

Andrei N Enyashin

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204
papers

4,320
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60
g-index

220
ext. papers

4,835
ext. citations

3.7
avg, IF

5.79
L-index

#	Paper	IF	Citations
204	New Route for Stabilization of 1T-WS ₂ and MoS ₂ Phases. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24586-24596	3.8	24596
203	Graphene allotropes. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 1879-1883	1.3	301
202	Structural, Electronic, and Mechanical Properties of Single-Walled Halloysite Nanotube Models. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11358-11363	3.8	196
201	Structural and Electronic Properties and Stability of MXenes Ti ₂ C and Ti ₃ C ₂ Functionalized by Methoxy Groups. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13637-13643	3.8	153
200	Imogolite nanotubes: stability, electronic, and mechanical properties. <i>ACS Nano</i> , 2007 , 1, 362-8	16.7	148
199	Metal-organic frameworks: structural, energetic, electronic, and mechanical properties. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8179-86	3.4	136
198	Defect-induced conductivity anisotropy in MoS ₂ monolayers. <i>Physical Review B</i> , 2013 , 88,	3.3	126
197	Atomic structure, comparative stability and electronic properties of hydroxylated Ti ₂ C and Ti ₃ C ₂ nanotubes. <i>Computational and Theoretical Chemistry</i> , 2012 , 989, 27-32	2	120
196	Structure, stability and electronic properties of TiO ₂ nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 1361-1370	1.3	112
195	Line Defects in Molybdenum Disulfide Layers. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10842-10848	3.8	105
194	Two-dimensional titanium carbonitrides and their hydroxylated derivatives: Structural, electronic properties and stability of MXenes Ti ₃ C ₂ N _x (OH) ₂ from DFTB calculations. <i>Journal of Solid State Chemistry</i> , 2013 , 207, 42-48	3.3	103
193	Density-functional study of Li _x MoS ₂ intercalates (0 < x < 1). <i>Computational and Theoretical Chemistry</i> , 2012 , 999, 13-20	2	101
192	Structure and stability of molybdenum sulfide fullerenes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 623-7	16.4	81
191	DNA-wrapped carbon nanotubes. <i>Nanotechnology</i> , 2007 , 18, 245702	3.4	79
190	Controlled doping of MS ₂ (M=W, Mo) nanotubes and fullerene-like nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1148-51	16.4	67
189	Atom by atom: HRTEM insights into inorganic nanotubes and fullerene-like structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15643-8	11.5	66
188	Graphene-like transition-metal nanocarbides and nanonitrides. <i>Russian Chemical Reviews</i> , 2013 , 82, 735-746	7.46	60

187	Toward atomic-scale bright-field electron tomography for the study of fullerene-like nanostructures. <i>Nano Letters</i> , 2008 , 8, 891-6	11.5	60
186	Nanolubrication: How Do MoS ₂ -Based Nanostructures Lubricate?. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17764-17767	3.8	58
185	MoS ₂ hybrid nanostructures: from octahedral to quasi-spherical shells within individual nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1810-4	16.4	56
184	Nanosized allotropes of molybdenum disulfide. <i>European Physical Journal: Special Topics</i> , 2007 , 149, 103-115	13.5	56
183	Structure and stability of molybdenum sulfide fullerenes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25394-41056	9.4	56
182	Transport properties of MoS ₂ nanoribbons: edge priority. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	53
181	Synthesis of Core-shell Inorganic Nanotubes. <i>Advanced Functional Materials</i> , 2010 , 20, 2459-2468	15.6	48
180	Modeling of the electronic structure, chemical bonding, and properties of ternary silicon carbide Ti ₃ SiC ₂ . <i>Journal of Structural Chemistry</i> , 2011 , 52, 785-802	0.9	47
179	Hollow V ₂ O ₅ nanoparticles (fullerene-like analogues) prepared by laser ablation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11214-22	16.4	43
178	Ni ₂ Se ₂ nanostructures as efficient catalysts for electrochemical hydrogen evolution reaction (HER) in acidic and alkaline media. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1403-1416	13	43
177	Diffraction from Disordered Stacking Sequences in MoS ₂ and WS ₂ Fullerenes and Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24350-24357	3.8	40
176	Electronic properties of single-walled V ₂ O ₅ nanotubes. <i>Solid State Communications</i> , 2003 , 126, 489-493	1.6	39
175	Do cement nanotubes exist?. <i>Advanced Materials</i> , 2012 , 24, 3239-45	24	37
174	Quantum chemical study of the electronic structure of new nanotubular systems: Graphyne-like carbon, boron-nitrogen and boron-carbon-nitrogen nanotubes. <i>Carbon</i> , 2004 , 42, 2081-2089	10.4	37
173	Effect of Ru Doping on the Properties of MoSe ₂ Nanoflowers. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1987-1994	3.8	36
172	Cu ₂ S/MoS ₂ Nano-Octahedra at the Atomic Scale: Using a Template To Activate the Basal Plane of MoS ₂ for Hydrogen Production. <i>Chemistry of Materials</i> , 2018 , 30, 4489-4492	9.6	34
171	Magnetization of carbon-doped MgO nanotubes. <i>Physical Review B</i> , 2007 , 75,	3.3	32
170	Fullerene-like Mo(W)(1-x)Re(x)S ₂ nanoparticles. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 1568-74	4.5	30

169	Hyperdiamond and hyperlonsdaleit: Possible crystalline phases of fullerene C ₂₈ . <i>Physical Review B</i> , 2005 , 72,	3.3	29
168	Mechanical and electronic properties of a C/BN nanocable under tensile deformation. <i>Nanotechnology</i> , 2005 , 16, 1304-1310	3.4	29
167	Electronic structure of single-walled TiO ₂ and VO ₂ nanotubes. <i>Mendeleev Communications</i> , 2003 , 13, 5-7	1.9	28
166	Stability and Electronic Properties of Bismuth Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22092-22097	3.8	27
165	C ₂₈ fullerenes-structure, electronic properties and intercalates. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3320-5	3.6	27
164	Optical Properties of Triangular Molybdenum Disulfide Nanoflakes. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3636-40	6.4	26
163	Nanoseashells and Nanooctahedra of MoS ₂ : Routes to Inorganic Fullerenes. <i>Chemistry of Materials</i> , 2009 , 21, 5627-5636	9.6	25
162	Capillary Imbibition of Pb ₂ Melt by Inorganic and Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13664-13669	3.8	22
161	Graphene-like BN allotropes: Structural and electronic properties from DFTB calculations. <i>Chemical Physics Letters</i> , 2011 , 509, 143-147	2.5	22
160	Fluorographynes: Stability, structural and electronic properties. <i>Superlattices and Microstructures</i> , 2013 , 55, 75-82	2.8	21
159	Simulation of Inorganic Nanotubes. <i>Springer Series in Materials Science</i> , 2007 , 33-57	0.9	21
158	Structural and electronic properties of new graphyne-based carbon fullerenes. <i>Computational and Theoretical Chemistry</i> , 2004 , 684, 29-33		21
157	Structural, cohesive and electronic properties of titanium oxycarbides (TiC _x O _{1-x}) nanowires and nanotubes: DFT modeling. <i>Chemical Physics</i> , 2009 , 362, 58-64	2.3	20
156	Structural and electronic properties of the TiC nanotubes: Density functional-based tight binding calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 30, 164-168	3	20
155	Investigation of Rhenium-Doped MoS ₂ Nanoparticles with Fullerene-Like Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012 , 638, 2610-2616	1.3	19
154	Electronic band structure of scroll-like divanadium pentoxide nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 326, 152-156	2.3	19
153	Adsorption of nucleotides on the rutile (110) surface. <i>International Journal of Materials Research</i> , 2010 , 101, 758-764	0.5	18
152	Solar Synthesis of PbS-SnS ₂ Superstructure Nanoparticles. <i>ACS Nano</i> , 2015 , 9, 7831-9	16.7	17

151	XPS experimental and DFT investigations on solid solutions of MoReS (0 Nanoscale, 2018 , 10, 10232-10240)	7.9	17
150	Nanotubes of Polytitanic Acids $H_2Ti_nO_{2n+1}$ ($n = 2, 3,$ and 4): Structural and Electronic Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20837-20840	3.8	17
149	Radial compression studies of WS ₂ nanotubes in the elastic regime). <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 021009	1.3	17
148	Electronic, structural, and thermal properties of a nanocable consisting of carbon and BN nanotubes. <i>JETP Letters</i> , 2004 , 80, 608-611	1.2	17
147	Fluorinated derivatives of sp ² graphene allotropes: Structure, stability, and electronic properties. <i>Chemical Physics Letters</i> , 2012 , 545, 78-82	2.5	15
146	Metal cations doped vanadium oxide nanotubes: Synthesis, electronic structure, and gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2018 , 256, 1021-1029	8.5	14
145	Atomic-scale evolution of a growing core-shell nanoparticle. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12564-7	16.4	14
144	Sensitized IR luminescence in Ca ₃ Y ₂ Ge ₃ O ₁₂ : Nd ³⁺ , Ho ³⁺ under 808 nm laser excitation. <i>Ceramics International</i> , 2018 , 44, 6959-6967	5.1	13
143	Concentration growth of luminescence intensity of phosphor Zn _{2-2x} Mn _{2x} SiO ₄ (III.13): Crystal-chemical and quantum-mechanical justification. <i>Materials Research Bulletin</i> , 2018 , 97, 182-188	5.1	13
142	Electronic properties of superconducting NbSe ₂ nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 238, R1-R4	1.3	13
141	One- and Two-Dimensional Inorganic Crystals inside Inorganic Nanotubes. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 4233-4243	2.3	12
140	Atomic and electronic structures and stability of icosahedral nanodiamonds and onions. <i>Physics of the Solid State</i> , 2007 , 49, 392-397	0.8	12
139	Electronic properties of Mo-doped cylindrical and scroll-like divanadium pentoxide nanotubes. <i>Chemical Physics Letters</i> , 2004 , 392, 555-560	2.5	12
138	Calculation of the Electronic and Thermal Properties of C/BN Nanotubular Heterostructures. <i>Inorganic Materials</i> , 2005 , 41, 595-603	0.9	12
137	Layers and tubes of fluorographene C ₄ F: Stability, structural and electronic properties from DFTB calculations. <i>Chemical Physics Letters</i> , 2013 , 576, 44-48	2.5	11
136	Bending of MgO tubes: Mechanically induced hexagonal phase of magnesium oxide. <i>Physical Review B</i> , 2007 , 75,	3.3	11
135	Modeling of the structure and electronic structure of condensed phases of small fullerenes C ₂₈ and Zn@C ₂₈ . <i>Physics of the Solid State</i> , 2004 , 46, 1569-1573	0.8	11
134	Structure, Electronic Spectrum, and Chemical Bonding of Fullerene-like Nanoparticles Based on MB ₂ (M = Mg, Al, Sc, Ti) Layered Diborides. <i>Inorganic Materials</i> , 2004 , 40, 134-143	0.9	11

133	A DFT study and experimental evidence of the sonication-induced cleavage of molybdenum sulfide Mo ₂ S ₃ in liquids. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6601-6610	7.1	10
132	Prediction of atomic structure and electronic properties of Ti ₃ SiC ₂ based nanotubes by DFTB theory. <i>Materials Letters</i> , 2008 , 62, 663-665	3.3	10
131	Nonempirical calculations of the electronic properties of new boron nitride graphyne-like nanotubes. <i>Russian Journal of Physical Chemistry A</i> , 2006 , 80, 372-379	0.7	10
130	Facile, rapid and efficient doping of amorphous TiO ₂ by pre-synthesized colloidal CdS quantum dots. <i>Journal of Alloys and Compounds</i> , 2017 , 706, 205-214	5.7	9
129	Diameter-dependent wetting of tungsten disulfide nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13624-13629	11.5	9
128	Structural, elastic, and electronic properties of icosahedral boron subcarbides (B ₁₂ C ₃ , B ₁₃ C ₂), subnitride B ₁₂ N ₂ , and suboxide B ₁₂ O ₂ from data of SCC-DFTB calculations. <i>Physics of the Solid State</i> , 2011 , 53, 1569-1574	0.8	9
127	Theoretical prediction of Al(OH) ₃ nanotubes and their properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 41, 320-323	3	9
126	Theoretical study of the structure and electronic properties of TiO nanotubes and nanowires. <i>Computational and Theoretical Chemistry</i> , 2006 , 766, 15-18		9
125	Electronic Structure of Fullerenelike Molecules Based on TiO ₂ , SnO ₂ , and SnS ₂ . <i>Journal of Structural Chemistry</i> , 2004 , 45, 151-155	0.9	9
124	Atomic and electronic structure of the orthoboric (H ₃ BO ₃) and metaboric (H ₃ B ₃ O ₆) acids nanotubes. <i>Chemical Physics Letters</i> , 2005 , 411, 186-191	2.5	9
123	Structural Defects and Electronic Properties of TiS ₂ Nanotubes. <i>Inorganic Materials</i> , 2005 , 41, 1118-1123	0.9	9
122	Theoretical and experimental comparative study of the stability and phase transformations of sesquichalcogenides MQ (M = Nb, Mo; Q = S, Se). <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1454-1463	3.6	8
121	MoS ₂ Hybrid Nanostructures: From Octahedral to Quasi-Spherical Shells within Individual Nanoparticles. <i>Angewandte Chemie</i> , 2011 , 123, 1850-1854	3.6	8
120	Structural, electronic, cohesive, and elastic properties of diamondlike allotropes of crystalline C ₄₀ . <i>Physical Review B</i> , 2008 , 77,	3.3	8
119	Structural, thermal properties and stability of monolithic and hollow MgO nanocubes: Atomistic simulation. <i>Computational and Theoretical Chemistry</i> , 2007 , 822, 28-32		8
118	TiSi ₂ nanostructures [enhanced conductivity at nanoscale?]. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 3593-3600	1.3	8
117	New self-intercalated C ₂₈ , Ti@C ₂₈ , and Zn@C ₂₈ hyperdiamonds: Crystal structure and elastic and electronic properties. <i>JETP Letters</i> , 2007 , 86, 537-542	1.2	8
116	Structural models and electronic properties of cage-like C ₃ N ₄ molecules. <i>Diamond and Related Materials</i> , 2005 , 14, 1-5	3.5	8

115	Ab initio study of dititanium endofullerenes: D5d- and D5h-Ti ₂ @C80. <i>Computational Materials Science</i> , 2006 , 36, 26-29	3.2	8
114	Deformation mechanisms for carbon and boron nitride nanotubes. <i>Inorganic Materials</i> , 2006 , 42, 1336-1344	3.4	8
113	Stability and electronic properties of single-walled AlO(OH) nanotubes. <i>Mendeleev Communications</i> , 2006 , 16, 292-294	1.9	8
112	Structure and Electronic Spectrum of Fullerene-like Nanoclusters Based on Mo, Nb, Zr, and Sn Disulfides. <i>Inorganic Materials</i> , 2004 , 40, 395-399	0.9	8
111	Quantum-chemical study of quasi-one-dimensional vanadium and niobium sulfides with Peierls distortion. <i>Journal of Structural Chemistry</i> , 2016 , 57, 1505-1512	0.9	8
110	YS-TaS and YLaS-TaS (0 001) Nanotubes: A Family of Misfit Layered Compounds. <i>ACS Nano</i> , 2020 , 14, 5445-5458	16.7	7
109	Luminescence of a Transparent Alumina Ceramic Doped with Chromium and Titanium. <i>Refractories and Industrial Ceramics</i> , 2003 , 44, 94-98	1.1	7
108	Structural, electronic, and optical studies of BaRE ₂ Ge ₃ O ₁₀ (RE = Y, Sc, Gd, Lu) germanates with a special focus on the [Ge ₃ O ₁₀] ⁸⁻ geometry. <i>CrystEngComm</i> , 2019 , 21, 6491-6502	3.3	7
107	Size dependent content of structural vacancies within TiO nanoparticles: Quantum-chemical DFTB study. <i>Superlattices and Microstructures</i> , 2018 , 113, 459-465	2.8	7
106	Synthesis, crystal structure and optical properties of Me(OH)(HCOO) ₂ (Me = Al, Ga). <i>CrystEngComm</i> , 2018 , 20, 2741-2748	3.3	6
105	Single Walled Bil Nanotubes Encapsulated within Carbon Nanotubes. <i>Scientific Reports</i> , 2018 , 8, 10133	4.9	6
104	Structural, electronic properties of microscale (NH ₄) ₂ V ₃ O ₈ fabricated using a novel preparation method. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 101, 58-64	3.9	6
103	Structure and optical properties of KLa ₉ (GeO ₄) ₆ O ₂ and KLa _{8.37} Eu _{0.63} (GeO ₄) ₆ O ₂ . <i>Chemical Physics Letters</i> , 2017 , 667, 9-14	2.5	6
102	Theoretical Studies of Inorganic Fullerenes and Fullerene-Like Nanoparticles. <i>Israel Journal of Chemistry</i> , 2010 , 50, 468-483	3.4	6
101	Atomic Defects on the Surface of Quasi Two-Dimensional Layered Titanium Dichalcogenides: Stm Experiment and Quantum Chemical Simulation. <i>Journal of Structural Chemistry</i> , 2010 , 51, 737-743	0.9	6
100	Titanium oxide fullerenes: electronic structure and basic trends in their stability. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 5772-5	3.6	6
99	Atomic defects of the walls and the electronic structure of molybdenum disulfide nanotubes. <i>Semiconductors</i> , 2007 , 41, 81-86	0.7	6
98	Simulation of the structural and thermal properties of tubular nanocrystallites of magnesium oxide. <i>Physics of the Solid State</i> , 2006 , 48, 801-805	0.8	6

97	Electronic properties and chemical bonding of single-walled MoO ₃ nanotubes. <i>Mendeleev Communications</i> , 2004 , 14, 94-95	1.9	6
96	Electronic Structure of New Graphyne-Like Boron Nitride Nanotubes. <i>Doklady Physical Chemistry</i> , 2004 , 395, 62-66	0.8	6
95	Electronic Structure of Doped Titanium Dioxide Nanotubes. <i>Doklady Physical Chemistry</i> , 2003 , 391, 187-198		6
94	Synthesis, spectroscopic and luminescence properties of Ga-doped α -AlO. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 227, 117658	4.4	6
93	Structural and chemical mechanism underlying formation of Zn ₂ SiO ₄ :Mn crystalline phosphor properties. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153129	5.7	6
92	Structural and chemical analysis of gadolinium halides encapsulated within WS ₂ nanotubes. <i>Nanoscale</i> , 2016 , 8, 12170-81	7.7	6
91	Low-Temperature Sol-Gel Synthesis and Photoactivity of Nanocrystalline TiO ₂ with the Anatase/Brookite Structure and an Amorphous Component. <i>Kinetics and Catalysis</i> , 2019 , 60, 325-336	1.5	5
90	Ion sensor activity of β -MoO ₃ prepared using microwave-assisted hydrothermal synthesis. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 840, 187-192	4.1	5
89	Nitrogen-doped ZnS nanoparticles: Soft-chemical synthesis, EPR statement and quantum-chemical characterization. <i>Materials Chemistry and Physics</i> , 2018 , 215, 176-182	4.4	5
88	Stability and structural, elastic, and electronic properties of 3D-(sp ³) carbon allotropes according to DFTB calculations. <i>Doklady Physical Chemistry</i> , 2012 , 442, 1-4	0.8	5
87	The Role of Lead (Pb) in the High Temperature Formation of MoS ₂ Nanotubes. <i>Inorganics</i> , 2014 , 2, 363-376		5
86	Stability and electronic properties of rhenium sulfide nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 114-118	1.3	5
85	Structural, electronic and elastic properties of ultra-light diamond-like crystalline allotropes of carbon-functionalized fullerenes C ₂₈ . <i>Chemical Physics Letters</i> , 2009 , 473, 108-110	2.5	5
84	Structural, electronic properties and stability of metatitanic acid (H ₂ TiO ₃) nanotubes. <i>Chemical Physics Letters</i> , 2009 , 484, 44-47	2.5	5
83	Structural, elastic, and electronic properties of new superhard isotropic cubic crystals of carbon nanotubes. <i>JETP Letters</i> , 2008 , 87, 321-325	1.2	5
82	New nanotubes of metal oxycarbides: Modeling of carbothermal reduction of TiO ₂ nanotubes. <i>Doklady Physical Chemistry</i> , 2006 , 407, 57-61	0.8	5
81	Electronic Structure of Nanotubes of Layered Modifications of Carbon Nitride C ₃ N ₄ . <i>Doklady Physical Chemistry</i> , 2004 , 398, 211-215	0.8	5
80	Structure and Electronic Characteristics of New Graphyne-Like Fullerenes of Boron Nitride: Quantum-Chemical Modelling. <i>Theoretical and Experimental Chemistry</i> , 2004 , 40, 71-76	1.3	5

79	Crystal structure, luminescence properties and thermal stability of BaY ₂ Eu _x Ge ₃ O ₁₀ phosphors with high colour purity for blue-excited pc-LEDs. <i>New Journal of Chemistry</i> , 2020 , 44, 16400-16411	3.6	5
78	Nd,Ho-Codoped apatite-related NaLa(GeO)O phosphors for the near- and middle-infrared region. <i>Dalton Transactions</i> , 2018 , 47, 14041-14051	4.3	5
77	Synthesis and characterization of quaternary La(Sr)S-TaS misfit-layered nanotubes. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1112-1124	3	4
76	Quaternary Ln _x La _(1-x) S-TaS ₂ nanotubes (Ln=Pr, Sm, Ho, and Yb) as a vehicle for improving the yield of misfit nanotubes. <i>Applied Materials Today</i> , 2020 , 19, 100581	6.6	4
75	Structure, magnetic and optical properties of Sr ₃ RE ₂ (Ge ₃ O ₉) ₂ cyclogermanates (RE = La, Nd). <i>CrystEngComm</i> , 2018 , 20, 2404-2412	3.3	4
74	Revealing the Flexible 1D Primary and Globular Secondary Structures of Sulfur-Rich Amorphous Transition Metal Polysulfides. <i>ChemNanoMat</i> , 2019 , 5, 1488-1497	3.5	4
73	On the capabilities of the x-ray diffraction method in determining polytypes in nanostructured layered metal disulfides. <i>Journal of Structural Chemistry</i> , 2013 , 54, 388-395	0.9	4
72	Electronic structure and optical properties of ALa _{9-x} Eu _x (GeO ₄) ₆ O ₂ (A = Li, Na, K, Rb, Cs, La ^{1/3} ; x = 0, 0.07). <i>Journal of Alloys and Compounds</i> , 2017 , 727, 390-397	5.7	4
71	Synthesis and crystal structure of 3R and 1T' polytypes of NH ₄ Sc(SO ₄) ₂ . <i>Journal of Solid State Chemistry</i> , 2017 , 255, 50-60	3.3	4
70	On the crystallization of polymer composites with inorganic fullerene-like particles. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 7104-11	3.6	4
69	Structural, cohesive and electronic properties of Ti ₅ Si ₃ nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 1217-1221	3	4
68	Molecular-dynamics simulations of capillary imbibition of KI melt into MoS ₂ nanotubes. <i>Chemical Physics Letters</i> , 2010 , 501, 98-102	2.5	4
67	Atomic and electronic structures and thermal stability of boron-nitrogen nanopeapods: B ₁₂ N ₁₂ fullerenes in BN nanotubes. <i>Physics of the Solid State</i> , 2008 , 50, 390-396	0.8	4
66	Electronic structure of extended titanium carbide nanocrystallites. <i>Journal of Structural Chemistry</i> , 2006 , 47, 549-552	0.9	4
65	Electronic band structure of ZrNCl-based nanotubes. <i>Chemical Physics Letters</i> , 2004 , 387, 85-90	2.5	4
64	Electronic Structure and Chemical Bonding in Crystalline and Nanosized Forms of Magnesium Diboride. <i>Doklady Physical Chemistry</i> , 2003 , 388, 43-47	0.8	4
63	Morphological Phase Diagram of Gadolinium Iodide Encapsulated in Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24967-24976	3.8	4
62	Asymmetric misfit nanotubes: Chemical affinity outwits the entropy at high-temperature solid-state reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4

61	Structure and Stability of GaS Fullerenes and Nanotubes. <i>Israel Journal of Chemistry</i> , 2017 , 57, 529-539	3.4	3
60	Photolysis of polychlorobiphenyls in the presence of nanocrystalline TiO ₂ and CdS/TiO ₂ . <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 126, 1115-1134	1.6	3
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