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Boron nitride nanotubes

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#	Paper	IF	Citations
2368	Pellet-plasma interaction: Local disturbances caused by pellet ablation in tokamaks. 1989 , 29, 37-48		21
2367	Doped and heteroatom-containing fullerene-like structures and nanotubes. 1995 , 7, 965-995		132
2366	Theoretical study of one-dimensional chains of metal atoms in nanotubes. 1996 , 53, 4023-4026		87
2365	Interaction of Derivatized Capped Iron(II) Porphyrin Complexes with CO and O(2). 1996 , 35, 6539-6545		8
2364	(EOxo)diiron Complexes of Gated Glyoximes. Structural Changes Accompanying Ligation Trans to the Oxo Bridge. 1996 , 35, 2006-2010		12
2363	Probing Electrical Transport in Nanomaterials: Conductivity of Individual Carbon Nanotubes. <i>Science</i> , 1996 , 272, 523-526	33.3	888
2362	Structural Characterization of Five Sterically Protected Porphyrins. 1996 , 118, 3216-3224		40
2361	Sensory systems. 1996 , 6, 549-72		
2360	Biomembrane templates for nanoscale conduits and networks. <i>Science</i> , 1996 , 273, 933-5	33.3	182
2359	Boron nitride nanotubes with reduced numbers of layers synthesized by arc discharge. 1996 , 76, 4737-4740		717
2358	Boron-Nitrogen analogues of the fullerenes: the isolated-square rule. 1996 , 92, 2197-2201		78
2357	Theory of novel heterostructures and their properties. 1996 , T68, 84-89		2
2356	Bulk Synthesis of Inorganic Fullerene-like MS ₂ (M = Mo, W) from the Respective Trioxides and the Reaction Mechanism. 1996 , 118, 5362-5367		321
2355	Non-carbon nanotubes. 1996 , 8, 443-445		41
2354	Tools and strategies for Developing New Materials. 1996 , 8, 883-894		6
2353	Pyrolytically grown BxCyNz nanomaterials: nanofibres and nanotubes. 1996 , 257, 576-582		200
2352	Metal particle catalysed production of nanoscale BN structures. 1996 , 259, 568-573		256

2351	Electronic states of the heteroepitaxial double-layer system: Graphite/monolayer hexagonal boron nitride/Ni(111). 1996 , 54, 13491-13494	32
2350	Chiral conductivities of nanotubes. 1996 , 76, 2121-2124	94
2349	Graphitic structures: from planar to spheres, toroids and helices. 1996 , 354, 2025-2054	75
2348	Effect of a Protein Electric Field on the CO Stretch Frequency. Finite Difference Poisson Boltzmann Calculations on Carbonmonoxycytochromes c. 1996 , 100, 10793-10801	35
2347	Synthetic Routes to Novel Nanomaterials. 1997 , 5, 813-827	5
2346	Application of rigid-body dynamics and semiclassical mechanics to molecular bearings. 1997 , 8, 103-111	34
2345	Heterohedral Fullerenes and Nanotubes: Formation and Characteristics. 1997 , 5, 1091-1131	16
2344	Electronic properties of fullerenes with nonpositive Gaussian curvature: Finite zeolites. 1997 , 56, 12143-12146	20
2343	Boron and its compounds with nonmetals: chemical bonding and the electronic properties. 1997 , 66, 459-482	20
2342	Laser Heating of Boron Nitride and Graphite in a Diamond Anvil Cell. 1997 , 499, 321	1
2341	Protein Electric Field Effects on the CO Stretch Frequency of Carbonmonoxycytochromes c as a Function of Carbonyl Tilting and Bending Investigated with a Continuum Electrostatic Approach. 1997 , 101, 7364-7367	13
2340	Functional Analogs of Heme Protein Active Sites \square 1997 , 36, 5145-5155	101
2339	Synthesis of Nanoparticles and Nanotubes with Well-Separated Layers of Boron Nitride and Carbon. <i>Science</i> , 1997 , 278, 653-655	33-3 433
2338	TEM CHARACTERIZATION OF CALCIUM-OXYGEN NANORODS. 1997 , 8, 373-375	14
2337	Nanotubes. 1997 , 2, 706-715	55
2336	Intercalation of Inorganic Fullerene-like Structures Yields Photosensitive Films and New Tips for Scanning Probe Microscopy. 1997 , 119, 2693-2698	85
2335	Comparative theoretical study of carbon nanotubes and boron-nitride nanotubes. 1997 , 86, 2379-2380	14
2334	Bibliography current world literature. 1997 , 2, 207-240	

2333	Self-assembly of peptide based nanotubes. 1997 , 4, 207-212	19
2332	Nanofibers. 1997 , 9, 437-439	55
2331	Density functional theory and pseudopotentials: A panacea for calculating properties of materials. 1997 , 61, 603-611	7
2330	Boron-nitrogen analogues of the fullerenes: electronic and structural properties. 1997 , 268, 352-358	237
2329	Boron nitride nanotube growth defects and their annealing-out under electron irradiation. 1997 , 279, 191-196	71
2328	Heterogeneous growth of B ₂ C ₂ N nanotubes by laser ablation. 1997 , 279, 264-269	189
2327	Boron nitride nanotubes. 1998 , 36, 743-752	144
2326	Fullerenes and nanotubes with non-positive Gaussian curvature. 1998 , 36, 725-730	19
2325	Formation of Titanium Oxide Nanotube. 1998 , 14, 3160-3163	2117
2324	SMALL BAND-GAP GRAPHITIC CBN LAYERS. 1998 , 59, 1303-1308	22
2323	Concurrent preparation of carbon, boron nitride and composite nanotubes of carbon with boron nitride by a plasma evaporation method. 1998 , 316, 178-184	15
2322	Peptide Nanotubes and Beyond. 1998 , 4, 1367-1372	225
2321	The far-reaching nature of microtube technology. 1998 , 2, 87-96	17
2320	The E-phase of boron nitride as a fullerene. 1998 , 34, 106-108	7
2319	Geometric boundary effects on the electronic properties of finite carbon nanotubes. 1998 , 59, 417-423	41
2318	Measurement of the elastic modulus of a multi-wall boron nitride nanotube. 1998 , 105, 297-300	474
2317	Synthesis of a SiC nanorod within a SiO ₂ nanorod: one dimensional composite nanostructures. 1998 , 106, 215-219	25
2316	SQUID detected NMR and NQR. Superconducting Quantum Interference Device. 1998 , 11, 139-56	20

2315	A comprehensive NMR study of cubic and hexagonal boron nitride. 1998 , 12, 1-7	50
2314	Nanostructures of functional block copolymers. 1998 , 3, 200-208	44
2313	Microstructural characterization of amorphous SiO ₂ wrapped SiC nanowhiskers. 1998 , 10, 601-606	5
2312	Coaxial nanocable: silicon carbide and silicon oxide sheathed with boron nitride and carbon. <i>Science</i> , 1998 , 281, 973-5	33-3 443
2311	The Role of Boron Nitride in Graphite Plasma Arcs. 1998 , 6, 787-800	25
2310	Time-Resolved Spectroscopic Studies of B ₁₂ Coenzymes: The Identification of a Metastable Cob(III)alamin Photoproduct in the Photolysis of Methylcobalamin. 1998 , 120, 3597-3603	84
2309	Spiral Coding of Leapfrog Polyhedra. 1998 , 38, 463-468	8
2308	Carbon nanotubes and their recent developments.	1
2307	Equilibrium Geometry and Properties Of Cyclo[(Gly-d-Ala) ₄] and {Cyclo[(Gly-d-Ala) ₄]} ₂ from Density Functional Theory. 1998 , 102, 9858-9862	29
2306	Carbon-13 Nuclear Shieldings as a Novel Method in Estimating Porphyrin Ruffling in Hexacoordinated Superstructured Heme Model Compounds in Solution. 1998 , 120, 6407-6408	5
2305	Synthesis of boron nitride nanotubes by means of excimer laser ablation at high temperature. 1998 , 72, 1966-1968	194
2304	Structure, Stability, and Bonding of BC ₂ N: An ab Initio Study. 1998 , 102, 10134-10141	27
2303	An Experimental and Density Functional Theoretical Investigation of Iron-57 Mössbauer Quadrupole Splittings in Organometallic and Heme-Model Compounds: Applications to Carbonmonoxy-Heme Protein Structure□ 1998 , 120, 3144-3151	80
2302	First-Principles Simulations of Endohedral Bromine in BC ₃ Nanotubes. 1998 , 102, 1568-1570	10
2301	Octahedral boron nitride fullerenes formed by electron beam irradiation. 1998 , 73, 2441-2443	322
2300	APPLIED PHYSICS: Nanowires: Small Is Beautiful. <i>Science</i> , 1998 , 280, 545-546	33-3 116
2299	Iron-57 NMR Chemical Shifts and Mössbauer Quadrupole Splittings in Metalloporphyrins, Ferrocycochrome c, and Myoglobins: A Density Functional Theory Investigation□ 1998 , 102, 2342-2350	66
2298	Cones and Tubes: Geometry in the Chemistry of Carbon. 1998 , 31, 558-566	63

2297	Electronic and electromagnetic properties of nanotubes. 1998 , 57, 9485-9497	84
2296	Theoretical study of the structural and electronic properties of GaSe nanotubes. 1998 , 58, R4277-R4280	108
2295	Elastic Properties of C and BxCyNz Composite Nanotubes. 1998 , 80, 4502-4505	1094
2294	Electronic band gaps in one-dimensional comb structures of simple metals. 1998 , 10, 8973-8981	10
2293	Frustration Effects and Microscopic Growth Mechanisms for BN Nanotubes. 1998 , 80, 1666-1669	151
2292	Heat capacity and vibrational spectra of monolayer films adsorbed in nanotubes. 1998 , 58, R13426-R13429	16
2291	Fullerenes with Non-Positive Gaussian Curvature: Holey-Balls and Holey-Tubes. 1998 , 6, 751-767	4
2290	Preparation of β -SiC Nanorods with and Without Amorphous SiO ₂ Wrapping Layers. 1998 , 13, 2533-2538	145
2289	New fullerenes in the B-C-N system: synthesis and analysis by an electron beam. 1999 , 48, 701-709	14
2288	Boron nitride analogous of fullerenes, nanotubes, and fullerites. 1999 ,	2
2287	Formation of Boron Nitride (BN) Fullerene-Like Nanoparticles and (BN) _x Cy Nanotubes Using Carbon Nanotubes as Templates. 1999 , 38, L755-L757	29
2286	Advances in the Creation of Filled Nanotubes and Novel Nanowires. 1999 , 24, 43-49	66
2285	Self-inductance of chiral conducting nanotubes. 1999 , 60, 13885-13889	20
2284	Well-aligned carbon nitride nanotubes synthesized in anodic alumina by electron cyclotron resonance chemical vapor deposition. 1999 , 74, 197-199	139
2283	New boron based nanostructured materials. 1999 , 110, 3176-3185	235
2282	Photolysis experiments on SiC mixed clusters: From silicon carbide clusters to silicon-doped fullerenes. 1999 , 110, 6927-6938	97
2281	Catalyst effects on formation of boron nitride nano-tubules synthesized by laser ablation. 1999 , 109, 555-559	38
2280	Growth of carbon nanotubules on Fe-loading zeolites and investigation of catalytic active center. 1999 , 8-9, 151-157	13

2279	Pentagonal rings and nitrogen excess in fullerene-based BN cages and nanotube caps. 1999 , 299, 359-367	95
2278	Single-walled B-doped carbon, B/N-doped carbon and BN nanotubes synthesized from single-walled carbon nanotubes through a substitution reaction. 1999 , 308, 337-342	303
2277	The bio-logic of facial geometry. 1999 , 397, 662-662	5
2276	Erratum: Lizards took express train to Polynesia. 1999 , 397, 662-662	
2275	Josephson effect and a \mathbb{Z}_2 state in superfluid ^3He . 1999 , 397, 662-662	
2274	Lizards took express train to Polynesia. 1999 , 397, 113-114	65
2273	Synthesis, structure, and formation mechanism of boron nitride nanotubes. 1999 , 69, 163-168	22
2272	Synthesis of boron nitride nanotubes at low temperatures using reactive ball milling. 1999 , 299, 260-264	236
2271	Boron-doped carbon nanotubes prepared through a substitution reaction. 1999 , 299, 368-373	176
2270	Structure of boron nitride nanotubes: tube closing versus chirality. 1999 , 307, 407-412	115
2269	Stable BC ₂ N nanostructures: low-temperature production of segregated C/BN layered materials. 1999 , 310, 459-465	56
2268	Growth mechanism and quantum confinement effect of silicon nanowires. 1999 , 42, 1316-1322	1
2267	Synthesis of bulk WS ₂ nanotube phases. 1999 , 3, 145-149	41
2266	Synthesis of one-dimensional nanostructures: SiC nanorods with and without amorphous SiO ₂ wrapping layers. 1999 , 30, 213-219	9
2265	SiC nanorods with uniform amorphous SiO ₂ wrappers on the outside surface. 1999 , 34, 783-790	6
2264	Chemistry and Physics in One Dimension: Synthesis and Properties of Nanowires and Nanotubes. 1999 , 32, 435-445	3021
2263	Anion photoelectron spectroscopy of B ₃ N. 1999 , 111, 10491-10500	25
2262	Fine structure of boron nitride nanotubes produced from carbon nanotubes by a substitution reaction. 1999 , 86, 2364-2366	79

2261	Morphology of Si nanowires synthesized by high-temperature laser ablation. 1999 , 85, 7981-7983	91
2260	A solid-state process for formation of boron nitride nanotubes. 1999 , 74, 2960-2962	190
2259	Square, Pentagon, and Heptagon Rings at BN Nanotube Tips. 1999 , 103, 1291-1293	61
2258	SiC nanorods synthesized by hot filament chemical vapor deposition. 1999 , 74, 3942-3944	156
2257	Microscopy Study of the Growth Process and Structural Features of Silicon Oxide Nanoflowers. 1999 , 11, 2709-2715	28
2256	Bound CO Is A Molecular Probe of Electrostatic Potential in the Distal Pocket of Myoglobin. 1999 , 103, 8817-8829	235
2255	Synthetic Models for Hemoglobin and Myoglobin. 1999 , 32, 455-463	166
2254	Simulation of nanotubular forms of matter. 1999 , 68, 103-118	24
2253	Boron nitride nanotubes, webs, and coexisting amorphous phase formed by the plasma jet method. 1999 , 75, 929-931	62
2252	Structures of Boron Nitride Nanotubes with Single-Layer and Multilayers Produced by Arc Discharge. 1999 , 38, 159-163	39
2251	Carbon-13 and Oxygen-17 Chemical Shifts, (16O/18O) Isotope Effects on 13C Chemical Shifts, and Vibrational Frequencies of Carbon Monoxide in Various Solvents and of the Fe ^{II} Unit in Carbonmonoxy Heme Proteins and Synthetic Model Compounds. 1999 , 38, 4283-4293	13
2250	Design, Synthesis, Crystal Structure, and Host-Guest Properties of Polymethylene-Bridged Cystine-Based Cyclobisamides: A Facile Entry into Hydrogen-Bonded Peptide Nanotubes 1999 , 64, 9230-9240	34
2249	Stability, geometry, and electronic structure of the boron nitride B ₃₆ N ₃₆ fullerene. 1999 , 75, 61-63	107
2248	Fullerene und Nanoröhrchen: Materialien für das nächste Jahrhundert?. 1999 , 47, 768-776	2
2247	Multi- and Single-Walled Boron Nitride Nanotubes Produced from Carbon Nanotubes by a Substitution Reaction. 1999 , 593, 27	5
2246	Catalytic formation of carbon nanotubes on Fe-loading molecular sieves materials: an XPS study. 2000 , 483-490	1
2245	Catalyst-Free Synthesis of Single-Wall Boron Nitride Nanotubes via Laser Ablation. 2000 , 633, 1531	1
2244	Endohedral selenium chains in carbon, boron nitride, and BC ₂ N nanotubes. 2000 , 80, 480-485	3

2243	Boron Nitride Analogs of Fullerenes (the Fulborenes), Nanotubes, and Fullerites (the Fulborenites). 2000 , 154, 214-222	132
2242	Mechanical and electronic properties of carbon and boron nitride nanotubes. 2000 , 38, 1681-1690	153
2241	A simple method for the continuous production of carbon nanotubes. 2000 , 319, 457-459	167
2240	Chemical versus steric frustration in boron nitride heterofullerene polyhedra. 2000 , 332, 43-50	47
2239	Mass-production of boron nitride double-wall nanotubes and nanococoons. 2000 , 316, 211-216	214
2238	Synthesis of novel Sb ₂ O ₃ and Sb ₂ O ₅ nanorods. 2000 , 318, 49-52	78
2237	Growth of silicon nanowires by chemical vapor deposition: approach by charged cluster model. 2000 , 218, 33-39	65
2236	Structural investigation of gallium oxide (Ga ₂ O ₃) nanowires grown by arc-discharge. 2000 , 220, 494-500	78
2235	On the electronic structure of WS ₂ nanotubes. 2000 , 114, 245-248	92
2234	Synthesis of coaxial nanowires of silicon nitride sheathed with silicon and silicon oxide. 2000 , 115, 683-686	65
2233	Ropes of BN multi-walled nanotubes. 2000 , 116, 1-6	95
2232	Random access of nanodevices. 2000 , 113, 549-552	9
2231	Growth and emission properties of SiC nanorods. 2000 , 286, 119-124	49
2230	Synthesis and characterization of nanowires and nanocables. 2000 , 286, 34-38	86
2229	MoO ₃ -promoted synthesis of multi-walled BN nanotubes from C nanotube templates. 2000 , 323, 185-191	110
2228	Production of zigzag-type BN nanotubes and BN cones by thermal annealing. 2000 , 324, 359-364	103
2227	Role of nickel particles in selected growth of boron carbonitride tubular structures. 2000 , 325, 485-489	22
2226	Theoretical prediction of phosphorus nanotubes. 2000 , 318, 355-360	129

2225	Production of WS ₂ Nanotubes. 2000 , 12, 1190-1194	88
2224	Multi- and Single-Walled Nanotubes in the B-C-N System Studied by HRTEM and EELS. 2000 , 6, 50-51	
2223	AuPd catalytic nanoparticle size effect on the formation of amorphous silicon nanowires. 2000 , 9, 774-777	1
2222	Tight binding molecular dynamics studies of boron assisted nanotube growth. 2000 , 113, 3814-3821	34
2221	Template-synthesized BN:C nanoboxes. 2000 , 76, 825-827	9
2220	Plastic deformations of boron-nitride nanotubes: An unexpected weakness. 2000 , 62, 11050-11053	41
2219	Polarisation effects in hexagonal boron nitride near-edge structure: A real-space multiple scattering approach. 2000 , 49, 343-349	6
2218	Nanoscale Tubules Formed by Exfoliation of Potassium Hexaniobate. 2000 , 12, 1556-1562	219
2217	Properties of composite B _x C _y N _z nanotubes and related heterojunctions. 2000 , 17, 107-114	39
2216	Growth of WS ₂ Nanotubes Phases. 2000 , 122, 5169-5179	206
2215	Ab initio calculations for a hypothetical material: Silicon nanotubes. 2000 , 61, 9994-9996	209
2214	A Solution-Phase Approach to the Synthesis of Uniform Nanowires of Crystalline Selenium with Lateral Dimensions in the Range of 1000 nm. 2000 , 122, 12582-12583	300
2213	Formation and structure of Ag, Ge and SiC nanoparticles encapsulated in boron nitride and carbon nanocapsules. 2000 , 9, 911-915	19
2212	Structure and Stability of Boron Nitrides: Isomers of B ₁₂ N ₁₂ . 2000 , 104, 3364-3366	181
2211	Photogalvanic effects in heteropolar nanotubes. 2000 , 85, 1512-5	67
2210	Structure and electronic properties of MoS ₂ nanotubes. 2000 , 85, 146-9	432
2209	Fabrication and magnetic properties of boron nitride nanocapsules encaging iron oxide nanoparticles. 2000 , 9, 476-479	20
2208	Atomic structure and electronic state of boron nitride fullerenes and nanotubes. 2000 , 9, 625-628	35

2207	Electronic Structure of Carbon and Boron-Carbon-Nitrogen Nanotubes. 2000 , 381-408	
2206	Methods for preparation of carbon nanotubes. 2000 , 69, 35-52	83
2205	Composite Nanostructures Based on Template-Grown Boron Nitride Nanotubules. 2000 , 12, 250-254	109
2204	Aligned CN _x nanotubes by pyrolysis of ferrocene/C ₆₀ under NH ₃ atmosphere. 2000 , 77, 1807	107
2203	Tubes of rhombohedral boron nitride. 2000 , 33, 1902-1908	48
2202	Formation and Properties of Boron Nitride Nanocapsules with Metals and Semiconductor Nanoparticles. 2000 , 340, 787-792	3
2201	Long ropes of boron nitride nanotubes grown by a continuous laser heating. 2000 , 76, 3239-3241	120
2200	Plasmons in layered nanospheres and nanotubes investigated by spatially resolved electron energy-loss spectroscopy. 2000 , 61, 13936-13944	102
2199	The Theory of Real Materials. 2000 , 30, 1-26	44
2198	CVD Growth of Boron Nitride Nanotubes. 2000 , 12, 1808-1810	317
2197	Bismuth nanotubes: a rational low-temperature synthetic route. 2001 , 123, 9904-5	445
2196	Growth, Morphology, and Structure of Boron Nitride Nanotubes. 2001 , 13, 2965-2971	112
2195	Helical rosette nanotubes: design, self-assembly, and characterization. 2001 , 123, 3854-5	320
2194	Electronic Properties, Junctions, and Defects of Carbon Nanotubes. 2001 , 113-145	136
2193	Formation, atomic structures and properties of boron nitride and carbon nanocage fullerene materials. 2001 , 3, 597-612	213
2192	Preparation and structure analysis of titanium oxide nanotubes. 2001 , 79, 3702-3704	508
2191	Nanoparticles of CdCl ₂ with closed cage structures. 2001 , 41, 7-14	24
2190	C ₂ F, BN, and C nanoshell elasticity from ab initio computations. 2001 , 64,	829

2189	Synthesis and characterization of cobalt nanoparticles encapsulated in boron nitride nanocages. 2001 , 10, 1210-1213	22
2188	Single-walled BN nanostructures. 2001 , 86, 2385-7	244
2187	Electronic structure of radially deformed BN and BC ₃ nanotubes. 2001 , 63,	142
2186	Synthesis of boron nitride nanotubes and nanocapsules with LaB ₆ . 2001 , 10, 1231-1234	19
2185	Semiconducting form of the first-row elements: C ₆₀ chain encapsulated in BN nanotubes. 2001 , 64,	35
2184	Catalyst-free synthesis of boron nitride single-wall nanotubes with a preferred zig-zag configuration. 2001 , 64,	187
2183	Synthesis of boron nitride in tubular form. 2001 , 51, 315-319	13
2182	Frequency-Dependent Polarizability of Boron Nitride Nanotubes: A Theoretical Study. 2001 , 105, 10243-10248	40
2181	High-resolution electron microscopy and structural optimization of C ₃₆ , B ₃₆ N ₃₆ and Fe@B ₃₆ N ₃₆ clusters. 2001 , 10, 1205-1209	26
2180	Synthesis, HRTEM and electron diffraction studies of B/N-doped C and BN nanotubes. 2001 , 10, 63-67	36
2179	Synthesis and characterization of CdIn ₂ S ₄ nanorods by converting CdS nanorods via the hydrothermal route. 2001 , 40, 3130-3	37
2178	Structure and Stability of Boron Nitrides: The Crossover between Rings and Cages. 2001 , 105, 261-263	91
2177	Conformational dynamics of the transcriptional regulator CooA protein studied by subpicosecond mid-infrared vibrational spectroscopy. 2001 , 123, 10056-62	29
2176	Boron B ₁₂ Cluster Embedded in Graphitic Fragments. 2001 , 105, 10546-10553	14
2175	Is the CO adduct of myoglobin bent, and does it matter?. 2001 , 34, 137-44	125
2174	Open nanotubes of insulating boron nitride. 2001 ,	2
2173	Generation of multi-hollow crystalline Mo fibres. 2001 , 44, 203-206	
2172	B ₇ C ₇ N nanotubes prepared by a plasma evaporation method. 2001 , 390, 26-30	15

2171	Nanotubes, Nanoscience, and Nanotechnology. 2001 , 15, 1-11	69
2170	Synthesis and optical properties of crystalline polymer-capped ZnO nanorods. 2001 , 16, 123-127	53
2169	Nanotubes. 2001 , 2, 78-105	535
2168	Individual Alumina Nanotubes. 2001 , 113, 1538-1541	25
2167	Individual Alumina Nanotubes. 2001 , 40, 1490-1493	112
2166	CVD synthesis of boron nitride nanotubes without metal catalysts. 2001 , 337, 61-64	108
2165	Encapsulated and hollow closed-cage structures of WS ₂ and MoS ₂ prepared by laser ablation at 450–1050°C. 2001 , 340, 242-248	83
2164	Growth of amorphous silicon nanowires. 2001 , 341, 523-528	40
2163	Catalytic growth of nanotube and nanobamboo structures of boron nitride. 2001 , 342, 492-496	70
2162	Selective Co-catalysed growth of novel MgO fishbone fractal nanostructures. 2001 , 347, 337-343	121
2161	Insulating 'nanocables': Invar FeNi alloy nanorods inside BN nanotubes. 2001 , 347, 349-354	72
2160	Thin boron nitride nanotubes with unusual large inner diameters. 2001 , 350, 434-440	28
2159	Template-assisted synthesis of Sb ₈ O ₁₀ (OH) ₂ tubular crystals under hydrothermal conditions. 2001 , 233, 287-291	5
2158	Self-assembly of subnanometer-diameter single-wall MoS ₂ nanotubes. <i>Science</i> , 2001 , 292, 479-81	33.3 449
2157	Non-Carbon Nanotubes (Review). Part 1. Synthesis Methods. 2001 , 40, 485-496	15
2156	C to BN conversion in multi-walled nanotubes as revealed by energy-filtering transmission electron microscopy. 2001 , 346, 29-34	22
2155	Stability investigation and thermal behavior of a hypothetical silicon nanotube. 2001 , 539, 101-106	83
2154	Structural and electronic properties of single-wall BN nanotubes. 2001 , 542, 89-93	44

2153	Catalytic growth of carbon nanotubes from the internal surface of Fe-loading mesoporous molecular sieves materials. 2001 , 69, 246-251	18
2152	Synthesis, atomic structures and arrangement of carbon and boron nitride nanocage materials. 2001 , 44, 1557-1560	6
2151	Encapsulation of cobalt oxide nanoparticles and Ar in boron nitride nanocapsules. 2001 , 44, 1583-1586	26
2150	Boron Nitride Nanotube, Nanocable and Nanocone. 2001 , 706, 1	1
2149	Solvothermal route to Bi ₃ Se ₄ nanorods at low temperature. 2001 , 16, 3361-3365	13
2148	Structure and energetics of boron nitride fullerenes: The role of stoichiometry. 2001 , 63,	75
2147	Stability of native defects in hexagonal and cubic boron nitride. 2001 , 63,	142
2146	Anisotropic nanomechanics of boron nitride nanotubes: Nanostructured skin effect. 2001 , 63,	49
2145	Boron nitride polymers: Building blocks for organic electronic devices. 2001 , 63,	40
2144	Nanobelts of the dielectric material Ge ₃ N ₄ . 2001 , 79, 4565-4567	45
2143	Nanoparticles and nanoballoons of amorphous boron coated with crystalline boron nitride. 2001 , 79, 188-190	14
2142	Unique morphologies of boron nitride nanotubes. 2001 , 79, 415-417	75
2141	Structure of boron nitride nanotubules. 2001 , 78, 2772-2774	63
2140	Symmetry properties of single-walled boron nitride nanotubes. 2001 , 64,	37
2139	Pyrolytically grown arrays of highly aligned B _x C _y N _z nanotubes. 2001 , 78, 2769-2771	37
2138	Hydrogen in mechanically prepared nanostructured h-BN: a critical comparison with that in nanostructured graphite. 2002 , 80, 318-320	87
2137	Ab initio many-body calculations of static dipole polarizabilities of linear carbon chains and chainlike boron clusters. 2002 , 66,	27
2136	Field emission from individual B ₁₁ N nanotube rope. 2002 , 81, 1083-1085	36

2135	Synthesis of boron nitride nanowires. 2002 , 80, 3611-3613	67
2134	Nanoscale processing by adaptive laser pulses. 2002 , 66,	4
2133	SiC and its bicrystalline nanowires with uniform BN coatings. 2002 , 80, 4641-4643	56
2132	Preparation of boron nitride nanocapsules by plasma-assisted pulsed laser deposition. 2002 , 91, 6181-6184	12
2131	Nanocages of layered BN: Super-high-pressure nanocells for formation of solid nitrogen. 2002 , 116, 8523	19
2130	Vibrational properties of single-wall nanotubes and monolayers of hexagonal BN. 2002 , 66,	98
2129	Template-catalyst-free growth of highly ordered boron nanowire arrays. 2002 , 80, 4226-4228	34
2128	Forming silicon carbon nitride crystals and silicon carbon nitride nanotubes by microwave plasma-enhanced chemical vapor deposition. 2002 , 80, 4638-4640	17
2127	Equilibrium structure of multilayer van der Waals films and nanotubes. 2002 , 65,	9
2126	Ab initio many-body calculations on infinite carbon and boron-nitrogen chains. 2002 , 65,	67
2125	Electronic properties and ideal tensile strength of MoSe nanowires. 2002 , 65,	37
2124	GaN nanorods coated with pure BN. 2002 , 81, 5051-5053	58
2123	Energetics of the formation of dimers and solids of boron nitride fullerenes. 2002 , 66,	30
2122	Large-quantity production of high-yield boron nitride nanotubes. 2002 , 17, 1896-1899	84
2121	SYNTHESIS OF AMORPHOUS SiO _x NANOSTRUCTURES. 2002 , 01, 149-157	9
2120	Entropically driven self-assembly of multichannel rosette nanotubes. 2002 , 99 Suppl 2, 6487-92	141
2119	Clusters and Nanomaterials. 2002 ,	21
2118	Bamboo-like boron nitride nanotubes. 2002 , 51, S259-S263	7

2117	Microtubes and nanotubes of a phospholipid bilayer membrane. 2002 , 35, 1533-1549	59
2116	Novel Bismuth Nanotubes. 2002 , 19, 1785-1787	4
2115	Filling of Chrysotile Nanotubes with Metals. 2002 , 17, 1129-1135	17
2114	Optical Properties of Boron Nitride Nanotubes. 2002 , 71, 2286-2289	22
2113	Inorganic Nanoparticles with Fullerene-like Structure and Nanotubes; Some Electrochemical and Photoelectrochemical Aspects. 2002 ,	
2112	Metal-Filled Boron Nitride Nanotubes. 2002 ,	1
2111	Field Emission Properties of BN/C and BN@C Hybrid Nanotubes. 2002 , 739, 571	
2110	Nano Powders and Nanomaterials. 2002 , 56-86	1
2109	Single-crystal Al(18)B(4)O(33) microtubes. 2002 , 124, 10668-9	43
2108	Transformation of B _x C _y N _z nanotubes to pure BN nanotubes. 2002 , 81, 1110-1112	167
2107	Controllable Growth, Structure, and Low Field Emission of Well-Aligned CN _x Nanotubes. 2002 , 106, 2186-2190	156
2106	Interwall interaction and electronic structure of double-walled BN nanotubes. 2002 , 65,	72
2105	Measurements of the photodissociation quantum yields of MbNO and MbO(2) and the vibrational relaxation of the six-coordinate heme species. 2002 , 124, 5914-24	122
2104	Mössbauer quadrupole splittings and electronic structure in heme proteins and model systems: a density functional theory investigation. 2002 , 124, 13921-30	59
2103	Electronic and field emission properties of boron nitride/carbon nanotube superlattices. 2002 , 81, 46-48	92
2102	General Principles for the Synthesis and Modification of Porous Materials. 533-666	2
2101	Self-assembly of Inorganic Nanotubes Synthesised by the Chemical Transport Reaction. 2002 , 113-124	
2100	Rational growth of Bi ₂ S ₃ nanotubes from quasi-two-dimensional precursors. 2002 , 124, 15180-1	172

2099	Material design from first principles: the case of boron nitride polymers. 2002 , 14, 9997-10009	6
2098	Large-Scale Rapid Oxidation Synthesis of SnO ₂ Nanoribbons. 2002 , 106, 3823-3826	343
2097	Catalyzed collapse and enhanced hydrogen storage of BN nanotubes. 2002 , 124, 14550-1	259
2096	Original Single Walled Nanotubules Based on Weakly Interacting Covalent Mineral Polymers, 1[Nb ₂ PS ₁₀ -] in N-Methylformamide. 2002 , 2, 403-407	13
2095	Fabrication of Alumina Nanotubes and Nanowires by Etching Porous Alumina Membranes. 2002 , 2, 1293-1297	197
2094	Clustering of H ₂ molecules encapsulated in fullerene structures. 2002 , 66,	61
2093	Growth and structure evolution of novel tin oxide diskettes. 2002 , 124, 8673-80	303
2092	Arc-melting synthesis of BN nanocapsules from B/Al, TiB ₂ and VB ₂ . 2002 , 11, 949-952	16
2091	Rhenium(IV) sulfide nanotubes. 2002 , 124, 11582-3	95
2090	Study of the dissolution behavior of selenium and tellurium in different solvents a novel route to Se, Te tubular bulk single crystals. 2002 , 12, 2755-2761	151
2089	Self-assembling vanadium oxide nanotubes by organic molecular templates. 2002 , 41, 4524-30	129
2088	Hydrogen uptake in boron nitride nanotubes at room temperature. 2002 , 124, 7672-3	384
2087	In situ micelle template interface reaction route to CdS nanotubes and nanowires. 2002 , 12, 3712-3716	165
2086	Theory of B(2)O and BeB(2) nanotubes: new semiconductors and metals in one dimension. 2002 , 89, 056403	62
2085	Synthesis of Cobalt Oxide Nanotubes from Colloidal Particles Modified with a Co(III) Cysteinate Precursor. 2002 , 14, 1897-1902	54
2084	High-resolution electron microscopy and electronic structures of endohedral La@B ₃₆ N ₃₆ clusters. 2002 , 11, 940-944	48
2083	Novel BN tassel-like and tree-like nanostructures. 2002 , 11, 1397-1402	21
2082	Mechanically induced defects and strength of BN nanotubes. 2002 , 65,	124

2081	Electric polarization of heteropolar nanotubes as a geometric phase. 2002 , 88, 056803	216
2080	Tube- and ball-like amorphous MoS ₂ prepared by a solvothermal method. 2002 , 73, 327-329	45
2079	Formation of Tellurium Nanotubes Through Concentration Depletion at the Surfaces of Seeds. 2002 , 14, 279-282	338
2078	Synthesis and Characterization of Crystalline Ag ₂ Se Nanowires Through a Template-Engaged Reaction at Room Temperature. 2002 , 12, 679-686	131
2077	Preparation of aligned multi-walled BN and B/C/N nanotubular arrays and their characterization using HRTEM, EELS and energy-filtered TEM. 2002 , 323, 60-66	30
2076	Electronic and geometric structures of multi-walled BN nanotubes. 2002 , 323, 224-226	12
2075	Synthesis and atomic structures of boron nitride nanotubes. 2002 , 323, 357-359	24
2074	Fullerene-like materials and nanotubes from inorganic compounds with a layered (2-D) structure. 2002 , 208, 83-92	64
2073	Formation of vesicle-templated CdSe hollow spheres in an ultrasound-induced anionic surfactant solution. 2002 , 9, 311-6	93
2072	Deviatoric elasticity as a possible physical mechanism explaining collapse of inorganic micro and nanotubes. 2002 , 296, 151-155	31
2071	Synthesis of boron nitride nanotubes by using YB ₆ powder. 2002 , 122, 465-468	40
2070	Optical excitations of boron nitride ribbons and nanotubes. 2002 , 123, 365-369	27
2069	Direct synthesis of p-SiC and h-BN coated p-SiC nanowires. 2002 , 124, 157-161	38
2068	Bi ₂₀ TiO ₃₂ nanocones prepared from Bi ₂ Te ₃ mixture by metalorganic decomposition method. 2002 , 240, 489-494	17
2067	Synthetic routes to nanoscale B _x C _y N _z architectures. 2002 , 40, 1665-1684	136
2066	New one-dimensional crystals of (Sc,Ti,V)B ₁₂ metallocarbohedrenes in carbon and boron-nitrogen (12,0) nanotubes: quantum chemical simulation of the electronic structure. 2002 , 351, 35-41	14
2065	Boron nitride nanotubes and nanowires. 2002 , 353, 345-352	130
2064	Effective growth of boron nitride nanotubes. 2002 , 356, 254-258	25

2063	Temperature dependence of morphology and diameter of silicon nanowires synthesized by laser ablation. 2002 , 358, 396-400	13
2062	Catalytic growth of boron nitride nanotubes. 2002 , 362, 185-189	54
2061	Synthesis of silicon carbide nano-junctions in a catalyst-assisted process. 2002 , 364, 608-611	6
2060	Artificial lamellar mesostructures to WS(2) nanotubes. 2002 , 124, 1411-6	301
2059	PVA-Assisted Synthesis and Characterization of CdSe and CdTe Nanowires. 2002 , 106, 9227-9230	154
2058	Curved nanostructured materials. 2003 , 5, 126-126	140
2057	Nanowires and Nanotubes of Complex Oxides. 2003 , 173-190	8
2056	Structure and stability of boron nitride cages. 2003 , 48, 1102-1107	3
2055	Electronic properties of selected BN nanocones. 2003 , 50, 179-182	13
2054	Nanoparticles of CdI ₂ with closed cage structures obtained via electron-beam irradiation. 2003 , 5, 905-908	16
2053	A Two-Step Route to Self-Assembly of CdS Nanotubes via Electrodeposition and Dissolution. 2003 , 2003, 1794-1797	33
2052	A Room-Temperature Route to Bismuth Nanotube Arrays. 2003 , 2003, 3699-3702	41
2051	Formation of MoS ₂ inorganic fullerenes (IFs) by the reaction of MoO ₃ nanobelts and S. 2003 , 9, 2726-31	164
2050	Formation and structure of B ₂₄ N ₂₄ clusters. 2003 , 380, 620-623	151
2049	Fabrication and characterization of hollow spherical boron nitride powders. 2003 , 381, 74-79	13
2048	Inducing synthesis of CdS nanotubes by PTFE template. 2003 , 6, 1393-1394	24
2047	Amorphous feather-like boron nanowires. 2003 , 367, 495-499	21
2046	Fabrication of inorganic molybdenum disulfide fullerenes by arc in water. 2003 , 368, 331-337	67

2045	Superconducting NbSe ₂ nanostructures. 2003 , 368, 690-695	81
2044	Boron nitride nanotubes synthesized in the temperature range 1000–200 °C. 2003 , 374, 534-541	61
2043	Direct high-resolution electron microscopy of BN nanotubes with hexagonal zigzag network. 2003 , 377, 354-358	12
2042	A major milestone in nanoscale material science: the 2002 Benjamin Franklin Medal in Physics presented to Sumio Iijima. 2003 , 340, 221-242	6
2041	Synthesis and characterization of Cu/SiO ₂ composite nanowires. 2003 , 252, 167-173	7
2040	Synthesis of BN nanobamboos and nanotubes from barium metaborate. 2003 , 256, 67-72	12
2039	Pyrolytic-grown B ₁₁ N and BN nanotubes. 2003 , 4, 403-407	13
2038	Theoretical investigation of TiB ₂ nanotubes. 2003 , 34, 495-497	14
2037	Possible role of phospholipid nanotubes in directed transport of membrane vesicles. 2003 , 310, 493-497	40
2036	Structural and Electronic Properties of 240° Nanocones. 2003 , 799-802	8
2035	N-band Hubbard models II: Cooperative mechanisms of electron-phonon, electron correlation, and many-band effects toward high-T _c superconductors. 2003 , 92, 47-70	11
2034	Preparation of Nanostructured Hexagonal Boron Nitride Powder. 2003 , 86, 1982-1984	15
2033	Rotational actuators based on carbon nanotubes. 2003 , 424, 408-10	951
2032	Effects of catalytic metals for synthesis of BN fullerene nanomaterials. 2003 , 12, 1146-1150	48
2031	Boron nitride nanostructures formed by ultra-high-repetition rate laser ablation. 2003 , 12, 1269-1274	62
2030	Reactive atom beam deposition of boron nitride ultrathin films and nanoparticles using borazine. 2003 , 12, 1103-1107	3
2029	Ab initio calculations of the lattice dynamics of boron nitride nanotubes. 2003 , 68,	146
2028	Theoretical study of native defects in BN nanotubes. 2003 , 67,	143

2027	Lattice dynamics of single-walled boron nitride nanotubes. 2003 , 67,	47
2026	Characterization of Surface Electrostatic Potentials of some (5,5) and (n,1) Carbon and Boron/Nitrogen Model Nanotubes. 2003 , 3, 21-28	121
2025	Formation mechanism of TiO ₂ nanotubes. 2003 , 82, 281-283	470
2024	Ab initio study of MoS ₂ nanotube bundles. 2003 , 68,	23
2023	A Co-pyrolysis Method to Boron Nitride Nanotubes at Relative Low Temperature. 2003 , 15, 2675-2680	51
2022	Ligand binding in a docking site of cytochrome C oxidase: a time-resolved step-scan Fourier transform infrared study. 2003 , 125, 14728-32	49
2021	Spontaneous polarization and piezoelectricity in boron nitride nanotubes. 2003 , 67,	170
2020	Nanoscale Oxygen Generators: MgO ₂ -Based Fillings of BN Nanotubes. 2003 , 107, 8726-8729	29
2019	Simulating Vibrational Energy Flow in Proteins: Relaxation Rate and Mechanism for Heme Cooling in Cytochrome c. 2003 , 107, 12339-12345	46
2018	A DFT/B3LYP Computational Study of Boron-Nitride Nanotubes. 2003 , 50, 525-528	14
2017	Microstructure and Growth Model of Periodic Spindle-Unit BN Nanotubes by Nitriding Fe-B Nanoparticles with Nitrogen/Ammonia Mixture. 2003 , 107, 11316-11320	34
2016	A simple method to synthesize Dy(OH)(3) and Dy(2)O(3) nanotubes. 2003 , 125, 1494-5	239
2015	Structure and Energetics of Single-Walled Armchair and Zigzag Silicon Nanotubes. 2003 , 107, 7577-7581	79
2014	Formation, structure, and structural properties of a new filamentary tubular form: hollow conical-helix of graphitic boron nitride. 2003 , 125, 8032-8	23
2013	A density functional theory investigation of Fe-N-O bonding in heme proteins and model systems. 2003 , 125, 16387-96	69
2012	Thermodynamics of yield in boron nitride nanotubes. 2003 , 68,	62
2011	A novel route to prepare CdSe hollow structures. 2003 , 57, 3137-3139	9
2010	Trocadero: a multiple-algorithm multiple-model atomistic simulation program. 2003 , 28, 85-106	70

2009	Electrical properties and transport in boron nitride nanotubes. 2003 , 82, 4131-4133	97
2008	First-principles study of small-radius single-walled BN nanotubes. 2003 , 68,	170
2007	Boron Nitride Nanotubes Filled with Ni and NiSi ₂ Nanowires in Situ. 2003 , 107, 6539-6543	64
2006	Synthesis, argon/hydrogen storage and magnetic properties of boron nitride nanotubes and nanocapsules. 2003 , 12, 840-845	54
2005	The Effective Continuum Properties of Carbon and Inorganic Nanotubes. 2003 ,	
2004	Comparative theoretical study of single-wall carbon and boron-nitride nanotubes. 2003 , 67,	128
2003	New Boron Nitride B ₂₄ N ₂₄ Nanotube. 2003 , 107, 6609-6612	50
2002	Functionalized boron nitride nanotubes with a stannic oxide coating: a novel chemical route to full coverage. 2003 , 125, 2062-3	82
2001	Formation of antimony nanotubes via a hydrothermal reduction process. 2003 , 14, 748-751	19
2000	Synthesis and characterization of faceted hexagonal aluminum nitride nanotubes. 2003 , 125, 10176-7	303
1999	Solvothermal synthesis of Mg(OH) ₂ nanotubes using Mg ₁₀ (OH) ₁₈ Cl ₂ ·5H ₂ O nanowires as precursors. 2003 , 13, 3062-3065	73
1998	Vibrational properties of boron-nitride nanotubes: effects of finite length and bundling. 2003 , 2, 341-348	22
1997	Crystalline boron nanowires. 2003 , 82, 272-274	50
1996	High-concentration nitrogen-doped carbon nanotube arrays. 2003 , 14, 931-934	28
1995	Direct synthesis of amorphous silicon dioxide nanowires and helical self-assembled nanostructures derived therefrom. 2003 , 13, 3058	38
1994	Direct observation of boron nitride nanocage growth by molecular beam nitridation and liquid-like motion of FeB nanoparticles. 2003 , 13, 2573-2576	12
1993	Synthesis of hierarchical zinc oxide nanotubes. 2003 , 18, 2845-2850	12
1992	Elastic deformation of helical-conical boron nitride nanotubes. 2003 , 119, 3436-3440	14

1991	What is the ground-state structure of the thinnest Si nanowires?. 2003 , 91, 035501	106
1990	Electron spin resonance of doped chalcogenide nanotubes. 2003 , 67,	19
1989	Role of extrinsic atoms on the morphology and field emission properties of carbon nanotubes. 2003 , 82, 4334-4336	64
1988	Itinerant ferromagnetism in heterostructured C/BN nanotubes. 2003 , 67,	72
1987	Tunneling microscopy and spectroscopy of multiwalled boron nitride nanotubes. 2003 , 83, 1617-1619	41
1986	Chemical synthesis and characterization of boron/boron nitride core-shell nanostructures. 2003 , 18, 1641-1645	4
1985	Single-Walled Carbon Nanotubes for Nanoelectronics. 2003 , 293-343	2
1984	Synthesis of boron nitride nanotubes by using NbB ₂ , YB ₆ and YB ₆ /Ni powders. 2003 , 12, 1912-1917	15
1983	Properties of Boron Nitride Nanotubes. 2003 ,	26
1982	From spatial symmetry to vibrational spectroscopy of single-walled nanotubes. 2003 , 15, S2489-S2500	13
1981	Synthesis, structural and chemical analysis, and electrical property measurements of compound nanotubes in the B-C-N system. 2003 ,	
1980	Hypothetical silicon nanotubes under axial compression. 2003 , 14, 402-408	25
1979	Electronic States of BCN Alloy Nanotubes in a Simple Tight-Binding Model. 2003 , 72, 2656-2664	42
1978	Architecture of a three-probe MEMS nanomanipulator with nanoscale end-effectors.	3
1977	A Simple Route for the Synthesis of Rutile TiO ₂ Nanorods. 2003 , 32, 638-639	55
1976	Chalcogen Nanowires: Synthesis and Properties. 2003 , 776, 621	
1975	Nucleation and growth of feather-like boron nanowire nanojunctions. 2004 , 15, 139-142	21
1974	Preparation and characterization of highly ordered vanadium-iron cyanide molecular magnet nanowire arrays. 2004 , 15, 27-31	19

1973	Stability and electronic structure of phosphorus nanotubes. 2004 , 65, 82-88	48
1972	Structure and stability of SiC nanotubes. 2004 , 69,	277
1971	Nanotubular boron-carbon heterojunctions. 2004 , 121, 10680-6	17
1970	Energetics and structural characterization of C60 polymerization in BN and carbon nanopeapods. 2004 , 70,	28
1969	Atomic Structures, Electronic States and Hydrogen Storage of Boron Nitride Nanocage Clusters, Nanotubes and Nanohorns. 2004 , 226-228, 113-140	42
1968	Luminescence of ZnSe nanowires grown by metalorganic vapor phase deposition under different pressures. 2004 , 95, 5752-5755	63
1967	Syntheses and properties of B-C-N and BN nanostructures. 2004 , 362, 2161-86	89
1966	Spin-polarized electron emitter: Mn-doped GaN nanotubes and their arrays. 2004 , 69,	31
1965	Chapter 9 Nanotechnology and nano engineered membranes. 2004 , 10, 277-333	
1964	Stability of antiphase line defects in nanometer-sized boron nitride cones. 2004 , 70,	61
1963	Studies on the Preparation and Characterisation of Carbon Nanostructures. 2004 , 99-100, 269-272	1
1962	Formation of boron carbonitride nanotubes from in situ grown carbon nanotubes for space applications. 2004 , 851, 151	
1961	Biomimetic synthesis of BaSO ₄ nanotubes using eggshell membrane as template. 2004 , 19, 2803-2806	14
1960	Tellurium nanotubes and nanorods synthesized by physical vapor deposition. 2004 , 19, 2159-2164	16
1959	Synthesis, Analysis, and Electrical Property Measurements of Compound Nanotubes in the B-C-N Ceramic System. 2004 , 29, 38-42	48
1958	Orientalional distribution of CO before and after photolysis of MbCO and HbCO: a determination using time-resolved polarized Mid-IR spectroscopy. 2004 , 126, 7946-57	53
1957	Synthesis, Atomic Structures, and Electronic States of Boron Nitride Nanocage Clusters and Nanotubes. 2004 , 19, 1215-1239	61
1956	Materials physics: doping control for nanotubes. 2004 , 431, 640-1	28

1955	Cell biology: light on pits. 2004 , 431, 641-2	
1954	Quasi-classical estimates of the lattice constant and band gap of a crystal: Two-dimensional boron nitride. 2004 , 46, 2126-2133	7
1953	DFT studies of electro-conductivity of carbon-doped boron nitride nanotube. 2004 , 88, 244-249	45
1952	Low temperature synthesis and characterization of molybdenum disulfide nanotubes and nanorods. 2004 , 87, 87-90	98
1951	Catalytic synthesis of long NbS ₂ nanowire strands. 2004 , 39, 901-908	19
1950	Synthesis and characterization of ZnS nanowires by AOT micelle-template inducing reaction. 2004 , 39, 1517-1524	26
1949	Theoretical study of Si impurities in BN nanotubes. 2004 , 38, 515-518	22
1948	Formation of nanooctahedra in molybdenum disulfide and molybdenum diselenide using pulsed laser vaporization. 2004 , 108, 6197-207	68
1947	Solvent and Protein Effects on the Vibrational Frequency Shift and Energy Relaxation of the Azide Ligand in Carbonic Anhydrase. 2004 , 108, 13501-13512	33
1946	The synthesis of boron nitride nanotubes by an extended vapour-liquid-solid method. 2004 , 15, 727-730	31
1945	Synthesis of ZrC hollow nanospheres at low temperature. 2004 , 262, 277-280	29
1944	Molecular mechanics of structural properties of boron nitride nanotubes. 2004 , 23, 26-30	44
1943	Nanotubular structures of zinc oxide. 2004 , 129, 671-675	81
1942	NMR study of boron nitride nanotubes. 2004 , 130, 45-48	8
1941	Growth and characterization of single-crystal ZnSe nanorods via surfactant soft-template method. 2004 , 130, 241-245	53
1940	High-resolution electron microscopy of boron nitride nanotube with yttrium nanowire. 2004 , 65, 359-361	13
1939	A study of the mechanically milled h-BN-H system. 2004 , 78, 1235-1239	10
1938	Molecular dynamics simulation of C ₆₀ encapsulated in boron nitride nanotubes. 2004 , 241, 1783-1788	16

1937	Selected-Control Solvothermal Synthesis of Nanoscale Hollow Spheres and Single-Crystal Tubes of PbTe. 2004 , 2004, 4521-4524	51
1936	Synthesis of scroll-type composite microtubes of Mo ₂ C/MoCO by controlled pyrolysis of Mo(CO) ₆ . 2004 , 10, 433-9	19
1935	Hollow boron nitride (BN) nanocages and BN-nanocage-encapsulated nanocrystals. 2004 , 10, 3667-72	42
1934	Atmospheric pressure chemical vapor deposition: an alternative route to large-scale MoS ₂ and WS ₂ inorganic fullerene-like nanostructures and nanoflowers. 2004 , 10, 6163-71	138
1933	Atomic and electronic structures of endohedral B ₃₆ N ₃₆ clusters with doping elements studied by molecular orbital calculations. 2004 , 349, 254-259	13
1932	Formation and atomic structures of B _n N _n (n=24-80) clusters studied by mass spectrometry, high-resolution electron microscopy and molecular orbital calculations. 2004 , 351, 184-190	71
1931	Formation and structure of B ₂₈ N ₂₈ clusters studied by mass spectrometry and molecular orbital calculation. 2004 , 130, 171-173	22
1930	Formation and structures of B ₃₆ N ₃₆ and Y@B ₃₆ N ₃₆ clusters studied by high-resolution electron microscopy and mass spectrometry. 2004 , 65, 369-372	39
1929	Hydrogen storage in boron nitride nanomaterials studied by TG/DTA and cluster calculation. 2004 , 65, 549-552	90
1928	Fabrication, structural characterization and optical properties of semiconducting gallium oxide nanobelts. 2004 , 322, 363-368	37
1927	Synthesis and morphology control of nanocrystalline boron nitride. 2004 , 177, 721-724	45
1926	A novel and low-temperature hydrothermal synthesis of SnO ₂ nanorods. 2004 , 7, 929-931	46
1925	Phases and crystallization of encapsulated cobalt nanorods inside BN nanotubes. 2004 , 52, 601-606	37
1924	Boron nitride nanotubes as nanocrucibles for morphology and phase transformations in encapsulated nanowires of the MgO system. 2004 , 52, 3295-3303	26
1923	Fabrication of large-scale Si ₃ N ₄ nanotubes on Si(1 1 1) by hot-wall chemical-vapor-deposition with the assistance of Ga ₂ O ₃ . 2004 , 229, 9-12	11
1922	Structures of sub-monolayered silicon carbide films. 2004 , 237, 176-180	7
1921	Fullerene-like cages versus alternant cages: isomer stability of B ₁₃ N ₁₃ , B ₁₄ N ₁₄ , and B ₁₆ N ₁₆ . 2004 , 383, 95-98	59
1920	Intensive blue-light emission from semiconductor GaN nanowires sheathed with BN layers. 2004 , 383, 423-427	12

1919	What is the most stable B ₂₄ N ₂₄ fullerene?. 2004 , 386, 369-372	63
1918	Novel synthesis of nanocrystalline TiC hollow polyhedrons. 2004 , 388, 58-61	15
1917	Hexaniobate nanotubes with variable interlayer spacings. 2004 , 400, 536-540	11
1916	Quasiparticle effects and optical absorption in small fullerene-like GaP clusters. 2004 , 70,	21
1915	Molecular Dynamics Simulations of Single-wall GaN Nanotubes. 2004 , 30, 29-35	17
1914	Facile nanocoating method: From B-doped to BN-coated one-dimensional nanostructures. 2004 , 85, 106-108	9
1913	Growth of Well Aligned IrO ₂ Nanotubes on LiTaO ₃ (012) Substrate. 2004 , 16, 2457-2462	26
1912	Carbon nanotubes: synthesis and properties, electronic devices and other emerging applications. 2004 , 49, 325-377	209
1911	Shape and complexity at the atomic scale: the case of layered nanomaterials. 2004 , 362, 2039-63	15
1910	Microemulsion-based synthesis of titanium phosphate nanotubes via amine extraction system. 2004 , 126, 8882-3	67
1909	Kekulé count in capped zigzag boron-nitride nanotubes. 2004 , 44, 13-20	5
1908	Exceptionally stable, hollow tubular metal-organic architectures: synthesis, characterization, and solid-state transformation study. 2004 , 126, 3576-86	376
1907	Molecular structures of alumina nanoballs and nanotubes: a theoretical study. 2004 , 43, 1184-9	25
1906	Activated Boron Nitride Derived from Activated Carbon. 2004 , 4, 173-176	88
1905	Twist of hypothetical silicon nanotubes. 2004 , 12, 1-12	23
1904	Hydrothermal synthesis of prismatic NaHoF(4) microtubes and NaSmF(4) nanotubes. 2004 , 43, 1594-6	61
1903	Inorganic Nanotubes Stabilized by Ion Size Asymmetry: Energy Calculations for AgI Clusters. 2004 , 108, 8412-8418	22
1902	Molecular dynamics investigation of the mechanical properties of gallium nitride nanotubes under tension and fatigue. 2004 , 15, 1737-1744	39

1901	Boron nitride nanomesh. <i>Science</i> , 2004 , 303, 217-20	33.3	782
1900	Hydrogen adsorption on boron nitride nanotubes: A path to room-temperature hydrogen storage. 2004 , 69,		220
1899	Large-scale synthesis of uniform nanotubes of a nickel complex by a solution chemical route. 2004 , 126, 4530-1		60
1898	Electronic Structure of Subnanometer Diameter MoS ₂ Nanotubes. 2004 , 4, 1749-1753		13
1897	Synergic nitrogen source route to inorganic fullerene-like boron nitride with vessel, hollow sphere, onion, and peanut nanostructures. 2004 , 43, 822-9		47
1896	Encapsulation of One-Dimensional Potassium Halide Crystals within BN Nanotubes. 2004 , 4, 1355-1357		67
1895	Growth of NaFe ₄ P ₁₂ Skutterudite Single Crystalline Nanosprings Synthesized through a Hydrothermal Reduction Alloying Method. 2004 , 108, 13254-13257		8
1894	Atomic structures and stabilities of zigzag- and armchair-type boron nitride nanotubes studied by high-resolution electron microscopy and molecular mechanics calculation. 2004 , 13, 1254-1260		14
1893	Iron fine particles coated with boron nitride nanolayers synthesized by a solid phase reaction. 2004 , 13, 1139-1143		12
1892	First-Principles Calculations on Boron Nitride Nanotubes. 2004 , 73, 2469-2472		10
1891	Atomic-scale nanowires: physical and electronic structure. 2004 , 16, R721-R754		66
1890	New Quantum Nanostructures. 2004 , 87-94		
1889	Tuning the electronic properties of boron nitride nanotubes with transverse electric fields: A giant dc Stark effect. 2004 , 69,		224
1888	Vacancy-mediated mechanism of nitrogen substitution in carbon nanotubes. 2004 , 69,		36
1887	Deformation-induced site selectivity for hydrogen adsorption on boron nitride nanotubes. 2004 , 69,		68
1886	Direct Fabrication of Composite and Ceramic Hollow Nanofibers by Electrospinning. 2004 , 4, 933-938		1049
1885	Effect of Sheet Distance on the Optical Properties of Vanadate Nanotubes. 2004 , 16, 731-736		45
1884	Inorganic nanotubes. 2004 , 362, 2099-125		171

1883	Molecular-dynamics simulation of structure and thermal behaviour of boron nitride nanotubes. 2004 , 15, 431-434	74
1882	Inorganic Fullerenes, Onions, and Tubes. 2004 , 81, 673	11
1881	Improved Optoelectronic Characteristics of Light-Emitting Diodes by Using a Dehydrated Nanotube Titanic Acid (DNNTA) Polymer Nanocomposite. 2004 , 108, 13928-13931	34
1880	Atomistic study of III-nitride nanotubes. 2004 , 31, 237-246	42
1879	Formation of nanosized particles encapsulated in boron nitride during low-temperature annealing of mechanochemically treated FeBN mixtures. 2004 , 372, 141-147	17
1878	Synthesis of BN nanotubes by means of gas arc discharge with a rotating anode. 2004 , 58, 2878-2881	12
1877	Formation of nanocrystalline BN with a simple chemical route. 2004 , 58, 3301-3303	25
1876	Bulk synthesis of single-crystalline magnesium oxide nanotubes. 2004 , 43, 2462-4	94
1875	Specific heat and quantized thermal conductance of single-walled boron nitride nanotubes. 2004 , 69,	142
1874	Review of hydrogen storage in inorganic fullerene-like nanotubes. 2004 , 78, 989-994	80
1873	A Low-temperature Coreduction Route to Boron Nitride Flakes and Hollow Spheres. 2004 , 33, 144-145	5
1872	Novel SiO ₂ Nanotubes: Synthesis from ZnS Nanowires Templates and Visible Photoluminescence at 615 nm. 2004 , 33, 1638-1639	7
1871	Research on bamboo-like one dimensional o-BN nanowire. 2005 , 25, 409-413	7
1870	Theoretical study of defects of BN nanotubes: A molecular-mechanics study. 2005 , 28, 419-422	10
1869	Preparation and characterization of single-phase SiC nanotubes and C-SiC coaxial nanotubes. 2005 , 28, 431-438	77
1868	Nanoscience: The quantum frontier. 2005 , 29, 447-453	4
1867	Novel CuS hollow spheres fabricated by a novel hydrothermal method. 2005 , 80, 153-156	58
1866	Raman study of titania nanotube by soft chemical process. 2005 , 749, 103-107	176

1865	Structure and stability of boron nitrides: isomer of B ₃₂ N ₃₂ . 2005 , 717, 107-109	19
1864	Structure and stability of boron nitrides: the B ₂₈ N ₂₈ isomers. 2005 , 714, 153-155	23
1863	Encapsulations of La@C ₈₂ and La ₂ @C ₈₀ inside single-walled boron nitride nanotubes. 2005 , 730, 121-124	4
1862	Thorn-like BN nanostructures. 2005 , 133, 139-143	9
1861	Formation and electronic properties of double-walled boron nitride nanotubes. 2005 , 134, 397-402	43
1860	Constricted boron nanotubes. 2005 , 402, 21-26	45
1859	Synthesis, characterization and properties of novel BN nanocages from a single-source precursor. 2005 , 405, 229-233	15
1858	Theoretical interpretation of different nanotube morphologies among Group III (B, Al, Ga) nitrides. 2005 , 408, 145-149	58
1857	Theoretical prediction of a novel inorganic fullerene-like family of silicon-carbon materials. 2005 , 411, 333-338	90
1856	Synthesis and state of art characterization of BN bamboo-like nanotubes: Evidence of a root growth mechanism catalyzed by Fe. 2005 , 416, 342-348	38
1855	Decay of core excitations in bulk h-BN studied with resonant Auger spectroscopy. 2005 , 148, 59-64	4
1854	Exact calculation of the phase properties of one dimensional finite lattice gas systems. 2005 , 45, 515-521	
1853	New class of non-carbon ALP nanotubes: Structure and electronic properties. 2005 , 81, 185-189	13
1852	Nonchiral BN Haeckelite nanotubes. 2005 , 81, 346-350	5
1851	Effect of intrinsic defects on the electronic structure of BN nanotubes. 2005 , 82, 737-741	9
1850	Synthesis of Silicon Carbide Nanotubes. 2005 , 88, 459-461	117
1849	Polygonal Single-Crystal Aluminum Borate Microtubes. 2005 , 88, 485-487	16
1848	A simple approach to synthesize KNiF ₃ hollow spheres by solvothermal method. 2005 , 89, 373-378	12

1847	Template synthesis of boron nitride nanotubes in mesoporous silica SBA-15. 2005 , 59, 925-928	12
1846	Copper sulfide micro-tubes fabricated by thermal evaporation of zinc sulfide. 2005 , 59, 2094-2096	7
1845	Facile large scale synthesis of WS ₂ nanotubes from WO ₃ nanorods prepared by a hydrothermal route. 2005 , 7, 67-72	92
1844	Electrochemical Deposition of Ni(OH) ₂ and Fe-Doped Ni(OH) ₂ Tubes. 2005 , 2005, 4035-4039	56
1843	Structure and Stability of B ₂₀ N ₂₀ Cluster. 2005 , 23, 117-120	11
1842	Cerium phosphate nanotubes: synthesis, valence state, and optical properties. 2005 , 44, 576-9	93
1841	Single-crystalline iron oxide nanotubes. 2005 , 44, 4328-33	475
1840	Preparation and structural characterization of stable Cs ₂ O closed-cage structures. 2005 , 44, 4169-72	21
1839	Characteristics of boron nitride nanotube-polyaniline composites. 2005 , 44, 7929-32	136
1838	Cerium Phosphate Nanotubes: Synthesis, Valence State, and Optical Properties. 2005 , 117, 582-585	27
1837	Single-Crystalline Iron Oxide Nanotubes. 2005 , 117, 4402-4407	107
1836	Preparation and Structural Characterization of Stable Cs ₂ O Closed-Cage Structures. 2005 , 117, 4241-4244	1
1835	Characteristics of Boron Nitride Nanotube-Polyaniline Composites. 2005 , 117, 8143-8146	13
1834	Co ₃ O ₄ Nanomaterials in Lithium-Ion Batteries and Gas Sensors. 2005 , 15, 851-857	1056
1833	Single-Crystalline AlN Nanotubes with Carbon-Layer Coatings on the Outer and Inner Surfaces via a Multiwalled-Carbon-Nanotube-Template-Induced Route. 2005 , 17, 213-217	102
1832	Single-Crystalline, Submicrometer-Sized ZnSe Tubes. 2005 , 17, 975-979	49
1831	Cerium Oxide Nanotubes Prepared from Cerium Hydroxide Nanotubes. 2005 , 17, 3005-3009	182
1830	Multiple-walled BN nanotubes obtained with a mechanical alloying technique. 2005 , 80, 377-380	6

1829	Growth of boron nitride nanotube film in situ. 2005 , 81, 527-529	16
1828	A reduction-oxidation route to boron nitride nanotubes. 2005 , 81, 1035-1037	14
1827	GaS multi-walled nanotubes from the lamellar precursor. 2005 , 80, 1413-1417	22
1826	Single-crystalline ZnS tubular structures: preparation and characterization. 2005 , 80, 1689-1692	3
1825	Methylene-bridged carbosilanes and polycarbosilanes as precursors to silicon carbide from ceramic composites to SiC nanomaterials. 2005 , 25, 233-241	47
1824	Low-temperature, solvent-free solid-state synthesis of single-crystalline titanium nitride nanorods with different aspect ratios. 2005 , 178, 755-760	43
1823	Stability and electronic structure of BN negative disclination. 2005 , 178, 3090-3094	4
1822	¹¹ B nuclear magnetic resonance study of boron nitride nanotubes prepared by mechano-thermal method. 2005 , 134, 419-423	5
1821	Effective precursor for high yield synthesis of pure BN nanotubes. 2005 , 135, 67-70	243
1820	Comparative analysis of surface electrostatic potentials of carbon, boron/nitrogen and carbon/boron/nitrogen model nanotubes. 2005 , 11, 1-7	52
1819	The structure and stability of B ₃₆ N ₃₆ cages: a computational study. 2005 , 12, 1-8	26
1818	Double-helix structure in multiwall boron nitride nanotubes. 2005 , 61, 533-41	54
1817	Nanoprocessing of polymers: applications in medicine, sensors, catalysis, photonics. 2005 , 16, 276-282	243
1816	A general in situ hydrothermal rolling-up formation of one-dimensional, single-crystalline lead telluride nanostructures. 2005 , 1, 349-54	71
1815	Synthesis of fullerene-like tantalum disulfide nanoparticles by a gas-phase reaction and laser ablation. 2005 , 1, 1100-9	40
1814	Boron nitride nanocages synthesized by a moderate thermochemical approach. 2005 , 1, 1199-203	37
1813	Preparation of SiC nanowires and SiC@BN nanocables. 2005 , 124, 99-102	8
1812	Stable Shapes of Thin Anisotropic Nano-strips. 2005 , 13, 183-192	13

1811 Methane/water Adsorption Properties of Synthetic Imogolite Nanotubes. **2005**, 878, 1

1810 Half-metallic ferromagnetism in transition-metal encapsulated boron nitride nanotubes. **2005**, 7, 39-39 50

1809 A new method for the preparation of self-assembled phospholipid microtubes using microfluidic technology.

1808 Enhancement of Formation in Boron-Carbon-Nitrogen Nanotubes by Plasma Rotating Electrode Process. **2005**, 44, L1034-L1037 1

1807 Fabrication of PbCrO₄ nanostructures: from nanotubes to nanorods. **2005**, 16, 2619-2624 17

1806 Theoretical study on interaction of hydrogen with single-walled boron nitride nanotubes. II. Collision, storage, and adsorption. **2005**, 123, 114704 41

1805 Exohedral doping of single-walled boron nitride nanotube by atomic chemisorption. **2005**, 87, 243105 36

1804 Template-free synthesis of helical hexagonal microtubes of indium nitride. **2005**, 87, 063109 30

1803 Thermal conductivity of B₁₁N and BN nanotubes. **2005**, 86, 173102 101

1802 Raman spectra of BN nanotubes: Ab initio and bond-polarizability model calculations. **2005**, 71, 36

1801 Precision cutting of nanotubes with a low-energy electron beam. **2005**, 86, 053109 135

1800 Theoretical infrared, Raman, and optical spectra of the B₃₆N₃₆ cage. **2005**, 71, 22

1799 Synthesis and characterization of ZnSe hollow nanospheres via a hydrothermal route. **2005**, 16, 551-554 55

1798 Tubular form of aluminates with metallic conduction: Density-functional calculations. **2005**, 72, 2

1797 Rate theory of yield in boron nitride nanotubes. **2005**, 72, 40

1796 Electronic structure of octahedral trivalent cages consisting of hexagons and squares. **2005**, 71, 3

1795 A versatile solution route for oxide/sulfide core-shell nanostructures and nonlayered sulfide nanotubes. **2005**, 16, 2721-2725 22

1794 Optical Transitions in a Self-Assembled Ge Quantum Dot/Si Superlattice Measured by Photorefectance Spectroscopy. **2005**, 44, L1045-L1047

1793	Formation energy of native defects in BN nanotubes: an ab initio study. 2005 , 16, 827-831	69
1792	Thermal conductivity of B-C-N and BN nanotubes. 2005 , 23, 1883	32
1791	Two-dimensional atomic crystals. 2005 , 102, 10451-3	8888
1790	Large-scale fabrication of boron nitride nanohorn. 2005 , 87, 063107	39
1789	Storage of molecular hydrogen in B-N cage: energetics and thermal stability. 2005 , 5, 1273-7	96
1788	Some recent developments in the chemical synthesis of inorganic nanotubes. 2005 , 5013-22	110
1787	Excited state property of hardly photodissociable heme-CO adduct studied by time-dependent density functional theory. 2005 , 109, 21110-7	17
1786	Excited-state structure determination of the green fluorescent protein chromophore. 2005 , 127, 11214-5	66
1785	Quantitative phase analysis of boron nitride nanotubes using Rietveld refinement. 2005 , 38, 1127-1131	8
1784	Tubular configurations and structure-dependent anisotropic strains in GaS multi-walled sub-microtubes. 2005 , 127, 16860-5	14
1783	Porous BCN nanotubular fibers: growth and spatially resolved cathodoluminescence. 2005 , 127, 16354-5	76
1782	Temperature-dependent studies of NO recombination to heme and heme proteins. 2005 , 127, 16921-34	82
1781	In Situ Formation of BN Nanotubes during Nitriding Reactions. 2005 , 17, 5172-5176	68
1780	Metalloporphyrin-NO bonding: building bridges with organometallic chemistry. 2005 , 38, 943-54	97
1779	Structural evolution of the chromophore in the primary stages of trans/cis isomerization in photoactive yellow protein. 2005 , 127, 18100-6	102
1778	Electronic structure of boron nitride cone-shaped nanostructures. 2005 , 72,	12
1777	Low temperature growth of boron nitride nanotubes on substrates. 2005 , 5, 2528-32	152
1776	InOOH hollow spheres synthesized by a simple hydrothermal reaction. 2005 , 109, 20676-9	58

1775	Vapor-solid growth and characterization of aluminum nitride nanocones. 2005 , 127, 1318-22	243
1774	Structure and formation of H ₂ Ti ₃ O ₇ nanotubes in an alkali environment. 2005 , 71,	139
1773	The theoretical study on interaction of hydrogen with single-walled boron nitride nanotubes. I. The reactive force field ReaxFF(HBN) development. 2005 , 123, 114703	51
1772	Uniform and high-quality submicrometer tubes of GaS layered crystals. 2005 , 87, 153112	21
1771	Preparation and electrochemical hydrogen storage of boron nitride nanotubes. 2005 , 109, 11525-9	109
1770	Synthesis and optical properties of gallium phosphide nanotubes. 2005 , 109, 19719-22	53
1769	Structural characterizations and electronic properties of boron nitride nanotube crystalline bundles. 2005 , 123, 124716	18
1768	Synthesis, characterization, and electrochemical application of Ca(OH) ₂ -, Co(OH) ₂ -, and Y(OH) ₃ -Coated Ni(OH) ₂ tubes. 2005 , 109, 14025-32	72
1767	Self-assembly of aligned ZnO nanoscrews: Growth, configuration, and field emission. 2005 , 86, 083106	62
1766	Structural, optical, and electronic properties of vanadium oxide nanotubes. 2005 , 72,	30
1765	X-ray absorption near edge structure study of BN nanotubes and nanothorns. 2005 , 109, 7007-11	30
1764	One-step preparation of single-crystalline beta-MnO ₂ nanotubes. 2005 , 109, 16439-43	183
1763	Theoretical study of main-group metal-borazine sandwich complexes. 2005 , 109, 1458-67	19
1762	Structure and properties of ZnS nanoclusters. 2005 , 109, 2703-9	98
1761	Geometrical structures and electronic properties of AlN fullerenes: A comparative theoretical study of AlN fullerenes with BN and C fullerenes. 2005 , 15, 3034	21
1760	Fluorination and electrical conductivity of BN nanotubes. 2005 , 127, 6552-3	202
1759	Resonant Raman scattering in cubic and hexagonal boron nitride. 2005 , 71,	279
1758	Structure and chirality distribution of multiwalled boron nitride nanotubes. 2005 , 86, 133110	31

1757	Effects of temperature, strain rate, and vacancies on tensile and fatigue behaviors of silicon-based nanotubes. 2005 , 71,	23
1756	Formation of boron carbonitride nanotubes from in situ grown carbon nanotubes. 2005 , 14, 965-969	21
1755	Electron energy loss spectroscopy measurement of the optical gaps on individual boron nitride single-walled and multiwalled nanotubes. 2005 , 95, 127601	179
1754	A facile sulfur vapor assisted reaction method to grow boron nitride nanorings at relative low temperature. 2005 , 109, 19188-90	12
1753	Excitons in boron nitride nanotubes: dimensionality effects. 2006 , 96, 126104	319
1752	Large scale synthesis of uniform CuS nanotubes in ethylene glycol by a sacrificial templating method under mild conditions. 2006 , 16, 3326	158
1751	One-step method for the self-assembly of metal nanoparticles onto faceted hollow silica tubes. 2006 , 16, 3619	33
1750	Metastable gamma-MnS hierarchical architectures: synthesis, characterization, and growth mechanism. 2006 , 110, 8284-8	122
1749	Measurement of wetting properties of individual boron nitride nanotubes with the wilhelmy method using a nanotube-based force sensor. 2006 , 6, 329-33	73
1748	Synthesis Methods and Growth Mechanisms. 2006 , 49-130	27
1747	Electronic Structure. 2006 , 199-276	2
1746	On the mechanical behavior of WS ₂ nanotubes under axial tension and compression. 2006 , 103, 523-8	233
1745	Fabrication of bismuth subcarbonate nanotube arrays from bismuth citrate. 2006 , 2265-7	128
1744	Optical properties of BN nanotubes. 2006 ,	0
1743	Towards helical and Y-shaped carbon nanotubes: the role of sulfur in CVD processes. 2006 , 17, 4292-4299	27
1742	Structural and electronic properties of fluorinated boron nitride nanotubes. 2006 , 110, 14092-7	47
1741	Boron nitride nanotubes/polystyrene composites. 2006 , 21, 2794-2800	126
1740	Engineering of electronic structure of boron-nitride nanotubes by covalent functionalization. 2006 , 74,	84

1739	Defects-enhanced dissociation of H ₂ on boron nitride nanotubes. 2006 , 124, 054706	59
1738	An effective approach to grow boron nitride nanowires directly on stainless-steel substrates. 2006 , 17, 2942-2946	28
1737	Stability and electronic structure of B _x N _y C _z nanotubes. 2006 , 18, 10871-10879	38
1736	Excitons and many-electron effects in the optical response of single-walled boron nitride nanotubes. 2006 , 96, 126105	115
1735	Formation mechanism of silicon carbide nanotubes with special morphology. 2006 , 100, 046105	21
1734	Size-tunable synthesis of SiO(2) nanotubes via a simple in situ templatelike process. 2006 , 110, 23170-4	17
1733	Formation and growth mechanism of B ₁₀ N nanotubes via a carbon nanotube substitution reaction. 2006 , 89, 173103	23
1732	Chapter 2 Predicting Materials and Properties: Theory of the Ground and Excited State. 2006 , 9-53	8
1731	Green chemistry and the health implications of nanoparticles. 2006 , 8, 417	457
1730	Chemical functionalization of boron-nitride nanotubes with NH ₃ and amino functional groups. 2006 , 128, 12001-6	152
1729	Purification of boron nitride nanotubes through polymer wrapping. 2006 , 110, 1525-8	70
1728	Field nanoemitters: ultrathin BN nanosheets protruding from Si ₃ N ₄ nanowires. 2006 , 6, 2982-6	61
1727	Self-Assembled, Discrete Organic Tubular Crystals with Controllable Sizes by Simple Sublimation. 2006 , 6, 1559-1562	9
1726	Solution-based synthetic strategies for 1-D nanostructures. 2006 , 45, 7522-34	161
1725	Inorganic single wall nanotubes of SbPS(4-x)Se(x) (0 ≤ x ≤ 4). 2006 , 128, 6538-9	39
1724	Atomic and electronic structures of fluorinated BN nanotubes: computational study. 2006 , 110, 25678-85	64
1723	Electronic and Structural Properties of Oxygen-Doped BN Nanotubes. 2006 , 5, 517-522	48
1722	Synthesis and Characterization of Various One-Dimensional Semiconducting Nanostructures. 2006 , 131-167	

1721	Redox-coupled dynamics and folding in cytochrome c. 2006 , 128, 7909-15	35
1720	Accurate Structure Determination of Mo6Sylz Nanowires from Atomic Pair Distribution Function (PDF) Analysis. 2006 , 18, 100-106	22
1719	Theoretical nitrogen NMR chemical shifts in octahedral boron nitride cages. 2006 , 110, 10844-7	26
1718	Tremendous spin-splitting effects in open boron nitride nanotubes: application to nanoscale spintronic devices. 2006 , 128, 8453-8	82
1717	A family of stable silica fullerenes with fully coordinated structures. 2006 , 110, 17757-62	8
1716	Carbon-coated single-crystalline zinc sulfide nanowires. 2006 , 110, 20777-80	28
1715	Effect of annealing temperature on phase transition and optical property of titanate nanotubes prepared by ion exchange approach. 2006 , 424, 311-314	22
1714	Boron: Inorganic Chemistry. 2006 ,	1
1713	Non-steady-state photoelectromotive force in layered BN crystal. 2006 , 6029, 475	
1712	Conical Boron Nitride Nanorods Synthesized Via the Ball-Milling and Annealing Method. 2006 , 89, 675-679	34
1711	Formation of Silicon-Doped Boron Nitride Bamboo Structures Via Pyrolysis of a Polymeric Precursor. 2006 , 89, 740-742	29
1710	Towards a periodic table for the nanomechanical properties of the elements. 2006 , 43, 5647-5657	10
1709	Comparative high pressure Raman study of boron nitride nanotubes and hexagonal boron nitride. 2006 , 421, 86-90	45
1708	Spectroscopic constants and potential energy curves of gallium nitride (GaN) and ions: GaN ⁺ and GaN ²⁺ . 2006 , 423, 247-253	14
1707	Selective adsorption of first-row atoms on BN nanotubes. 2006 , 426, 148-154	27
1706	Crystalline boron nanowires grown by magnetron sputtering. 2006 , 434, 53-57	5
1705	The structure and electronic property of BN nanotube. 2006 , 381, 90-95	47
1704	Theoretical study of hydrogen atom adsorbed on carbon-doped BN nanotubes. 2006 , 357, 369-373	52

1703	Manipulating self-assembled phospholipid microtubes using microfluidic technology. 2006 , 117, 464-471	22
1702	Growth of nanowires from annealing SiBONC nanopowders. 2006 , 290, 466-472	16
1701	Growth of microtubular complexes as precursors to synthesize nanocrystalline ZnS and CdS. 2006 , 291, 45-51	53
1700	Synthesis of Co nanocapsules coated with BN layers by annealing of KBH ₄ and [Co(NH ₃) ₆]Cl ₃ . 2006 , 137, 44-48	7
1699	First-principles study of single-walled armchair C _x (BN) _y nanotubes. 2006 , 137, 549-552	15
1698	Solid-state tubular assemblies of thiolactones: synthesis and structural characterization. 2006 , 62, 2868-2876	10
1697	CVD growth of cubic boron nitride: A theoretical/experimental approach. 2006 , 515, 401-406	17
1696	Tantalum disulfide nanobelts: preparation, superconductivity and field emission. 2006 , 17, 201-205	36
1695	Colloids seeded deposition: growth of titania nanotubes in solution. 2006 , 128, 11042-3	34
1694	Synthesis of inorganic fullerene-like WS ₂ nanoparticles and their lubricating performance. 2006 , 17, 1512-1519	51
1693	Polymorphism and Structure of Carbons. 2006 , 1-47	4
1692	Geometric structure and electronic properties of planar and nanotubular BN structures of the Haeckelite type. 2006 , 48, 192-198	5
1691	Structure and properties of BeO nanotubes. 2006 , 48, 398-401	63
1690	Friction coefficient for hexagonal boron nitride surfaces from ab initio calculations. 2006 , 24, 37-41	26
1689	Ab initio calculations of structure and stability of small boron nitride clusters. 2006 , 47, 1016-1021	15
1688	Hydrothermal synthesis and characterization of novel aloe-like SnS ₂ nanostructures. 2006 , 41, 3489-3492	15
1687	Boron nitride cages from B ₁₂ N ₁₂ to B ₃₆ N ₃₆ : square-hexagon alternants vs boron nitride tubes. 2006 , 12, 537-42	51
1686	Synthesis of boron nitride nanotubes by arc-jet plasma. 2006 , 6, 166-170	35

1685	Theory and simulation of charge transfer through DNA Nanotube contacts. 2006 , 327, 98-104	6
1684	Mechanosynthesis of Boron Nitride Nanotubes. 2006 , 14, 389-393	13
1683	Nanostructures of the binary nitrides, BN, TiN, and NbN, prepared by the urea-route. 2006 , 41, 941-947	48
1682	Closed-cage (fullerene-like) structures of NiBr ₂ . 2006 , 41, 2137-2146	17
1681	Hydrothermal synthesis, characterization and properties of SnS nanoflowers. 2006 , 60, 2686-2689	54
1680	Hollow and polygonous microtubes of monocrystalline indium germanate. 2005 , 45, 228-31	25
1679	Chemical peeling and branching of boron nitride nanotubes in dimethyl sulfoxide. 2006 , 45, 2044-7	28
1678	Formation of crystalline SrAl ₂ O ₄ nanotubes by a roll-up and post-annealing approach. 2006 , 45, 4922-6	37
1677	Noncrystalline metal-boron nanotubes: synthesis, characterization, and catalytic-hydrogenation properties. 2006 , 45, 7211-4	41
1676	Single-crystal nanotubes of III-V ₂ semiconductors. 2006 , 45, 7568-72	74
1675	Electrostatic Forces Induce Poly(vinyl alcohol)-Protected Copper Nanoparticles to Form Copper/Poly(vinyl alcohol) Nanocables via Electrospinning. 2006 , 27, 152-155	62
1674	Hollow and Polygonous Microtubes of Monocrystalline Indium Germanate. 2006 , 118, 234-237	2
1673	Chemical Peeling and Branching of Boron Nitride Nanotubes in Dimethyl Sulfoxide. 2006 , 118, 2098-2101	7
1672	Formation of Crystalline SrAl ₂ O ₄ Nanotubes by a Roll-Up and Post-Annealing Approach. 2006 , 118, 5044-5048	11
1671	Noncrystalline Metal-Boron Nanotubes: Synthesis, Characterization, and Catalytic-Hydrogenation Properties. 2006 , 118, 7369-7372	5
1670	Single-Crystal Nanotubes of III-V ₂ Semiconductors. 2006 , 118, 7730-7734	8
1669	Isotopically Enriched 10BN Nanotubes. 2006 , 18, 2157-2160	45
1668	Controlled Synthesis of Bismuth Oxide Nanowires by an Oxidative Metal Vapor Transport Deposition Technique. 2006 , 18, 2604-2608	95

1667	Possiblegraphitic-boron-nitride-based metal-free molecular magnets from first principles study. 2006 , 18, 569-575	20
1666	PLATELET BORON NITRIDE NANOWIRES. 2006 , 01, 65-71	7
1665	Generalized Bloch states and potentials of nanotubes and other quasi-1D systems. 2006 , 39, 11833-11846	5
1664	Surface Modification of Inorganic Nanotubes by Atom Transfer Radical Polymerization. 2006 , 279-294	0
1663	Zinc oxide microtubes prepared by optical thermal evaporation. 2006 , 39, 46-49	19
1662	Single-source precursor for chemical vapour deposition of collapsed boron nitride nanotubes. 2006 , 17, 5882-5888	12
1661	Symmetry of rolled-up rectangular lattice nanotubes. 2006 , 18, 8139-8147	5
1660	Mechanical properties of titania-derived nanoribbons. 2006 , 17, 3869-3872	30
1659	Effect of growth conditions on B-doped carbon nanotubes. 2006 , 21, 3058-3064	9
1658	Novel Nanocarbons: Global Topology and Curvature Perspectives. 2006 , 960, 1	
1657	Geoinspired synthetic chrysotile nanotubes. 2006 , 21, 2711-2725	36
1656	Stability and electronic structure of InN nanotubes from first-principles study. 2006 , 15, 798-801	6
1655	Symmetry-, time-, and temperature-dependent strength of carbon nanotubes. 2006 , 103, 6105-9	208
1654	First-principles description of correlation effects in layered materials. 2006 , 96, 136404	178
1653	Linear optical properties of zigzag single-walled BN nanotube ensembles from a model calculation. 2006 , 74,	16
1652	Carbon nanotubes as nanoelectromechanical systems components. 2006 , 361-488	1
1651	Realization of conductive InAs nanotubes based on lattice-mismatched InP/InAs core-shell nanowires. 2006 , 88, 013110	72
1650	Ab initio study of single-wall BC ₂ N nanotubes. 2006 , 74,	37

1649	Deformation of multiwalled nanometer-sized carbon capsules. 2006 , 89, 191914	8
1648	Growth and structure of prismatic boron nitride nanorods. 2006 , 74,	11
1647	Patterned growth and cathodoluminescence of conical boron nitride nanorods. 2006 , 88, 093117	18
1646	Electro-optical modulation for a boron nitride nanotube probed by first-principles calculations. 2006 , 89, 223105	21
1645	Mechanical scratching induced phase transitions and reactions of boron carbide. 2006 , 100, 123517	28
1644	h-BN monolayer adsorption on the Ni(111) surface: A density functional study. 2006 , 74,	56
1643	Ab initio calculations of the dispersion contribution to the physisorption potential: Application to the N ₂ -BN system. 2006 , 73,	6
1642	Boron nitride microfibers grown by plasma-assisted laser chemical vapor deposition without a metal catalyst. 2006 , 88, 151914	6
1641	Theoretical investigation on the stability and properties of a (10,0) BN-AlN nanotube junction. 2006 , 17, 1637-41	17
1640	Pure boron nitride nanowires produced from boron triiodide. 2006 , 17, 786-789	36
1639	Length dependence of linear and nonlinear optical properties of finite-length BN(5,0) nanotube. 2006 , 15, 1563-1569	2
1638	Fabrication of GaN nanotubular material using MOCVD with an aluminium oxide membrane. 2006 , 17, 54-59	43
1637	SILICON-BASED HALF-METAL: METAL-ENCAPSULATED SILICON NANOTUBE. 2007 , 02, 109-114	8
1636	Inorganic Nanotubes and Fullerene-Like Structures (IF). 2007 , 631-671	41
1635	Nanotubes, Nanowires, Nanocantilevers and Nanorods in Cancer Treatment and Diagnosis. 2007 ,	
1634	Boron nitride nanotube branched nanojunctions. 2007 , 18, 155605	16
1633	First-principles study of interaction between H ₂ molecules and BN nanotubes with BN divacancies. 2007 , 127, 164718	18
1632	Phonon characteristics and photoluminescence of bamboo structured silicon-doped boron nitride multiwall nanotubes. 2007 , 90, 013115	23

1631	Theoretical study of size-dependent properties of BN nanotubes with intrinsic defects. 2007 , 76,	40
1630	Polygonization and anomalous graphene interlayer spacing of multi-walled carbon nanofibers. 2007 , 75,	22
1629	Crystal binding and metal-semiconductor transition in aluminate nanotube bundles. 2007 , 75,	1
1628	Structural and electronic properties of fluorinated double-walled boron nitride nanotubes: Effect of interwall interaction. 2007 , 75,	20
1627	Vibrational properties of hexagonal boron nitride: inelastic X-ray scattering and ab initio calculations. 2007 , 98, 095503	164
1626	Template fabrication of SiO ₂ nanotubes. 2007 , 90, 103114	9
1625	Controlled synthesis of quasi-one-dimensional boron nitride nanostructures. 2007 , 22, 2809-2816	14
1624	Self-assembly of versatile tubular-like In ₂ O ₃ nanostructures. 2007 , 18, 465605	14
1623	In situ synthesis of silica gel nanowire/Na ⁺ montmorillonite nanocomposites by the sol-gel route. 2007 , 18, 115620	7
1622	Adiabatic self-trapped states in zigzag nanotubes. 2007 , 19, 306205	3
1621	New type of BN nanoparticles and films prepared by synergetic deposition processes using laser and plasma: the nanostructures, properties and growth mechanisms. 2007 , 40, 2320-2340	17
1620	Energetics and electronic structures of AlN nanotubes/wires and their potential application as ammonia sensors. 2007 , 18, 424023	67
1619	An approach to control the radius and the chirality of nanotubes. 2007 , 18, 155703	24
1618	Electronic Structure and Energetics of MgB ₂ Nanotube. 2007 , 76, 043707	7
1617	Recent developments in single-crystal inorganic nanotubes synthesised from removable templates. 2007 , 4, 730	23
1616	Guest-Induced Assembly of PdII-Linked Coordination Nanotubes. 2007 , 80, 1473-1482	21
1615	Structural transitions of non-helical Au nanotubes induced by axial compression. 2007 , 19, 242205	1
1614	First-principles study of the electronic structure of aluminate nanotubes. 2007 , 61, 195-199	

1613	First-principles study: size-dependent optical properties for semiconducting silicon carbide nanotubes. 2007 , 15, 10947-57	35
1612	Computer simulation of hydrogen physisorption in single-walled boron nitride nanotube arrays. 2007 , 40, 341-344	21
1611	Nanoscale fracture mechanics. 2007 , 58, 185-209	36
1610	Direct Force Measurements and Kinking under Elastic Deformation of Individual Multiwalled Boron Nitride Nanotubes. 2007 , 7, 2146-2151	167
1609	Single-walled MoTe(2) nanotubes. 2007 , 7, 2987-92	32
1608	Single-Crystalline BiVO ₄ Microtubes with Square Cross-Sections: Microstructure, Growth Mechanism, and Photocatalytic Property. 2007 , 111, 13659-13664	232
1607	Clean and metal-doped bundles of boron-carbide nanotubes: A density functional study. 2007 , 76,	3
1606	Planar stacking effect on elastic stability of hexagonal boron nitride. 2007 , 90, 081922	35
1605	Selective Synthesis of Hollow and Filled Fullerene-like (IF) WS ₂ Nanoparticles via Metal-Organic Chemical Vapor Deposition. 2007 , 19, 6391-6400	45
1604	Bonding and structure in B _x N _y nanotubes (x,y = 1,2). 2007 , 17, 2892	11
1603	Grafting Boron Nitride Nanotubes: From Polymers to Amorphous and Graphitic Carbon. 2007 , 111, 1230-1233	37
1602	Harmonic generation of open-ended and capped carbon nanotubes investigated by time-dependent Hartree-Fock theory. 2007 , 75,	18
1601	Photoabsorption spectra of boron nitride fullerenelike structures. 2007 , 126, 214306	17
1600	Coordination polymer nanocombs self-assembled at the water/chloroform interface. 2007 , 31, 1007-1012	16
1599	Functionalization and solubilization of BN nanotubes by interaction with Lewis bases. 2007 , 17, 450-452	83
1598	Formation of nanostructured, nanocrystalline boron nitride microparticles with diatom-derived 3-D shapes. 2007 , 1177-9	48
1597	Coaxial Nanocables of AlN Nanowire Core and Carbon/BN Nanotube Shell. 2007 , 111, 18533-18537	14
1596	Root-growth mechanism for single-walled boron nitride nanotubes in laser vaporization technique. 2007 , 129, 16183-9	130

1595	Synthesis of Boron Nitride Nanotubes by a Template-Assisted Polymer Thermolysis Process. 2007 , 111, 13378-13384	68
1594	Microtubule formation using two-component gel system. 2007 , 129, 1040-1	63
1593	Static and Optical Transverse and Longitudinal Screened Polarizabilities of Boron Nitride Nanotubes. 2007 , 111, 3285-3289	16
1592	Nanocrystals to Nanorods: A Precursor Approach for the Synthesis of Magnesium Hydroxide Nanorods from Magnesium Oxychloride Nanorods Starting from Nanocrystalline Magnesium Oxide. 2007 , 19, 5395-5403	30
1591	Molecule Ordering Triggered by Boron Nitride Nanotubes and Green Chemical Functionalization of Boron Nitride Nanotubes. 2007 , 111, 18545-18549	33
1590	Hollow polyelectrolyte multilayer tubes: mechanical properties and shape changes. 2007 , 111, 8547-53	22
1589	Synthesis and Characterization of Single-Phase TiC Nanotubes, TiC Nanowires, and Carbon Nanotubes Equipped with TiC Nanoparticles. 2007 , 111, 18888-18891	47
1588	Time-dependent density functional theoretical study of the absorption properties of BN-substituted C60 fullerenes. 2007 , 111, 6901-3	21
1587	Geometric and Electronic Structures of Hydrogen-Stabilized Silicon Nitride Nanosheets and Nanotubes. 2007 , 111, 16840-16845	9
1586	First-Principles Study of the Oxygenation of Carbon Nanotubes and Boron Nitride Nanotubes. 2007 , 19, 3767-3772	11
1585	Boron nitride fullerene B36N36 doped with transition metal atoms: First-principles calculations. 2007 , 75,	32
1584	Synthesis and Structures of High-Quality Single-Crystalline In3V2Semiconductors Nanobelts. 2007 , 111, 5044-5049	29
1583	Magnetic properties of vacancies in a graphitic boron nitride sheet by first-principles pseudopotential calculations. 2007 , 75,	171
1582	Structural, elastic, and electronic properties of SiC, BN, and BeO nanotubes. 2007 , 76,	194
1581	Adsorption and Surface Reactivity on Single-Walled Boron Nitride Nanotubes Containing Stone-Wales Defects. 2007 , 111, 14105-14112	104
1580	Luminescence properties of hexagonal boron nitride: Cathodoluminescence and photoluminescence spectroscopy measurements. 2007 , 75,	123
1579	Morphology control of layer-structured gallium selenide nanowires. 2007 , 7, 199-203	71
1578	Structural and electronic properties of ZnO nanotubes from density functional calculations. 2007 , 18, 485713	68

1577	The stability and electronic structure of single-walled ZnO nanotubes by density functional theory. 2007 , 18, 345706	60
1576	Transformation from chemisorption to physisorption with tube diameter and gas concentration: computational studies on NH ₃ adsorption in BN nanotubes. 2007 , 127, 184705	42
1575	Imogolite nanotubes: stability, electronic, and mechanical properties. 2007 , 1, 362-8	148
1574	Controlled synthesis of high-quality nickel sulfide chain-like tubes and echinus-like nanostructures by a solution chemical route. 2007 , 18, 485609	29
1573	Growth of Magnetic Yard-Glass Shaped Boron Nitride Nanotubes with Periodic Iron Nanoparticles. 2007 , 17, 3371-3376	45
1572	Self-Assembly of a Dipeptide- Containing Conformationally Restricted Dehydrophenylalanine Residue to Form Ordered Nanotubes. 2007 , 19, 858-861	117
1571	Boron Nitride Nanotubes. 2007 , 19, 2413-2432	766
1570	High-Yield Synthesis of Rhombohedral Boron Nitride Triangular Nanoplates. 2007 , 19, 2141-2144	56
1569	Inorganic Nanotubes as Nanoreactors: The First MoS ₂ Nanopods. 2007 , 19, 4276-4278	103
1568	Turbostratic Boron Nitride Coated on High-Surface Area Metal Oxide Templates. 2007 , 2007, 4873-4876	3
1567	Reduction in the electronic band gap of titanium oxide nanotubes. 2007 , 141, 168-171	37
1566	Amine-functionalized boron nitride nanotubes. 2007 , 142, 643-646	122
1565	Structure and electronic properties of armchair boron nitride nanotubes. 2007 , 817, 137-145	38
1564	Theoretical study on structure of boron nitride fullerenes. 2007 , 253, 7078-7081	29
1563	First-principles study of a single Ti atom adsorbed on silicon carbide nanotubes and the corresponding adsorption of hydrogen molecules to the Ti atom. 2007 , 437, 224-228	25
1562	A convenient catalytic approach to synthesize straight boron nitride nanotubes using synergic nitrogen source. 2007 , 440, 253-258	26
1561	Cathodoluminescence imaging and spectroscopy on a single multiwall boron nitride nanotube. 2007 , 442, 372-375	45
1560	Theoretical study of O ₂ adsorption and reactivity on single-walled boron nitride nanotubes. 2007 , 449, 149-154	38

1559	Porous nanotubes and fullerenes based on covalent organic frameworks. 2007 , 449, 171-174	8
1558	Light emission and excitonic effect of boron nitride nanotubes observed by photoluminescent spectra. 2007 , 29, 1295-1298	43
1557	Nanosized aluminum nitride hollow spheres formed through a self-templating solid-gas interface reaction. 2007 , 180, 276-283	38
1556	One dimensional nanostructured materials. 2007 , 52, 699-913	495
1555	Synthesis of straight and helical carbon nanotubes from catalytic pyrolysis of polyethylene. 2007 , 92, 2005-2010	41
1554	Pure and doped boron nitride nanotubes. 2007 , 10, 30-38	171
1553	Semiconducting cyanide-transition-metal nanotubes. 2007 , 3, 1253-8	5
1552	Photoinduced charge injection and bandgap-engineering of high-specific-surface-area BN nanotubes using a zinc phthalocyanine monolayer. 2007 , 3, 1330-5	8
1551	Nanomechanical investigation of Mo ₆ S ₉ -x 1x nanowire bundles. 2007 , 3, 1544-8	25
1550	Optical properties of multiwall boron nitride nanotubes. 2007 , 244, 4147-4151	57
1549	Synthesis and Photoluminescence of Eu ²⁺ -Doped Silicon Nitride Nanowires Coated with Thin BN Film. 2007 , 90, 070922001308004-???	3
1548	Hydrothermal synthesis and characterization of ZnS microspheres and hollow nanospheres. 2007 , 103, 24-27	37
1547	Surfactant controlled synthesis of crystalline phosphovanadate nanorods. 2007 , 42, 686-695	7
1546	The multi-staged formation process of titanium oxide nanotubes and its thermal stability. 2007 , 61, 730-735	15
1545	Templated synthesis of metal nanotubes via electroless deposition. 2007 , 61, 2641-2643	6
1544	A simple and low-temperature hydrothermal route for the synthesis of tubular FeOOH. 2007 , 61, 4794-4796	31
1543	A simple method to synthesize polyhedral hexagonal boron nitride nanofibers. 2007 , 9, 1099-1104	11
1542	Elastic moduli of a boron nitride nanotube. 2007 , 18, 435711	144

1541	Inorganic fullerenes and nanotubes: Wealth of materials and morphologies. 2007 , 149, 71-101	32
1540	Controlled hydrothermal growth and up-conversion emission of NaLnF(4) (Ln = Y, Dy-Yb). 2007 , 46, 5404-10	127
1539	Vacancy migration in hexagonal boron nitride. 2007 , 75,	117
1538	Multi-walled boron nitride nanotubes composed of diverse cross-section and helix type shells. 2007 , 88, 347-352	44
1537	Regular hexagonal MoS ₂ microflakes grown from MoO ₃ precursor. 2007 , 89, 783-788	13
1536	Facile fabrication and optical properties of novel Pb(OH)Cl nanotubes. 2007 , 9, 283-287	7
1535	Differential formation of allophane and imogolite: experimental and molecular orbital study. 2007 , 14, 5-18	33
1534	Influence of nitriding gases on the growth of boron nitride nanotubes. 2007 , 42, 4025-4030	26
1533	Synthesis of silicon carbide nanorods without defects by direct heating method. 2007 , 42, 3800-3804	20
1532	Controllable synthesis of CuS nanotubes and nanobelts using lyotropic liquid crystal templates. 2007 , 42, 1042-1045	20
1531	Sonochemical preparation of nickel alumina nanotubes templated by anionic surfactant assemblies. 2007 , 42, 10245-10249	4
1530	Mechanical Properties of WS ₂ Nanotubes. 2007 , 18, 549-563	48
1529	Template-directed synthesis of boron nitride nanotube arrays by microwave plasma chemical reaction. 2007 , 52, 2841-2844	24
1528	Preparation and mechanical characterization of artificial hollow tubes. 2007 , 48, 2520-2525	13
1527	Zero-point energy of N perfectly conducting concentric cylindrical shells. 2008 , 372, 6705-6710	7
1526	Synthesis of boron nitride nanotubes employing mechanochemical process and its characterization. 2008 , 43, 5243-5250	26
1525	Tube Formation in Nanoscale Materials. 2008 , 3, 473-80	154
1524	Linear optical response of (6,0) boron nitride nanotubes adsorbed with molecular hydrogen. 2008 , 5, 2595-2599	1

1523	A quantum chemistry study on boron nitrides (BNN) _{2n} and (BNN) _{2n+2} (n = 3B). 2008 , 108, 296-306	4
1522	Structural characteristics of hydrogenated carbon and boron nitride nanotubes: impact of H-H interactions. 2008 , 9, 2390-6	9
1521	Nanotubes Made from Deeply Undercooled Cryolite/Alumina Melts. 2008 , 91, 1389-1399	3
1520	Cytocompatibility, interactions, and uptake of polyethyleneimine-coated boron nitride nanotubes by living cells: confirmation of their potential for biomedical applications. 2008 , 101, 850-8	174
1519	B-N versus C-C: how similar are they?. 2008 , 47, 242-4	370
1518	Rectangular AgIn(WO ₄) ₂ Nanotubes: A Promising Photoelectric Material. 2008 , 18, 2328-2334	82
1517	Synthetic Routes and Formation Mechanisms of Spherical Boron Nitride Nanoparticles. 2008 , 18, 3653-3661	164
1516	Self-Organized TiO ₂ Nanotube Array Sensor for the Determination of Chemical Oxygen Demand. 2008 , 20, 1044-1049	289
1515	B-N und C-C im Vergleich: Wie ähnlich sind sie einander?. 2008 , 120, 248-250	155
1514	Synthesis of boron nitride nanotubes, bamboos and nanowires. 2008 , 40, 2513-2516	34
1513	Effective synthesis of surface-modified boron nitride nanotubes and related nanostructures and their hydrogen uptake. 2008 , 40, 2551-2555	34
1512	Density functional calculations of ¹⁴ N and ¹¹ B NQR parameters in the H-capped (6,0) and (4,4) single-walled BN nanotubes. 2008 , 40, 800-804	35
1511	Density functional study of zigzag BN nanotubes with equivalent ends. 2008 , 40, 3060-3063	30
1510	A computational NMR study on zigzag aluminum nitride nanotubes. 2008 , 41, 209-212	31
1509	Density functional calculations on ¹¹ B and ¹⁵ N chemical shielding tensors of small boron nitride nanotubes and graphitic sheet. 2008 , 41, 124-129	1
1508	Spin polarization in carbon nanostructures with disclinations. 2008 , 372, 2315-2318	3
1507	Metal-free spin channels in graphitic boron-nitrogen nanostructures. 2008 , 372, 5492-5497	
1506	Structure and electronic properties of native and defected gallium nitride nanotubes. 2008 , 372, 6935-6939	28

1505	Development of photocatalytic efficient Ti-based nanotubes and nanoribbons by conventional and microwave assisted synthesis strategies. 2008 , 114, 401-409	52
1504	Controlling the morphology of yttrium oxide through different precursors synthesized by hydrothermal method. 2008 , 181, 1738-1743	49
1503	The C-doped zigzag AlN nanotube: A computational NMR study. 2008 , 461, 246-248	44
1502	On the existence and stability of single walled SiGe nanotubes. 2008 , 466, 79-83	23
1501	High-pressure effects on boron nitride multi-walled nanotubes: An X-ray diffraction study. 2008 , 466, 205-208	4
1500	Multiple branch growth of SnO ₂ nanowires by thermal evaporation process. 2008 , 44, 728-734	12
1499	Synthesis of ZnSe nanodons via a surfactant-assisted process. 2008 , 146, 384-386	7
1498	Atomic and electronic structures of finite single-walled BN nanotubes: Hybrid DFT calculations. 2008 , 856, 46-58	10
1497	Density functional calculations Al-27 and N-14 quadrupole coupling constants in the H-capped (10, 0) and (4, 4) single-walled aluminum nitride nanotube. 2008 , 862, 118-121	5
1496	Long-wavelength optical phonons in single-walled boron nitride nanotubes. 2008 , 403, 4196-4201	2
1495	Growth of nanowires. 2008 , 60, 1-51	433
1494	Size- and Surface-dependent Stability, Electronic Properties, and Potential as Chemical Sensors: Computational Studies on One-dimensional ZnO Nanostructures. 2008 , 112, 13926-13931	63
1493	Chapter 6 Structural properties and nanoelectromechanical systems applications. 2008 , 135-170	1
1492	Influence of isoelectronic impurities on the electronic structure of BN nanotubes. 2008 , 87, 50-54	3
1491	Boron Nitride Nanowires Produced on Commercial Stainless Steel Foil. 2008 , 16, 485-487	11
1490	Thermal-heating CVD synthesis of BN nanotubes from trimethyl borate and nitrogen gas. 2008 , 107, 115-121	18
1489	Synthesis and characterization of bamboo-like turbostratic boron nitride tubes. 2008 , 112, 20-23	4
1488	Preparation of h-BN nano-tubes, -bamboos, and -fibers from borazine oligomer with alumina porous template. 2008 , 43, 251-256	19

1487	Novel boron nitride hollow nanoribbons. 2008 , 2, 2183-91	173
1486	Experimental and theoretical studies suggesting the possibility of metallic boron nitride edges in porous nanourchins. 2008 , 8, 1026-32	79
1485	PEG-Mediated Hydrothermal Growth of Single-Crystal Tellurium Nanotubes. 2008 , 8, 4415-4419	33
1484	Egg albumin as a nanoreactor for growing single-crystalline Fe ₃ O ₄ nanotubes with high yields. 2008 , 5773-5	42
1483	No Cage, No Tube: Relative Stabilities of Nanostructures. 2008 , 112, 13200-13203	11
1482	Stone-Wales Defects in Single-Walled Boron Nitride Nanotubes: Formation Energies, Electronic Structures, and Reactivity. 2008 , 112, 1365-1370	97
1481	Structural and Electronic Characteristics of Perhydrogenated Boron Nitride Nanotubes. 2008 , 112, 2418-2422	17
1480	Chapter 1 Nanotubes: an experimental overview. 2008 , 3, 1-27	2
1479	Defect-related photoluminescence of hexagonal boron nitride. 2008 , 78,	168
1478	Boron nitride nanotubes: functionalization and composites. 2008 , 18, 3900	199
1477	Energy gaps and stark effect in boron nitride nanoribbons. 2008 , 8, 2200-3	340
1476	The two-dimensional phase of boron nitride: Few-atomic-layer sheets and suspended membranes. 2008 , 92, 133107	781
1475	Near-band-edge recombinations in multiwalled boron nitride nanotubes: Cathodoluminescence and photoluminescence spectroscopy measurements. 2008 , 77,	74
1474	Structural Characteristics of Perhydrogenated Boron Nitride Fullerenes. 2008 , 112, 10032-10037	19
1473	On the friction and wear of carbon nanofiber-reinforced PEEK-based polymer composites. 2008 , 149-208	6
1472	Isotope effect on band gap and radiative transitions properties of boron nitride nanotubes. 2008 , 8, 491-4	76
1471	Interface reaction route to two different kinds of CeO ₂ nanotubes. 2008 , 47, 723-8	91
1470	Structure and Dynamics of Water Confined in a Boron Nitride Nanotube. 2008 , 112, 1812-1818	136

- 1469 Effective growth of boron nitride nanotubes by thermal chemical vapor deposition. **2008**, 19, 455605 155
- 1468 First-principles study of silicon nitride nanotubes. **2008**, 78, 9
- 1467 Theoretical Study of the Adsorption of Carbon Monoxide on Pristine and Silicon-Doped Boron Nitride Nanotubes. **2008**, 61, 941 42
- 1466 Theoretical study on $(Al_2O_3)_n$ ($n = 1-10$ and 30) fullerenes and H_2 adsorption properties. **2008**, 47, 2274-9 35
- 1465 Large Scale MOCVD Synthesis of Hollow ReS_2 Nanoparticles with Nested Fullerene-Like Structure. **2008**, 20, 3587-3593 25
- 1464 First-principles study of the adsorption of atomic and molecular hydrogen on BC_2N nanotubes. **2008**, 77, 29
- 1463 Functionalization of BN nanotubes with dichlorocarbenes. **2008**, 19, 015202 50
- 1462 Electronic excitations in single-walled GaN nanotubes from first principles: Dark excitons and unconventional diameter dependences. **2008**, 77, 38
- 1461 Interaction of Iron Atoms with Pristine and Defective $(8, 0)$ Boron Nitride Nanotubes. **2008**, 112, 13571-13578 17
- 1460 Resonance Graphs and a Binary Coding for the 1-Factors of Benzenoid Systems. **2008**, 22, 971-984 20
- 1459 Self-assembly and cathodoluminescence of microbelts from Cu-doped boron nitride nanotubes. **2008**, 2, 1523-32 36
- 1458 Low Dimensional Nanomaterials for Spintronics. **2008**, 247-271
- 1457 Preparation of BN Microtubes/Nanotubes with a Unique Chemical Process. **2008**, 112, 18325-18330 35
- 1456 Synthesis and nanostructure of boron nitride nanotubes grown from iron-evaporated boron. **2008**, 17, 1805-1807 9
- 1455 Sonoelectrochemical synthesis of CdSe nanotubes. **2008**, 1683-5 47
- 1454 Synthesis and photoluminescence property of boron carbide nanowires. **2008**, 17, 4585-4591 21
- 1453 Structure, optical properties and defects in nitride (III-V) nanoscale cage clusters. **2008**, 10, 1944-59 41
- 1452 Effects of boron nitride impurities on the elastic properties of carbon nanotubes. **2008**, 19, 445703 20

1451	Theoretical Study of the Site-Dependent Stabilities of Intrinsic Defects in a Polar BN Nanotube with Finite Length. 2008 , 112, 19353-19359	9
1450	Prediction of Chemical Anisotropy on Sidewall of Boron Nitride Nanotubes: A New Application of Directional Curvature Theory. 2008 , 112, 18787-18792	5
1449	Helices of boron-nitrogen hexagons and decagons. A theoretical study. 2008 , 112, 6783-7	4
1448	Vapor-liquid-solid and vapor-solid growth of phase-change Sb ₂ Te ₃ nanowires and Sb ₂ Te ₃ /GeTe nanowire heterostructures. 2008 , 130, 6252-8	122
1447	Single-walled MoO ₃ nanotubes. 2008 , 130, 8126-7	162
1446	Magnetism in defected single-walled boron nitride nanotubes. 2008 , 83, 17007	14
1445	SYNTHESIS OF DESIGNED TEMPLATES FOR NOVEL SEMICONDUCTOR MATERIALS WITH HOLLOW STRUCTURES. 2008 , 01, 37-42	65
1444	CARBON-SUBSTITUTING IN (4,4) BORON NITRIDE NANOTUBE: DENSITY FUNCTIONAL STUDY OF BORON-11 AND NITROGEN-14 ELECTRIC FIELD GRADIENT TENSORS. 2008 , 07, 447-455	4
1443	AN EFFICIENT CRITERION FOR THE FORMATION ENERGIES AND REACTIVITIES OF DEFECTS IN CNTs AND BNNTs. 2008 , 07, 681-695	2
1442	On the electronic and geometric structures of armchair GeC nanotubes: a hybrid density functional study. 2008 , 19, 335706	31
1441	THEORETICAL STUDIES ON THE LASER-DRIVEN MANY-ELECTRON DYNAMICS OF FINITE-SIZE BORON-NITRIDE NANOTUBES. 2008 , 07, 579-593	3
1440	Transverse pressure induced phase transitions in boron nitride nanotube bundles and the lightest boron nitride crystal. 2008 , 130, 5257-61	31
1439	A first principles study on organic molecule encapsulated boron nitride nanotubes. 2008 , 128, 164701	22
1438	Electronic structures of organic molecule encapsulated BN nanotubes under transverse electric field. 2008 , 129, 024710	14
1437	Multifunctional metal-doped carbon nanocapsules. 2008 , 129, 234702	5
1436	Stability and electronic properties of native defects and substitutional impurities in GaN nanotubes. 2008 , 104, 033712	22
1435	Preparation and Characterization of BN Nanotubes with Controllable Sizes by Template-aided Synthesis. 2008 , 1081, 1	1
1434	Selective growth of boron nitride nanotubes by plasma-enhanced chemical vapor deposition at low substrate temperature. 2008 , 19, 065601	25

1433	Silicon Nanowires and Silica Nanotubes Seeded by Copper Nanoparticles in an Organic Solvent. 2008 , 20, 2306-2313	42
1432	Structural and magnetic isomers of $M(\text{BN})_{36}$ and $M_4(\text{BN})_{36}$ clusters ($M=\text{Ti}, \text{V}, \text{Cr}, \text{Mn}, \text{Fe}, \text{Co}, \text{Ni}, \text{Cu}$): An ab initio density functional study. 2008 , 77,	11
1431	Controlled Growth of Carbon, Boron Nitride, and Zinc Oxide Nanotubes. 2008 , 8, 922-929	5
1430	Freestanding (3,0) boron nitride nanotube: Expected to be stable well over room temperature. 2008 , 93, 223108	20
1429	Thermal conduction mechanisms in boron nitride nanotubes: Few-shell versus all-shell conduction. 2008 , 78,	17
1428	Stability and magnetic properties of transition metal atoms endohedral B_nN_n ($n=12-28$) cages. 2008 , 128, 084306	23
1427	Density Functional Study of the Influence of Carbon Doping on the Aluminum-27 and Nitrogen-14 Electric Field Gradient Tensors in (10, 0) Single-Walled Aluminum Nitride Nanotube. 2008 , 222, 1569-1577	
1426	Highly Ordered Boron Nitride Nanotube Arrays with Controllable Texture from Ammonia Borane by Template-Aided Vapor-Phase Pyrolysis. 2008 , 2008, 1-7	6
1425	Inorganic Nanotubes. 2009 ,	
1424	Flattening-induced electronic changes in zigzag single- and multi-walled boron nitride nanotubes: A first-principles DFT study. 2009 , 80,	10
1423	Electromagnetic interactions between parallel dielectric-diamagnetic cylinders. 2009 , 80,	3
1422	Computational study of boron nitride nanotube synthesis: How catalyst morphology stabilizes the boron nitride bond. 2009 , 80,	16
1421	High-temperature conductance loss dominated defect level in h-BN: Experiments and first principles calculations. 2009 , 105, 076103	39
1420	A boroxol ring doped zigzag boron nitride nanotube: a computational DFT study of the quadrupole coupling constant. 2009 , 87, 647-652	5
1419	Theory of elastic and piezoelectric effects in two-dimensional hexagonal boron nitride. 2009 , 80,	145
1418	Stability and electronic properties of small boron nitride nanotubes. 2009 , 105, 084312	61
1417	Do all wurtzite nanotubes prefer faceted ones?. 2009 , 130, 204706	38
1416	Density Functional Study of Defects in Boron Nitride Nanotubes. 2009 , 223, 815-823	23

1415	Generalized Bloch states and potentials of nanotubes and other quasi-1D systems II. 2009 , 42, 125202	4
1414	Enhanced low voltage cell electropermeabilization by boron nitride nanotubes. 2009 , 20, 075104	51
1413	Synthesis and Characterization of Hollow Boron-Nitride Nanocages. 2009 , 2009, 1-4	5
1412	Spectroscopic investigation on BCNO-based phosphor: photoluminescence and long persistent phosphorescence. 2009 , 42, 215409	35
1411	Patterned Growth of Long and Clean Boron Nitride Nanotubes on Substrates. 2009 , 1204, 1	
1410	Alternative Nanostructured Sensors: Nanowires, Nanobelts, and Novel Nanostructures. 2009 , 1-20	
1409	Synthesis of boron nitride and carbon nanomaterials through a solid phase reduction process. 2009 , 114, 204-212	14
1408	Synthesis of boron nitride nanotubes from boron oxide by ball milling and annealing process. 2009 , 63, 1733-1736	24
1407	Synthesis of Inorganic Nanotubes. 2009 , 21, 4208-4233	212
1406	Bismut-katalysiertes Wachstum von SnS ₂ -Nanoröhren und deren Stabilität. 2009 , 121, 6546-6551	13
1405	Nanocarbon materials: probing the curvature and topology effects using phonon spectra. 2009 , 40, 1127-1137	45
1404	Bor –elementare Herausforderung für Experimentatoren und Theoretiker. 2009 , 121, 8794-8824	66
1403	Bismuth-catalyzed growth of SnS ₂ nanotubes and their stability. 2009 , 48, 6426-30	68
1402	Boron: elementary challenge for experimenters and theoreticians. 2009 , 48, 8640-68	426
1401	B ₂₄ N ₂₄ nanocages: a GIAO density functional theory study of ¹⁴ N and ¹¹ B nuclear magnetic shielding and electric field gradient tensors. 2009 , 140, 255-263	12
1400	Calculation of chemical shielding in C-doped zigzag BN nanotubes. 2009 , 140, 1275-1278	26
1399	First-principles study of narrow single-walled GaN nanotubes. 2009 , 373, 367-370	18
1398	SiC nanotubes arrays fabricated by sputtering using electrospun PVP nanofiber as templates. 2009 , 203, 3219-3223	42

1397	Effect of nanotube length on the aromaticity and CSI parameters of finite length single-wall zigzag and armchair boron nitride nanotubes. 2009 , 906, 63-67	4
1396	A DFT study of the nuclear magnetic response of the zigzag AlNBN and BN/AlN nanotube junctions. 2009 , 913, 126-130	15
1395	Theoretical explorations on the armchair BN nanotube with defects. 2009 , 11, 395-403	10
1394	Synthesis of quantum-confined CdS nanotubes. 2009 , 11, 467-475	10
1393	3d Transition metal decorated B-C-N composite nanostructures for efficient hydrogen storage: A first-principles study. 2009 , 32, 353-360	3
1392	Functionalization of BN nanotubes with free radicals: electroaffinity-independent configuration and band structure engineering. 2009 , 4, 378-382	5
1391	Photocatalytic Degradation of Isopropanol Over PbSnO(3) Nanostructures Under Visible Light Irradiation. 2009 , 4, 274-280	23
1390	Bi2S3 nanotubes: Facile synthesis and growth mechanism. 2009 , 2, 130-134	66
1389	Synthesis of WS2 and MoS2 fullerene-like nanoparticles from solid precursors. 2009 , 2, 416-424	60
1388	Theoretical phonon dispersions in monolayers and multilayers of hexagonal boron-nitride. 2009 , 246, 2802-2805	13
1387	4d transition metal monoxides, monocarbides, monoborides, mononitrides, and monofluorides: A quantum chemical study. 2009 , 109, 1103-1115	22
1386	Electronic structure of SiC/BN composite segmented nanotubes. 2009 , 89, 558-562	1
1385	Effect of doping on electronic properties of double-walled carbon and boron nitride hetero-nanotubes. 2009 , 404, 3417-3420	12
1384	Optimizing the hydrogen storage in boron nitride nanotubes by defect engineering. 2009 , 34, 5213-5217	30
1383	Influence of Boroxol ring doping on the N-15 and B-11 NMR parameters in zigzag boron nitride nanotube: A DFT study. 2009 , 895, 96-99	6
1382	Lithium-doped (4,4) Boron nitride nanotube: Density functional theory study of N and B nuclear magnetic shielding and electric field gradient tensors. 2009 , 895, 82-85	14
1381	Adsorption of hydrogen on novel Pt-doped BN nanotube: A density functional theory study. 2009 , 901, 103-109	46
1380	Influence of Mn-doping on the chemical shielding tensors of ⁷¹ Ga and ¹⁵ N in the armchair GaN nanotubes: A DFT study. 2009 , 911, 19-23	2

1379	On the structural properties of BCN nanotubes. 2009 , 149, 222-226	21
1378	Dispersion of boron nitride nanotubes in aqueous solution with the help of ionic surfactants. 2009 , 149, 763-766	67
1377	Vibrations in cylindrical shells with transverse elastic isotropy: Application to IIIV nitride nanotubes. 2009 , 603, 2950-2957	10
1376	Controlled synthesis and assembly of ceria-based nanomaterials. 2009 , 335, 151-67	206
1375	Si enhances the growth of B4C nanowires. 2009 , 311, 3721-3725	5
1374	A facile route to prepare boron nitride hollow particles at 450 °C. 2009 , 311, 3682-3686	16
1373	Catalytic growth of boron nitride nanotubes using gas precursors. 2009 , 41, 448-453	31
1372	Structures, electronic properties, and hydrogen-storage capacity of single-walled TiO2 nanotubes. 2009 , 41, 838-842	45
1371	The carbon-doped (4,4) boron nitride nanotube: A computational NMR approach. 2009 , 41, 883-885	43
1370	Synthesis and properties of Cd-doped ZnO nanotubes. 2009 , 41, 879-882	37
1369	Computation of structural and electronic properties of single-wall IIII compound nanotubes. 2009 , 41, 1329-1337	10
1368	First-principles study of cobalt silicide nanosheet and nanotubes: Stability and electronic properties. 2009 , 41, 1795-1799	4
1367	Raman spectrum of single-walled boron nitride nanotube. 2009 , 41, 1800-1805	18
1366	Vibrational properties of single-wall BC3 nanotubes. 2009 , 70, 8-14	8
1365	Electronic structure of BN nanotubes with intrinsic defects NB and BN and isoelectronic substitutional impurities PN, AsN, SbN, InB, GaB, and AlB. 2009 , 70, 180-185	23
1364	Ab initio simulations on the atomic and electronic structure of single-walled BN nanotubes and nanoarches. 2009 , 70, 796-803	26
1363	Theoretical study of the transition metal ring functionalized tips of open-ended (5,5) boron nitride nanotube (BNNT). 2009 , 70, 1030-1033	4
1362	Family behaviour of Raman-active phonon frequencies of single-wall nanotubes of C, BN and BC3. 2009 , 71, 1932-7	11

1361	A first principles study of NO ₂ chemisorption on silicon carbide nanotubes. 2009 , 355, 50-54	47
1360	Dispersions, novel nanomaterial sensors and nanoconjugates based on carbon nanotubes. 2009 , 150, 63-89	79
1359	Direct observation of defect levels in hexagonal BN by soft X-ray absorption spectroscopy. 2009 , 472, 190-193	14
1358	Structure and stability of B ₁₃ N ₁₃ polyhedrons with octagon(s). 2009 , 482, 121-124	11
1357	Gate field induced electronic current modulation in a single wall boron nitride nanotube: Molecular scale field effect transistor. 2009 , 482, 312-315	4
1356	Atomic and electronic structure of single-walled BN nanotubes containing N vacancies as well as C and O substitutes of N atoms. 2009 , 67, 519-525	20
1355	Very long single- and few-walled boron nitride nanotubes via the pressurized vapor/condenser method. 2009 , 20, 505604	139
1354	Recent Progress in the Study of Inorganic Nanotubes and Fullerene-Like Structures. 2009 , 39, 387-413	88
1353	Two-qubit cells made of boron nitride nanotubes for a quantum computer. 2009 , 54, 338-342	5
1352	The nature of radiative transitions in o-doped boron nitride nanotubes. 2009 , 131, 4839-45	38
1351	Silicon carbide nanostructures: a tight binding approach. 2009 , 130, 244704	14
1350	Selective Growth of Boron Nitride Nanotubes by the Plasma-Assisted and Iron-Catalytic CVD Methods. 2009 , 113, 14681-14688	25
1349	Zn-Doped Gallium Nitride Nanotubes with Zigzag Morphology. 2009 , 113, 14633-14637	20
1348	Large-Scale Synthesis of Boron Nitride Nanotubes with Iron-Supported Catalysts. 2009 , 113, 14732-14738	58
1347	THE FUTURE OF MAIN GROUP CHEMISTRY. 2009 , 30, 131-176	42
1346	Optical and Vibrational Properties of Boron Nitride Nanotubes. 2009 , 105-148	6
1345	Thermal-conductivity and tensile-properties of BN, SiC and Ge nanotubes. 2009 , 47, 220-224	39
1344	Preparation and growth mechanism of clustered one-dimensional SiO _x amorphous nanowires by catalytic pyrolysis of a polymer precursor. 2009 , 355, 2156-2159	7

1343	Solution-phase synthesis of single-crystalline Fe ₃ O ₄ magnetic nanobelts. 2009 , 472, 271-275	25
1342	First-principles study of two- and one-dimensional honeycomb structures of boron nitride. 2009 , 79,	503
1341	Stability and Electronic Properties of a Novel C-BN Heteronanotube from First-Principles Calculations. 2009 , 113, 13108-13114	43
1340	Synthesis of continuous boron nitride nanofibers by solution coating electrospun template fibers. 2009 , 20, 345603	33
1339	Comparison of Electronic and Magnetic Properties of Fe, Co, and Ni Nanowires Encapsulated in Boron Nitride Nanotubes. 2009 , 113, 17745-17750	23
1338	Electric-field-induced deformation in boron nitride nanotubes. 2009 , 42, 085403	24
1337	Effects of uniaxial strain on the band structure of boron nitride nanotubes: a first principles study. 2009 , 46, 20601	5
1336	The structure and dynamics of boron nitride nanoscrolls. 2009 , 20, 335702	44
1335	Electronic Structure of Si-Doped BN Nanotubes Using X-ray Photoelectron Spectroscopy and First-Principles Calculation. 2009 , 21, 136-143	52
1334	A New Method for the Synthesis of Alumina Nanotubes from Polymer Composite Materials. 2009 , 9, 1260-1263	9
1333	Synthesis and characterization of indium oxide nanobubbles with ultrathin single crystal shells. 2009 , 2014-6	2
1332	Theoretical investigation of the divacancies in boron nitride nanotubes: properties and surface reactivity toward various adsorbates. 2009 , 131, 014706	22
1331	Electronic properties of silicon nanotubes with distinct bond lengths. 2009 , 79,	8
1330	A magnetic resonance study of MoS(2) fullerene-like nanoparticles. 2009 , 21, 395301	17
1329	Understanding effects of molecular adsorption at a single-wall boron nitride nanotube interface from density functional theory calculations. 2009 , 20, 355705	45
1328	Carbon Nitride and Boron Carbon Nitride Nanostructures. 2009 , 195-221	1
1327	Disorder and superconductivity in doped semiconductor nanotubes. 2009 , 150, 052238	2
1326	Boron nitride nanotubes are noncytotoxic and can be functionalized for interaction with proteins and cells. 2009 , 131, 890-1	444

1325	Layered Titanium Oxide Nanosheet and Ultrathin Nanotubes: A First-Principles Prediction. 2009 , 113, 13610-13615	39
1324	Lattice vibrations of a single-wall boron nitride nanotube. 2009 , 79,	18
1323	High-Yield Synthesis of Boron Nitride Nanosheets with Strong Ultraviolet Cathodoluminescence Emission. 2009 , 113, 15160-15165	144
1322	Investigation on the Electronic Structures and Nonlinear Optical Properties of Pristine Boron Nitride and Boron Nitride/Carbon Heterostructured Single-Wall Nanotubes by the Elongation Method. 2009 , 113, 8447-8454	28
1321	Tunable ferromagnetic spin ordering in boron nitride nanotubes with topological fluorine adsorption. 2009 , 131, 6874-9	80
1320	Flexible polar nanowires of Cs ₅ BiP ₄ Se ₁₂ from weak interactions between coordination complexes: strong nonlinear optical second harmonic generation. 2009 , 131, 2647-56	88
1319	Large-Scale Production of Aligned Long Boron Nitride Nanofibers by Multijet/Multicollector Electrospinning. 2009 , 113, 11228-11234	64
1318	Rectangular or square, tapered, and single-crystal PbTe nanotubes. 2009 , 19, 3063	12
1317	Structural Trends Among Nanotubes of Group 13/15 Binary Hydrides. 2009 , 113, 10065-10069	8
1316	Superhydrophobicity of boron nitride nanotubes grown on silicon substrates. 2009 , 25, 4853-60	105
1315	Polygonal model for layered inorganic nanotubes. 2009 , 80,	22
1314	Facile synthetic strategy for efficient and multi-color fluorescent BCNO nanocrystals. 2009 , 4073-5	70
1313	A general route for the convenient synthesis of crystalline hexagonal boron nitride micromesh at mild temperature. 2009 , 19, 1989	42
1312	Long-persistent phosphorescent SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ nanotubes. 2009 , 944-6	39
1311	Template- and catalyst-free synthesis, growth mechanism and excellent field emission properties of large scale single-crystalline tubular beta-SiC. 2009 , 6243-5	42
1310	A versatile strategy for the functionalization of boron nitride nanotubes. 2009 , 19, 1271	38
1309	Atomically thin hexagonal boron nitride probed by ultrahigh-resolution transmission electron microscopy. 2009 , 80,	407
1308	Multiwalled Boron Nitride Nanotubes: Growth, Properties, and Applications. 2009 , 23-44	17

1307	Formation of defects in boron nitride by low energy ion bombardment. 2009 , 106, 083523	31
1306	Infinite single-walled boron-nitride nanotubes studies by LGTO-PBC-DFT method. 2009 , 18, 351-354	8
1305	Selective sputtering and atomic resolution imaging of atomically thin boron nitride membranes. 2009 , 9, 2683-9	436
1304	Boron nitride nanosystems of regular geometry. 2009 , 176, 012014	7
1303	Boron nitride nanotubes functionalized by a series of carbenes. 2009 , 11, 6256-62	15
1302	Shape-Controlled Synthesis of Single-Crystalline Fe ₂ O ₃ Hollow Nanocrystals and Their Tunable Optical Properties. 2009 , 113, 9928-9935	131
1301	Synthesis of VO _x Nanotubes by Cooperation of Tetramethylammonium Hydroxide and Tetradecylamine in Short Duration. 2009 , 38, 928-929	3
1300	Boron Nitride Nanotubes: A Novel Vector for Targeted Magnetic Drug Delivery. 2009 , 5, 33-38	77
1299	The physics of boron nitride nanotubes. 2010 , 63, 34-38	105
1298	Boron Nitride Nanotubes for a Series of Novel Nano-composite Materials. 2010 , 83, 375-381	
1297	Role of reducing agent in the formation of ZnSe nanorods by chemical reduction method. 2010 , 51, 30605	4
1296	Soft template inducing synthesis of CaC ₂ O ₄ nanotubes. 2010 , 55, 1953-1956	1
1295	Electronic structure of boron nitride nanostructures doped with a carbon atom. 2010 , 73, 211-214	8
1294	Structural, electronic and magnetic properties of the 3d transition metal atoms adsorbed on boron nitride nanotubes. 2010 , 76, 289-299	14
1293	Large scale growth and characterization of atomic hexagonal boron nitride layers. 2010 , 10, 3209-15	1961
1292	Microwave-assisted synthesis of Sb ₂ Se ₃ submicron tetragonal tubular and spherical crystals. 2010 , 21, 035606	21
1291	Recent progress in the research of inorganic fullerene-like nanoparticles and inorganic nanotubes. 2010 , 39, 1423-34	161
1290	Chiral currents in gold nanotubes. 2010 , 81,	12

1289	Ion and electron irradiation-induced effects in nanostructured materials. 2010 , 107, 071301	759
1288	Structural, Electronic, and Mechanical Properties of Single-Walled Halloysite Nanotube Models. 2010 , 114, 11358-11363	196
1287	Optical excitations in electron microscopy. 2010 , 82, 209-275	935
1286	Synthesis and Characterization of Nanoparticles, Nanotubes, Nanopans, and Graphene-like Structures of Boron Nitride. 2010 , 50, 399-404	18
1285	Recent Advances in Boron Nitride Nanotubes and Nanosheets. 2010 , 50, 405-416	21
1284	Quantifying the Stacking Registry Matching in Layered Materials. 2010 , 50, 506-514	24
1283	Inorganic Nanotubes and Nanostructures. 2010 , 50, 393-394	2
1282	Mild hydrothermal preparation of a layered metal hydroxide salt with microtube/rod morphology. 2010 , 8, 192-197	3
1281	First principle study of unzipped zinc oxide nanotubes. 2010 , 374, 4695-4699	19
1280	The Al-doped BN nanotubes: A DFT study. 2010 , 942, 83-87	36
1279	A computational study of oxygen-termination of a (6,0) boron nitride nanotube. 2010 , 141, 491-494	10
1278	SiC-doped boron nitride nanotubes: computations of 11B and 14N quadrupole coupling constants. 2010 , 141, 611-614	5
1277	SiC nanotubes: DFT calculations of 29Si and 13C NMR properties. 2010 , 141, 941-943	6
1276	Progress of synthesizing methods and properties of fluorinated carbon nanotubes. 2010 , 53, 1225-1233	9
1275	A review on TiO ₂ nanotube arrays: Fabrication, properties, and sensing applications. 2010 , 55, 331-338	70
1274	Computational study of 5d transition metal mononitrides and monoborides using density functional method. 2010 , 33, 233-238	23
1273	Preparation of Aligned Ultra-long and Diameter-controlled Silicon Oxide Nanotubes by Plasma Enhanced Chemical Vapor Deposition Using Electrospun PVP Nanofiber Template. 2009 , 5, 279-85	20
1272	Large-Scale Fabrication of Boron Nitride Nanotubes via a Facile Chemical Vapor Reaction Route and Their Cathodoluminescence Properties. 2010 , 6, 36	16

1271	Growth and characterization of boron nitride nanotubes having novel morphologies using mechanochemical process. 2010 , 12, 2201-2210	3
1270	Synthesis of boron nitride nanotubes by an oxide-assisted chemical method. 2010 , 12, 2405-2413	13
1269	Direct synthesis and strong cathodoluminescence of Al ₂ O ₃ nanotubes. 2010 , 120, 240-243	2
1268	Synthesis of rose-like boron nitride particles with a high specific surface area. 2010 , 45, 1013-1016	8
1267	Elastic properties of boron-nitride nanotubes through the continuum lattice approach. 2010 , 64, 859-862	79
1266	Synthesis of BN microspheres with high-purity via a polymer-chemical route. 2010 , 63, 415-417	8
1265	Electronic structure of sulfur terminated zigzag boron nitride nanotube: A computational study. 2010 , 12, 1337-1340	5
1264	Inorganic Analogues of Graphene. 2010 , 2010, 4244-4250	160
1263	Novel BN Hollow Microspheres with Open Mouths [Facile Synthesis, Growth Mechanism, Resonant Raman Scattering Effect, and Cathodoluminescence Performance. 2010 , 2010, 5538-5544	14
1262	Inorganic Nanotubes and Nanowires. 2010 , 77-162	1
1261	Bismuth onion thin film in situ grown on silicon wafer synthesized through a hydrothermal approach. 2010 , 257, 102-108	2
1260	The pristine and carbon, silicon or germanium-substituted (10,0) BN nanotube: A computational DFT study of NMR parameters. 2010 , 3, 121-126	2
1259	Eco-friendly and morphologically-controlled synthesis of porous CeO ₂ microstructure and its application in water purification. 2010 , 348, 600-7	32
1258	Structural, electronic and magnetic properties of Fe nanowires encapsulated in boron nitride nanotubes. 2010 , 405, 1035-1039	15
1257	Electronic structure and optical properties of single walled ZnSe nanotubes. 2010 , 42, 1896-1900	6
1256	The NMR parameters of the SiC-doped BN nanotubes: A DFT study. 2010 , 42, 1954-1957	13
1255	Sulfur doping at the tips of (6,0) boron nitride nanotube: A DFT study. 2010 , 42, 2147-2150	26
1254	B ₃₆ N ₃₆ fullerene-like nanocages: A novel material for drug delivery. 2010 , 42, 2184-2189	53

1253	Optical absorption of zigzag single walled boron nitride nanotubes. 2010 , 43, 312-318	6
1252	DFT study on influence of Si and Ge doping on the chemical shielding tensors in the armchair AlN nanotubes. 2010 , 43, 588-592	9
1251	Atomic-scale characterization of silicon diffusion on carbon nanotubes. 2010 , 43, 610-613	2
1250	Synthesis and hydrogen storage properties of different types of boron nitride nanostructures. 2010 , 35, 4138-4143	69
1249	Ab initio study of the structural, elastic, vibrational and thermodynamic properties of the hexagonal boron nitride: Performance of LDA and GGA. 2010 , 405, 2785-2794	32
1248	Computations of the quadrupole coupling constants in aluminum doped boron nitride nanotubes. 2010 , 405, 3991-3994	5
1247	Boron nitride nanotubes. 2010 , 70, 92-111	345
1246	Direct observation of defects in hexagonal boron nitride by near-edge X-ray absorption fine structure and X-ray photoemission spectroscopy. 2010 , 619, 94-97	11
1245	(BN) _n polyhedrons with octagon(s) obeying the square adjacency penalty rule. 2010 , 945, 8-11	1
1244	Theoretical studies on the adsorption of small molecules on Pt-doped BN nanotubes. 2010 , 948, 83-92	20
1243	The B-doped SiC nanotubes: A computational study. 2010 , 953, 134-138	22
1242	First principles study on the electronic structure and effect of vanadium doping of BN nanowires. 2010 , 150, 701-706	8
1241	An electronic structure study of O-terminated zigzag BN nanotubes: Density functional calculations of the quadrupole coupling constants. 2010 , 150, 1238-1240	12
1240	Magnetism in boron nitride monolayer: Adatom and vacancy defect. 2010 , 604, 1603-1607	51
1239	Boron nitride nanotube reinforced polylactide-polycaprolactone copolymer composite: mechanical properties and cytocompatibility with osteoblasts and macrophages in vitro. 2010 , 6, 3524-33	187
1238	Surface adhesion between hexagonal boron nitride nanotubes and silicon based on lateral force microscopy. 2010 , 256, 1769-1773	11
1237	Microworms self-assembled by boron nitride horns for optoelectronic applications. 2010 , 165, 714-719	5
1236	Ab initio calculations on the structure and properties of hexagonal boron nitrides. 2010 , 490, 210-215	12

1235	2-resonance of plane bipartite graphs and its applications to boron-nitrogen fullerenes. 2010 , 158, 1559-1569	11
1234	Optoelectronic studies of boron nitride nanotubes and hexagonal boron nitride crystals by photoconductivity and photoluminescence spectroscopy experiments. 2010 , 247, 3076-3079	8
1233	Synthesis and functionalization of chalcogenide nanotubes. 2010 , 247, 2338-2363	22
1232	Ion irradiation of multi-walled boron nitride nanotubes. 2010 , 7, NA-NA	10
1231	Energetic stability of boron nitride nanostructures doped with one carbon atom. 2010 , 110, 1778-1783	6
1230	Synthesis of Nanotube Array Composed of an Amorphous Matrix Embedded with NaCl-Type SiC Crystallites by Chemical Vapor Infiltration Techniques. 2010 , 93, 1557	
1229	Investigation of interactions between poly-L-lysine-coated boron nitride nanotubes and C2C12 cells: up-take, cytocompatibility, and differentiation. 2010 , 5, 285-98	81
1228	Deformation-Induced Electronic Structure Changes in Boron Nitride Nanotubes. 2010 , 59, 604-609	1
1227	Growth, Characterization and Comparisons of Few-layer Boron Nitride Nanosheets and Graphene. 2010 , 1259, 1	3
1226	Synthesis and Characterization of Titanium Dioxide Nanotubes for Photocatalytic Degradation of Aqueous Nitrobenzene in the Presence of Sunlight. 2010 , 657, 62-74	24
1225	High Resolution Electron Microscopy: A Powerful Tool to Characterize Nanotubes. 2010 , 441, 95-119	
1224	Preparation and Photocurrent Performance of Highly Ordered Titania Nanotube Implanted with Ag/Cu Metal Ions. 2010 , 27, 077103	1
1223	Boron nitride formation on magnesium studied by ab initio calculations. 2010 , 81,	5
1222	Homogeneous nanocables from double-walled boron-nitride nanotubes using first-principles calculations. 2010 , 82,	9
1221	Novel properties of boron nitride nanotubes encapsulated with Fe, Co, and Ni nanoclusters. 2010 , 132, 164704	19
1220	A comparison between physical properties of carbon black-polymer and carbon nanotubes-polymer composites. 2010 , 108, 074108	61
1219	Magnetism in two-dimensional BN1-xOx and B1-xSixN: Polarized itinerant and local electrons. 2010 , 81,	7
1218	Microscopic properties of nanopore water from its time-dependent dielectric response. 2010 , 82,	8

1217	AB INITIO DENSITY FUNCTIONAL THEORY INVESTIGATION OF STRUCTURAL AND ELECTRONIC PROPERTIES OF ZnO BUNDLES. 2010 , 24, 2997-3003	2
1216	COMPARATIVE STUDY OF THE STRUCTURAL AND ELECTRONIC PROPERTIES OF BN(5, 5) AND C(5, 5) NANOTUBES UNDER PRESSURE. 2010 , 24, 4851-4859	1
1215	Excitons at the B K edge of boron nitride nanotubes probed by x-ray absorption spectroscopy. 2010 , 22, 295301	3
1214	Energetics and Electronic Structure of Ultimate Silicon Nanowire Confined in Nanospace. 2010 , 49, 065001	2
1213	Theoretical Description of Electromagnetic Nonbonded Interactions of Radical, Cationic, and Anionic NH ₂ BHNBNH ₂ Inside of the B ₁₈ N ₁₈ Nanoring. 2010 , 114, 15315-15330	45
1212	High-yield synthesis and structure of double-walled bismuth-nanotubes. 2010 , 10, 208-10	51
1211	Electronic Structures and Optical Properties of Ga-Rich In _x Ga _{1-x} N Nanotubes. 2010 , 114, 21943-21947	3
1210	Synthesis and Sintering Strategies of Boron Rich Solids. 2010 , 303-318	
1209	Synthesis and properties of functional oxynitrides--from photocatalysts to CMR materials. 2010 , 39, 5942-8	89
1208	Interactions between polymers and single-walled boron nitride nanotubes: a molecular dynamics simulation approach. 2010 , 114, 15429-36	55
1207	BN nanotubes coated with uniformly distributed Fe ₃ O ₄ nanoparticles: novel magneto-operable nanocomposites. 2010 , 20, 1007-1011	41
1206	The geometric structure of single-walled nanotubes. 2010 , 2, 859-72	28
1205	Synthesis of boron nitride nanotubes by boron ink annealing. 2010 , 21, 105601	54
1204	Second-order nonlinear optical response of zigzag BN single-walled nanotubes. 2010 , 82,	17
1203	Functionalization of BN honeycomb structure by adsorption and substitution of foreign atoms. 2010 , 82,	83
1202	Vertically aligned boron nitride nanosheets: chemical vapor synthesis, ultraviolet light emission, and superhydrophobicity. 2010 , 4, 414-22	261
1201	Synthesis and Applications of Molybdenum Oxide Nanotubes. 2010 , 83-96	3
1200	Lanthanide doped Y ₆ O ₅ F ₈ /YF ₃ microcrystals: phase-tunable synthesis and bright white upconversion photoluminescence properties. 2010 , 39, 9153-8	37

1199	CdSe Nanotube Arrays on ITO via Aligned ZnO Nanorods Templating. 2010 , 22, 64-69	45
1198	Transformations of Cold-Compressed Multiwalled Boron Nitride Nanotubes Probed by Infrared Spectroscopy. 2010 , 114, 1782-1788	31
1197	Patterned Growth of Boron Nitride Nanotubes by Catalytic Chemical Vapor Deposition. 2010 , 22, 1782-1787	163
1196	Anisotropic Hexagonal Boron Nitride Nanomaterials: Synthesis and Applications. 2010 ,	8
1195	Mechanism for Low Temperature Growth of Boron Nitride Nanotubes. 2010 , 114, 16236-16241	7
1194	Facile Hydrothermal Synthesis of SrNb ₂ O ₆ Nanotubes with Rhombic Cross Sections. 2010 , 10, 2447-2450	9
1193	Noncovalent functionalization of BN nanotubes with perylene derivative molecules: an ab initio study. 2010 , 4, 1313-20	36
1192	Electronic structures of boron nitride nanotubes subjected to tension, torsion, and flattening: A first-principles DFT study. 2010 , 82,	18
1191	Preparation and Ultraviolet-Visible Luminescence Property of Novel BN Whiskers with a Cap-Stacked Structure. 2010 , 114, 21165-21172	17
1190	Wurtzite P-Doped GaN Triangular Microtubes as Field Emitters. 2010 , 114, 9627-9633	26
1189	Recent Development of the Synthesis and Engineering Applications of One-Dimensional Boron Nitride Nanomaterials. 2010 , 2010, 1-16	9
1188	One-Step Hydrothermal Formation of Bi ₂ O ₃ Nanourchins with Radially Ultrathin Nanotubes. 2010 , 79, 094802	4
1187	One-dimensional boron nanostructures: Prediction, synthesis, characterizations, and applications. 2010 , 2, 1375-89	56
1186	Boron nitride nanotubes and nanosheets. 2010 , 4, 2979-93	1699
1185	Shape selective hydrothermal synthesis of tin sulfide nanoflowers based on nanosheets in the presence of thioglycolic acid. 2010 , 492, 570-575	108
1184	Assessing cytotoxicity of boron nitride nanotubes: Interference with the MTT assay. 2010 , 394, 405-11	144
1183	Self-assembly of carbon nanotubes and boron nitride nanotubes into coaxial structures. 2010 , 50, 645-650	9
1182	Boron-nitride and boron-carbonitride nanotubes: synthesis, characterization and theory. 2010 , 59, 101-179	120

1181	Density Functional Study of Interaction of Atomic Pt with Pristine and Stone-Wales-Defective Single-Walled Boron Nitride Nanotubes. 2010 , 114, 12382-12388	26
1180	First-principles calculations of atomic and electronic properties of ZnO nanostructures. 2010 , 247, 2581-2593	7
1179	Vibration and symmetry-breaking of boron nitride nanotubes. 2010 , 21, 365702	41
1178	Boron Nitride Nanotubes as T2-Weighted MRI Contrast Agents. 2010 , 1, 2561-2565	24
1177	The physical and chemical properties of heteronanotubes. 2010 , 82, 1843-1885	197
1176	Rhodium atoms confined in boron nitride nanotubes: Density functional calculations. 2010 , 90, 47003	2
1175	Sulfur-assisted synthesis of nitride nanocrystals. 2010 , 39, 2855-60	20
1174	Noncovalent functionalization of boron nitride nanotubes with poly(p-phenylene-ethynylene)s and polythiophene. 2010 , 2, 104-10	72
1173	Fabrication of boron carbonitride (BCN) nanotubes and giant fullerene cages. 2010 , 88, 1256-1261	5
1172	Symmetry and Models of Single-Wall BN and TiO ₂ Nanotubes with Hexagonal Morphology. 2010 , 114, 21061-21069	43
1171	Electronic properties of BN/C nanotube heterostructures. 2010 , 107, 094304	30
1170	A density functional theory study of CO ₂ and N ₂ adsorption on aluminium nitride single walled nanotubes. 2010 , 20, 10426	54
1169	Spherical and Anisotropic Boron Nitride Nanomaterials: Synthesis and Characterization. 2010 ,	
1168	Theoretical study of physisorption of nucleobases on boron nitride nanotubes: a new class of hybrid nano-biomaterials. 2010 , 21, 165703	123
1167	Torsional Response of C60 Fullerenes Encapsulated Boron Nitride Nanotubes. 2010 , 114, 11421-11424	7
1166	Atomic resolution imaging and topography of boron nitride sheets produced by chemical exfoliation. 2010 , 4, 1299-304	285
1165	Graphene analogues of BN: novel synthesis and properties. 2010 , 4, 1539-44	609
1164	Single-crystal MgS nanotubes: synthesis and properties. 2010 , 12, 1286-1289	7

1163	Recent advancements in boron nitride nanotubes. 2010 , 2, 2028-34	180
1162	Potential applications of boron nitride nanotubes as drug delivery systems. 2010 , 7, 889-93	67
1161	Structural Stability and Electronic Properties of InAs Nanowires and Nanotubes: Effects of Surface and Size. 2010 , 114, 17514-17518	20
1160	Preparation and high catalytic performance of hollow BN spheres-supported Ni for hydrogen production from methanol. 2010 , 20, 5129	24
1159	Boron nitride nanotube films grown from boron ink painting. 2010 , 20, 9679	53
1158	Co9S8 nanotubes synthesized on the basis of nanoscale Kirkendall effect and their magnetic and electrochemical properties. 2010 , 12, 1899	140
1157	High-yield synthesis of hollow boron nitride nano-polyhedrons. 2011 , 21, 8694	37
1156	On the multiple BN bonding in boron compounds using the topological analysis of electron localization function (ELF). 2011 , 35, 89-96	33
1155	Hollow BN microspheres constructed by nanoplates: synthesis, growth mechanism and cathodoluminescence property. 2011 , 13, 819-826	20
1154	Boron nitride multiwall nanotubes decorated with BN nanosheets. 2011 , 13, 6526	18
1153	Electronic and Optical Properties of Low-Dimensional B2CN Nanomaterials from First Principles. 2011 , 115, 18802-18809	18
1152	Periodic ab initio estimates of the dispersive interaction between molecular nitrogen and a monolayer of hexagonal BN. 2011 , 13, 4434-43	20
1151	Novel route to high-yield synthesis of sp ² -hybridized boron nitride nanoplates on stainless steel. 2011 , 21, 10268	4
1150	Time-dependent density functional study of field emission from nanotubes composed of C, BN, SiC, Si, and GaN. 2011 , 22, 285702	8
1149	A Dielectric Effect on Normal Mode Analysis and Symmetry of BNNT Nanotube. 2011 , 19, 182-196	4
1148	A journey in search of single-walled metal-organic nanotubes. 2011 , 21, 13140	68
1147	Formation of amorphous zinc citrate spheres and their conversion to crystalline ZnO nanostructures. 2011 , 27, 371-8	45
1146	Longitudinal splitting of boron nitride nanotubes for the facile synthesis of high quality boron nitride nanoribbons. 2011 , 11, 3221-6	106

1145	Growth and Optical Properties of Rectangular Hollow Tube TiO ₂ Crystals with Rutile-Type Structure. 2011 , 11, 4427-4432	9
1144	A facile vapor-phase hydrothermal method for direct growth of titanate nanotubes on a titanium substrate via a distinctive nanosheet roll-up mechanism. 2011 , 133, 19032-5	90
1143	Electron correlation decides the stability of cubic versus hexagonal boron nitride. 2011 , 83,	24
1142	Bulk synthesis, growth mechanism and properties of highly pure ultrafine boron nitride nanotubes with diameters of sub-10 nm. 2011 , 22, 145602	83
1141	Noncovalent functionalization of disentangled boron nitride nanotubes with flavin mononucleotides for strong and stable visible-light emission in aqueous solution. 2011 , 3, 627-32	81
1140	Silver nanotubes [Biopolymer-assisted hydrothermal synthesis. 2011 , 89, 1245-1248	
1139	Features of phase transformations in boron nitride. 2011 , 20, 660-664	14
1138	Tunneling Magnetoresistance of Bilayer Hexagonal Boron Nitride and Its Linear Response to External Uniaxial Strain. 2011 , 115, 8260-8264	36
1137	Density functional studies of the fluorine-terminated boron nitride nanotubes through computations of quadrupole coupling constants. 2011 , 977, 29-33	9
1136	Heterogeneous Nanotubes: (X*CNTs, X*BNNTs). 2011 , 323-409	
1135	Nucleotide-assisted decoration of boron nitride nanotubes with semiconductor quantum dots endows valuable visible-light emission in aqueous solution. 2011 , 7, 8753	13
1134	Molten salt synthesis of silicon carbide nanorods using carbon nanotubes as templates. 2011 , 21, 18325	47
1133	BN white graphene with "colorful" edges: the energies and morphology. 2011 , 11, 3113-6	261
1132	Phonon dispersions and piezoelectricity in bulk and multilayers of hexagonal boron nitride. 2011 , 83,	111
1131	1,2-BN cyclohexane: synthesis, structure, dynamics, and reactivity. 2011 , 133, 13006-9	79
1130	Width- and Edge-Dependent Stability, Electronic Structures, and Magnetic Properties of Graphene-Like and Wurtzite ZnS Nanoribbons. 2011 , 115, 4466-4475	17
1129	Inorganic Nanotubes. 2011 , 391-412	4
1128	Synthesis Approaches of Inorganic Nanotubes. 2011 , 413-429	

1127	Inorganic Nanotubes beyond Cylindrical Matter. 2011 , 315-333	2
1126	Boron-Nitride Nanotubes as Zeptogram-Scale Bionanosensors: Theoretical Investigations. 2011 , 10, 659-667	49
1125	Local temperature measurements on nanoscale materials using a movable nanothermocouple assembled in a transmission electron microscope. 2011 , 22, 485707	14
1124	Nanofillers. 2011 , 1	
1123	Preparation and characterization of one-dimensional SiCNT composite nanotubes. 2011 , 20, 310-313	9
1122	Sensitivity of Boron Nitride Nanotubes toward Biomolecules of Different Polarities. 2011 , 2, 2442-2447	139
1121	BN nanospheres as CpG ODN carriers for activation of toll-like receptor 9. 2011 , 21, 5219	34
1120	Argon and Neon Storages in Single-Walled Boron Nitride Nanotubes: A Grand Canonical Monte-Carlo Study. 2011 , 19, 700-712	13
1119	Molecular- and Nano-Tubes. 2011 ,	8
1118	Controlling the Functionalizations of Hexagonal Boron Nitride Structures by Carrier Doping. 2011 , 2, 2168-2173	35
1117	Helical BN and ZnO nanotubes with intrinsic twisting: An objective molecular dynamics study. 2011 , 84,	28
1116	Bandgap Tuning of a (6,6) Boron Nitride Nanotube by Analyte Physisorption and Application of a Transverse Electric Field: A DFT Study. 2011 , 10, 1089-1092	7
1115	First-principles study on substituted doping of BN nanotubes by transition metals V, Cr and Mn. 2011 , 976, 215-220	48
1114	Effect of Preparation Conditions on the Crystallinity of Chemically Synthesized BCNO Nanophosphor. 2011 , 27, 967-972	21
1113	Characterization of thermal transport in low-dimensional boron nitride nanostructures. 2011 , 84,	227
1112	In vitro investigation of the cellular toxicity of boron nitride nanotubes. 2011 , 5, 3800-10	151
1111	Chapter 2:Inorganic Nanotubes. 2011 , 243-342	
1110	Inorganic Nanotubes beyond Cylindrical Matter. 2011 , 237-254	1

1109	Inorganic Nanotubes. 2011,	
1108	Facile Synthesis and Characterization of Hexagonal Boron Nitride Nanoplates by Two-Step Route. 2011, 94, 4496-4501	58
1107	Fabrication of Alumina Ceramic Reinforced with Boron Nitride Nanotubes with Improved Mechanical Properties. 2011, 94, 3636-3640	31
1106	Bottom-up realization of a porous metal-organic nanotubular assembly. 2011, 10, 291-5	162
1105	A DFT studies of structural and quadrupole coupling constants properties in C-doped BeO nanotubes. 2011, 50, 539-548	6
1104	Microstructure and mechanical properties of alumina ceramics reinforced by boron nitride nanotubes. 2011, 31, 2277-2284	41
1103	Selective synthesis of boron nitride nanotubes by self-propagation high-temperature synthesis and annealing process. 2011, 184, 2478-2484	50
1102	First-principles study of transition metal linear monoatomic chains adsorption on boron nitride nanotube. 2011, 406, 4572-4577	2
1101	Effect of tube radius on the electronic and magnetic properties of finite boron nitride zigzag nanotubes using DFT. 2011, 44, 179-185	7
1100	A facile method for synthesis of novel coral-like boron nitride nanostructures. 2011, 129, 30-34	11
1099	Vapor phase synthesis of BN ribbons with Sialon ribbons as self-sacrificing templates. 2011, 46, 970-974	7
1098	Synthesis of boron nitride nanotubes with SiC nanowire as template. 2011, 46, 1521-1523	24
1097	Formation of crystalline AlN nanotubes by a roll-up approach. 2011, 65, 1900-1902	5
1096	The effect of iron oxide on the formation of boron nitride nanotubes. 2011, 174, 687-692	15
1095	The first and second static electronic hyperpolarizabilities of zigzag boron nitride nanotubes. An ab initio approach through the coupled perturbed Kohn-Sham scheme. 2011, 115, 12631-7	28
1094	From graphene sheets to boron nitride nanotubes via a carbon-thermal substitution reaction. 2011, 6, 1331-4	4
1093	Polarizability and hyperpolarizability of BN zigzag nanotubes calculated by the coupled perturbed Kohn-Sham scheme. 2011, 83,	20
1092	Single-file water in nanopores. 2011, 13, 15403-17	88

1091	Linear augmented cylindrical wave Green's function method for perfect nanotubes and nanotubes with regular and point impurities. 2011 , 56, 2160-2182	2
1090	Formation energy and geometry of vacancies at BN and B x C y N z nanocones. 2011 , 80, 127-135	13
1089	First-principles calculations of the structural, electronic and magnetic properties of B _n N _{20B} (n = 6-8) clusters. 2011 , 63, 201-207	
1088	Platinum nanoparticle modified polyaniline-functionalized boron nitride nanotubes for amperometric glucose enzyme biosensor. 2011 , 3, 4354-62	108
1087	Carbon doped boron phosphide nanotubes: a computational study. 2011 , 17, 89-96	24
1086	A computational study of atomic oxygen-doped silicon carbide nanotubes. 2011 , 17, 527-31	6
1085	First-principles studies of zigzag pristine boron nitride nanotubes doped with one iron atom. 2011 , 102, 583-591	6
1084	Catalytic synthesis of bamboo-like multiwall BN nanotubes via SHS-annealing process. 2011 , 184, 633-636	8
1083	Exploring the interaction between the boron nitride nanotube and biological molecules. 2011 , 182, 39-42	41
1082	Structural analogues of graphyne family: New types of boron nitride sheets with wide band gap and strong UV absorption. 2011 , 502, 217-221	33
1081	The influence of NH ₃ -attaching on the NMR parameters in the zigzag BN nanotube. 2011 , 49, 169-175	8
1080	Ni ₃ Si ₂ O ₅ (OH) ₄ multi-walled nanotubes with tunable magnetic properties and their application as anode materials for lithium batteries. 2011 , 4, 882-890	112
1079	Metal-decorated defective BN nanosheets as hydrogen storage materials. 2011 , 6, 224-230	4
1078	The effects of atom pyramidalization and square distribution on the stability of F ₄ F ₆ -(BN) _n polyhedrons. 2011 , 111, 983-990	
1077	Hydrogen storage in nanotubes & nanostructures. 2011 , 14, 324-328	99
1076	Simply heating to remove the sacrificial core TeO ₂ nanowires and to generate tubular nanostructures of metal oxides. 2011 , 170, 326-332	5
1075	Theoretical studies on the structure and properties of BN clusters (BN) _n and endohedral metallo-BN clusters M@(BN) _n . 2011 , 964, 56-64	12
1074	Substitutional doping of BN nanotube by transition metal: A density functional theory simulation. 2011 , 964, 199-206	34

1073	Synthesis and growth of boron nitride nanotubes by a ball milling–annealing process. 2011 , 59, 2807-2813	31
1072	Catalyst-free synthesis of nanotubes and whiskers in an optical furnace and a gaseous model for their formation and growth. 2011 , 59, 4395-4403	6
1071	Synthesis of single-crystalline β -MnO ₂ nanotubes and structural characterization by HRTEM. 2011 , 176, 1054-1057	13
1070	Boron nitride nanotube reinforced hydroxyapatite composite: mechanical and tribological performance and in-vitro biocompatibility to osteoblasts. 2011 , 4, 44-56	156
1069	A molecular mechanics study on size-dependent elastic properties of single-walled boron nitride nanotubes. 2011 , 59, 1204-1213	71
1068	Organic–inorganic nanotube hybrids: Organosilica-nanotubes containing ethane, ethylene and acetylene groups. 2011 , 696, 2910-2917	9
1067	Effect of the dangling bond on the electronic and magnetic properties of BN nanoribbon. 2011 , 72, 256-262	31
1066	Elastic light scattering from π electrons in zigzag BN single-walled nanotubes. 2011 , 406, 3715-3722	4
1065	The X (X=C, Si and Ge) doped BN nanotube: A computational study. 2011 , 50, 14-20	6
1064	Theoretical insights into the built-in electric field and band offsets of BN/C heterostructured zigzag nanotubes. 2011 , 44, 095405	16
1063	Potential room temperature ferromagnetic O/BN and F/BN bilayers. 2011 , 23, 066001	1
1062	Boron Nitride Nanotubes: Production, Properties, Biological Interactions and Potential Applications as Therapeutic Agents in Brain Diseases. 2011 , 7, 94-109	25
1061	Routes to identification of intrinsic twist in helical MoS ₂ nanotubes by electron diffraction and annular dark-field scanning transmission electron microscopy imaging. 2011 , 84,	9
1060	Electronic structures of graphene/boron nitride sheet superlattices. 2011 , 84,	30
1059	Conceptual progress for explaining and predicting semiconductor properties. 2011 , 26, 2815-2825	5
1058	Deformation behaviors of an armchair boron-nitride nanotube under axial tensile strains. 2011 , 110, 054310	46
1057	One-dimensional alkali-doped C ₆₀ chains encapsulated in BN nanotubes. 2011 , 83,	2
1056	Surface effect on the bandgap of BN one-dimensional nanostructures. 2011 , 110, 034317	3

1055	Geometrical interpretation and curvature distribution in nanocarbons. 2011 , 109, 074316	16
1054	Optical properties of boron nitride nanoribbons: Excitonic effects. 2011 , 99, 063114	28
1053	The Electronic Properties of Al-, P-Doped and Al, P Co-Doped Boron Nitride Nanotubes. 2011 , 399-401, 2215-2221	
1052	Selective Synthesis of Boron Nitride Nanotubes. 2011 , 694, 408-412	1
1051	Facile Synthesis of Pure Boron Nanotubes and Nanofibers. 2011 , 1307, 1	5
1050	Boron: Inorganic Chemistry. 2011 ,	1
1049	Asymmetric energy transport in defected boron nitride nanoribbons: Implications for thermal rectification. 2011 , 1, 041703	5
1048	Synthesis and Comparison of Boron Nitride Nanostructure Prepared on Silicon and Molybdenum Substrates by Laser Plasma Deposition Technique. 2011 , 1307, 1	
1047	Catalyst-free growth of mono- and few-atomic-layer boron nitride sheets by chemical vapor deposition. 2011 , 22, 215602	30
1046	DENSITY FUNCTIONAL THEORY STUDY ON THE SINGLE-WALL BORON NITRIDE NANOTUBE, WITH VARIOUS LENGTHS UNDER THE INFLUENCE OF EXTERNAL ELECTRICAL FIELD. 2011 , 10, 519-529	2
1045	Numerical Simulations Using a Molecular Mechanics-based Finite Element Approach: Application on Boron-Nitride Armchair Nanotubes. 2011 , 12, 203-211	8
1044	Electronic structures and optical properties of hexagonal boron nitride under hydrostatic pressures. 2011 , 109, 073708	13
1043	Structural and Electronic Properties of Low-Dimensional C-Nanoassemblies and Possible Analogues for Si (and Ge). 2011 , 2011, 1-9	3
1042	The Structure and Light Emitting of Silicon-Doped Boron Nitride Nanotubes. 2012 , 616-618, 1898-1901	1
1041	Development of Innovative Algorithm for Nanomechanics and its Applications to the Characterization of Materials. 2012 , 528, 165-196	
1040	Electronic Structures of InGaN 2 Nanotubes. 2012 , 29, 107301	1
1039	Chapter 9.2:Drug Delivery Strategies for Bone Regeneration. 2012 , 526-547	
1038	Negative Gaussian curvature distribution in physical and biophysical systems (Curved nanocarbons and ion-channel membrane proteins). 2012 , 112, 114316	12

1037	Infrared spectrum of single-walled boron nitride nanotubes. 2012 , 85,	16
1036	Adsorption Properties of H ₂ O ₂ Trapped Inside Boron Nitride Nanotube. 2012 , 20, 243-248	2
1035	Direct structure analysis of advanced nanomaterials by high-resolution electron microscopy. 2012 , 1, 389-425	17
1034	Creation of boron nitride nanotubes and possibility for a series of advanced nano-composite materials. 2012 , 629-637	
1033	Semiconducting hexagonal boron nitride for deep ultraviolet photonics. 2012 ,	9
1032	Quantifying the transverse deformability of double-walled carbon and boron nitride nanotubes using an ultrathin nanomembrane covering scheme. 2012 , 112, 104318	8
1031	Carbon Nanotubes and Other Tube Structures. 2012 , 215-252	1
1030	Syntheses of Boron Nitride Nanotubes from Borazine and Decaborane Molecular Precursors by Catalytic Chemical Vapor Deposition with a Floating Nickel Catalyst. 2012 , 24, 2872-2879	35
1029	Enhanced ethanol sensing properties of TiO ₂ nanotube sensors. 2012 , 173, 441-446	117
1028	Exploring the electronic and magnetic properties of C ₆₀ fullerene dimers with ladderane-like hexagonal bridges. 2012 , 1000, 85-91	6
1027	Density Functional Study of Interaction of Lithium with Pristine and Stone-Wales-Defective Single-Walled Silicon Carbide Nanotubes. 2012 , 116, 26888-26897	18
1026	Efficient disentanglement of boron nitride nanotubes using water-soluble polysaccharides for protein immobilization. 2012 , 2, 6200	25
1025	Colorings of single-wall carbon nanotubes. 2012 , 227, 672-680	3
1024	Morphology dependence of radial elasticity in multiwalled boron nitride nanotubes. 2012 , 101, 103109	10
1023	Topical Developments of Nanoporous Membrane Filters for Ultrafine Noble Metal Nanoparticles. 2012 , 2012, 5439-5450	22
1022	Electromechanical coupling effect on electronic properties of double-walled boron nitride nanotubes. 2012 , 28, 1532-1538	4
1021	The preferential permeation of ions across carbon and boron nitride nanotubes. 2012 , 403, 105-112	21
1020	First principles calculation on the structure and electronic properties of BNNTs functionalized with isoniazid drug molecule. 2012 , 2, 389-400	42

1019	Adhesion and size dependent friction anisotropy in boron nitride nanotubes. 2012 , 23, 455706	8
1018	The stability and nonlinear optical properties: Encapsulation of an excess electron compound LiCN?Li within boron nitride nanotubes. 2012 , 22, 2196-2202	93
1017	First-Principle Study on Structural and Electronic Properties of Pristine and Adsorbed LiF Nanotubes. 2012 , 116, 1650-1657	9
1016	Structures, stability and electronic properties of two- or four-segment BN/C nanotubes. 2012 ,	
1015	The structures and stability of BnNn clusters with octagon(s). 2012 , 2, 12466	4
1014	Controlling bandgap of rippled hexagonal boron nitride membranes via plasma treatment. 2012 , 4, 30-3	33
1013	Synthesis and Crystal Structures of P-Iron-Substituted Phosphinoborane Monomers. 2012 , 31, 2026-2034	10
1012	Biocompatibility and Toxicity of Nanoparticles and Nanotubes. 2012 , 2012, 1-19	89
1011	The Effects of Radial Compression on Thermal Conductivity of Carbon and Boron Nitride Nanotubes. 2012 , 2012, 1-4	1
1010	Structural, Electronic, and Mechanical Properties of Single-Walled Chrysotile Nanotube Models. 2012 , 116, 9405-9411	30
1009	Nanoscale pumping of water by AC electric fields. 2012 , 12, 1780-3	105
1008	Effect of Reaction Temperature and Catalyst Type on the Formation of Boron Nitride Nanotubes by Chemical Vapor Deposition and Measurement of Their Hydrogen Storage Capacity. 2012 , 51, 11341-11347	19
1007	Photoluminescence and hydrogen gas-sensing properties of titanium dioxide nanostructures synthesized by hydrothermal treatments. 2012 , 4, 1656-65	35
1006	Nonequilibrium synthesis of silica-supported magnetite tubes and mechanical control of their magnetic properties. 2012 , 134, 15519-27	21
1005	A comprehensive analysis of the CVD growth of boron nitride nanotubes. 2012 , 23, 215601	72
1004	Self-Scrolling Nanotubular Structure of Amorphous Vinyl Polymer Containing Tetraphenylthiophene-quinoline Pendant Groups.. 2012 , 1, 452-456	2
1003	Effect of tube radius on the exohedral chemical functionalization of boron-nitride zigzag nanotubes with NH ₃ . 2012 , 407, 3841-3848	17
1002	Exploring magnetic properties inside full equatorial BN-substituted fullerenes C _n (n=20, 24, 30, 36, 60, 80): A computational NICS characterization. 2012 , 44, 1386-1391	16

1001	Investigation of tensile response and thermal conductivity of boron-nitride nanosheets using molecular dynamics simulations. 2012 , 44, 1846-1852	100
1000	Electronic transport properties of an armchair boron-nitride nanotube. 2012 , 44, 2105-2109	10
999	Controllable oxidation of h-BN monolayer on Ir(111) studied by core-level spectroscopies. 2012 , 606, 564-570	39
998	Synthesis, properties and applications of nanoscale nitrides, borides and carbides. 2012 , 4, 4900-15	49
997	First-principles study of CO and NO adsorption on transition metals doped (8,0) boron nitride nanotube. 2012 , 258, 6391-6397	110
996	Ab initio investigation of the SCN ₂ chemisorption of single-walled boron nitride nanotubes. 2012 , 258, 9536-9543	35
995	A first-principles study of the SCN ₂ chemisorption on the surface of AlN, AlP, and BP nanotubes. 2012 , 259, 637-642	23
994	Characterization and the hydrogen storage capacity of titania-coated electrospun boron nitride nanofibers. 2012 , 37, 11237-11243	14
993	From the computer to the laboratory: materials discovery and design using first-principles calculations. 2012 , 47, 7317-7340	129
992	Structural and electronic properties of BN Möbius stripes. 2012 , 85, 1	4
991	Mechanically activated catalyst mixing for high-yield boron nitride nanotube growth. 2012 , 7, 417	42
990	Smart Nanomaterials for Space and Energy Applications. 2012 , 213-249	
989	Geometries and stabilities of transition metals doped perfect and Stone-Wales defective armchair (5,5) boron nitride nanotubes. 2012 , 23, 1819-1830	16
988	Nanotechnology-driven chemistry of boron materials. 2012 , 84, 2299-2308	15
987	Plasma-Chemical Synthesis of Nanosized Powders-Nitrides, Carbides, Oxides, Carbon Nanotubes and Fullerenes. 2012 , 14, 980-995	8
986	Prediction of superhard carbon allotropes from the segment combination method. 2012 , 34, 386-399	16
985	Novel polymer nanocomposites from bioinspired green aqueous functionalization of BNNTs. 2012 , 3, 962	130
984	Self-assembly mechanisms of short atomic chains on single-layer graphene and boron nitride. 2012 , 86,	23

983	First-principles study of O-BN: A sp ³ -bonding boron nitride allotrope. 2012 , 112, 053518	44
982	Low-dimensional boron nitride nanomaterials. 2012 , 15, 256-265	297
981	Mechanical alloying preparation of fullerene-like Co ₃ C nanoparticles with high hydrogen storage ability. 2012 , 37, 17126-17130	23
980	Theoretical investigation of pristine and functionalized AlN and SiC single walled nanotubes as an adsorption candidate for methane. 2012 , 263, 553-562	24
979	Thermal expansion/contraction of boron nitride nanotubes in axial, radial and circumferential directions. 2012 , 65, 356-364	11
978	Boron nitride nanotubes with quadrangular cross sections: Density functional studies. 2012 , 52, 648-652	2
977	Electronic transport properties through ZGNR/BNAM/ZGNR. 2012 , 46, 250-253	14
976	Synthesis of multiwall boron nitride nanotubes dependent on crystallographic structure of boron. 2012 , 137, 182-187	15
975	Z-BN: a novel superhard boron nitride phase. 2012 , 14, 10967-71	63
974	Adsorption of Na, Mg, and Al atoms on BN nanotubes. 2012 , 526, 139-142	11
973	Stereo Boron Nitride Nanoribbons with Junction-Dependent Electronic Structures from First-Principles. 2012 , 116, 5995-6003	12
972	Influence of disorder on thermal transport properties of boron nitride nanostructures. 2012 , 86,	47
971	Relative stability of BN nanotubes. 2012 , 14, 1664-1668	4
970	Compressive and tensile behaviors of carbon and boron nitride nanotubes. 2012 ,	1
969	Controlling Wettability of Boron Nitride Nanotube Films and Improved Cell Proliferation. 2012 , 116, 18334-18339	62
968	Interaction of small molecules (NO, H ₂ , N ₂ , and CH ₄) with BN nanocluster surface. 2012 , 23, 1567-1572	86
967	Theoretical investigation of the electronic structures and carrier transport of hybrid graphene and boron nitride nanostructure. 2012 , 2, 032133	11
966	Native defects in hybrid C/BN nanostructures by density functional theory calculations. 2012 , 85,	37

965	Determination of the chiral indices of tungsten disulfide (WS ₂) nanotubes by electron diffraction. 2012 , 552, 92-96	9
964	Computation of the infrared active modes in single-walled boron nitride nanotube bundles. 2012 , 24, 335304	1
963	Probing of Ni-Encapsulated Ferromagnetic Boron Nitride Nanotubes by Time-Resolved and Steady-State Photoluminescence Spectroscopy. 2012 , 116, 12803-12809	12
962	Radial elasticity of multi-walled boron nitride nanotubes. 2012 , 23, 095703	33
961	Ultrahigh torsional stiffness and strength of boron nitride nanotubes. 2012 , 12, 6347-52	60
960	Vibration Analysis of Single Walled Boron Nitride Nanotube Based Nanoresonators. 2012 , 3,	9
959	Identification of a boron nitride nanosphere-binding peptide for the intracellular delivery of CpG oligodeoxynucleotides. 2012 , 4, 6343-50	43
958	Pilot in vivo toxicological investigation of boron nitride nanotubes. 2012 , 7, 19-24	68
957	Radial mechanical properties of single-walled boron nitride nanotubes. 2012 , 8, 116-21	38
956	First-principles study of oxidized BC ₂ N nanotubes. 2012 , 112, 3312-3319	5
955	A computational investigation of carbon-doped beryllium monoxide nanotubes. 2012 , 10, 96-104	3
954	An all-purpose building block: B ₁₂ N ₁₂ fullerene. 2012 , 4, 1665-70	16
953	Water diffusion inside carbon nanotubes: mutual effects of surface and confinement. 2012 , 14, 964-71	64
952	Annex: Synthesis of Engineered Nanomaterials. 2012 , 315-331	0
951	Controlled fabrication of ultrathin-shell BN hollow spheres with excellent performance in hydrogen storage and wastewater treatment. 2012 , 5, 7072	145
950	Theoretical Study of the Mechanical Behavior of Individual TiS ₂ and MoS ₂ Nanotubes. 2012 , 116, 11714-11721	98
949	Binary and ternary atomic layers built from carbon, boron, and nitrogen. 2012 , 24, 4878-95	197
948	Breaking the Myth of the Recalcitrant Chemisorbed Hydrogens on Boron Nitride Nanotubes: A Theoretical Perspective. 2012 , 124, 4228-4232	8

947	Breaking the myth of the recalcitrant chemisorbed hydrogens on boron nitride nanotubes: a theoretical perspective. 2012 , 51, 4152-6	20
946	The excess electron in a boron nitride nanotube: pyramidal NBO charge distribution and remarkable first hyperpolarizability. 2012 , 18, 11350-5	72
945	Structural characteristics of graphane-type C and BN nanostructures by periodic local MP2 approach. 2012 , 13, 2361-7	9
944	Microstructure and cathodoluminescence study of GaN nanowires without/with P-doping. 2012 , 47, 207-212	9
943	Enantioselective synthesis of a chiral nitrogen-doped buckyball. 2012 , 3, 891	143
942	Modeling of Nanostructures. 2012 , 995-1041	
941	DFT Study of Endohedral Atoms Effect on Electrophilicity of B ₁₆ N ₁₆ Boron Nitride Nanocage: Comparative Analyses. 2012 , 23, 297-310	7
940	Carbon dioxide detection by boron nitride nanotubes. 2012 , 108, 283-289	20
939	Methane storage in homogeneous armchair open-ended single-walled boron nitride nanotube triangular arrays: a grand canonical Monte Carlo simulation study. 2012 , 18, 2699-708	6
938	Can trans-polyacetylene be formed on single-walled carbon-doped boron nitride nanotubes?. 2012 , 18, 3415-25	2
937	Hydrogen adsorption on Ce/BNNT systems: A DFT study. 2012 , 37, 5090-5099	41
936	First-principles study of substitutional carbon pair and Stone-Wales defect complexes in boron nitride nanotubes. 2012 , 522, 79-82	17
935	Electro-optical properties of zigzag and armchair boron nitride nanotubes under a transverse electric field: Tight binding calculations. 2012 , 73, 154-161	16
934	A DFT study on group III and V combined hexagonal clusters as potential building motifs for inorganic nanomaterials. 2012 , 1007, 203-207	5
933	Boron adsorption induced magnetism in zigzag boron nitride nanotubes. 2012 , 1020, 183-187	4
932	Effects of electric and magnetic fields on the electronic properties of zigzag carbon and boron nitride nanotubes. 2012 , 14, 456-464	14
931	Covalent attachments of boron nitride nanotubes through a carboxylic linker: Density functional studies. 2012 , 14, 689-692	9
930	A computational NMR study of nitrogen substitutional impurity in the armchair BeO nanotube. 2012 , 51, 363-371	7

929	First-principles study of intrinsic defect properties in hexagonal BN bilayer and monolayer. 2012 , 152, 816-820	28
928	Structural and electronic properties of sulphur-doped boron nitride nanotubes. 2012 , 152, 802-805	11
927	Magnetic properties and electronic structures of hcp Fe, Co and Ni nanowires encapsulated in a zigzag (12,0) BN nanotube. 2012 , 407, 2136-2140	5
926	Coalescence of BnNn fullerenes: A new pathway to produce boron nitride nanotubes with small diameter. 2012 , 376, 1465-1467	23
925	Imperfect periodicity and systematic changes of some structural features along linear polymers: the case of rod-like boron/nitrogen nanostructures. 2012 , 131, 1	5
924	Sublattice Superconductivity in Boron Nitride Nanotube. 2013 , 26, 2905-2909	3
923	Formation of thin tubular ZnO nanostructure through spontaneously formed porous Zn/ZnO nanoparticles. 2013 , 8, 267-270	
922	A theoretical study of the adsorption behavior of N ₂ O on single-walled AlN and AlP nanotubes. 2013 , 58, 178-190	15
921	Interesting properties of ferroelectric Pb(Zr _{0.5} Ti _{0.5})O ₃ nanotube array embedded in matrix medium. 2013 , 114, 044105	3
920	Weak morphology dependent valence band structure of boron nitride. 2013 , 114, 054306	9
919	First-principles calculations of the Young's modulus of double wall boron-nitride nanotubes. 2013 , 138, 963-966	15
918	Design and Synthesis of Enantiomerically Pure Chiral Sandwichlike Lamellar Structure: New Explorations from Molecular Building Blocks to Three-Dimensional Morphology. 2013 , 13, 976-980	7
917	The study of the effect of increasing adsorbed hydrogen's atomic percentage on electronic properties of boron-nitride nanotube. 2013 , 53, 168-172	5
916	Solvent features of cluster single-wall C, BC ₂ N and BN nanotubes, cones and horns. 2013 , 108, 127-133	4
915	Electronic properties of C-substituted boron nanotubes: a first principles study. 2013 , 86, 1	1
914	Optical properties of BeO nanotubes: Ab initio study. 2013 , 156, 1-7	23
913	Physisorption vs. chemisorption of probe molecules on boron nitride nanomaterials: the effect of surface curvature. 2013 , 15, 13190-8	27
912	Surface wetting processing on BNNT films by selective plasma modes. 2013 , 58, 3403-3408	6

911	Strain engineering of magnetic states of vacancy-decorated hexagonal boron nitride. 2013 , 103, 102401	45
910	Nanotubes and Peapods. 2013 , 925-940	
909	Optical properties of hexagonal boron nanotubes by first-principles calculations. 2013 , 114, 073514	11
908	Tunable differential conductance of single wall C/BN nanotube heterostructure. 2013 , 19, 2965-9	8
907	First-principles simulations of the chemical functionalization of (5,5) boron nitride nanotubes. 2013 , 19, 2335-41	26
906	Boron nitride nanotube based nanosensor for acetone adsorption: a DFT simulation. 2013 , 19, 1259-65	16
905	The vibration properties of the (n,0) boron nitride nanotubes from ab initio quantum chemical simulations. 2013 , 138, 054906	39
904	Enhanced band-edge photoluminescence from ZnO-passivated ZnO nanoflowers by atomic layer deposition. 2013 , 8, 105	12
903	Computational investigation of the electronic and structural properties of CN radical on the pristine and Al-doped (6, 0) BN nanotubes. 2013 , 430, 20-26	14
902	Infrared-active modes in finite and infinite double-walled boron nitride nanotubes. 2013 , 48, 140-147	5
901	Non bonded interaction between BnNn (stator) and (rotor) systems: A quantum rotation in IR region. 2013 , 425, 29-45	27
900	Thermal transport in boron nitride nanotubes towards a nanoscopic thermal shield. 2013 , 114, 183502	3
899	Vibrational characteristics of defective single walled BN nanotube based nanomechanical mass sensors: Extended defect or dislocation line. 2013 , 203, 160-167	8
898	First-principles investigation of the interaction between BN, SiC and ZnO nanotubes with BaTiO ₃ . 2013 , 63, 298-305	10
897	TiO ₂ nanotube arrays via electrochemical anodic oxidation: Prospective electrode for sensing phenyl hydrazine. 2013 , 103, 061602	16
896	Mechanics and Mechanically Tunable Band Gap in Single-Layer Hexagonal Boron-Nitride. 2013 , 1, 200-206	113
895	Vibration responses of h-BN sheet to charge doping and external strain. 2013 , 139, 214708	5
894	Synthesis of uniform plate-like boron nitride nanoparticles from boron oxide by ball milling and annealing process. 2013 , 108, 96-102	10

893	Identifying potential candidates for donor-acceptor copolymers on a series of 4H-1,2,6-thiadiazines: An electrochemical approach. 2013 , 107, 448-453	10
892	A new generation of B(n)N(n) rings as a supplement to boron nitride tubes and cages. 2013 , 117, 1670-84	30
891	Preparation and hydrogen sorption performances of BCNO porous microbelts with ultra-narrow and tunable pore widths. 2013 , 8, 2936-9	12
890	Unusual Metallic Microporous Boron Nitride Networks. 2013 , 4, 3484-3488	69
889	First principal study on optical properties of carbon and gallium nitride nanotubes. 2013 , 304, 143-147	10
888	Purification of boron nitride nanotubes via polymer wrapping. 2013 , 48, 1197-1203	16
887	Synthesis of boron nitride nanotubes using thermal chemical vapor deposition of ball milled boron powder. 2013 , 19, 1117-1122	18
886	Atomically thin boron nitride nanodisks. 2013 , 106, 409-412	6
885	Theoretical Study of Boron Nitride Nanotubes with Armchair Forms. 2013 , 21, 381-393	12
884	Nanomechanical cutting of boron nitride nanotubes by atomic force microscopy. 2013 , 24, 505719	14
883	Diameter-dependent bending modulus of individual multiwall boron nitride nanotubes. 2013 , 117, 4618-25	25
882	Structures, Energetics, and Electronic Properties of Layered Materials and Nanotubes of Cadmium Chalcogenides. 2013 , 117, 25817-25825	19
881	Synthesis of boron nitride nanotubes from ammonia and a powder mixture of boron and iron oxide. 2013 , 219, 28-36	24
880	Compressive buckling of open-ended boron nitride nanotubes in hydrogen storage applications. 2013 , 50, 29-36	29
879	Armchair BN nanotubes--levothyroxine interactions: a molecular study. 2013 , 19, 4991-6	26
878	Cantilevered single walled boron nitride nanotube based nanomechanical resonators of zigzag and armchair forms. 2013 , 50, 73-82	13
877	Adsorption of chitosan on BN nanotubes: A DFT investigation. 2013 , 268, 259-264	40
876	Ab initio studies of effect of intercalation on the properties of single walled carbon and gallium phosphide nanotubes. 2013 , 54, 273-280	8

875	On the friction and wear of carbon nanofiber-reinforced PEEK-based polymer composites. 2013 , 227-305	
874	Development of Preparation of Boron Nitride Nanotubes. 2013 , 634-638, 2140-2143	
873	Coordination nanotubes self-assembled from cucurbit[7]uril and lanthanide cations. 2013 , 15, 3943	46
872	The distorted K1 soft mode of hexagonal-BN sheet and effects of charge doping. 2013 , 103, 183106	8
871	Effects of deformation on the electronic properties of BN nanotubes. 2013 , 197, 254-260	11
870	Transmission electron microscope as an ultimate tool for nanomaterial property studies. 2013 , 62, 157-75	7
869	Density functional investigation of CO adsorption on Ni-doped single-walled armchair (5,5) boron nitride nanotubes. 2013 , 19, 239-45	23
868	A comprehensive study of boron nitride nanotubes multiple synthesis from a single precursor. 2015 , 89, 209-216	7
867	Effect of the Stone-Wales (SW) defect on the response of BNNT to axial tension and compression: a quantum chemical study. 2015 , 26, 11-22	18
866	Boron Nitride Nanotube-Based Mass Sensing of Zeptogram Scale. 2015 , 48, 17-21	5
865	Electro-thermal vibration of a smart coupled nanobeam system with an internal flow based on nonlocal elasticity theory. 2015 , 456, 375-382	13
864	Structure, electronic and magnetic properties of hexagonal boron nitride sheets doped by 5d transition metal atoms: First-principles calculations and molecular orbital analysis. 2015 , 65, 24-29	27
863	Methodology to Obtain and Study Geometries of Single and Double Wall Silicon Carbide Nanotubes. 2016 , 6, 60-80	3
862	Influence of Defects in Boron Nitride Nanotubes in the Adsorption of Molecules. Insights from B3LYP-D2* Periodic Simulations. 2016 , 6, 63	17
861	Optical properties of boron nitride nanotubes: potential exploitation in nanomedicine. 2016 , 139-147	0
860	Boron nitride nanotube films: preparation, properties, and implications for biology applications. 2016 , 165-181	
859	Boron. 2016 , 139-150	0
858	Boron nitride nanotubes as bionanosensors. 2016 , 149-164	2

857	Folate-conjugated boron nitride nanospheres for targeted delivery of anticancer drugs. 2016 , 11, 4573-4582	45
856	Boron Nitride Nanotubes: Recent Advances in Their Synthesis, Functionalization, and Applications. 2016 , 21,	55
855	Boron nitride nanotubes in nanomedicine: historical and future perspectives. 2016 , 201-217	0
854	Solution Processing of Low-Dimensional Nanostructured Titanium Dioxide. 2016 , 475-496	2
853	Structural and physical properties of boron nitride nanotubes and their applications in nanocomposites. 2016 , 183-199	4
852	Boron Nitride Nanotubes and Layer-By-Layer Polyelectrolyte Coating for Yeast Cell Surface Engineering. 2016 , 2, 426-429	13
851	Evolution of Irradiation-Induced Vacancy Defects in Boron Nitride Nanotubes. 2016 , 12, 818-24	11
850	Preferable Orientations of Interacting C 60 Molecules inside Single Wall Boron Nitride Nanotubes. 2016 , 33, 056701	
849	Thermal conductivity of bulk boron nitride nanotube sheets and their epoxy-impregnated composites. 2016 , 213, 2237-2242	24
848	Electrostatic Interaction-Directed Growth of Nickel Phosphate Single-Walled Nanotubes for High Performance Oxygen Evolution Reaction Catalysts. 2016 , 12, 2969-74	35
847	Platinum Nanoparticle Loading of Boron Nitride Aerogel and Its Use as a Novel Material for Low-Power Catalytic Gas Sensing. 2016 , 26, 433-439	62
846	A Review on the Preparation of Borazine-Derived Boron Nitride Nanoparticles and Nanopolyhedrons by Spray-Pyrolysis and Annealing Process. 2016 , 6, 1	100
845	Selective oxidative dehydrogenation of propane to propene using boron nitride catalysts. <i>Science</i> , 2016 , 354, 1570-1573	33-3 388
844	Synthesis micro-scale boron nitride nanotubes at low substrate temperature. 2016 , 6, 075110	5
843	Super-stretchable borophene. 2016 , 116, 36001	19
842	Implementation of Outstanding Electronic Transport in Polar Covalent Boron Nitride Atomic Chains: another Extraordinary Odd-Even Behaviour. 2016 , 6, 26389	9
841	Wafer-scale controlled exfoliation of metal organic vapor phase epitaxy grown InGaN/GaN multi quantum well structures using low-tack two-dimensional layered h-BN. 2016 , 108, 171106	56
840	An array of layers in silicon sulfides: Chainlike and monolayer. 2016 , 94,	3

839	Systematic investigation of the ball milling-annealing growth and electrical properties of boron nitride nanotubes. 2016 , 6, 113415-113423	7
838	Modeling of boron nitride-based nanotube biological sensor using neural networks. 2016 ,	2
837	Theoretic Study on Dispersion Mechanism of Boron Nitride Nanotubes by Polynucleotides. 2016 , 6, 39747	7
836	Lab-on-paper micro- and nano-analytical devices: Fabrication, modification, detection and emerging applications. 2016 , 183, 1521-1542	88
835	Boron Nanowires: Synthesis and Properties. 2016 , 87-110	1
834	Prediction of the electronic structure of single-walled black phosphorus nanotubes. 2016 , 18, 15177-81	8
833	The stabilities and electronic structures of Al _n Si _{12-n} N ₁₂ (n = 0, 1, 2, and 4). 2016 , 31, 241-249	1
832	Uncertainties in the Capillary Filling of Heterogeneous Water Nanochannels. 2016 , 120, 12871-12878	10
831	Structural and chemical analysis of gadolinium halides encapsulated within WS ₂ nanotubes. 2016 , 8, 12170-81	6
830	Mechanical properties of hybrid boron nitride-carbon nanotubes. 2016 , 49, 155305	20
829	Optical and electronic properties of SO ₂ molecule adsorbed on Si-doped (8, 0) boron nitride nanotube. 2016 , 83, 365-371	1
828	Conceptual design of tetraazaporphyrin- and subtetraazaporphyrin-based functional nanocarbon materials: electronic structures, topologies, optical properties, and methane storage capacities. 2016 , 18, 13503-18	3
827	Computational study of the structure, UV-vis absorption spectra and conductivity of biphenylene-based polymers and their boron nitride analogues. 2016 , 6, 49505-49516	15
826	Polymer Nanocomposites. 2016 ,	9
825	Quasi-particle energies and optical excitations of wurtzite BeO and its nanosheet. 2016 , 682, 254-262	50
824	Biocompatibility evaluation of boron nitride nanotubes. 2016 , 41-58	4
823	Connecting effect on the first hyperpolarizability of armchair carbon-boron-nitride heteronanotubes: pattern versus proportion. 2016 , 18, 13954-9	15
822	Functionalized hexagonal boron nitride nanomaterials: emerging properties and applications. 2016 , 45, 3989-4012	657

821	Remote catalyzation for growth of boron nitride nanotubes by low pressure chemical vapor deposition. 2016 , 652, 27-31	17
820	Recent Progress on the Synthesis of 2D Boron Nitride Nanosheets. 2016 , 37-66	
819	Effects of Different Hydrogenation Regimes on Mechanical Properties of h-BN: A Reactive Force Field Study. 2016 , 120, 21932-21938	32
818	Enhancement in hydrogen molecule adsorption on B ₁₂ N ₁₂ nano-cluster by decoration of nickel. 2016 , 41, 22182-22191	77
817	Catalytic decomposition of hydrazine borane over pristine and Al-embedded boron nitride nanotubes: A DFT study. 2016 , 41, 20172-20184	4
816	First-principles study of the crystal structures and physical properties of H ₁₈ -BN and Rh ₆ -BN. 2016 , 380, 3891-3896	14
815	Synthesis and radiation response of BCON: a graphene oxide and hexagonal boron nitride hybrid. 2016 , 3, 025028	10
814	Dynamical properties of ultrathin armchair boron nitride nanotubes using density functional theory. 2016 , 3, 085015	2
813	Adsorption of SO ₂ and NO ₂ on metal-doped boron nitride nanotubes: A computational study. 2016 , 1092, 108-113	11
812	Phosphorus-Substituted Carboranes in Catalysis. 2016 , 549-598	1
811	Tunable electronic and magnetic properties of two-dimensional materials and their one-dimensional derivatives. 2016 , 6, 324-350	49
810	Variation of the electronic properties of zigzag boron nitride nanotubes by Al-doping: a DFT study. 2016 , 114, 2936-2943	1
809	Two-dimensional boron nitride structures functionalization: first principles studies. 2016 , 22, 226	9
808	The role of boron nitride nanotube as a new chemical sensor and potential reservoir for hydrogen halides environmental pollutants. 2016 , 98, 325-331	38
807	Size effects on the infrared responses of boron carbide nanotubes. 2016 , 84, 548-554	1
806	The interaction between Boron-carbon-nitride heteronanotubes and lithium atoms: Role of composition proportion. 2016 , 658, 230-233	3
805	Lattice mismatch induced curved configurations of hybrid boron nitride-carbon nanotubes. 2016 , 84, 372-377	7
804	Energetics and Electronic Structure of h-BN Nanoflakes. 2016 , 6, 30653	23

803	Synthesis and Characterization of Hexagonal Boron Nitride as a Gate Dielectric. 2016 , 6, 30449	84
802	Functionalization of boron nitride nanotubes for applications in nanobiomedicine. 2016 , 17-40	5
801	Bandgap oscillation in quasiperiodic (BN) _x Cy nanotubes. 2016 , 248, 32-42	
800	An Automated Exploration of Hexagonal Boron Nitride Structures by Using Quantum Chemical Calculations. 2016 , 45, 333-335	2
799	Optical absorption and transmission in a molybdenum disulfide monolayer. 2016 , 94,	20
798	Analytical solutions for elastic binary nanotubes of arbitrary chirality. 2016 , 32, 1046-1057	3
797	First-principles study of O ₂ and Cl ₂ molecule adsorption on pristine doped boron nitride nanotubes. 2016 , 94, 1071-1079	3
796	Structures of Vanadium Oxide Cluster Ions up to Nanometer Diameter Investigated by Ion Mobility Mass Spectrometry. 2016 , 89, 1225-1229	4
795	Growth of single-layer boron nitride dome-shaped nanostructures catalysed by iron clusters. 2016 , 8, 15079-85	1
794	The healing of B- or N-vacancy defective BNNTs by using CO molecule: a DFT study. 2016 , 40, 8024-8031	7
793	Charge transfer and negative curvature energy in magnesium boride nanotubes. 2016 , 94,	2
792	Direct growth by arc discharge and computational study of zinc sulfide nanotubes. 2016 , 51, 9716-9722	1
791	A computational study on the surface modification of BN nanocluster by para-substituted styrene. 2016 , 1091, 72-77	3
790	Magnetic resonance and magnetic susceptibility study of vanadium oxide/decylamine nanotubes. 2016 , 3, 115019	
789	Sequestration and Activation of Small Gas Molecules on BN-Flakes and the Effect of Various Metal Oxide Molecules therein. 2016 , 120, 27782-27799	6
788	Static flexural modes and piezoelectricity in 2D and layered crystals. 2016 , 253, 2311-2315	4
787	Introduction to boron nitride nanotubes: synthesis, properties, functionalization, and cutting. 2016 , 1-15	0
786	Removal of nitrate ion from water using boron nitride nanotubes: Insights from molecular dynamics simulations. 2016 , 1098, 56-62	13

- 785 Exfoliation of Boron Nitride Platelets by Enhanced Interfacial Interaction with Polyethylene. **2016**, 301, 315-327 22
- 784 NH₃ and NO₂ adsorption analysis of GaN nanotube: A first principle investigation. **2016**, 775, 243-250 12
- 783 Molecular dynamics simulation of transport of water/DMSO and water/acetone mixtures through boron nitride nanotube. **2016**, 425, 230-236 15
- 782 Boron nitride nanotubes enhance properties of chitosan-based scaffolds. **2016**, 151, 313-320 19
- 781 Copper boosts the electronic sensitivity of a C₃N nanotube toward H₂S gas: Quantum chemical analysis. **2016**, 220, 687-692 12
- 780 Thermally Conductive Electrically Insulating Polymer Nanocomposites. **2016**, 281-321 3
- 779 A theoretical study of nanostructure membranes for separating Li⁺ and Mg²⁺ from Cl⁻ **2016**, 113, 66-74 8
- 778 Detailed surface study of adsorbed nickel on Al₁₂N₁₂ nano-cage. **2016**, 612, 179-185 49
- 777 In-plane graphene/boron-nitride heterostructures as an efficient metal-free electrocatalyst for the oxygen reduction reaction. **2016**, 8, 14084-91 36
- 776 Pectin-coated boron nitride nanotubes: In vitro cyto-/immune-compatibility on RAW 264.7 macrophages. **2016**, 1860, 775-84 25
- 775 Stability characteristics and structural properties of single- and double-walled boron-nitride nanotubes under physical adsorption of Flavin mononucleotide (FMN) in aqueous environment using molecular dynamics simulations. **2016**, 366, 233-244 22
- 774 Interaction of Al, Ti, and Cu Atoms with Boron Nitride Nanotubes: A Computational Investigation. **2016**, 120, 3509-3518 9
- 773 Atomistic modeling of BN nanofillers for mechanical and thermal properties: a review. **2016**, 8, 22-49 61
- 772 Effects of C₁B-doping on electronic and structural properties of Stone-Wales defective boron nitride nanotubes as well as their NO gas sensitivity. **2016**, 6, 11353-11369 5
- 771 Lithium absorption on single-walled boron nitride, aluminum nitride, silicon carbide and carbon nanotubes: A first-principles study. **2016**, 90, 27-34 12
- 770 Preparation of hexagonal BN whiskers synthesized at low temperature and their application in fabricating an electrochemical nitrite sensor. **2016**, 6, 27767-27774 16
- 769 Trimethylamine Borane: A New Single-Source Precursor for Monolayer h-BN Single Crystals and h-BCN Thin Films. **2016**, 28, 2180-2190 52
- 768 In situ growth behavior of boron nitride nanotubes on the surface of silicon carbide fibers as hierarchical reinforcements. **2016**, 6, 14112-14119 8

767	First principles many-body calculations of electronic structure and optical properties of SiC nanoribbons. 2016 , 49, 105306	39
766	Molecular Simulation Study of Gas Solubility and Diffusion in a Polymer-Boron Nitride Nanotube Composite. 2016 , 120, 1273-84	13
765	The structure evolution process and the electronic properties of armchair boron nitride nanotubes. 2016 , 92, 198-209	9
764	Aluminum borate nanowires from the pyrolysis of polyaminoborane precursors. 2016 , 45, 1055-62	21
763	Optimised cut-off function for Tersoff-like potentials for a BN nanosheet: a molecular dynamics study. 2016 , 27, 085706	44
762	Thermodynamic approach to boron nitride nanotube solubility and dispersion. 2016 , 8, 4348-59	36
761	Development of high thermal conductivity via BNNTs/epoxy/organic-Si hybrid composite systems. 2016 , 27, 5217-5224	9
760	Facile preparation of homogeneous and length controllable halloysite nanotubes by ultrasonic scission and uniform viscosity centrifugation. 2016 , 291, 20-29	39
759	NBO, AIM, and TD-DFT assisted screening of BNNT optimum diameter on ethyl phosphorodimethylamidocyanidate sensor design. 2016 , 191, 1013-1021	5
758	Investigation and characterization of ZnO single crystal microtubes. 2016 , 114, 97-102	7
757	Porous hexagonal boron nitride whiskers fabricated at low temperature for effective removal of organic pollutants from water. 2016 , 42, 8754-8762	42
756	Defects and Deformation of Boron Nitride Nanotubes Studied by Joint Nanoscale Mechanical and Infrared Near-Field Microscopy. 2016 , 120, 1945-1951	19
755	Near-Field Infrared Pump-Probe Imaging of Surface Phonon Coupling in Boron Nitride Nanotubes. 2016 , 7, 289-94	19
754	Water-dispersed thermo-responsive boron nitride nanotubes: synthesis and properties. 2016 , 27, 035703	29
753	A Universal Wet-Chemistry Route to Metal Filling of Boron Nitride Nanotubes. 2016 , 16, 320-5	16
752	Accurate prediction of hydrogen storage capacity of small boron nitride nanocages by dispersion corrected semi-empirical PM6-DH2 method. 2016 , 41, 392-400	10
751	Effects of hydrogen adsorption on the properties of double wall BN and (BN) _x C _y nanotubes. 2016 , 233, 352-362	1
750	Physicochemical properties of armchair non-stoichiometric boron nitride nanotubes: A density functional theory analysis. 2016 , 89, 319-328	22

749	CVD growth of 1D and 2D sp ² carbon nanomaterials. 2016 , 51, 640-667	59
748	Nonlocal vibration and stability of a multiple-nanobeam system coupled by the Winkler elastic medium. 2016 , 40, 1599-1614	30
747	Functionalization of single-walled (n,0) carbon and boron nitride nanotubes by carbonyl derivatives (n = 5, 6): a DFT study. 2016 , 94, 105-111	6
746	Adsorption of SO ₂ molecule on doped (8, 0) boron nitride nanotube: A first-principles study. 2016 , 76, 47-51	25
745	On the Mechanical Properties of WS ₂ and MoS ₂ Nanotubes and Fullerene-Like Nanoparticles: In Situ Electron Microscopy Measurements. 2016 , 68, 151-167	28
744	Properties of armchair ZnTe nanotubes: A density functional study. 2016 , 112, 1-7	2
743	A unit-cell-based three-dimensional molecular mechanics analysis for buckling load, effective elasticity and Poisson's ratio determination of the nanosheets. 2016 , 42, 353-369	8
742	DFT calculations on the catalytic oxidation of CO over Si-doped (6,0) boron nitride nanotubes. 2016 , 27, 595-604	24
741	Nanodelivery systems for enhancing the immunostimulatory effect of CpG oligodeoxynucleotides. 2017 , 70, 935-946	42
740	Plasma treated water Δ promising electrolyte to produce nanoporous titanium dioxide nanotubes. 2017 , 14, 1600219	
739	Modeling of Nanostructures. 2017 , 1459-1513	
738	Facile Synthesis of Highly Crystalline and Large Areal Hexagonal Boron Nitride from Borazine Oligomers. 2017 , 7, 40260	5
737	Amino Acid Analogue-Conjugated BN Nanomaterials in a Solvated Phase: First Principles Study of Topology-Dependent Interactions with a Monolayer and a (5,0) Nanotube. 2017 , 2, 76-83	10
736	N ₂ O + SO ₂ reaction over Si- and C-doped boron nitride nanotubes: A comparative DFT study. 2017 , 403, 43-50	21
735	Blocking effect of benzene-like fluid transport in nanoscale block-pores. 2017 , 43, 526-533	5
734	Boron monoxide dimer as a building block for boroxine based buckyballs and related cages: a theoretical study. 2017 , 53, 3239-3241	5
733	Synthesis of boron nitride nanotubes by catalytic pyrolysis of organic-inorganic hybrid precursor. 2017 , 43, 5145-5149	9
732	Separation of cyanide from an aqueous solution using armchair silicon carbide nanotubes: insights from molecular dynamics simulations. 2017 , 7, 7502-7508	2

731	Synthesis of boron nitride nanostructures from catalyst of iron compounds via thermal chemical vapor deposition technique. 2017 , 89, 177-182	12
730	Potential of Si-doped boron nitride nanotubes as a highly active and metal-free electrocatalyst for oxygen reduction reaction: A DFT study. 2017 , 226, 129-138	10
729	Phase transformation in two-dimensional crystalline silica under compressive loading. 2017 , 19, 8478-8484	3
728	Polarity control of h-BN nanoribbon edges by strain and edge termination. 2017 , 19, 9113-9117	7
727	Mid-infrared optical properties of pyrolytic boron nitride in the 390–1050 °C temperature range using spectral emissivity measurements. 2017 , 194, 1-6	4
726	Control of Nanoplane Orientation in voBN for High Thermal Anisotropy in a Dielectric Thin Film: A New Solution for Thermal Hotspot Mitigation in Electronics. 2017 , 9, 7456-7464	9
725	Inorganic Nanotubes and Fullerene-Like Nanoparticles at the Crossroad between Materials Science and Nanotechnology and Their Applications with Regard to Sustainability. 2017 , 745-780	1
724	The noble gases adsorption on boron-rich boron nitride nanotubes: A theoretical investigation. 2017 , 107, 97-103	6
723	Exploring electronic properties and NO gas sensitivity of Si-doped SW-BNNTs under axial tensile strain. 2017 , 52, 9739-9763	4
722	Transport Properties of Hydrogenated Cubic Boron Nitride Nanofilms with Gold Electrodes from Density Functional Theory. 2017 , 2, 1696-1701	3
721	Electronic properties modifications of single-wall boron nitride with lithium atom intercalation. 2017 , 23, 175	
720	Thin-Wall GaN/InAlN Multiple Quantum Well Tubes. 2017 , 17, 3347-3355	9
719	Pressure-induced boron nitride nanotube derivatives: 3D metastable allotropes. 2017 , 121, 165106	14
718	Tunable structural and electrical properties of zigzag CdS nanotubes: A density functional study. 2017 , 254, 1700038	5
717	Computational investigation and comparison of hydrogen storage properties of B ₂₄ N ₂₄ and Al ₂₄ N ₂₄ nanocages. 2017 , 42, 14166-14180	4
716	Breakdown of the Stokes-Einstein water transport through narrow hydrophobic nanotubes. 2017 , 19, 12921-12927	31
715	Molecular dynamics simulation of salt rejection through silicon carbide nanotubes as a nanostructure membrane. <i>Journal of Molecular Graphics and Modelling</i> , 2017 , 71, 176-183	2.8 22
714	Stable synthesis of few-layered boron nitride nanotubes by anodic arc discharge. 2017 , 7, 3075	32

713	Multi-walled boron nitride nanotubes as self-excited launchers. 2017 , 9, 10358-10366	1
712	Number of Wavevectors for Each Frequency in a Periodic Structure. 2017 , 139,	1
711	Delivery of Cisplatin Anti-Cancer Drug from Carbon, Boron Nitride, and Silicon Carbide Nanotubes Forced by Ag-Nanowire: A Comprehensive Molecular Dynamics Study. 2017 , 14, 2273-2284	23
710	Can boron antisites of BNNTs be an efficient metal-free catalyst for nitrogen fixation? - A DFT investigation. 2017 , 19, 15377-15387	53
709	Few-atomic-layered hexagonal boron nitride: CVD growth, characterization, and applications. 2017 , 20, 611-628	66
708	First-principles study on atomistic and electronic structures of boron-nitrogen and boron-phosphorous nanoribbons, nanorings, and nanotubes. 2017 , 56, 065001	3
707	A comparative DFT study on the interaction of cathinone drug with BN nanotubes, nanocages, and nanosheets. 2017 , 422, 763-768	61
706	Superior interfacial mechanical properties of boron nitride-carbon nanotube reinforced nanocomposites: A molecular dynamics study. 2017 , 198, 250-257	7
705	Short Pulse Laser Synthesis of Transition-Metal Dichalcogenide Nanostructures under Ambient Conditions. 2017 , 2, 2649-2656	8
704	Enhanced photocatalytic activity and chemical sensor development based on ternary B ₂ O ₃ /Zn ₆ Al ₂ O ₉ /ZnO nanomaterials for environmental safety. 2017 , 41, 7220-7231	16
703	Ga-doped and antisite double defects enhance the sensitivity of boron nitride nanotubes towards Soman and Chlorosoman. 2017 , 411, 1-10	39
702	Ultralong hydroxyapatite microtubes: solvothermal synthesis and application in drug loading and sustained drug release. 2017 , 19, 1965-1973	17
701	Fracture toughness enhancement of h-BN monolayers via hydrogen passivation of a crack edge. 2017 , 28, 165702	21
700	Piezoelectricity in two-dimensional materials: Comparative study between lattice dynamics and ab initio calculations. 2017 , 95,	25
699	Evaluation of boron nitride nanotubes and hexagonal boron nitrides as nanocarriers for cancer drugs. 2017 , 12, 797-810	37
698	Scalable manufacturing of boron nitride nanotubes and their assemblies: a review. 2017 , 32, 013003	41
697	Thermal stability of UV light emitting boron nitride nanowalls. 2017 , 117, 239-247	7
696	Reactive wetting and filling of boron nitride nanotubes by molten aluminum during equilibrium solidification. 2017 , 126, 124-131	33

695	Glass fabrics self-cracking catalytic growth of boron nitride nanotubes. 2017 , 64, 23-28	6
694	Electronic transport properties of carbon and boron nitride chain heterojunctions. 2017 , 5, 1165-1178	15
693	The effect of structural curvature on the cell voltage of BN nanotube based Na-ion batteries. 2017 , 229, 167-171	44
692	Bimetallic catalytic growth of boron nitride nanotubes. 2017 , 9, 1816-1819	21
691	Stone-Wales defects in graphene-like boron nitride-carbon heterostructures: Formation energies, structural properties, and reactivity. 2017 , 128, 243-248	20
690	The bond force constants and elastic properties of boron nitride nanosheets and nanoribbons using a hierarchical modeling approach. 2017 , 89, 183-193	6
689	Studying the effects of the configuration of doped Al atoms on the conductive properties of boron nitride nanotube using density functional theory. 2017 , 669, 29-37	5
688	Attachment of Colloidal Nanoparticles to Boron Nitride Nanotubes. 2017 , 29, 726-734	10
687	Boron nitride nanotubes grown on stainless steel from a mixture of diboron trioxide and boron. 2017 , 687, 307-311	14
686	Catalytic CVD synthesis of boron nitride and carbon nanomaterials - synergies between experiment and theory. 2017 , 19, 26466-26494	22
685	Assessment of exposure to airborne carbon nanotubes by laser-induced breakdown spectroscopy analysis of filter samples. 2017 , 32, 1868-1877	5
684	First principles study of electronic and structural properties of single walled zigzag boron nitride nanotubes doped with the elements of group IV. 2017 , 267, 1-5	14
683	Porous graphene and graphenylene nanotubes: Electronic structure and strain effects. 2017 , 140, 344-355	5
682	Free vibration analysis of single-walled boron nitride nanotubes based on a computational mechanics framework. 2017 , 112, 230-248	6
681	Thermal transport through Zn ₃ P ₂ nanowire-BN microparticle/nanoparticle composites and hybrids. 2017 , 4, 075041	1
680	A comparative theoretical study on the electrical and nonlinear optical properties of Li atom adsorbed on AlN and BN single-walled nanotubes. 2017 , 23, 286	8
679	Quantitative Characterization of Structural and Mechanical Properties of Boron Nitride Nanotubes in High Temperature Environments. 2017 , 7, 11388	31
678	Dislocation assisted crack healing in h-BN nanosheets. 2017 , 19, 21739-21747	15

- 677 Electronic and optical properties of graphyne nanotubes and their BN analogues. **2017**, 52, 13133-13148 4
- 676 Novel 3D metallic boron nitride containing only sp² bonds. **2017**, 50, 385302 7
- 675 Simulation and observation of line-slip structures in columnar structures of soft spheres. **2017**, 96, 012610 4
- 674 Ultrafast structural dynamics of boron nitride nanotubes studied using transmitted electrons. **2017**, 9, 13313-13319 3
- 673 Progress in preparation, properties and application of boron nitride nanomaterials. **2017**, 4
- 672 A DFT study on the healing of N-vacancy defects in boron nitride nanosheets and nanotubes by a methylene molecule. **2017**, 117, e25450 4
- 671 The electronic response of pristine, Al and Si doped BC₂N nanotubes to a cathinone molecule: Computational study. **2017**, 111, 238-244 6
- 670 Influence of axial tensile strain on the electronic and structural properties as well as NO gas sensitivity and reactivity of C-doped SW-BNNTs. **2017**, 665, 62-82 2
- 669 Smallest Archimedean Screw: Facet Dynamics and Friction in Multiwalled Nanotubes. **2017**, 17, 5321-5328 11
- 668 The prediction of a family group of two-dimensional node-line semimetals. **2017**, 9, 13112-13118 43
- 667 Non-covalent green functionalization of boron nitride nanotubes with tunable aryl alkyl ionic liquids: A quantum chemical approach. **2017**, 243, 22-40 8
- 666 All-nanotube stretchable supercapacitor with low equivalent series resistance. **2017**, 7, 17449 30
- 665 Encapsulation of cellulose chain into carbon nanotubes and boron nitride nanotubes. **2017**, 25, 646-651 7
- 664 Quantum Light in Curved Low Dimensional Hexagonal Boron Nitride Systems. **2017**, 7, 14758 21
- 663 Dissolution and Characterization of Boron Nitride Nanotubes in Superacid. **2017**, 33, 14340-14346 17
- 662 Origin of polymorphism of the two-dimensional group-IV monochalcogenides. **2017**, 96, 16
- 661 Can HCCH/HBNH Break B?N/C?C Bonds of Single-Wall BN/Carbon Nanotubes at Their Surface?. **2017**, 121, 26044-26053
- 660 Novel doping alternatives for single-layer transition metal dichalcogenides. **2017**, 122, 185102 39

659	Resonant X-ray Emission of Hexagonal Boron Nitride. 2017 , 96,	4
658	First principles study on the electronic properties of BN nanowires. 2017 , 4, 11644-11648	1
657	Nanomaterials for photocatalytic hydrogen production: from theoretical perspectives. 2017 , 7, 34875-34885	34
656	First-principles study of CO catalytic oxidation on Pd-doped single wall boron nitride nanotube. 2017 , 1115, 37-44	15
655	Boron nitride nanotube (BNNT) as a sensor of hydroperoxyl radical (HO ₂): A DFT study. 2017 , 14, 471-476	23
654	The stability and electronic structures of Si/O/Al/P atom doped (5,0)boron nitrogen nanotubes with Stone-Wales defects: Density functional theory studies. 2017 , 87, 112-117	1
653	A comparison between the mechanical and thermal properties of single-walled carbon nanotubes and boron nitride nanotubes. 2017 , 85, 137-142	26
652	Recent Advances in the Study of Phosphorene and its Nanostructures. 2017 , 42, 1-82	113
651	Conductive multi-walled boron nitride nanotubes by catalytic etching using cobalt oxide. 2017 , 19, 976-985	3
650	Flow and structure of fluids in functionalized nanopores. 2017 , 467, 137-147	11
649	In silico insight into ammonia adsorption on pristine and X-doped phosphorene (X = B, C, N, O, Si, and Ni). 2017 , 396, 1411-1419	19
648	Finite element investigation of the vibrational behavior of concentric multi-walled boron nitride and carbon nanotubes. 2017 , 31, 1750018	6
647	Molecular dynamics simulations of removal of cyanide from aqueous solution using boron nitride nanotubes. 2017 , 128, 8-14	11
646	Theoretical prediction of some novel nanotubes composed of macrocyclic structures: A DFT study. 2017 , 667, 327-331	6
645	Review Hexagonal Boron Nitride Epilayers: Growth, Optical Properties and Device Applications. 2017 , 6, Q3012-Q3021	46
644	Review of recent studies on interactions between polymers and nanotubes using molecular dynamic simulation. 2017 , 14, 269-283	13
643	Stability and electronic properties of armchair boron nitride/carbon nanotubes. 2017 , 25, 716-725	48
642	Investigation of the Boron Particles Behavior in ICP/RF Plasma. 2017 , 45, 3105-3109	5

641	Calculation of the octanol/water partition coefficient of armchair polyhex BN nanotubes. 2017 , 91, 2421-2424	
640	Ethyl benzene detection by BN nanotube: DFT studies. 2017 , 21, S12-S16	11
639	A First-Principles Investigation of Boron Nitride Nanotube (BNNT) in Gas Sensing Application. 2017 ,	0
638	Pnma-BN: Another Boron Nitride Polymorph with Interesting Physical Properties. 2016 , 7,	33
637	Hydrothermal Synthesis, Characterization and Raman Vibrations of Chalcogenide SnS Nanorods. 2017 , 275, 012007	7
636	Corrected Article: Simulation and observation of line-slip structures in columnar structures of soft spheres [Phys. Rev. E 96, 012610 (2017)]. 2017 , 97, 059902	7
635	Molecular dynamics study on radial deformation of armchair single-walled boron nitride nanotubes. 2017 , 10, 105001	4
634	In situ controlled rapid growth of novel high activity TiB/(TiB-TiN) hierarchical/heterostructured nanocomposites. 2017 , 8, 2116-2125	2
633	First-Principles study of Elastic properties, Hardness and Debye temperature of O-BN under pressures. 2017 , 94, 012177	
632	Catalytic synthesis of boron nitride nanotubes at low temperatures. 2018 , 10, 4658-4662	7
631	Molecular investigation of gas adsorption, separation, and transport on carbon nanoscrolls: A combined grand canonical Monte Carlo and molecular dynamics study. 2018 , 132, 401-410	6
630	Ammonium-tungstate-promoted growth of boron nitride nanotubes. 2018 , 29, 195604	10
629	The role of healed N-vacancy defective BC ₂ N sheet and nanotube by NO molecule in oxidation of NO and CO gas molecules. 2018 , 672-673, 39-46	1
628	Diboryne Nanostructures Stabilized by Multitopic N-Heterocyclic Carbenes: A Computational Study. 2018 , 57, 3931-3940	8
627	Recent advances in 1D micro- and nanoscale indium oxide structures. 2018 , 752, 359-375	15
626	Investigation of the electronic structure of tetragonal B ₃ N ₃ under pressure. 2018 , 124, 1	1
625	Adsorption of cyanogen chloride on the surface of boron nitride nanotubes for CNCl sensing. 2018 , 700, 7-14	25
624	The electron properties of infinite length single-walled silicon nanotubes are studied by density functional theory. 2018 , 123, 20-29	5

- 623 The electron properties of infinite length single-walled silicon nanotubes are studied by density functional theory. **2018**, 123, 88-93
- 622 Electromechanical properties of Boron Nitride Nanotube: Atomistic bond potential and equivalent mechanical energy approach. **2018**, 149, 460-465 12
- 621 Tribological characteristics of boron nitride nanosheets on silicon wafers obtained by the reaction of MgB₂ and NH₃. **2018**, 340, 36-44 8
- 620 Prediction of the electron redundant SinNn fullerenes. **2018**, 99, 208-214 3
- 619 Four-Wave-Mixing Approach to In Situ Detection of Nanoparticles. **2018**, 9, 11
- 618 Sensing properties of pristine boron nitride nanostructures towards alkaloids: A first principles dispersion corrected study. **2018**, 441, 588-598 14
- 617 Synthesized few-layers hexagonal boron nitride nanosheets. **2018**, 27, 016102 3
- 616 In- and out-of-plane longitudinal acoustic-wave velocities and elastic moduli in h-BN from Brillouin scattering measurements. **2018**, 112, 051905 11
- 615 Adsorption of HCN molecules on Ni, Pd and Pt-doped (7, 0) boron nitride nanotube: a DFT study. **2018**, 116, 1320-1327 9
- 614 Interaction of Cyano-4-hydroxycinnamic Acid Drug with Inorganic BN Nanocluster: A Density Functional Study. **2018**, 28, 1422-1431 9
- 613 Critical conditions for escape of a high-speed fullerene from a BNC nanobeam after collision. **2018**, 8, 913 10
- 612 Extraction of Boron Nitride Nanotubes and Fabrication of Macroscopic Articles Using Chlorosulfonic Acid. **2018**, 18, 1615-1619 16
- 611 Role of Hydrogen in High-Yield Growth of Boron Nitride Nanotubes at Atmospheric Pressure by Induction Thermal Plasma. **2018**, 12, 884-893 47
- 610 Highly Efficient Growth of Boron Nitride Nanotubes and the Thermal Conductivity of Their Polymer Composites. **2018**, 122, 1867-1873 27
- 609 Exploring Chemical Space with Alchemical Derivatives: BN-Simultaneous Substitution Patterns in C. **2018**, 14, 1154-1168 25
- 608 Direct observation of the lowest indirect exciton state in the bulk of hexagonal boron nitride. **2018**, 97, 27
- 607 Impermeability of boron nitride defect-sensitive monolayer with atomic-oxygen-healing ability. **2018**, 44, 13888-13893 6
- 606 Synthesis of boron nitride nanotubes by combining citrate-nitrate combustion reaction and catalytic chemical vapor deposition. **2018**, 44, 13959-13966 6

605	Interaction of Boron Nitride Nanotubes with Aluminium: A Computational Study. 2018 , 122, 15226-15240	2
604	DFT Study of PH ₃ Physisorption and Chemisorptions on Boron Nitride Nanotubes. 2018 , 92, 540-546	4
603	Electronic Properties of Cr and Mn Doped BN Nanowires. 2018 , 916, 69-73	
602	Simulations of the synthesis of boron-nitride nanostructures in a hot, high pressure gas volume. 2018 , 9, 3803-3819	23
601	Effect of 10B isotope and vacancy defects on the phonon modes of two-dimensional hexagonal boron nitride. 2018 , 57, 02CB04	3
600	Effect of Explosion on Materials. 2018 , 1-152	
599	Defective boron nitride nanotubes: mechanical properties, electronic structures and failure behaviors. 2018 , 51, 125303	8
598	Piezoelectric effect on the thermal conductivity of monolayer gallium nitride. 2018 , 123, 035102	7
597	Progress in CVD synthesis of layered hexagonal boron nitride with tunable properties and their applications. 2018 , 63, 162-203	25
596	Force constants of BN, SiC, AlN and GaN sheets through discrete homogenization. 2018 , 53, 593-611	14
595	Theoretical study of porous surfaces derived from graphene and boron nitride. 2018 , 258, 247-255	17
594	Hard three-dimensional BN framework with one-dimensional metallicity. 2018 , 731, 364-368	19
593	Surface modification of hexagonal boron nitride nanomaterials: a review. 2018 , 53, 66-99	119
592	Magnesium diboride (MgB ₂): An effective and novel precursor for the synthesis of vertically aligned BNNTs. 2018 , 98, 235-239	8
591	Structural and electronic properties of double-walled boron nitride nanocones. 2018 , 95, 125-131	6
590	Organic polymer-based monolithic stationary phases with incorporated nanostructured materials for HPLC and CEC. 2018 , 39, 53-66	18
589	The interaction of phosgene gas with different BN nanocones: DFT studies. 2018 , 269, 23-27	38
588	A DFT study for adsorption of CO on Ni, Pd and Pt atoms doped (7, 0) boron nitride nanotube. 2018 , 116, 204-211	8

587	Mapping the layer count of few-layer hexagonal boron nitride at high lateral spatial resolutions. 2018 , 5, 015007	8
586	Theoretical study of the structural and electronic properties of novel stanene-based buckled nanotubes and their adsorption behaviors. 2018 , 435, 733-742	14
585	The ClCN adsorption on the pristine and Al-doped boron nitride nanosheet, nanocage, and nanocone: Density functional studies. 2018 , 645, 363-369	15
584	Efficient sensitive polymer-grafted boron nitride nanotubes by microwave-assisted process. 2018 , 15, 186-196	12
583	Samarium doped boron nitride nanotubes. 2018 , 131, 30-35	14
582	Electronic structure of octagonal boron nitride nanotubes. 2018 , 118, e25542	1
581	Chloropicrin sensor based on the pristine BN nanocones: DFT studies. 2018 , 29, 585-592	9
580	Research on BNNTs/Epoxy/Silicone Ternary Composite Systems for High Thermal Conductivity. 2018 , 381, 012076	2
579	Strain Tunable Bandgap and High Carrier Mobility in SiAs and SiAs Monolayers from First-Principles Studies. 2018 , 13, 404	11
578	Hydrogen Storage in All-Metal and Nonmetal Aromatic Clusters. 2018 , 329-362	
577	Phase transformation in two-dimensional covalent organic frameworks under compressive loading. 2018 , 20, 29462-29471	7
576	Engineering the carrier dynamics of g-CN by rolling up planar sheets into nanotubes via ultrasonic cavitation. 2018 , 10, 22448-22455	6
575	Imogolite Nanotubes: A Flexible Nanoplatfrom with Multipurpose Applications. 2018 , 8, 1921	28
574	First Principle Study on Optical Properties of Tri-Group Doped (6,6) SiC Nanotubes. 2018 , 35, 117801	5
573	Creation of Boron Nitride Nanotubes and Possibility for a Series of Advanced Nanocomposite Materials. 2018 , 751-758	
572	Energetics and Electronic Structure of Triangular Hexagonal Boron Nitride Nanoflakes. 2018 , 8, 16657	19
571	Complex band structure calculations based on the overbridging boundary matching method without using Green's functions. 2018 , 98,	2
570	Electronic Structure of Doped Boron Nitride Nanotubes as Potential Catalysts of Photochemical Water Splitting. 2018 , 63, 1204-1210	2

569	Stability of Halloysite, Imogolite, and Boron Nitride Nanotubes in Solvent Media. 2018 , 8, 1068	28
568	Elastic moduli of boron nitride nanotubes based on finite element method. 2018 , 13, 351-363	0
567	First principles study of structural and electronic properties of BNNTs. 2018 , 17, 1441-1449	8
566	Boron Nitride Nucleation Mechanism during Chemical Vapor Deposition. 2018 , 122, 24341-24349	13
565	Atomistic Simulation of Mechanical Properties of Au ₃₂ Cluster Peapod Structures: Molecular Dynamics and Density Functional Theory. 2018 , 144, 04018110	1
564	NBO, AIM, HOMO/LUMO and thermodynamic investigation of the nitrate ion adsorption on the surface of pristine, Al and Ga doped BNNTs: A DFT study. 2018 , 24, 757-767	9
563	Dependence of electronic structures of multi-walled boron nitride nanotubes on layer numbers. 2018 , 72, 1	1
562	Investigation on mechanical performances of grain boundaries in hexagonal boron nitride sheets. 2018 , 149, 262-272	12
561	A review on the mechanics of nanostructures. 2018 , 133, 231-263	135
560	Strong two-dimensional plasmon in Li-intercalated hexagonal boron-nitride film with low damping. 2018 , 2,	13
559	Boron nitride nanotubes: synthesis and applications. 2018 , 5, 17	70
558	Fabrication, Characterization and Potential Applications of Boron Nitride Nanofibers. 2018 , 105-129	
557	Multiwall MoS ₂ tubes as optical resonators. 2018 , 113, 101106	23
556	Root-growth of boron nitride nanotubes: experiments and ab initio simulations. 2018 , 10, 22223-22230	14
555	Analysis the electronic properties of the zigzag and armchair single wall boron nitride nanotubes with single Li impurity in the various sites. 2018 , 228, 20-24	4
554	A computational study on interactions of Ni- and Pt-doped boron nitride nano tubes with NH ₃ in presence and absence of electric fields. 2018 , 1136-1137, 1-9	11
553	Compression-Induced Modification of Boron Nitride Layers: A Conductive Two-Dimensional BN Compound. 2018 , 12, 5866-5872	14
552	Effect of geometrical defects and functionalization on the interfacial strength of h-BN/polyethylene based nanocomposite. 2018 , 146, 82-90	20

551	Dopamine and Caffeine Encapsulation within Boron Nitride (14,0) Nanotubes: Classical Molecular Dynamics and First Principles Calculations. 2018 , 122, 5885-5896	10
550	Tuning the Optical Properties of Zinc Sulfide Nanotube. 2018 , 17, 807-813	3
549	The stability, electronic structure, and optical absorption of boron-nitride diamondoids predicted with first-principles calculations. 2018 , 20, 19188-19194	3
548	Antigenotoxic potential of boron nitride nanotubes. 2018 , 12, 868-884	10
547	A New Single-Source Precursor for Monolayer h-BN and h-BCN Thin Films. 2018 , 99-115	
546	Chemical Vapor Deposition Growth and Characterization of Two-Dimensional Hexagonal Boron Nitride. 2018 ,	1
545	Three-dimensional hexagonal boron nitride foam containing both sp ² and sp ³ hybridized bonds. 2018 , 217, 5-10	3
544	Theoretical study of boron nitride nanotubes as drug delivery vehicles of some anticancer drugs. 2018 , 137, 1	22
543	Growth of boron nitride nanotubes from magnesium diboride catalysts. 2018 , 10, 13895-13901	18
542	Molecular dynamics study on the mechanical properties of carbon doped single-layer polycrystalline boron-nitride nanosheets. 2018 , 153, 16-27	16
541	Stable emission and fast optical modulation of quantum emitters in boron nitride nanotubes. 2018 , 43, 3778-3781	8
540	A (TB) phase diagram for the adsorption/desorption of carbon dioxide and hydrogen in a Cu(II)-MOF. 2018 , 153, 254-260	4
539	pH-responsive charge-reversal polymer-functionalized boron nitride nanospheres for intracellular doxorubicin delivery. 2018 , 13, 641-652	32
538	Future Dielectric Materials for CNT Interconnects - Possibilities and Challenges. 2018 , 52, 21-42	7
537	Two-Dimensional CaNbO Perovskite Nanosheets for Electron Injection Layers in Organic Light-Emitting Devices. 2018 , 10, 27885-27893	12
536	The Activation of Methane on Ru, Rh, and Pd Decorated Carbon Nanotube and Boron Nitride Nanotube: A DFT Study. 2018 , 8, 190	9
535	Structure and Raman Spectra of C ₆₀ and C ₇₀ Fullerenes Encased into Single-Walled Boron Nitride Nanotubes: A Theoretical Study. 2018 , 8, 118	4
534	Smart Inorganic Nanoparticles for Wireless Cell Stimulation. 2018 , 189-198	

533	Alignment of Boron Nitride Nanofibers in Epoxy Composite Films for Thermal Conductivity and Dielectric Breakdown Strength Improvement. 2018 , 8,	38
532	Ab initio study of adsorption of CO on BNNTs: For gas nanosensor applications. 2018 , 215, 360-367	15
531	Bimetallic Nanoplates and Nanosheets. 2018 , 293-313	
530	Ab initio investigation of structure, stability, thermal behavior and infrared spectra of (BN) ₄ cluster. 2018 , 1141, 1-6	4
529	Flexural strength analysis of boron nitride nanotubes. 2018 ,	
528	Thermal conductive composites reinforced via advanced boron nitride nanomaterials. 2018 , 10, 103-109	35
527	Ammonothermal synthesis of rhombohedral boron nitride. 2018 , 232, 110-112	2
526	Nanotubes from misfit layered compounds. 2018 , 71, 1669-1678	3
525	First-principle study of ammonia molecules adsorption on boron nitride nanotubes in presence and absence of static electric field and ion field. 2018 , 155, 456-464	18
524	XH ₃ (X=P or N) Adsorption on Pristine, Pt-Doped and Vacancy-Defective (8,8) Boron Nitride Nanotubes: DFT Calculations. 2019 , 233, 431-447	3
523	Magnetic and structural properties of BNC nanotubes. 2019 , 117, 260-266	3
522	The mechanical properties and structural instability of single- and double-walled boron-nitride nanotubes functionalized with 2-methoxy-N,N-dimethylethanamine (MDE) using molecular dynamics simulations. 2019 , 73, 1	6
521	Theoretical insight into a feasible strategy of capturing, storing and releasing toxic HCN at the surface of doped BN-sheets by charge modulation. 2019 , 496, 143714	8
520	Boron Nitride Nanotube Nucleation via Network Fusion during Catalytic Chemical Vapor Deposition. 2019 , 141, 13385-13393	12
519	Boron nitride nanotubes reinforced polycarbonate nanocomposites. 2019 , 20, 100586	5
518	Predicting the structural, electronic and mechanical properties of three-dimensional boron nitride foam containing sp, sp ² and sp ³ hybridized bonds. 2019 , 1213, 042022	
517	Theoretical Predictions of the Interfacial Stress Transfer in Nanotube-Reinforced Polymer Nanocomposites by Using a Strain-Hardening Shear-Lag Model. 2019 , 1, 236-246	4
516	Role of Chemical Doping in Large Deformation Behavior of Spiral Carbon-Based Nanostructures: Unraveling Geometry-Dependent Chemical Doping Effects. 2019 , 123, 19208-19219	9

515	Molecular Dynamics Simulation of Paracetamol Drug Adsorption on Boron Nitride Nanotube: Effects of Temperature, Nanotube Length, Diameter, and Chirality. 2019 , 4, 7866-7873	5
514	Intrinsic and Defect-Related Elastic Moduli of Boron Nitride Nanotubes As Revealed by Transmission Electron Microscopy. 2019 , 19, 4974-4980	3
513	Surface Modification and Functionalization of Boron Nitride Nanotubes via Condensation with Saturated and Unsaturated Alcohols for High Performance Polymer Composites. 2019 , 2, 4053-4060	6
512	Atomistic simulations to study the effect of water molecules on the mechanical behavior of functionalized and non-functionalized boron nitride nanosheets. 2019 , 169, 109092	18
511	Investigation on mechanical and electronic properties of graphene-doped boron nitride nanotubes. 2019 , 6, 1150c5	2
510	Blue-light-emitting color centers in high-quality hexagonal boron nitride. 2019 , 100,	14
509	Single-Walled boron nitride nanotubes interaction with nickel, titanium, palladium, and gold metal atoms- A first-principles study. 2019 , 2, 100029	5
508	High-Purity Boron Nitride Nanotubes via High-Yield Hydrocarbon Solvent Processing. 2019 , 31, 8351-8357	10
507	Dual growth mode of boron nitride nanotubes in high temperature pressure laser ablation. 2019 , 9, 15674	13
506	Nanoelectronic Application of Graphyne and Its Structural Derivatives. 2019 , 151-176	
505	Boron Nitride Nanotube Nucleation during Ni-Catalyzed Boron Oxide Chemical Vapor Deposition. 2019 , 123, 27875-27883	5
504	Characterization of the structural instability of B _x C _y N _z heteronanotubes via molecular dynamics simulations. 2019 , 6, 105096	6
503	Hydrogen Arrangements on Defective -Molecular BN Fragments. 2019 , 4, 14849-14859	2
502	Crystal Structure Exploration of Boron Nitride Polymorphs Using Anharmonic Downward Distortion Following Method with Potential Energy Surface Modified by the Inverse of Lattice Volume. 2019 , 48, 1288-1291	4
501	Sensing properties of Ni-doped boron nitride nanotube to SF ₆ decomposed components: A DFT study. 2019 , 9, 095101	15
500	Theoretical prediction of a novel aluminum nitride nanostructure: Atomistic exposure. 2019 , 45, 23690-23693	2
499	The role of sp and sp hybridized bonds on the structural, mechanical, and electronic properties in a hard BN framework.. 2019 , 9, 2657-2665	9
498	On the nanoscale behaviour of single-wall C, BN and SiC nanotubes. 2019 , 230, 1105-1128	16

497	Group 8B transition metal-doped (5,5) boron nitride nanotubes for NH ₃ storage and sensing: a theoretical investigation. 2019 , 150, 1011-1018	5
496	Boron Nitride Nanotubes as Filler for Resin-Based Dental Sealants. 2019 , 9, 7710	4
495	Dispersion of Boron Nitride Nanotubes by Pluronic Triblock Copolymer in Aqueous Solution. 2019 , 11,	2
494	New Family of Two-Dimensional Group-(II ^{3V} 2) Photoelectric Materials. 2019 , 123, 16851-16856	3
493	First-principles study on the adsorption of hydrogen cyanide on the metal-doped (8, 0) boron nitride nanotubes. 2019 , 730, 513-520	5
492	A mini-review on dispersion and functionalization of boron nitride nanotubes. 2019 , 10, 265	1
491	First-principles study of nanotubes of carbon, boron and nitrogen. 2019 , 490, 242-250	7
490	Longitudinal and Torsional Vibration Characteristics of Boron Nitride Nanotubes. 2019 , 7, 205-215	7
489	Atomistic simulations to study the effect of grain boundaries and hydrogen functionalization on the fracture toughness of bi-crystalline h-BN nanosheets. 2019 , 21, 13116-13125	16
488	Magnesium-induced preparation of boron nitride nanotubes and their application in thermal interface materials. 2019 , 11, 11457-11463	13
487	Ultrahigh stretching bond force constants of linear chains of carbon and boron nitride. 2019 , 150, 349-355	2
486	Self-template Synthesis of Metal Halide Perovskite Nanotubes as Functional Cavities for Tailored Optoelectronic Devices. 2019 , 11, 21100-21108	4
485	La- and Mn-Codoped Bismuth Ferrite/TiC MXene Composites for Efficient Photocatalytic Degradation of Congo Red Dye. 2019 , 4, 8661-8668	57
484	Nitrogen monoxide storage and sensing applications of transition metal-doped boron nitride nanotubes: a DFT investigation. 2019 , 30, 2135-2149	3
483	Study of the stability and electronic properties of h-BN nanoribbons with reconstructed edges. 2019 , 727, 126-132	4
482	Reactivity of Atomically Functionalized C-Doped Boron Nitride Nanoribbons and Their Interaction with Organosulfur Compounds. 2019 , 9,	4
481	Polyacrylonitrile/boron nitride nanotubes composite precursor and carbon fibers. 2019 , 147, 419-426	12
480	Nonlinear dynamic behavior of a clamped-clamped beam from BNC nanotube impacted by fullerene. 2019 , 96, 1133-1145	9

479	Theory of rotational columnar structures of soft spheres. 2019 , 99, 020602	4
478	Nanofabrication by thermal plasma jets: From nanoparticles to low-dimensional nanomaterials. 2019 , 125, 070901	32
477	Addition of borazine to boron nitride nanotubes: [2+2] cycloaddition or bond cleavage. 2019 , 150, 1019-1024	3
476	Molecular dynamics simulations for hydrogen adsorption in low energy collisions with carbon and boron-nitride nanotubes. 2019 , 125, 094506	3
475	The diverse electronic properties of C/BN heteronanotubes with polar discontinuity. 2019 , 52, 215302	2
474	Wafer-scale on-chip synthesis and field emission properties of vertically aligned boron nitride based nanofiber arrays. 2019 , 114, 093101	2
473	Boron Nitride Nanotube Cyclotron Targets for Recoil Escape Production of Carbon-11. 2019 , 3, 8	0
472	Hexagonal Boron Nitride Nanosheets Grown via Chemical Vapor Deposition for Silver Protection. 2019 , 2, 2830-2835	16
471	Boron Nitride Nanotube Composites and Applications. 2019 , 91-111	18
470	Vibrational characterization of wavy atomic structures of single walled boron nitride nanotubes. 2019 , 134, 1	1
469	Synthesis, Functionalization, and Bioapplications of Two-Dimensional Boron Nitride Nanomaterials. 2019 , 7, 363	17
468	Deformation Effect on Water Transport through Nanotubes. 2019 , 12, 4424	4
467	Ba(BSS)S: a new thioborate with unprecedented [BS-S] and [S] fundamental building blocks. 2019 , 55, 14793-14796	5
466	Theoretical investigation of thioguanine isomers anticancer drug adsorption treatment on B ₁₂ N ₁₂ nanocage. 2019 , 6, 1250g2	8
465	pH-Controlled fluorescence switching in water-dispersed polymer brushes grafted to modified boron nitride nanotubes for cellular imaging. 2019 , 10, 2428-2439	5
464	Adsorption of carbon dioxide and ammonia in transition metal-doped boron nitride nanotubes. 2019 , 25, 359	2
463	Dynamic thin film mediated slicing of boron nitride nanotubes. 2019 , 1, 4722-4728	1
462	Enhanced Thermal Conductivity in Polymer Nanocomposites via Covalent Functionalization of Boron Nitride Nanotubes with Short Polyethylene Chains for Heat-Transfer Applications. 2019 , 2, 440-451	22

461	Enhanced Thermoelectric Properties of Boron-Substituted Single-Walled Carbon Nanotube Films. 2019 , 11, 7235-7241	13
460	Experimental analysis of water-based nanofluids using boron nitride nanotubes with improved thermal properties. 2019 , 277, 93-103	27
459	Gas sensing properties of CNT-BNNT-CNT nanostructures: A first principles study. 2019 , 470, 933-942	27
458	Panorama of boron nitride nanostructures via lamp ablation. 2019 , 12, 557-562	3
457	Vibrations of van der Waals heterostructures: A study by molecular dynamics and continuum mechanics. 2019 , 125, 025113	4
456	Zig-zag boron nitride nanotubes functionalization with acetylene molecules: a density functional theory study. 2019 , 25, 63-74	4
455	Thermal conductivity of 2D nano-structured boron nitride (BN) and its composites with polymers. 2019 , 100, 170-186	195
454	Direct nanomechanical measurements of boron nitride nanotube-ceramic interfaces. 2019 , 30, 025706	9
453	Effect of atom vacancies on elastic and electronic properties of transversely isotropic boron nitride nanotubes: A comprehensive computational study. 2019 , 156, 332-345	19
452	Synthesis and photoluminescence properties of hexagonal B _{0.9} Ga _{0.1} N alloys and quantum wells. 2019 , 12, 011002	2
451	Folate-conjugated, mesoporous silica functionalized boron nitride nanospheres for targeted delivery of doxorubicin. 2019 , 96, 552-560	21
450	Theoretical investigation of the electronic and optical properties of gallium-doped hexagonal boron nitride through Monte Carlo and ab initio calculations. 2019 , 106, 277-282	3
449	Biomimetische DNA-Nanoröhren: Gezielte Synthese und Anwendung nanoskopischer Kanäle. 2019 , 131, 9092-9108	3
448	Biomimetic DNA Nanotubes: Nanoscale Channel Design and Applications. 2019 , 58, 8996-9011	38
447	Adsorption of mercaptopurine drug on the BN nanotube, nanosheet and nanocluster: a density functional theory study. 2019 , 117, 531-538	15
446	Bending of boron nitride nanotubes: An atomistic study. 2019 , 26, 1357-1364	2
445	The Boron Nitride Nanotube, an Ideal Host Structure for Efficient Immobilization and Delivery of RNA Aptamer: Classical Molecular Dynamics Simulation. 2020 , 30, 789-800	3
444	A review on thermo-mechanical properties of bi-crystalline and polycrystalline 2D nanomaterials. 2020 , 45, 134-170	26

443	Effect of point defects and low-density carbon-doped on mechanical properties of BNNTs: A molecular dynamics study. 2020 , 239, 122107	24
442	Probing the structural, bonding, electronic and magnetic properties of transition metal borazine systems: Com(borazine) _n (m = 1, 2; n = 1B). 2020 , 118, e1667542	1
441	A DFT study of dissolved gas (C ₂ H ₂ , H ₂ , CH ₄) detection in oil on CuO-modified BNNT. 2020 , 500, 144030	70
440	A comparative theoretical study on the interaction of pure and carbon atom substituted boron nitride fullerenes with ifosfamide drug. 2020 , 297, 111894	21
439	Scalable synthesis of multilayer h-BN on AlN by metalorganic vapor phase epitaxy: nucleation and growth mechanism. 2020 , 7, 015004	8
438	BN quantum dots decorated ZnO nanoplates sensor for enhanced detection of BTEX gases. 2020 , 815, 152376	20
437	Effects of carbon substitution on electronic properties of the ultra-small boron nitride nanotube using density functional theory. 2020 , 22, e00442	1
436	Nitrogen doped hierarchical porous hard carbon derived from a facial Ti-peroxy-initiating in-situ polymerization and its application in electrochemical capacitors. 2020 , 294, 109884	6
435	Boron nitride nanotubes-based nanofluids with enhanced thermal properties for use as heat transfer fluids in solar thermal applications. 2020 , 205, 110266	34
434	Mechanical and fracture behaviour of hydroxyl functionalized h-BN nanosheets. 2020 , 55, 3228-3242	14
433	Electronic and vibrational hyperpolarizabilities of alkali- and alkaline-earth-doped boron nitride nanotubes. 2020 , 120, e26093	0
432	Sonochemical Functionalization of Boron Nitride Nanomaterials. 2020 , 5, 709-716	1
431	The effect of chitosan adsorption on the stability characteristics of single- and double-walled boron-nitride nanotubes under compressive force using molecular dynamics simulations. 2020 , 31, 909-915	1
430	Interaction of hydrated metals with chemically modified hexagonal boron nitride quantum dots: wastewater treatment and water splitting. 2020 , 22, 2566-2579	13
429	Three metallic BN polymorphs: 1D multi-threaded conduction in a 3D network. 2020 , 22, 489-496	3
428	A low temperature pyrolytic route to amorphous quasi-hexagonal boron nitride from hydrogen rich (NH)Mg(BH). 2020 , 49, 336-342	8
427	Reinforcement of Polymer-Based Nanocomposites by Thermally Conductive and Electrically Insulating Boron Nitride Nanotubes. 2020 , 3, 364-374	9
426	Diameter-dependent polygonal cross section for holey phenine nanotubes. 2019 , 31, 085702	1

425	The peeling behavior of compliant cylindrical shells in adhesive contact with a planar rigid substrate. 2020 , 16, 1011-1020	2
424	Boron Nitride Nanotubes for Ammonia Synthesis: Activation by Filling Transition Metals. 2020 , 142, 308-317	61
423	Buckling analysis of boron nitride nanotube with and without defect using molecular dynamic simulation. 2020 , 46, 279-288	5
422	Boron nitride B ₁₁ N ₁₂ M ⁺ (M ⁺ =B, Al, Ga, and In) nanocages as a catalyst for CO oxidation by N ₂ O: A density functional study. 2020 , 1171, 112660	5
421	Electronic and transport properties of (6,2) carbon and silicon nanotubes: A first-principles calculation. 2020 , 117, 113855	6
420	The Adsorption of Chlorofluoromethane on Pristine, Al-, Ga-, P-, and As-doped Boron Nitride Nanotubes: A PBC-DFT, NBO, and QTAIM Study. 2020 , 5, 12115-12124	12
419	Metal-Encapsulated Boron Nitride Nanocages for Solar-Driven Nitrogen Fixation. 2020 , 124, 23798-23806	8
418	Electromechanical buckling analysis of boron nitride nanotube using molecular dynamic simulation. 2020 , 67, 212-221	4
417	A comparative investigation of sp ³ -hybridized Pm3n-BN and sc-B ₁₂ N ₁₂ based on density functional theory (DFT). 2020 , 25, 101582	0
416	Infrared active modes in double walled CBN nanotube: theoretical study. 2020 , 783, 012010	
415	Molecular Modelling and Synthesis of Nanomaterials. 2020 ,	1
414	One-Dimensional Nanotubes. 2020 , 363-413	
413	Stability Analysis of a Periodic Fluid-Conveying Heterogeneous Nanotube System. 2020 , 33, 756-769	7
412	Strain-Controllable High Curie Temperature, Large Valley Polarization, and Magnetic Crystal Anisotropy in a 2D Ferromagnetic Janus VSeTe Monolayer. 2020 , 12, 53067-53075	21
411	Water-free Localization of Anion at Anode for Small-Concentration Water-in-Salt Electrolytes Confined in Boron-Nitride Nanotube. 2020 , 1, 100246	2
410	Rh-doped MoTe Monolayer as a Promising Candidate for Sensing and Scavenging SF Decomposed Species: a DFT Study. 2020 , 15, 129	15
409	Toxicity evaluation following pulmonary exposure to an as-manufactured dispersed boron nitride nanotube (BNNT) material in vivo. 2020 , 19, 100235	7
408	Exploration of adsorption behavior, electronic nature and NLO response of hydrogen adsorbed Alkali metals (Li, Na and K) encapsulated Al ₁₂ N ₁₂ nanocages. 2020 , 19, 2050031	30

407	Tight-binding method for the electronic and optical properties of C and BN nanotubes. 2020 , 261, 114671	1
406	Electric Field Effects on Buckling Analysis of Boron Nitride Nanotubes Using Surface Elasticity Theory. 2020 , 20, 2050137	3
405	Role of Undercoordinated Sites for the Catalysis in Confined Spaces Formed by Two-Dimensional Material Overlayers. 2020 , 11, 9400-9407	0
404	Boron Nitride Nanotube Impurity Detection and Purity Verification. 2020 , 32, 9090-9097	5
403	Mechanical properties of C ₃ N nanotubes. 2020 , 109, 108090	2
402	Adsorption of acetylsalicylic acid on the aluminum nitride nanotube in both gas and solvent medium: a DFT study. 2020 , 26, 271	1
401	Preface. 2020 , xix-xxiii	
400	Introduction. 2020 , 1-14	
399	Overview. 2020 , 15-59	
398	Theoretical Background. 2020 , 60-80	
397	Periodic Solids and Electron Bands. 2020 , 81-108	
396	Uniform Electron Gas and sp-Bonded Metals. 2020 , 109-128	
395	Density Functional Theory: Foundations. 2020 , 129-144	
394	The Kohn-Sham Auxiliary System. 2020 , 145-170	
393	Functionals for Exchange and Correlation I. 2020 , 171-187	
392	Functionals for Exchange and Correlation II. 2020 , 188-214	
391	Electronic Structure of Atoms. 2020 , 215-229	
390	Pseudopotentials. 2020 , 230-258	

- 389 Overview of Chapters 12-18. **2020**, 259-261
- 388 Plane Waves and Grids: Basics. **2020**, 262-282
- 387 Plane Waves and Real-Space Methods: Full Calculations. **2020**, 283-294
- 386 Localized Orbitals: Tight-Binding. **2020**, 295-319
- 385 Localized Orbitals: Full Calculations. **2020**, 320-331
- 384 Augmented Functions: APW, KKR, MTO. **2020**, 332-364
- 383 Augmented Functions: Linear Methods. **2020**, 365-385
- 382 Locality and Linear-Scaling $O(N)$ Methods. **2020**, 386-410
- 381 Quantum Molecular Dynamics (QMD). **2020**, 411-426
- 380 Response Functions: Phonons and Magnons. **2020**, 427-445
- 379 Excitation Spectra and Optical Properties. **2020**, 446-464
- 378 Surfaces, Interfaces, and Lower-Dimensional Systems. **2020**, 465-480
- 377 Wannier Functions. **2020**, 481-498
- 376 Polarization, Localization, and Berry Phases. **2020**, 499-516
- 375 Topology of the Electronic Structure of a Crystal: Introduction. **2020**, 517-530
- 374 Two-Band Models: Berry Phase, Winding, and Topology. **2020**, 531-546
- 373 Topological Insulators I: Two Dimensions. **2020**, 547-568
- 372 Topological Insulators II: Three Dimensions. **2020**, 569-580

371 Functional Equations. **2020**, 581-583

370 LSDA and GGA Functionals. **2020**, 584-586

369 Adiabatic Approximation. **2020**, 587-589

368 Perturbation Theory, Response Functions, and Green's Functions. **2020**, 590-599

367 Dielectric Functions and Optical Properties. **2020**, 600-606

366 Coulomb Interactions in Extended Systems. **2020**, 607-619

365 Stress from Electronic Structure. **2020**, 620-626

364 Energy and Stress Densities. **2020**, 627-636

363 Alternative Force Expressions. **2020**, 637-643

362 Scattering and Phase Shifts. **2020**, 644-646

361 Useful Relations and Formulas. **2020**, 647-650

360 Numerical Methods. **2020**, 651-660

359 Iterative Methods in Electronic Structure. **2020**, 661-676

358 Two-Center Matrix Elements: Expressions for Arbitrary Angular Momentum l. **2020**, 677-685

357 Dirac Equation and Spin-Orbit Interaction. **2020**, 686-696

356 Berry Phase, Curvature, and Chern Numbers. **2020**, 697-700

355 Quantum Hall Effect and Edge Conductivity. **2020**, 701-703

354 Index. **2020**, 756-762

353	Epitaxial Combination of Two-Dimensional Hexagonal Boron Nitride with Single-Crystalline Diamond Substrate. 2020 , 12, 46466-46475	7
352	Characterization of plasma and gas-phase chemistry during boron-nitride nanomaterial synthesis by laser-ablation of boron-rich targets. 2020 , 22, 20837-20850	6
351	Theoretical study of the adsorption of amantadine on pristine, Al-, Ga-, P-, and As-doped boron nitride nanosheets: a PBC-DFT, NBO, and QAIM study. 2020 , 139, 1	9
350	A mini-review on dispersion and functionalization of boron nitride nanotubes. 2020 , 10, 265-274	20
349	Structural, magneto, electronic and optical properties of M@B ₂₄ N ₂₄ cages (M = Li, Na and K). 2020 , 95, 1735	
348	Study of weak interactions of boron nitride nanotubes with anticancer drug by quantum chemical calculations. 2020 , 139, 1	1
347	Nanotubes from layered transition metal dichalcogenides. 2020 , 73, 42-48	6
346	Boron Nitride Nanotube (BNNT) Membranes for Energy and Environmental Applications. 2020 , 10,	3
345	Wave propagation analysis of thermoelastic functionally graded nanotube conveying nanoflow. 2020 , 107754632097704	1
344	Boron Nitride Nanotubes Versus Carbon Nanotubes: A Thermal Stability and Oxidation Behavior Study. 2020 , 10,	8
343	Auxetics among Materials with Cubic Anisotropy. 2020 , 55, 461-474	23
342	Investigation of hydrogen storage on Sc/Ti-decorated novel B ₂₄ N ₂₄ . 2020 , 45, 33740-33750	5
341	Prediction of three-dimensional B ₃ N ₅ with one-dimensional metallicity. 2020 , 760, 138002	
340	Effect of adsorption sensitivity of armchair single-walled BN nanotube toward thiocyanate anion: A systematic evaluation of length and diameter effects. 2020 , 21, 100693	
339	Energy and Charge Transfer at the Boron Nitride Nanotube Catalyst Growth Interface. 2020 , 124, 11662-11668	1
338	Facile template free approach for the large-scale solid phase synthesis of nanocrystalline XIn ₂ S ₄ (X = Cd/Zn) and its photocatalytic performance for H ₂ evolution. 2020 , 44, 9634-9646	2
337	Fabrication of Noncovalently Functionalized Boron Nitride Nanotubes with High Stability and Water-Redispersibility. 2020 , 11, 4511-4516	2
336	The study of thiazole adsorption upon BC ₂ N nanotube: DFT/TD-DFT investigation. 2020 , 31, 1959-1967	2

335	Superhard monoclinic BN allotrope in M-carbon structure. 2020 , 384, 126518	4
334	Single- and double-walled boron nitride nanotubes: Controlled synthesis and application for water purification. 2020 , 10, 7416	14
333	Doping effect of small Rhn ($n = 1-4$) clusters on the geometric and electronic behaviors of MoS2 monolayer: A first-principles study. 2020 , 526, 146659	12
332	An Introduction to Nanomaterials. 2020 , 563-587	
331	First-principles investigation of ScX (X = Cl, Br, or I) monolayers for flexible spintronic and electronic applications. 2020 , 22, 14781-14786	2
330	Vibrational Properties of Single Wall Carbon Nanotubes inside Boron nitride Nanotubes using Raman spectroscopy. 2020 ,	
329	Transversely isotropic elastic properties of multi-walled boron nitride nanotubes under a thermal environment. 2020 , 31, 395707	4
328	Noncovalent functionalization of boron nitride nanotubes using poly(2,7-carbazole)s. 2020 , 58, 1889-1902	1
327	Nanotechnology for Energy and Environmental Engineering. 2020 ,	3
326	Fabrication of titanium oxide nanotubes by varying the anodization time. 2020 , 33, 2711-2715	1
325	Two-Dimensional Nanomaterials. 2020 ,	8
324	Adsorption of Phosgene Gas on Pristine and Copper-Decorated BN Nanocages: A Comparative DFT Study. 2020 , 5, 7641-7650	54
323	A theoretical first principles computational investigation into the potential of aluminum-doped boron nitride nanotubes for hydrogen storage. 2020 , 45, 11176-11189	11
322	A [1 + 2] cycloaddition instead of usual [2 + 3] cycloaddition between the B12N12 cluster and methyl azide: Potential energy surface calculations and BornOppenheimer molecular dynamics simulations. 2020 , 45, 146867831990058	
321	Nanocelluloses and Related Materials Applicable in Thermal Management of Electronic Devices: A Review. 2020 , 10,	18
320	Quantifying the interfacial load transfer in electrospun carbon nanotube polymer nanocomposite microfibers by using in situ Raman micromechanical characterization techniques. 2020 , 53, 365302	2
319	Indium doped phosphorene as a potential gas sensor: a study using density functional theory. 2020 , 2, 035001	0
318	Tracking nanoparticle growth in pulsed carbon arc discharge. 2020 , 127, 243301	4

- 317 Purification of Boron Nitride Nanotubes Enhances Biological Application Properties. **2020**, 21, 10
- 316 Synthesis and carbothermal nitridation mechanism of ultra-long single crystal β -SiN nanobelts. **2020**, 31, 194001 2
- 315 Molecular dynamics investigation of the thermal properties in single-walled boron nitride nanotube. **2020**, 7, 025025 3
- 314 Adsorption and sensing behaviors of SF₆ decomposed species on Ni-doped C₃N monolayer: A first-principles study. **2020**, 512, 145759 134
- 313 Theoretical studies of the paracetamol and phenacetin adsorption on single-wall boron-nitride nanotubes: a DFT and MD investigation. **2020**, 31, 1403-1417 8
- 312 Synthesis of Multiwall Boron Nitride (BN) Nanotubes by a PVD Method Based on Vapor-Liquid-Solid Growth. **2020**, 13, 6
- 311 Stress-driven nonlocal elasticity for nonlinear vibration characteristics of carbon/boron-nitride hetero-nanotube subject to magneto-thermal environment. **2020**, 95, 055218 31
- 310 Theoretical Modeling of Single-Walled Boron Nitride Nanotube Growth in CVD. **2020**, 44, 545-548
- 309 Atomistic modeling and dynamic analysis of boron nitride nanotube in the presence of hexagonal defect. **2020**, 28, 761-766
- 308 The adsorption characteristics and thermo-mechanical properties of B_xC_yN_z heteronanotubes under physical adsorption of Ni(II)-tetramethyldibenzotetraaza[14]annulene (NiTMTAA): Insight from molecular dynamics approach. **2020**, 176, 109554 4
- 307 Two-dimensional BN-doped ZnO thin-film deposition by a thermionic vacuum arc system. **2020**, 31, 6948-6955 5
- 306 C-doped boron nitride nanotubes for the catalysis of acetylene hydrochlorination: A density functional theory study. **2020**, 488, 110853 5
- 305 In situ transmission electron microscope studies on one-dimensional nanomaterials: Manipulation, properties and applications. **2020**, 113, 100674 6
- 304 Scalable Gas-Phase Purification of Boron Nitride Nanotubes by Selective Chlorine Etching. **2020**, 32, 3911-3921 16
- 303 Optical properties of a hexagonal C/BN framework with sp and sp hybridized bonds. **2020**, 10, 6808 1
- 302 Synthesis of boron nitride nanotubes using triple DC thermal plasma reactor with hydrogen injection. **2020**, 395, 125148 15
- 301 Comparison of sensing and electronic properties of C₂H₂ on different transition metal oxide nanoparticles (Fe₂O₃, NiO, TiO₂) modified BNNT (10, 0). **2020**, 521, 146463 30
- 300 Boron Nitride Nanotube-Based Contact Electrification-Assisted Piezoelectric Nanogenerator as a Kinematic Sensor for Detecting the Flexion/Extension Motion of a Robot Finger. **2020**, 5, 1577-1585 16

299	Boron nitride nanotubes (BNNTs) decorated Pd-ternary alloy (Pd ₆₃ Ni ₃₄ Co _{2.5}) for H ₂ sensing. 2021 , 46, 12263-12270	5
298	Free vibration analysis of multisteped nonlocal Bernoulli-Euler beams using dynamic stiffness matrix method. 2021 , 27, 774-789	3
297	Plasmonic excitations and charge structure factor in armchair boron nitride nanotubes. 2021 , 126, 114385	2
296	A theoretical investigation on the mercaptopurine drug interaction with boron nitride nanocage: Solvent and density functional effect. 2021 , 125, 114337	8
295	Boron nitride-based materials for water purification: Progress and outlook. 2021 , 263, 127970	22
294	The adsorption of bromochlorodifluoromethane on pristine, Al, Ga, P, and As-doped boron nitride nanotubes: A study involving PBC-DFT, NBO analysis, and QTAIM. 2021 , 1193, 113047	13
293	The synthesis of nano-fuzz W ₂ N layer using dense helium and nitrogen plasma. 2021 , 717, 138445	0
292	Microstructural and mechanical properties of plasma sprayed boron nitride nanotubes reinforced alumina coating. 2021 , 47, 9194-9202	2
291	Ecotoxicological assessment of commercial boron nitride nanotubes toward tadpoles and host-associated gut microbiota. 2021 , 15, 35-51	5
290	Fe-doped C ₃ N monolayer as a promising SAC for CO oxidation with low temperature and high reactivity. 2021 , 1194, 113080	3
289	Adsorption-site-dependent magnetic and electronic properties for single- or double-fluorine-atom adsorbed boron nitride nanotubes and their possible applications in spin filters. 2021 , 389, 127071	1
288	Structural, Electronic, and Magnetic Properties of 3d Transition Metal-Doped BP Nanotubes by First Principle Calculations. 2021 , 34, 749-761	
287	Microwave radiation-assisted covalent functionalization of boron nitride nanotubes and their grafting with cationic thermo and pH-sensitive hydrogel. 2021 , 11, 505-520	1
286	A review on nanotoxicity and nanogenotoxicity of different shapes of nanomaterials. 2021 , 41, 118-147	19
285	DFT study of X-doped (X= Cu, Ag, Au) boron nitride nanotubes for spintronic and optoelectronic applications. 2021 , 225, 165863	3
284	DFT and QTAIM investigations of the adsorption of chlormethine anticancer drug on the exterior surface of pristine and transition metal functionalized boron nitride fullerene. 2021 , 323, 114627	28
283	Electrical transport properties of hexagonal boron nitride epilayers. 2021 , 107, 393-454	2
282	Magnetic and geometric effects on the electronic transport of metallic nanotubes. 2021 , 129, 044301	1

- 281 Nanoparticles for Anticancer Therapy. **2021**, 283-311
- 280 Structural and electronic properties of FeCl₃ and CrO₃ interacting with GaP nanotubes from DFT calculations. **2021**, 45, 9483-9490
- 279 Beyond homogeneous dispersion: oriented conductive fillers for high nanocomposites. **2021**, 8, 3009-3042 3
- 278 Curvature-induced bandgap reduction in TiO₂ double-walled nanotubes. **2021**, 129, 024303
- 277 Ultrasensitive analysis of SW-BNNT with an extra attached mass. **2021**, 28, 394-401
- 276 Molecular Imprinted Nanocomposites for Green Chemistry. **2021**, 571-598
- 275 Reviewing the Potential of Novel Nanofillers in Polymer Matrices for Advanced Technological Applications. **2021**,
- 274 Theoretical Investigation of Interaction 7-Hydroxy Phenothiazine 3-One Dye with Nanotube: a DFT Study. **2021**, 15, 170-182 0
- 273 Preparation and characterization of boron nitride nanosheet ferric oxide composite (BNNS@Fe₃O₄) through the double stabilization of PVP and its adsorption to congo red. **2021**, 28, 1 2
- 272 Analysis of the nature of interaction between AlN nanocage and ibuprofen using quantum chemical study. **2021**, 32, 1685-1692 0
- 271 Theoretical Framework for Encapsulation of Inorganic BN Nanoclusters with Alkaline Earth Metals for Efficient Hydrogen Adsorption: A Step Forward toward Hydrogen Storage Materials. **2021**, 60, 2816-2828 15
- 270 Superhard B₂₈N₃₂ with three-dimensional metallicity: First-principles prediction. **2021**, 188, 110121 1
- 269 Selective ppb-level NO₂ gas sensor based on SnO₂-boron nitride nanotubes. **2021**, 331, 129464 28
- 268 A thermomechanical comparative study on carbon and boron nitride nanotube-reinforced polymer composites. 1-21 0
- 267 Buckling of boron nanotubes under axial compression: Insights from molecular mechanics and continuum mechanics. **2021**, 127, 114520 3
- 266 Synergistic Effect of Boron Nitride and Carbon Domains in Boron Carbide Nitride Nanotube Supported Single-Atom Catalysts for Efficient Nitrogen Fixation. **2021**, 27, 6945-6953 4
- 265 Investigation of conduction kinetics in Al/CuInSe₂ Schottky device utilizing impedance spectroscopy (IS) measurement and study of its photosensing behaviour. **2021**, 150, 109878 3
- 264 Synthesis of Boron Nitride Nanotubes Using Plasma-Assisted CVD Catalyzed by Cu Nanoparticles and Oxygen. **2021**, 11, 2

263	Acetaminophen drug detection by a promising sensor of aluminum nitride nanocage: DFT approach. 2021 , 152, 481-488	3
262	Spin-dependent seebeck effect and pure spin current in ferromagnetic fluorinated boron nitride nanotubes. 2021 , 128, 114614	
261	Single Cr atom supported on boron nitride nanotubes for the reaction of N ₂ O reduction by CO: A density functional theory study. 2021 , 544, 148776	4
260	Modeling interactions of dsDNA inside single-walled nanotubes. 2021 , 11, 045102	2
259	New boron nitride monolith phases from high-pressure compression of double-walled boron nitride nanotubes. 2021 , 154, 134702	1
258	Dopamine Drug Adsorption on the Aluminum Nitride Single-Wall Nanotube: Ab initio Study. 1	7
257	Structural exploration and properties of (BN) ₆ cluster via ab initio in combination with particle swarm optimization method. 2021 , 140, 1	0
256	High Pressure in Boron Nitride Nanotubes for Kirigami Nanoribbon Elaboration. 2021 , 125, 11440-11453	1
255	Comprehensive characterization and analysis of hexagonal boron nitride on sapphire. 2021 , 11, 055008	3
254	A computational study of physical, electronic, thermal and transport properties of one-dimensional boron and boron nitride systems. 2021 , 297, 122037	3
253	DFT calculation of square MoS ₂ nanotubes. 2021 , 130, 114693	2
252	Encapsulation of Pollutant Gaseous Molecules by Adsorption on Boron Nitride Nanotubes: A Quantum Chemistry Study. 2021 , 6, 14824-14837	5
251	Organic molecules encapsulated in single-walled carbon nanotubes.	1
250	Collective plasmonic oscillations of zigzag boron-nitride nanotubes in the presence of Holstein phonons. 2021 , 130, 114687	
249	Atomic-Ordering-Induced Modulated Properties of Zigzag ZnTe Nanotubes. 2021 , 258, 2100115	
248	Determination of the optical bandgap of the Bernal and rhombohedral boron nitride polymorphs. 2021 , 5,	6
247	First-principles study of two new boron nitride structures: C12-BN and O16-BN.	
246	Molecular dynamics simulation of separation of water/methanol and water/ethanol mixture using boron nitride nanotubes. 2021 , 331, 115774	4

245	On the Determination of Elastic Properties of Single-Walled Boron Nitride Nanotubes by Numerical Simulation. 2021 , 14,	1
244	The influence of corrugations on spin polarization in magnetic field. 2021 , 400, 127288	0
243	Sensing capability and diameter-dependent electronic structure of boron nitride nanotubes. 2021 , 27, 102252	1
242	Adsorption behavior of cisplatin anticancer drug on the pristine, Al- and Ga-doped BN nanosheets: A comparative DFT study. 2021 , 1200, 113241	9
241	Flow of polar and nonpolar liquids through nanotubes: A computational study. 2021 , 5,	0
240	Floating Interlayer and Surface Electrons in 2D Materials: Graphite, Electrides, and Electrenes. 2021 , 1, 2100020	7
239	Purification of boron nitride nanotubes by functionalization and removal of poly(4-vinylpyridine). 2021 , 555, 149722	2
238	Boron-rich boron nitride nanomaterials as efficient metal-free catalysts for converting CO ₂ into valuable fuel. 2021 , 555, 149652	4
237	Recent Advances in Boron Nitride Based Hybrid Polymer Nanocomposites. 2021 , 306, 2100429	5
236	A novel rotation transmission nano-system based on Carbon@Boron-Nitride@Carbon heterogeneous nanotubes: A molecular dynamics study. 2021 , 196, 110517	0
235	Effect of vacancy defects in 2D vdW graphene/h-BN heterostructure: First-principles study. 2021 , 11, 085218	4
234	Synthesis of polycrystalline boron nitride nanotubes with Lead(II) oxide and Iron(III) nitrate nonahydrate as promoters. 2021 , 133, 114788	
233	A Review of the Terahertz Conductivity and Photoconductivity of Carbon Nanotubes and Heteronanotubes. 2101042	8
232	Theoretical investigation on 5-Fluorouracil anticancer drug adsorption on Sc and Ti doped armchair and zigzag boron nitride nanotubes. 2021 , 337, 116596	2
231	SWCNT@BNNT With 1D Van Der Waals Heterostructure With a High Optical Damage Threshold for Laser Mode-Locking. 2021 , 39, 5875-5883	2
230	First Principles Study of Tabun Adsorption on (6,0), (7,0), and (8,0) Boron Nitride Nanotubes. 2021 , 95, 1892-1899	
229	A Comprehensive Review on the Applications of Boron Nitride Nanomaterials in Membrane Fabrication and Modification. 2021 , 60, 13391-13424	5
228	Structure, Properties and Applications of Two-Dimensional Hexagonal Boron Nitride. 2021 , 33, e2101589	42

227	Effect of Al- and Ga-doping on the adsorption of H ₂ SiCl ₂ onto the outer surface of boron nitride nanotube: a DFT study. 2021 , 24, 291-304	6
226	Evaluation of the thermal conductivity coefficient of the strained concentric multi-walled carbon and boron-nitride nanotubes: A molecular dynamics investigation. 2021 , 134, 114830	1
225	Vinyl chloride adsorption onto the surface of pristine, Al-, and Ga-doped boron nitride nanotube: A DFT study. 2021 , 337, 114440	12
224	Prediction and optimization of the thermal transport in hybrid carbon-boron nitride honeycombs using machine learning. 2021 , 184, 492-503	0
223	Hormones Nanofiltration in Carbon Nanotubes and Boron Nitride Nanotubes Using Uniform External Electric Field Through Molecular Dynamics. 2021 , 21, 5499-5509	
222	Toward efficient enantioseparation of ibuprofen isomers using chiral BNNTs: Dispersion corrected DFT calculations and DFTB molecular dynamic simulations. 2021 , 119, 108561	4
221	An effective growth of hierarchical BNNTs/SiC fibers with enhanced interfacial properties. 2021 , 216, 109033	0
220	Insights into structural and dynamical characteristics of III-V boron polytypes. 2021 , 136, 106138	0
219	A two-section beam element to model the B-N covalent bonds in boron nitride nanotubes. 2022 , 145, 111533	0
218	The competition: Non-silicon nanowire/nanotube strategies in nanomedicine. 2022 , 379-400	
217	Effect of oxygen atoms adsorption and doping on hexagonal boron nitride. 2022 , 135, 114977	2
216	Adsorption of 1-chloro-1,2,2,2-tetrafluoroethane on pristine, Al, Ga-doped boron nitride nanotubes: a study involving PBC-DFT, NBO analysis, and QTAIM. 2021 , 99, 51-62	10
215	Corrosion properties of organic polymer coating reinforced two-dimensional nitride nanostructures: a comprehensive review. 2021 , 28, 1	7
214	Boron nitride-based nanocomposite hydrogels: preparation, properties and applications. 2021 , 17, 4475-4488	3
213	Nanotubes: A Revolution in Materials Science and Electronics. 1999 , 189-234	106
212	Nanowires of Functional Oxides. 2003 , 113-137	7
211	Heteroatomic Single-Wall Nanotubes Made of Boron, Carbon, and Nitrogen. 2009 , 45-81	4
210	Electronic Properties of Boron-Nitride and Boron Carbonitride Nanotubes and Related Heterojunctions. 2009 , 83-103	2

209	Boron Nitride Nanocage Clusters, Nanotubes, Nanohorns, Nanoparticles, and Nanocapsules. 2009 , 149-194	14
208	Catalyst-Free Chemical Vapor Deposition for Synthesis of SiC Nanowires with Controlled Morphology. 2013 , 179-213	1
207	Electron Microscopy of Boron Nitride Nanotubes. 2003 , 221-250	1
206	Trends in Ferroelectric/Piezoelectric Ceramics. 2008 , 553-569	2
205	Conversion of Metal Oxide Nanosheets into Nanotubes. 2010 , 135-146	7
204	Synthesis and Applications of Titanium Oxide Nanotubes. 2010 , 17-32	27
203	Fullerenes and Beyond: Complexity, Morphology, and Functionality in Closed Carbon Nanostructures. 2013 , 83-104	1
202	Electronic, Transport and Mechanical Properties of Carbon Nanotubes. 2002 , 187-220	3
201	Toxicity Study of Nanofibers. 2011 , 133-149	2
200	Electronic and Doping Properties of B x C y N z Nanotubes. 1997 , 133-142	1
199	Synthesis and Assembly. 1999 , 15-33	8
198	The recent advancement of low-dimensional nanostructured materials for drug delivery and drug sensing application: A brief review. 2020 , 320, 114427	29
197	CrI3 magnetic nanotubes: A comparative DFT and DFT+U study, and strain effect. 2020 , 123, 114205	5
196	Synthesis and properties of encapsulated and intercalated inorganic fullerene-like structures. 1998 , 227-252	1
195	Electronic Structure: Basic Theory and Practical Methods. 2020 ,	38
194	Chapter 1:Computational Materials Discovery: Dream or Reality?. 2018 , 1-14	2
193	Current status and prospects of memristors based on novel 2D materials. 2020 , 7, 1495-1518	59
192	Influence of the adsorption of toxic agents on the optical and electronic properties of B12N12 fullerene in the presence and absence of an external electric field. 2020 , 44, 14513-14528	7

191	Piezoelectric effects in boron nitride nanotubes predicted by the atomistic finite element method and molecular mechanics. 2017 , 28, 355705	8
190	Density functional theory study of Cu-doped BNNT as highly sensitive and selective gas sensor for carbon monoxide. 2021 , 32, 075502	10
189	Few-layer flakes of Molybdenum Disulphide produced by anodic arc discharge in pulsed mode. 2019 , 1, 045009	4
188	Hyperhoneycomb boron nitride with anisotropic mechanical, electronic, and optical properties. 2017 , 1,	1
187	Synthesis of Boron Nitride Nanotubes Using a Ball-Milling and Annealing Method. 2005 ,	2
186	Inorganic Nanotubes and Fullerene-Like Materials of Metal Dichalcogenide and Related Layered Compounds. 2006 , 135-155	0
185	Quantum-chemistry calculation of B _n N _n -rings (n = 1_6) and fulborenes, the fullerene-like molecules B _n N _n (n = 12, 24, 60). 2000 , 3, 545-549	10
184	Quantum-chemistry calculation of B_nN_n-rings (n = 1_6) and fulborenes, the fullerene-like molecules B_nN_n (n = 12, 24, 60). 2007 , 177, 1083	10
183	Electrical Properties of the Al/CuInSe₂/Thin Film Schottky Junction. 2014 , 04, 224-235	9
182	Structural and Electronic Properties of Impurities on Boron Nitride Nanotube. 2011 , 02, 857-863	11
181	Growth of Boron Nitride Nanotubes Having Large Surface Area Using Mechanochemical Process. 2011 , 01, 119-128	2
180	Synthesis and Applications of Borides, Carbides, Phosphides, and Nitrides. 2021 , 307-365	0
179	Theoretical investigation of emodin conjugated doped B ₁₂ N ₁₂ nanocage by means of DFT, QTAIM and PCM analysis. 2021 , 115027	12
178	BN crystal, basic structure of boron nitride nanotubes. 2021 , 8, 1018-1023	1
177	A first-principles DFT study on the adsorption behaviour of CO, CO ₂ , and O ₃ on pristine B ₂₄ N ₂₄ and silicon-decorated B ₂₄ N ₂₄ nanosheet. 1-8	4
176	Shielding of Cosmic Radiation by Fibrous Materials. 2021 , 9, 60	3
175	Ethynyl-functionalized BNNT and preparation of polyarylene-BNNT nanocomposites. 2021 , 235, 124275	
174	New Application of Carbon Nanotubes. EELS Diagnoses of the Multi-phase Nanotubes and Nanoparticles in the B-C-N Ternary System.. 2000 , 21, 560-568	1

- 173 First-Principles Theoretical Modeling of Nanotube Growth. **2001**, 149-170
- 172 Elastic Properties of Fullerenes. **2001**, 163-171
- 171 Self-assembly of Inorganic Nanotubes Synthesised by the Chemical Transport Reaction. **2002**, 113-124 1
- 170 The Growth of Carbon and Boron Nitride Nanotubes: A Quantum Molecular Dynamics Study. **2002**, 53-65
- 169 Microtubes.
- 168 Composite Nanowires. **2003**, 257-268
- 167 Elaboration of h-Bn Sheathed μ Sic Nanocables. **2003**, 772, 331 1
- 166 Torsion of Hypothetical Single-Wall Silicon Nanotubes. **2003**, 16, 1165-1174
- 165 Electrical and Mechanical Properties of Nanotubes Determined Using In-situ TEM Probes. **2005**, 273-306
- 164 Polarization in Nanotubes and Nanotubular Structures. **2005**,
- 163 Boron Nitride Nanotubes. **2006**,
- 162 Inorganic Nanotubes and Fullerene- Like Materials of Metal Dichalcogenide and Related Layered Compounds. **2006**, 0
- 161 Boron Nitride Nanotubes. **2006**, 157-177
- 160 Computational Nanomechanics of Quasi-one-dimensional Structures in a Symmetry-Adapted Tight Binding Framework. **2010**, 29-55
- 159 Nanotubes. **2010**, 143-169 5
- 158 Introduction to Inorganic and Metallic Nanotubes. **2010**, 1-16
- 157 Graphene and Carbon Nanotubes. **2010**, 465-479
- 156 Influence of isoelectronic impurities on the electronic structure of BN nanotubes. **2010**, 87, 50

- 155 First principles calculations of h-BN monolayer with group IA/IIA elements replacing B as impurities. **2012**, 61, 236301 1
- 154 Synthesis of Si-Based Nanowires. 129-137
- 153 Theoretical study on the electronic structures and photophysical properties of carbon nanorings and their analogues. **2013**, 62, 083101
- 152 Properties of 5d atoms doped boron nitride nanotubes:a first-principles calculation and molecular orbital analysis. **2013**, 62, 246301 1
- 151 Nanostructures Cluster Models in Solution. **2014**, 221-253 1
- 150 Inorganic Nanotubes. **2014**, 1893-1900
- 149 Catenation: Inorganic Macromolecules. **1997**, 51-67
- 148 JICST???? ?74???. **1998**, 41, 200-206
- 147 Production of Carbon Clusters by Means of Arc Discharge and Their Application. 1. Production of Fullerenes by Means of Arc Discharge.. **1999**, 75, 896-901
- 146 Nitrides of Boron and Group III Metals. **2015**, 347-427
- 145 Boron Nitride Nanotubes and Nanoribbons Produced by Ball Milling Method. **2015**, 33-58
- 144 Modeling of Nanostructures. **2015**, 1-55 1
- 143 Introduction. **2015**, 3-8
- 142 Nanoboron Nitrides. **2015**, 3-32 1
- 141 Bibliography. 327-351
- 140 Synthesis, Structures and Properties of Boron Nitride Nanoparticles. **2016**, 1-40
- 139 Thermal Properties of Inorganic Nanostructures. **2016**, 247-267
- 138 Recent Advances in the Synthesis of Protein-Based Hydrogels. **2016**, 587-652

- 137 Biopolymers and Phospho-Bioassemblies. **2016**, 863-954
- 136 BOR NİTRİT Bİ MKROTP (BNMT) SENTEZİNE REAKSİYON SRESİNİN ETKİSİ. **2017**, 32,
- 135 Self-Assembled Organic Nanotubes: Novel Bionanomaterials for Orthopedics and Tissue Engineering. **2017**, 17-46
- 134 Buckling behavior of boron nitride nanotubes under combined axial compression and torsion via molecular dynamics simulations. **2018**, 67, 246101
- 133 Nonlinear Bending of Piezoelectric Plate Reinforced with BNNTs under ElectroqThermo-Mechanical Loading. **2018**, 08, 742-751
- 132 Preparation of Element-Block Materials Using Inorganic Nanostructures and Their Applications. **2019**, 219-241
- 131 Recent Advances in Structural Engineering of 2D Hexagonal Boron Nitride Electrocatalysts. **2021**, 91, 106661 6
- 130 Potential Production of Theranostic Boron Nitride Nanotubes (Cu-BNNTs) Radiolabeled by Neutron Capture. **2021**, 11, 1
- 129 The mechanism of forming carbon nanostructures by electric arc-method. **2020**, 12(27), 263-288 2
- 128 CHAPTER 4:Inorganic Nanotubes. **2021**, 240-356
- 127 First-principles calculations of nickel, cadmium, and lead nanoclusters adsorption on single-wall (10,0) boron-nitride nanotube. **2022**, 573, 151547 0
- 126 Introduction. **2020**, 1-6
- 125 Peptide Nanotubes: A Crystallographic Approach. **2020**, 93-124
- 124 Boron nitride cages from B12N12 to B36N36: square-hexagon alternants vs boron nitride tubes. 537-542
- 123 Optical and magneto-optical properties of the SC, FCC and BCC phases of the B24N24 crystal. **2020**, 67, 1436-1442
- 122 Theoretical investigations of the interaction between B9N9 ring and nine adamantane derivatives. **2022**, 1207, 113512 1
- 121 Molecular Dynamics Assessment of Doxorubicin Adsorption on Surface-Modified Boron Nitride Nanotubes (BNNTs). **2021**, 125, 13168-13180 1
- 120 Prediction of three-dimensional stretchable boron nitride nanoribbons. **2021**, 121, 108740 0

119	Potential of aluminum nitride nanocone as a chemical sensor for anticancer drug detection. 2021 , 1207, 113537	0
118	A theoretical study of allopurinol drug sensing by carbon and boron nitride nanostructures: DFT, QTAIM, RDG, NBO and PCM insights.. 2021 , 11, 38457-38472	5
117	The Application of Nanomaterial in Skeletal Muscle Regeneration. 2021 , 37-85	
116	Thermoelectric properties of two sided-closed single-walled boron nitride nanotubes (6, 3). 1	1
115	Molecular dynamics study on the crack propagation in carbon doped polycrystalline boron-nitride nanosheets. 2022 , 203, 111066	1
114	Spin transport properties of boron nitride nanotubes: A DFT study. 2022 , 30, e00636	
113	Advances in synthesis and applications of boron nitride nanotubes: A review. 2022 , 431, 134118	4
112	Enhanced Catalytic Activity of Boron Nitride Nanotubes by Encapsulation of Nickel Wire Toward O ₂ Activation and CO Oxidation: A Theoretical Study. 2022 , 3,	
111	Investigation of the adsorption properties of gemcitabine anticancer drug with metal-doped boron nitride fullerenes as a drug-delivery carrier: a DFT study.. 2022 , 12, 2873-2887	5
110	Current trends of functionalized nanomaterial-based sensors in point-of-care diagnosis. 2022 , 337-353	2
109	Biofunctionalization of graphene and its two-dimensional analogues and synthesis of biomimetic materials: a review. 2022 , 57, 3085-3113	3
108	Revealing the Effect of Sulfur Compounds for Low-Temperature Synthesis of Boron Nitride Nanotubes from Boron Minerals.	0
107	Electronic and optical properties of ultra-small diameter armchair carbon and boron nitride nanotubes by PBE, TB-mBJ and YS-PBE0 functionals. 2022 , 123, 108863	1
106	Advanced porous borocarbonitride nanoarchitectonics: Their structural designs and applications. 2022 , 190, 142-169	2
105	Infrared spectroscopy calculations of multi-walled boron nitride nanotubes: Inner diameter and wall thickness effects. 2022 , 1254, 132306	0
104	Hydrogen Encapsulation and Storage as an Alternative Energy Source. 2022 , 265-287	
103	Ultrahigh-stability SnOX (X = S, Se) nanotubes with a built-in electric field as a highly promising platform for sensing NH ₃ , NO and NO ₂ : a theoretical investigation. 2022 , 10, 7948-7959	0
102	2D Materials for Wearable Energy Harvesting. 2101623	1

101	Tuning the Electronic Structure of Zigzag Boron Nitride Nanoribbons via sp^2/sp^3 Edge Functionalization. 1	0
100	Theoretical study of encapsulation of diethylstilbestrol drug into the inner surface of BNNT toward designing a new nanocarrier for drug delivery systems. 2022 , 9, 045002	0
99	Amino-silane co-functionalized h-BN nanofibers with anti-corrosive function for epoxy coating. 2022 , 174, 105244	2
98	MXenes and other 2D nanosheets for modification of polyamide thin film nanocomposite membranes for desalination. 2022 , 289, 120777	3
97	High-Throughput computational screening of Single-atom embedded in defective BN nanotube for electrocatalytic nitrogen fixation. 2022 , 591, 153130	0
96	Diameter Dependence of Band Gap of Single-Walled Boron Nitride Nanotubes. 2021 , 63, 1126-1130	
95	The study of boron-nitride nanotube behavior as an atomic nano-pump for biomedicine applications.. 2021 , 28, 19	0
94	Induced Metals on BN Nanotube by DFT/EPR Methods. 2021 , 95, S331-S337	
93	Building Blocks for One-Dimensional van der Waals Heterostructures. 2022 ,	0
92	Structural and optical behavior of single-walled and multi-walled boron nitride nanotubes. 2022 , 1262, 133069	1
91	1,6;2,3-Bis-BN Cyclohexane: Synthesis, Structure, and Hydrogen Release.. 2022 ,	1
90	Nanometric-thick metal-free h-boron nitride/graphene films as base catalyst for the synthesis of benzoxazoles.	1
89	Nanosynthesis by atmospheric arc discharges excited with pulsed-DC power: A review.. 2022 ,	
88	Spontaneous formation of boron nitride nanotube fibers by boron impurity reduction in laser ablation of ammonia borane.. 2022 , 9, 20	1
87	Structural Stability and Electronic Properties of Boron Phosphide Nanotubes: A Density Functional Theory Perspective. 2022 , 14, 964	0
86	Overview on the Evaluation of the Elastic Properties of Non-Carbon Nanotubes by Theoretical Approaches.. 2022 , 15,	0
85	BN nanocage as an electronic sensor for metronidazole drug: density functional theory studies.. 2022 , 28, 134	0
84	Two novel large-cell boron nitride polymorphs. 2022 , 126, 109046	0

83	Electronic, optical and thermoelectric properties of BN-Be(8,0) nanotube: DFT study. 2022 , 114822	
82	Quality Physical Model of Boron Nitride Nanotubes Formation in ICP/RF Plasma. 2022 , 1-4	
81	Nano-metallic Semiconductor towards the Vibrational Analysis and Harmonic Linear Combination. 2022 , 96, 1051-1061	
80	Nanotubes and fullerene-like nanoparticles from layered transition metal dichalcogenides: Why do they form and what is their significance?.	0
79	Highly efficient synthesis of boron nitride nanotubes by catalytic chemical vapor deposition of boron/nickel containing precursors. 2022 ,	1
78	Quantum mechanics of a fermion confined to a curved surface in Foldy-Wouthuysen representation. 2022 , 105,	0
77	Polytypes of sp ² -Bonded Boron Nitride. 2022 , 12, 782	1
76	Nanotubes from Ternary WS ₂ (1-x)Se _{2x} Alloys: Stoichiometry Modulated Tunable Optical Properties.	4
75	Mechanical and thermal properties of carbon nanotubes and boron nitride nanotubes for fuel cells and hydrogen storage applications: A comparative review of molecular dynamics studies. 2022 ,	0
74	In Vitro and In Vivo Cytotoxicity of Boron Nitride Nanotubes: A Systematic Review. 2022 , 12, 2069	3
73	Liquid crystals of neat boron nitride nanotubes and their assembly into ordered macroscopic materials. 2022 , 13,	3
72	Stabilities, electronic and piezoelectric properties of blue-phosphorene-phase MXs (M='Ge, Sn; X='S, Se, Te) nanotubes. 2022 , 599, 153995	
71	Nanowires and Nanotubes. 1-50	1
70	Boron nitride materials as emerging catalysts for oxidative dehydrogenation of light alkanes.	0
69	Localization of the Optical Phonon Modes in Boron Nitride Nanotubes: Mixing Effect of ¹⁰ B Isotopes and Vacancies.	
68	Improvement of thermal conductivity in carbon doped BNNTs by electric field. <i>Journal of Molecular Graphics and Modelling</i> , 2022 , 116, 108259	2.8 0
67	Molecular Dynamics Simulation of Carbon and Boron Nitride nanotubes: Tensile and Compressive Behavior. 2022 , 1248, 012101	
66	Mechanical characterization of electrospun boron nitride nanotube-reinforced polymer nanocomposite microfibers.	1

65	Synthesis of boron nitride nanotubes in thermal plasma with continuous injection of boron under atmospheric pressure.	0
64	Boron nitride nanotubes: A review of recent progress on purification methods and techniques.	1
63	Recent Progress in Fabrication and Application of BN Nanostructures and BN-Based Nanohybrids. 2022 , 12, 2810	3
62	Engineering the thermodynamic properties of Carbon doped Boron Nitride Nanotubes by impurity concentration and electric field. 2022 ,	
61	Extreme Thermal Stability and Dissociation Mechanisms of Purified Boron Nitride Nanotubes: Implications for High-Temperature Nanocomposites.	0
60	Electron microscopy study of BNNTs synthesized by high temperature pressure method and purified by high-temperature steam.	0
59	Dispersion and individualization of boron nitride nanotubes.	0
58	Recent progress of sub-1 nm nanomaterials: synthesis, polymer-analogue properties and applications in redox catalysis.	0
57	A DFT approach to the adsorption of the Levodopa anti-neurodegenerative drug on pristine and Al-doped boron nitride nanotubes as a drug delivery vehicle.	0
56	Chemical bonding between thorium and novel BN nanomaterials. 2022 , 132, 124302	0
55	Mechanical response of polymer/BN composites investigated by molecular dynamics method.	0
54	An Overview of Basis Set Effects for Diatomic Boron Nitride Compounds (B ₂ N _(?,0)): A Quantum Symmetry Breaking. 2022 , 4, 338-350	0
53	Theory of Borazine-Derived Nanothreads: Enumeration, Reaction Pathways, and Piezoelectricity.	0
52	Controlled ultrasonication for covalent functionalization of boron nitride nanotubes.	0
51	Tribological and neutron radiation properties of boron nitride nanotubes reinforced titanium composites under lunar environment.	2
50	Alpha (assumed rotations and shear strains for spatially isotropic polygonal Reissner-Mindlin plate elements (ARS-Poly). 2022 , 106900	0
49	Topological and Quantum Stability of Low-Dimensional Crystalline Lattices with Multiple Nonequivalent Sublattices.	2
48	Energetics of C ₈ B ₈ N ₈ , N ₁₂ B ₁₂ , and C ₂₄ Macrocycles and Two [4]Catenanes. 2022 , 2, 781-797	0

- 47 Encapsulation of the Graphene Nanoribbon Precursor 1,2,4-trichlorobenzene in Boron Nitride Nanotubes at Room Temperature. ○
- 46 Synthesis of vertically aligned boron nitride nanotubes with a template of single-walled carbon nanotubes. ○
- 45 Interdependent effects of surface and flexoelectricity on the electromechanical behavior of BNRC nanoplate. **2022**, 104483 ○
- 44 Prediction of the electronic structure of single-walled GeS nanotubes. **2022**, 12, 29291-29299 ○
- 43 A molecular modeling on the potential application of beryllium oxide nanotube for delivery of hydroxyurea anticancer drug. **2022**, 28, ○
- 42 The rise of boron nitride nanotubes for applications in energy harvesting, nanoelectronics, quantum materials, and biomedicine. ○
- 41 Functionalized boron nitride nanotubes: First-principles calculations. **2022**, 155358 ○
- 40 Interaction of boron nitride nanotubes with human embryonic kidney and monocytic cells: In vitro analysis. **2022**, 33, 104694 ○
- 39 Ferroelectricity and nanotube-induced synthesis of one-dimensional group-IV monochalcogenide nanowires. **2023**, 608, 155160 ○
- 38 Engineering Nanostructured Interfaces of Hexagonal Boron Nitride-Based Materials for Enhanced Catalysis. 1
- 37 Quantum DFT methods to explore the interaction of 1-Adamantylamine with pristine, and P, As, Al, and Ga doped BN nanotubes. **2022**, 12, ○
- 36 Au, Ag and Cu Doped BNNT for ethylene oxide gas detection: A density functional theory study. **2023**, 350, 114109 ○
- 35 Axial and torsional free vibrations of restrained single-walled boron nitride nanotube (SWBNNT) embedded in an elastic medium via nonlocal strain gradient theory. 1-26 ○
- 34 Tunable Sensing and Transport Properties of Doped Hexagonal Boron Nitride Quantum Dots for Efficient Gas Sensors. **2022**, 12, 1684 ○
- 33 Defect Photoluminescence from Alkylated Boron Nitride Nanotubes. ○
- 32 Farklı Etim Yollarıyla Üretilen Nano Bor Nitrit Katkılı Alüminyum Malzemesinin Mekanik Özelliklerinin İncelenmesi. ○
- 31 Recent advances and perspective on boron nitride nanotubes: From synthesis to applications. **2022**, 37, 4403-4418 ○
- 30 Recent insights into BCN nanomaterials: Synthesis, properties and applications. ○

- 29 Recent Advances in Mechanically Transferable III-Nitride Based on 2D Buffer Strategy. 2209880 ○
- 28 Manufacturing of Stereolithographic 3D Printed Boron Nitride Nanotube-Reinforced Ceramic Composites with Improved Thermal and Mechanical Performance. ○
- 27 Self-Catalytic Ternary Compounds for Efficient Synthesis of High-Quality Boron Nitride Nanotubes. 2206933 ○
- 26 Growth of Boron Nitride Nanotube Over Al-Based Active Catalyst and its Application in Thermal Management. 2200282 ○
- 25 Insights on the enhanced hydrogen sulfide adsorption on X (X = Cr, Ni, Al, C, Si, O, S) doped boron nitride nanotubes. **2023**, 1220, 114005 ○
- 24 Electronic, mechanical, and optical properties of BP nanotubes: A first-principles study. **2023**, 34, e00785 ○
- 23 BeO nanotube as a promising material for anticancer drugs delivery system. 1-9 ○
- 22 Effect of Ambient Plasma Treatments on Thermal Conductivity and Fracture Toughness of Boron Nitride Nanosheets/Epoxy Nanocomposites. **2023**, 13, 138 ○
- 21 Carbon structures: Real and hypothetical. **2023**, ○
- 20 Scalable, Highly Pure, and Diameter-Sorted Boron Nitride Nanotube by Aqueous Polymer Two-Phase Extraction. 2201341 ○
- 19 Dispersion Enhancement of Boron Nitride Nanotubes in a Wide Range of Solvents Using Plant Polyphenol-Based Surface Modification. ○
- 18 Boron Nitride Nanotube for Sustainable Nanomaterial: A Bibliometric Analysis. **2023**, 953-967 ○
- 17 The influence of single carbon atom impurity on the electronic transport of (6, 3) two side-closed single-walled boron nitride nanotubes. **2023**, 29, ○
- 16 Second hyperpolarizabilities of alkali- and alkaline-earth-doped boron nitride nanotubes. **2023**, 821, 140473 ○
- 15 Thermal conductivity and interfacial thermal conductivity of complex boron nitride nanoribbons. **2023**, 46, 198-206 ○
- 14 Coupled Spin-Valley, Rashba Effect, and Hidden Spin Polarization in WSi₂N₄ Family. **2023**, 14, 1494-1503 1
- 13 Dynamic analysis of boron nitride nanotube using different boundary conditions under influence of vacancy defect: Insights from finite element method. **2023**, ○
- 12 Potential and Progress of 2D Materials in Photomedicine for Cancer Treatment. **2023**, 6, 365-383 ○

- 11 Defect-Induced Transport Enhancement in CarbonBoron NitrideCarbon Heteronanotube Junctions. **2023**, 14, 2056-2064 ○
- 10 Coaxial heterostructure formation of highly crystalline graphene flakes on boron nitride nanotubes by high-temperature chemical vapor deposition. **2023**, 16, 035001 ○
- 9 A Simple Method for the Synthesis of a Coral-like Boron Nitride Micro-/Nanostructure Catalyzed by Fe. **2023**, 13, 753 1
- 8 Ab initio study of structural properties and inter-wall distances of double-walled BN nanotubes. **2023**, 37, ○
- 7 Porous Boron Nitride Nanoarchitectonics for Environment: Adsorption in Water. **2023**, 33, 637-662 ○
- 6 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 ○
- 5 Synthesis of Oil Soluble Boron Esters and Obtaining Lubricant Additive Packages with Anti-wear and Extreme Pressure Properties. ○
- 4 Interfacial diffusion-limited vapor-liquid-solid mechanism for the growth of tadpole-shaped boron nitride nanostructures. ○
- 3 Piezoelectric and dielectric constants of topologically defected boron nitride nanotubes. ○
- 2 Investigating the thermoelectric properties of the (6, 6) two sided-closed single-walled boron nitride nanotubes ((6, 6) TSC-SWBNNTs) due to the impurity of a single carbon atom and temperature changes. **2023**, 108499 ○
- 1 Direct gas phase synthesis of high-purity black arsenic phosphorus with non-metallic mineralizer. **2023**, 956, 170256 ○