvement of thermal conductivity in carbon doped BNNTs by electric field. **2022**, 116, 108259 0
- 44 Photoluminescence of metallic single-walled carbon nanotubes: Role of interband and intraband transitions. **2022**, 106,
- 43 Bandgap engineering and modulation of thermodynamic, and optical properties of III-N monolayers XN (X = In, Ga & Al) by mutual alloying. **2022**, 97, 095806
- 42 Effects of Doping Cadmium Atoms on the Electronic and Optical Properties of (n, 0) Zigzag SWCNTs: DFT Approach. **2022**, 11, 081009 0
- 41 Alleviating defects in perovskites using single-walled carbon nanotubes. 0
- 40 Machine Learning for Property Prediction and Optimization of Polymeric Nanocomposites: A State-of-the-Art. **2022**, 23, 10712 1
- 39 Nanotubes tethered laccase biosensor for sensing of chlorophenol substances. **2023**, 331-356 0

38	Various defects in graphene: a review. 2022 , 12, 21520-21547	5
37	Morphology and topography of nanotubes. 2022 , 355-420	0
36	Synthesis of wafer-scale SWCNT forests with remarkably invariant structural properties in a bulk-diffusion-controlled kinetic regime. 2023 , 201, 745-755	1
35	Advanced Carbon-Based Polymeric Nanocomposites for Forensic Analysis. 2022 , 14, 3598	1
34	PMMA-Based Nanocomposites for Odontology Applications: A State-of-the-Art. 2022 , 23, 10288	2
33	The Effects of Lengths of Flavin Surfactant N-10-Alkyl Side Chains on Promoting Dispersion of a High-Purity and Diameter-Selective Single-Walled Nanotube. 2022 , 12, 3380	0
32	Predeposited Multifunctional Carbon Nanotube:SnO ₂ on the Pbl ₂ Film for Efficient and Stable Two-Step-Processed Perovskite Solar Cells. 2200710	0
31	Optical Properties of Carbon Nanotubes. 2021 , 1-18	0
30	The electronic properties of non-conventional Graphyne nanoribbons.	0
29	QHOD-Net: A New Highly Metallic Two-Dimensional Carbon Allotrope Material.	0
28	Synthesis of high-purity and high-crystallinity single-walled carbon nanotubes homogeneously dispersed by wet process. 2022 , 33, 103825	0
27	Peristaltic heat transport analysis of carbon nanotubes in a flexible duct due to metachronal waves of cilia.	0
26	Observation of soliton and bound soliton in erbium-doped fiber lasers using single-walled carbon nanotubes mode-lockers under gamma irradiation. 2023 , 157, 108775	1
25	Effects of different types of surfactant treatments on the electromechanical properties of multiwalled carbon nanotubes decorated electrospun nanofibers.	0
24	Structure-Imposed Electronic Topology in Cove-Edged Graphene Nanoribbons. 2022 , 129,	0
23	Suppression of Macroscopic Quantum Effects in Arrays with Spiral Nanotubes Associated with the Dispersion of Their Characteristic Sizes.	0
22	Combination effect of growth enhancers and carbon sources on synthesis of single-walled carbon nanotubes from solid carbon growth seeds. 2022 , 130, 109516	0
21	ortho-Substituted Aryldiazonium Design for the Defect Configuration-Controlled Photoluminescent Functionalization of Chiral Single-Walled Carbon Nanotubes.	0

20	Electrical Properties of Carbon Nanotubes. 2022 , 213-247	○
19	Optical Properties of Carbon Nanotubes. 2022 , 131-148	○
18	Electronic Transport and Electrical Properties of Carbon Nanotubes. 2022 , 173-211	○
17	Terahertz frequency selective surfaces using heterostructures based on two-dimensional diffraction grating of single-walled carbon nanotubes. 1-15	○
16	A comprehensive review of the effects of various factors on the thermal conductivity and rheological characteristics of CNT nanofluids.	○
15	Carbon nanotubes for CO ₂ capture and conversion. 2023 , 245-260	○
14	One-dimensional semimetal contacts to two-dimensional semiconductors. 2023 , 14,	○
13	Novel materials-based devices to mitigate challenges. 2023 , 119-157	○
12	BN-Doped Carbon Nanotubes and Nanoribbons as Nonlinear-Optical Functional Materials for Application in Second-Order Nonlinear Optics. 2023 , 6, 1549-1561	○
11	Sensing abilities of embedded vertically aligned carbon nanotube forests in structural composites: From nanoscale properties to mesoscale functionalities. 2023 , 255, 110587	○
10	Controlling Near-Infrared Photoluminescence Properties of Single-Walled Carbon Nanotubes by Substituent Effect in Stepwise Chemical Functionalization. 2023 , 127, 2360-2370	○
9	Universality of moiré physics in collapsed chiral carbon nanotubes. 2023 , 205, 394-401	○
8	Thermoset-Based Composite Bipolar Plates in Proton Exchange Membrane Fuel Cell. 2023 , 137-211	○
7	Coaxial heterostructure formation of highly crystalline graphene flakes on boron nitride nanotubes by high-temperature chemical vapor deposition. 2023 , 16, 035001	○
6	2D Material Infrared Photonics and Plasmonics. 2023 , 17, 4134-4179	1
5	Impact of External Electronic Perturbations on Single-Walled Carbon Nanotube Electronic Structure: Scanning Tunneling Spectroscopy and Density Functional Theory. 2023 , 127, 4651-4659	○
4	Crumpling Defective Graphene Sheets.	○
3	Are Non-Six-Membered Ring Defects Formed in Single-Walled Carbon Nanotubes Treated by a Fluorination/Defluorination Process?. 2023 , 13, 1086	○

- 2 A new strategy for making a sensitive sensor for aspirin drug: first-principles investigations by using pure and metal-doped BN nano-heterostructures. 1-13 ○
- 1 Selective growth of metallic single-walled carbon nanotubes via the application of high magnetic fields of 10 T. **2023**, 71, S393-S401 ○