Andrei N Enyashin

List of Publications by Year in Descending Order

204 papers	4,320 citations	33 h-index	60 g-index
220 ext. papers	4,835 ext. citations	3.7 avg, IF	5.79 L-index

#	Paper	IF	Citations
204	Synthesis and Structure of Quasi-One-Dimensional Niobium Tetrasulfide NbS.. *Inorganic Chemistry*, **2022**,	5.1	1
203	Nanotubes from the Misfit Layered Compound (SmS)TaS: Atomic Structure, Charge Transfer, and Electrical Properties.. *Chemistry of Materials*, **2022**, 34, 1838-1853	9.6	2
202	Janus ZnS nanoparticles: Synthesis and photocatalytic properties. *Journal of Physics and Chemistry of Solids*, **2021**, 161, 110459	3.9	1
201	V2O3/C composite fabricated by carboxylic acid-assisted sol□gel synthesis as anode material for lithium-ion batteries. *Journal of Sol-Gel Science and Technology*, **2021**, 98, 549-558	2.3	2
200	First-principles study on the plutonium ions interaction with diamide molecules in acid solutions. *International Journal of Quantum Chemistry*, **2021**, 121, e26681	2.1	
199	Imogolite: Curvature-Induced Hospitality for Trivalent Dopants. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2100188	1.3	
198	Thermal and kinetic studies of sulfur-rich molybdenum and tungsten polysulfides. *Journal of Alloys and Compounds*, **2021**, 851, 156705	5.7	3
197	Plutonium complexes in water: new approach to ab initio modeling. *Radiochimica Acta*, **2021**, 109, 327-342	1.9	1
196	Asymmetric misfit nanotubes: Chemical affinity outwits the entropy at high-temperature solid-state reactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
195	Phase equilibrium within the composites of the cadmium sulfide nanoparticles and a silicate glass: An atomistic view. *Computational Materials Science*, **2021**, 199, 110726	3.2	
194	Structural and spectroscopic characterization of a new series of BaREGeO (RE = Pr, Nd, Gd, and Dy) and BaGdEuGeO tetragermanates. *Dalton Transactions*, **2021**, 50, 10935-10946	4.3	
193	Quaternary LnxLa(1-x)S-TaS2 nanotubes (Ln=Pr, Sm, Ho, and Yb) as a vehicle for improving the yield of misfit nanotubes. *Applied Materials Today*, **2020**, 19, 100581	6.6	4
192	YS-TaS and YLaS-TaS (0 □□1) Nanotubes: A Family of Misfit Layered Compounds. *ACS Nano*, **2020**, 14, 5445-5458	16.7	7
191	Intrinsic defects and their influence on optical properties of ALa9(GeO4)6O2 (A□= Li, Na, K, Rb, Cs) oxyapatites prepared by spray pyrolysis. *Journal of Alloys and Compounds*, **2020**, 839, 155609	5.7	1
190	Nanostructured Pb(S, O) Films: Synthesis, Mechanism of Deposition, and Optical Properties. *Russian Journal of Physical Chemistry A*, **2020**, 94, 2421-2427	0.7	0
189	Ni□WSe2 nanostructures as efficient catalysts for electrochemical hydrogen evolution reaction (HER) in acidic and alkaline media. *Journal of Materials Chemistry A*, **2020**, 8, 1403-1416	13	43
188	Synthesis, spectroscopic and luminescence properties of Ga-doped □AlO. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 227, 117658	4.4	6

187	Structural and chemical mechanism underlying formation of Zn2SiO4:Mn crystalline phosphor properties. *Journal of Alloys and Compounds*, **2020**, 820, 153129	5.7	6
186	Local environment of CdS nanoparticles incorporated into anatase/brookite matrix via sol-gel route: HRTEM, Raman spectroscopy and MD simulation. *Materials Today Communications*, **2020**, 25, 101465	2.5	2
185	Crystal structure, luminescence properties and thermal stability of BaY2xEuxGe3O10 phosphors with high colour purity for blue-excited pc-LEDs. *New Journal of Chemistry*, **2020**, 44, 16400-16411	3.6	5
184	New phase within the SrO–R2O3–GeO2 (R = Dy–Lu) systems: Synthesis and quantum-chemical modeling. *Journal of Physics and Chemistry of Solids*, **2020**, 138, 109241	3.9	
183	Photolysis of polychlorobiphenyls in the presence of nanocrystalline TiO2 and CdS/TiO2. *Reaction Kinetics, Mechanisms and Catalysis*, **2019**, 126, 1115-1134	1.6	3
182	Theoretical and experimental comparative study of the stability and phase transformations of sesquichalcogenides MQ (M = Nb, Mo; Q = S, Se). *Physical Chemistry Chemical Physics*, **2019**, 21, 1454-1463	3.6	8
181	Low-Temperature Sol–Gel Synthesis and Photoactivity of Nanocrystalline TiO2 with the Anatase/Brookite Structure and an Amorphous Component. *Kinetics and Catalysis*, **2019**, 60, 325-336	1.5	5
180	Synthesis and characterization of quaternary La(Sr)S-TaS misfit-layered nanotubes. *Beilstein Journal of Nanotechnology*, **2019**, 10, 1112-1124	3	4
179	Study of structural, spectroscopic and photo-oxidation properties of in-situ synthesized Sc-doped titania. *Journal of Molecular Liquids*, **2019**, 284, 29-38	6	1
178	Ion sensor activity of MoO3 prepared using microwave-assisted hydrothermal synthesis. *Journal of Electroanalytical Chemistry*, **2019**, 840, 187-192	4.1	5
177	Understanding the formation thermodynamics of fresnoitic trivanadates: DFT calculations and soft base hydrolysis synthesis. *Journal of Physics and Chemistry of Solids*, **2019**, 124, 7-12	3.9	
176	Revealing the Flexible 1D Primary and Globular Secondary Structures of Sulfur-Rich Amorphous Transition Metal Polysulfides. *ChemNanoMat*, **2019**, 5, 1488-1497	3.5	4
175	Electrochemical Oxidative Aromatizationof 9-Substituted 9,10-Dihydroacridines: Cleavage of CH vs CX Bond. *Chemistry of Heterocyclic Compounds*, **2019**, 55, 956-963	1.4	3
174	Structural, electronic, and optical studies of BaRE2Ge3O10 (RE = Y, Sc, Gd–Lu) germanates with a special focus on the [Ge3O10]8– geometry. *CrystEngComm*, **2019**, 21, 6491-6502	3.3	7
173	Effect of Ru Doping on the Properties of MoSe2 Nanoflowers. *Journal of Physical Chemistry C*, **2019**, 123, 1987-1994	3.8	36
172	Synthesis, crystal structure and optical properties of Me(OH)(HCOO)2 (Me = Al, Ga). *CrystEngComm*, **2018**, 20, 2741-2748	3.3	6
171	Structure, magnetic and optical properties of Sr3RE2(Ge3O9)2 cyclogermanates (RE = La–Gd). *CrystEngComm*, **2018**, 20, 2404-2412	3.3	4
170	Sensitized IR luminescence in Ca3Y2Ge3O12: Nd3+, Ho3+ under 808 nm laser excitation. *Ceramics International*, **2018**, 44, 6959-6967	5.1	13

169	Nitrogen-doped ZnS nanoparticles: Soft-chemical synthesis, EPR statement and quantum-chemical characterization. *Materials Chemistry and Physics*, **2018**, 215, 176-182	4.4	5
168	Stability and electronic properties of oxygen-doped ZnS polytypes: DFTB study. *Chemical Physics*, **2018**, 510, 70-76	2.3	1
167	Metal cations doped vanadium oxide nanotubes: Synthesis, electronic structure, and gas sensing properties. *Sensors and Actuators B: Chemical*, **2018**, 256, 1021-1029	8.5	14
166	Concentration growth of luminescence intensity of phosphor Zn2-2xMn2xSiO4 (□0.13): Crystal-chemical and quantum-mechanical justification. *Materials Research Bulletin*, **2018**, 97, 182-188	5.1	13
165	Single Walled BiI Nanotubes Encapsulated within Carbon Nanotubes. *Scientific Reports*, **2018**, 8, 10133	4.9	6
164	XPS experimental and DFT investigations on solid solutions of MoReS (0 Nanoscale, **2018**, 10, 10232-10240	7.9	17
163	Titanium Dichalcogenides as Nanoreactors for Magnetic High-Anisotropy Phases. *Journal of Physical Chemistry Letters*, **2018**, 9, 5183-5188	6.4	0
162	Polymorphism and properties of ammonium scandium sulfate (NH4)3Sc(SO4)3: new intermediate compound in scandium production. *CrystEngComm*, **2018**, 20, 3772-3783	3.3	3
161	Capillary filling of carbon nanotubes by BiCl3: TEM and MD insight. *Nanosystems: Physics, Chemistry, Mathematics*, **2018**, 521-531	1.8	2
160	Size dependent content of structural vacancies within TiO nanoparticles: Quantum-chemical DFTB study. *Superlattices and Microstructures*, **2018**, 113, 459-465	2.8	7
159	An Xps Study of Solid Solutions Mo1□NbxS2 (0 Journal of Structural Chemistry, **2018**, 59, 1833-1840	0.9	
158	Morphological Phase Diagram of Gadolinium Iodide Encapsulated in Carbon Nanotubes. *Journal of Physical Chemistry C*, **2018**, 122, 24967-24976	3.8	4
157	Nd,Ho-Codoped apatite-related NaLa(GeO)O phosphors for the near- and middle-infrared region. *Dalton Transactions*, **2018**, 47, 14041-14051	4.3	5
156	Cu2□SnMoS2 Nano-Octahedra at the Atomic Scale: Using a Template To Activate the Basal Plane of MoS2 for Hydrogen Production. *Chemistry of Materials*, **2018**, 30, 4489-4492	9.6	34
155	Facile, rapid and efficient doping of amorphous TiO2 by pre-synthesized colloidal CdS quantum dots. *Journal of Alloys and Compounds*, **2017**, 706, 205-214	5.7	9
154	Quantum-chemical study of structural and electronic properties of a new tin monosulfide polymorph □SnS. *Doklady Physical Chemistry*, **2017**, 472, 23-26	0.8	1
153	A DFT study and experimental evidence of the sonication-induced cleavage of molybdenum sulfide Mo2S3 in liquids. *Journal of Materials Chemistry C*, **2017**, 5, 6601-6610	7.1	10
152	Structure and Stability of GaS Fullerenes and Nanotubes. *Israel Journal of Chemistry*, **2017**, 57, 529-539	3.4	3

151	Electronic structure and optical properties of ALa9-xEux(GeO4)6O2 (A = Li, Na, K, Rb, Cs, La1/3; x = 0, 0.07). *Journal of Alloys and Compounds*, **2017**, 727, 390-397	5.7	4
150	Synthesis and crystal structure of 3R and 1T? polytypes of NH4Sc(SO4)2. *Journal of Solid State Chemistry*, **2017**, 255, 50-60	3.3	4
149	Quantum-chemical study of titanium monoxide nanoparticles with structural vacancies. *Doklady Physical Chemistry*, **2017**, 473, 71-74	0.8	
148	Structural, electronic properties of microscale (NH4)2V3O8 fabricated using a novel preparation method. *Journal of Physics and Chemistry of Solids*, **2017**, 101, 58-64	3.9	6
147	Capillary Imbibition of Gadolinium Halides into WS2 Nanotubes: a Molecular Dynamics View. *Israel Journal of Chemistry*, **2017**, 57, 501-508	3.4	0
146	Structure and optical properties of KLa9(GeO4)6O2 and KLa8.37Eu0.63(GeO4)6O2. *Chemical Physics Letters*, **2017**, 667, 9-14	2.5	6
145	Diameter-dependent wetting of tungsten disulfide nanotubes. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13624-13629	11.5	9
144	Quantum-chemical study of quasi-one-dimensional vanadium and niobium sulfides with Peierls distortion. *Journal of Structural Chemistry*, **2016**, 57, 1505-1512	0.9	8
143	Electronic structure and formation energies of nonstoichiometric dichalcogenides M x X2 y (M = Nb, Mo, W; X = Se, Te). *Journal of Structural Chemistry*, **2016**, 57, 281-286	0.9	1
142	Structural and chemical analysis of gadolinium halides encapsulated within WS2 nanotubes. *Nanoscale*, **2016**, 8, 12170-81	7.7	6
141	Molecular dynamics simulations of defect formation in thin graphite films using the density functional tight-binding method. *Journal of Structural Chemistry*, **2016**, 57, 808-811	0.9	2
140	A new polymorph of NH4V3O7: Synthesis, structure, magnetic and electrochemical properties. *Solid State Sciences*, **2016**, 61, 225-231	3.4	2
139	Relative stability, electronic and structural properties in the family of NH4V3O7 polymorphs from first principles calculations. *Computational and Theoretical Chemistry*, **2015**, 1070, 9-13	2	
138	Solar Synthesis of PbS-SnS2 Superstructure Nanoparticles. *ACS Nano*, **2015**, 9, 7831-9	16.7	17
137	Optical Properties of Triangular Molybdenum Disulfide Nanoflakes. *Journal of Physical Chemistry Letters*, **2014**, 5, 3636-40	6.4	26
136	Atomic-scale evolution of a growing core-shell nanoparticle. *Journal of the American Chemical Society*, **2014**, 136, 12564-7	16.4	14
135	Structural and electronic properties of new 1D and 2D carbon allotropes with mixed sp1 □sp3 hybridization types. *Chemical Physics Letters*, **2014**, 609, 15-20	2.5	2
134	The Role of Lead (Pb) in the High Temperature Formation of MoS2 Nanotubes. *Inorganics*, **2014**, 2, 363-376	2.9	5

133	On the capabilities of the x-ray diffraction method in determining polytypes in nanostructured layered metal disulfides. *Journal of Structural Chemistry*, **2013**, 54, 388-395	0.9	4
132	Fluorographynes: Stability, structural and electronic properties. *Superlattices and Microstructures*, **2013**, 55, 75-82	2.8	21
131	Structural, electronic, and elastic properties of Y-diamonds and their BN analogues. *Diamond and Related Materials*, **2013**, 38, 93-100	3.5	1
130	Structural, electronic, mechanical, and magnetic properties and relative stability of polymorphic modifications of ReN2 from Ab initio calculation data. *Physics of the Solid State*, **2013**, 55, 1821-1825	0.8	3
129	Layers and tubes of fluorographene C4F: Stability, structural and electronic properties from DFTB calculations. *Chemical Physics Letters*, **2013**, 576, 44-48	2.5	11
128	Two-dimensional titanium carbonitrides and their hydroxylated derivatives: Structural, electronic properties and stability of MXenes Ti3C2NNx(OH)2 from DFTB calculations. *Journal of Solid State Chemistry*, **2013**, 207, 42-48	3.3	103
127	Line Defects in Molybdenum Disulfide Layers. *Journal of Physical Chemistry C*, **2013**, 117, 10842-10848	3.8	105
126	Structural and Electronic Properties and Stability of MXenes Ti2C and Ti3C2 Functionalized by Methoxy Groups. *Journal of Physical Chemistry C*, **2013**, 117, 13637-13643	3.8	153
125	Defect-induced conductivity anisotropy in MoS2 monolayers. *Physical Review B*, **2013**, 88,	3.3	126
124	Graphene-like transition-metal nanocarbides and nanonitrides. *Russian Chemical Reviews*, **2013**, 82, 735-746	6.6	60
123	Stability and structural, elastic, and electronic properties of 3D-(sp 3) carbon allotropes according to DFTB calculations. *Doklady Physical Chemistry*, **2012**, 442, 1-4	0.8	5
122	Controlled doping of MS2 (M=W, Mo) nanotubes and fullerene-like nanoparticles. *Angewandte Chemie - International Edition*, **2012**, 51, 1148-51	16.4	67
121	Fluorinated derivatives of sp2 graphene allotropes: Structure, stability, and electronic properties. *Chemical Physics Letters*, **2012**, 545, 78-82	2.5	15
120	Investigation of Rhenium-Doped MoS2 Nanoparticles with Fullerene-Like Structure. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2012**, 638, 2610-2616	1.3	19
119	On the crystallization of polymer composites with inorganic fullerene-like particles. *Physical Chemistry Chemical Physics*, **2012**, 14, 7104-11	3.6	4
118	Atomic structure, comparative stability and electronic properties of hydroxylated Ti2C and Ti3C2 nanotubes. *Computational and Theoretical Chemistry*, **2012**, 989, 27-32	2	120
117	Diffraction from Disordered Stacking Sequences in MoS2and WS2Fullerenes and Nanotubes. *Journal of Physical Chemistry C*, **2012**, 116, 24350-24357	3.8	40
116	Density-functional study of LixMoS2 intercalates (0 ? x ? 1). *Computational and Theoretical Chemistry* , **2012**, 999, 13-20	2	101

115	Atomic structure, stability and electronic properties of fluorinated diamond-like carbon nanolayers. *Theoretical and Experimental Chemistry*, **2012**, 48, 327-330	1.3	1
114	Transport properties of MoS2 nanoribbons: edge priority. *European Physical Journal B*, **2012**, 85, 1	1.2	53
113	Do cement nanotubes exist?. *Advanced Materials*, **2012**, 24, 3239-45	24	37
112	Controlled Doping of MS2 (M=W, Mo) Nanotubes and Fullerene-like Nanoparticles. *Angewandte Chemie*, **2012**, 124, 1174-1177	3.6	2
111	New Route for Stabilization of 1T-WS2 and MoS2 Phases. *Journal of Physical Chemistry C*, **2011**, 115, 24586-24591	4.8	302
110	Nanotubes of layered iron-based superconductors: Simulations of atomic structure and electronic properties. *Computational Materials Science*, **2011**, 50, 824-827	3.2	3
109	Composition, stability, and elastic moduli of higher allotropes of boron (□B and tII-B) according to SCC-DFTB calculations. *Doklady Physical Chemistry*, **2011**, 438, 118-121	0.8	
108	Modeling of the electronic structure, chemical bonding, and properties of ternary silicon carbide Ti3SiC2. *Journal of Structural Chemistry*, **2011**, 52, 785-802	0.9	47
107	Structural, elastic, and electronic properties of icosahedral boron subcarbides (B12C3, B13C2), subnitride B12N2, and suboxide B12O2 from data of SCC-DFTB calculations. *Physics of the Solid State*, **2011**, 53, 1569-1574	0.8	9
106	3D Polymorphs of boron nitride: SCC-DFTB modeling of the stability and structural, elastic, and electronic characteristics. *Theoretical and Experimental Chemistry*, **2011**, 47, 155-158	1.3	3
105	Graphene allotropes. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 1879-1883	1.3	301
104	MoS2 Hybrid Nanostructures: From Octahedral to Quasi-Spherical Shells within Individual Nanoparticles. *Angewandte Chemie*, **2011**, 123, 1850-1854	3.6	8
103	Inside Cover: MoS2 Hybrid Nanostructures: From Octahedral to Quasi-Spherical Shells within Individual Nanoparticles (Angew. Chem. Int. Ed. 8/2011). *Angewandte Chemie - International Edition*, **2011**, 50, 1728-1728	16.4	
102	MoS2 hybrid nanostructures: from octahedral to quasi-spherical shells within individual nanoparticles. *Angewandte Chemie - International Edition*, **2011**, 50, 1810-4	16.4	56
101	Graphene-like BN allotropes: Structural and electronic properties from DFTB calculations. *Chemical Physics Letters*, **2011**, 509, 143-147	2.5	22
100	Radial compression studies of WS2 nanotubes in the elastic regimea). *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2011**, 29, 021009	1.3	17
99	Adsorption of nucleotides on the rutile (110) surface. *International Journal of Materials Research*, **2010**, 101, 758-764	0.5	18
98	Hollow V(2)O(5) nanoparticles (fullerene-like analogues) prepared by laser ablation. *Journal of the American Chemical Society*, **2010**, 132, 11214-22	16.4	43

97	Magnetic properties of NiCl2 nanostructures. *Computational Materials Science*, **2010**, 49, 782-786	3.2	2
96	Stability and Electronic Properties of Bismuth Nanotubes. *Journal of Physical Chemistry C*, **2010**, 114, 22092-22097	3.8	27
95	Structural, Electronic, and Mechanical Properties of Single-Walled Halloysite Nanotube Models. *Journal of Physical Chemistry C*, **2010**, 114, 11358-11363	3.8	196
94	Theoretical Studies of Inorganic Fullerenes and Fullerene-Like Nanoparticles. *Israel Journal of Chemistry*, **2010**, 50, 468-483	3.4	6
93	Molecular-dynamics simulations of capillary imbibition of KI melt into MoS2 nanotubes. *Chemical Physics Letters*, **2010**, 501, 98-102	2.5	4
92	Atomic Defects on the Surface of Quasi Two-Dimensional Layered Titanium Dichalcogenides: Stm Experiment and Quantum Chemical Simulation. *Journal of Structural Chemistry*, **2010**, 51, 737-743	0.9	6
91	Modeling of the capillary filling of MoS2 nanotubes with titanium tetrachloride molecules. *Theoretical and Experimental Chemistry*, **2010**, 46, 203-207	1.3	2
90	One- and Two-Dimensional Inorganic Crystals inside Inorganic Nanotubes. *European Journal of Inorganic Chemistry*, **2010**, 2010, 4233-4243	2.3	12
89	Synthesis of Core–Shell Inorganic Nanotubes. *Advanced Functional Materials*, **2010**, 20, 2459-2468	15.6	48
88	Atomic and electronic structures and thermal stability of boron-nitrogen nanopeapods: B12N12 fullerenes in BN nanotubes **2010**, 50, 390		
87	Quantum-chemical modelling of nanotubes of titanium silicocarbides Ti2SiC, Ti3SiC2, and Ti4SiC3. *Theoretical and Experimental Chemistry*, **2009**, 45, 98-102	1.3	2
86	Stability and electronic properties of rhenium sulfide nanotubes. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 114-118	1.3	5
85	Structural, cohesive and electronic properties of Ti5Si3 nanotubes. *Physica E: Low-Dimensional Systems and Nanostructures*, **2009**, 41, 1217-1221	3	4
84	Structural, cohesive and electronic properties of titanium oxycarbides (TiCxO1−x) nanowires and nanotubes: DFT modeling. *Chemical Physics*, **2009**, 362, 58-64	2.3	20
83	Structural, electronic and elastic properties of ultra-light diamond-like crystalline allotropes of carbon-functionalized fullerenes C28. *Chemical Physics Letters*, **2009**, 473, 108-110	2.5	5
82	Structural, electronic properties and stability of metatitanic acid (H2TiO3) nanotubes. *Chemical Physics Letters*, **2009**, 484, 44-47	2.5	5
81	Nanotubes of Polytitanic Acids H2TinO2n+1 (n = 2, 3, and 4): Structural and Electronic Properties. *Journal of Physical Chemistry C*, **2009**, 113, 20837-20840	3.8	17
80	Nanoseashells and Nanooctahedra of MoS2: Routes to Inorganic Fullerenes. *Chemistry of Materials*, **2009**, 21, 5627-5636	9.6	25

79	Capillary Imbibition of PbI2 Melt by Inorganic and Carbon Nanotubes. *Journal of Physical Chemistry C*, **2009**, 113, 13664-13669	3.8	22
78	Structural, elastic, and electronic properties of new superhard isotropic cubic crystals of carbon nanotubes. *JETP Letters*, **2008**, 87, 321-325	1.2	5
77	Prediction of atomic structure and electronic properties of Ti3SiC2 based nanotubes by DFTB theory. *Materials Letters*, **2008**, 62, 663-665	3.3	10
76	Nanolubrication: How Do MoS2-Based Nanostructures Lubricate?. *Journal of Physical Chemistry C*, **2008**, 112, 17764-17767	3.8	58
75	Atom by atom: HRTEM insights into inorganic nanotubes and fullerene-like structures. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 15643-8	11.5	66
74	Toward atomic-scale bright-field electron tomography for the study of fullerene-like nanostructures. *Nano Letters*, **2008**, 8, 891-6	11.5	60
73	Structural, electronic, cohesive, and elastic properties of diamondlike allotropes of crystalline C40. *Physical Review B*, **2008**, 77,	3.3	8
72	Simulation of structural, elastic, and electronic properties of new cubic crystals of carbon and BN nanotubes. *Journal of Structural Chemistry*, **2008**, 49, 994-1000	0.9	1
71	Theoretical prediction of Al(OH)3 nanotubes and their properties. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 41, 320-323	3	9
70	Fullerene-like Mo(W)(1-x)Re(x)S2 nanoparticles. *Chemistry - an Asian Journal*, **2008**, 3, 1568-74	4.5	30
69	Atomic and electronic structures and thermal stability of boron-nitrogen nanopeapods: B12N12 fullerenes in BN nanotubes. *Physics of the Solid State*, **2008**, 50, 390-396	0.8	4
68	Titanium oxide fullerenes: electronic structure and basic trends in their stability. *Physical Chemistry Chemical Physics*, **2007**, 9, 5772-5	3.6	6
67	Magnetization of carbon-doped MgO nanotubes. *Physical Review B*, **2007**, 75,	3.3	32
66	Metal-organic frameworks: structural, energetic, electronic, and mechanical properties. *Journal of Physical Chemistry B*, **2007**, 111, 8179-86	3.4	136
65	Imogolite nanotubes: stability, electronic, and mechanical properties. *ACS Nano*, **2007**, 1, 362-8	16.7	148
64	Structure and stability of molybdenum sulfide fullerenes. *Angewandte Chemie - International Edition* , **2007**, 46, 623-7	16.4	81
63	Structural, thermal properties and stability of monolithic and hollow MgO nanocubes: Atomistic simulation. *Computational and Theoretical Chemistry*, **2007**, 822, 28-32		8
62	Functionalization of carbon nanotubes by covalently bonded graphite nanoplatelets: a theoretical study. *Mendeleev Communications*, **2007**, 17, 199-201	1.9	2

61	TiSi2 nanostructures enhanced conductivity at nanoscale?. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 3593-3600	1.3	8
60	New self-intercalated C28, Ti@C28, and Zn@C28 hyperdiamonds: Crystal structure and elastic and electronic properties. *JETP Letters*, **2007**, 86, 537-542	1.2	8
59	Atomic defects of the walls and the electronic structure of molybdenum disulfide nanotubes. *Semiconductors*, **2007**, 41, 81-86	0.7	6
58	Atomic and electronic structures and stability of icosahedral nanodiamonds and onions. *Physics of the Solid State*, **2007**, 49, 392-397	0.8	12
57	Simulation of Inorganic Nanotubes. *Springer Series in Materials Science*, **2007**, 33-57	0.9	21
56	DNA-wrapped carbon nanotubes. *Nanotechnology*, **2007**, 18, 245702	3.4	79
55	Nanosized allotropes of molybdenum disulfide. *European Physical Journal: Special Topics*, **2007**, 149, 103-125	2.3	56
54	The mechanically induced tuning of structural properties for MgO tubes under uniaxial tension, torsion and bending: computer molecular modelling. *Nanotechnology*, **2007**, 18, 205707	3.4	2
53	Bending of MgO tubes: Mechanically induced hexagonal phase of magnesium oxide. *Physical Review B*, **2007**, 75,	3.3	11
52	Ab initio study of dititanium endofullerenes: D5d- and D5h-Ti2@C80. *Computational Materials Science*, **2006**, 36, 26-29	3.2	8
51	New nanotubes of metal oxycarbides: Modeling of carbothermal reduction of TiO2 nanotubes. *Doklady Physical Chemistry*, **2006**, 407, 57-61	0.8	5
50	Deformation mechanisms for carbon and boron nitride nanotubes. *Inorganic Materials*, **2006**, 42, 1336-1341	0.9	8
49	Theoretical study of the structure and electronic properties of TiO nanotubes and nanowires. *Computational and Theoretical Chemistry*, **2006**, 766, 15-18		9
48	Structure and stability of molybdenum sulfide fullerenes. *Journal of Physical Chemistry B*, **2006**, 110, 25399-25410	3.4	56
47	C28 fullerites-structure, electronic properties and intercalates. *Physical Chemistry Chemical Physics*, **2006**, 8, 3320-5	3.6	27
46	Modeling of the atomic structure and thermal stability of titanium monoxide nanocrystals. *Russian Journal of Inorganic Chemistry*, **2006**, 51, 1302-1306	1.5	2
45	Atomic structure and electronic properties of nanopeapods: Isomers of endohedral dititanofullerenes Ti2@C80 in carbon nanotubes. *Russian Journal of Inorganic Chemistry*, **2006**, 51, 1483-1492	1.5	2
44	Nonempirical calculations of the electronic properties of new boron nitride graphyne-like nanotubes. *Russian Journal of Physical Chemistry A*, **2006**, 80, 372-379	0.7	10

43	Electronic, energy, and thermal properties of the MBius strip and related ring nanostructures of NbS3. *Physics of the Solid State*, **2006**, 48, 780-785	0.8	3
42	Simulation of the structural and thermal properties of tubular nanocrystallites of magnesium oxide. *Physics of the Solid State*, **2006**, 48, 801-805	0.8	6
41	Stability and electronic properties of single-walled AlO(OH) nanotubes. *Mendeleev Communications*, **2006**, 16, 292-294	1.9	8
40	Electronic structure of extended titanium carbide nanocrystallites. *Journal of Structural Chemistry*, **2006**, 47, 549-552	0.9	4
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