Andrei N Enyashin

List of Publications by Year
in descending order

212	5,319	117625	102487
papers	citations	34 h-index	66 g-index

220	220	220	7040
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Janus ZnS nanoparticles: Synthesis and photocatalytic properties. Journal of Physics and Chemistry of Solids, 2022, 161, 110459.	4.0	7
2	Synthesis and Structure of Quasi-One-Dimensional Niobium Tetrasulfide NbS₄. Inorganic Chemistry, 2022, 61, 2783-2789.	4.0	5
3	Nanotubes from the Misfit Layered Compound (SmS)_{1.19}TaS₂: Atomic Structure, Charge Transfer, and Electrical Properties. Chemistry of Materials, 2022, 34, 1838-1853.	6.7	5
4	W Doping in Ni₁₂P₅ as a Platform to Enhance Overall Electrochemical Water Splitting. ACS Applied Materials & Interfaces, 2022, 14, 581-589.	8.0	29
5	Co-crystallization of red emitting (NH₄)₃Sc(SO₄)₃:Eu³⁺ microfibers: structureâ€“luminescence relationship for promising application in optical thermometry. CrystEngComm, 2022, 24, 4819-4830.	2.6	4
6	Thermal and kinetic studies of sulfur-rich molybdenum and tungsten polysulfides. Journal of Alloys and Compounds, 2021, 851, 156705.	5.5	6
7	Plutonium complexes in water: new approach to ab initio modeling. Radiochimica Acta, 2021, 109, 327-342.	1.2	2
8	V2O3/C composite fabricated by carboxylic acid-assisted solâ€“gel synthesis as anode material for lithium-ion batteries. Journal of Sol-Gel Science and Technology, 2021, 98, 549-558.	2.4	7
9	Firstâ€principles study on the plutonium ions interaction with diamide molecules in acid solutions. International Journal of Quantum Chemistry, 2021, 121, e26681.	2.0	0
10	Imogolite: Curvatureâ€Induced Hospitality for Trivalent Dopants. Physica Status Solidi (B): Basic Research, 2021, 258, 2100188.	1.5	3
11	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, .	7.1	9
12	Phase equilibrium within the composites of the cadmium sulfide nanoparticles and a silicate glass: An atomistic view. Computational Materials Science, 2021, 199, 110726.	3.0	0
13	Structural and spectroscopic characterization of a new series of Ba₂RE₂Ge₄O₁₃ (RE = Pr, Nd, Gd, and Dy) and Ba₂Gd_{2â^'x}Eu_xGe₄O₁₃ tetragermanates. Dalton Transactions, 2021, 50, 10935-10946.	3.3	4
14	Surface Tension and Shear Strain Contributions to the Mechanical Behavior of Individual Mgâ€Niâ€Phyllosilicate Nanoscrolls. Particle and Particle Systems Characterization, 2021, 38, 2100153.	2.3	5
15	New phase within the SrOâ€“RÐ•2O3â€“GeO2 (RÐ• = Dyâ€“Lu) systems: Synthesis and quantum-chemical modeling. Journal of Physics and Chemistry of Solids, 2020, 138, 109241.	4.0	0
16	Niâ€“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.	10.3	102
17	Synthesis, spectroscopic and luminescence properties of Gaâ€“doped Î³â€“Al2O3. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117658.	3.9	10
18	Structural and chemical mechanism underlying formation of Zn2SiO4:Mn crystalline phosphor properties. Journal of Alloys and Compounds, 2020, 820, 153129.	5.5	16

#	Article	IF	Citations
19	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.	1.9	2
20	Crystal structure, luminescence properties and thermal stability of BaY2â^'xEuxGe3O10 phosphors with high colour purity for blue-excited pc-LEDs. New Journal of Chemistry, 2020, 44, 16400-16411.	2.8	9
21	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.	4.3	4
22	YS-TaS2 and YxLa1â€“xS-TaS2 (0 â‰ x â‰ 1) Nanotubes: A Family of Misfit Layered Compounds. ACS Nano, 2020, 14, 5445-5458.	14.6	10
23	Supercritical fluid synthesis and possible properties of "cubic graphite". Nanosystems: Physics, Chemistry, Mathematics, 2020, 11, 408-416.	0.4	0
24	Nanostructured Pb(S, O) Films: Synthesis, Mechanism of Deposition, and Optical Properties. Russian Journal of Physical Chemistry A, 2020, 94, 2421-2427.	0.6	3
25	Intrinsic defects and their influence on optical properties of ALa9(GeO4)6O2 (AÂ= Li, Na, K, Rb, Cs) oxyapatites prepared by spray pyrolysis. Journal of Alloys and Compounds, 2020, 839, 155609.	5.5	2
26	A facile low-temperature deposition of Sn-rich tin (II) monosulfide colloid particles. Nanosystems: Physics, Chemistry, Mathematics, 2020, 11, 529-536.	0.4	1
27	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.	4.0	0
28	Revealing the Flexible 1D Primary and Globular Secondary Structures of Sulfurâ€Rich Amorphous Transition Metal Polysulfides. ChemNanoMat, 2019, 5, 1488-1497.	2.8	6
29	Electrochemical Oxidative Aromatizationof 9-Substituted 9,10-Dihydroacridines: Cleavage of Câ€“H vs Câ€“X Bond. Chemistry of Heterocyclic Compounds, 2019, 55, 956-963.	1.2	8
30	Photolysis of polychlorobiphenyls in the presence of nanocrystalline TiO2 and CdS/TiO2. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 1115-1134.	1.7	7
31	Theoretical and experimental comparative study of the stability and phase transformations of sesquichalcogenides M₂Q₃ (M = Nb, Mo; Q = S, Se). Physical Chemistry Chemical Physics, 2019, 21, 1454-1463.	2.8	11
32	Low-Temperature Solâ€“Gel Synthesis and Photoactivity of Nanocrystalline TiO2 with the Anatase/Brookite Structure and an Amorphous Component. Kinetics and Catalysis, 2019, 60, 325-336.	1.0	10
33	Synthesis and characterization of quaternary La(Sr)Sâ€“TaS₂ misfit-layered nanotubes. Beilstein Journal of Nanotechnology, 2019, 10, 1112-1124.	2.8	5
34	Study of structural, spectroscopic and photo-oxidation properties of in-situ synthesized Sc-doped titania. Journal of Molecular Liquids, 2019, 284, 29-38.	4.9	1
35	Ion sensor activity of Î±-MoO3 prepared using microwave-assisted hydrothermal synthesis. Journal of Electroanalytical Chemistry, 2019, 840, 187-192.	3.8	6
36	Structural, electronic, and optical studies of BaRE2Ge3O10 (RE = Y, Sc, Gdâ€“Lu) germanates with a special focus on the [Ge3O10]8â^' geometry. CrystEngComm, 2019, 21, 6491-6502.	2.6	11

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37	Effect of Ru Doping on the Properties of MoSe₂ Nanoflowers. Journal of Physical Chemistry C, 2019, 123, 1987-1994.	3.1	60
38	Thermodynamics of H-T phase transition in MoS2 single layer. Nanosystems: Physics, Chemistry, Mathematics, 2019, 10, 420-427.	0.4	1
39	Effect of nitrogen impurities on ZnS polymorphism. Nanosystems: Physics, Chemistry, Mathematics, 2019, 10, 86-91.	0.4	0
40	Synthesis, crystal structure and optical properties of Me(OH)(HCOO)₂ (Me = Al, Ga). CrystEngComm, 2018, 20, 2741-2748.	2.6	6
41	Structure, magnetic and optical properties of Sr₃RE₂(Ge₃O₉)₂ cyclogermanates (RE = Laâ€“Gd). CrystEngComm, 2018, 20, 2404-2412.	2.6	4
42	Sensitized IR luminescence in Ca3Y2Ge3O12: Nd3+, Ho3+ under 808 nm laser excitation. Ceramics International, 2018, 44, 6959-6967.	4.8	16
43	Nitrogen-doped ZnS nanoparticles: Soft-chemical synthesis, EPR statement and quantum-chemical characterization. Materials Chemistry and Physics, 2018, 215, 176-182.	4.0	10
44	Stability and electronic properties of oxygen-doped ZnS polytypes: DFTB study. Chemical Physics, 2018, 510, 70-76.	1.9	6
45	Metal cations doped vanadium oxide nanotubes: Synthesis, electronic structure, and gas sensing properties. Sensors and Actuators B: Chemical, 2018, 256, 1021-1029.	7.8	19
46	Concentration growth of luminescence intensity of phosphor Zn 2-2x Mn 2x SiO 4 (Ñ… â‰ 0.13): Crystal-chemical and quantum-mechanical justification. Materials Research Bulletin, 2018, 97, 182-188.	5.2	14
47	Size dependent content of structural vacancies within TiO nanoparticles: Quantum-chemical DFTB study. Superlattices and Microstructures, 2018, 113, 459-465.	3.1	9
48	An Xps Study of Solid Solutions Mo1â€“XNbxS2 (0 < x < 0.15). Journal of Structural Chemistry, 2018, 59, 1833-1840.	1.0	1
49	Morphological Phase Diagram of Gadolinium Iodide Encapsulated in Carbon Nanotubes. Journal of Physical Chemistry C, 2018, 122, 24967-24976.	3.1	6
50	Nd³⁺,Ho³⁺-Codoped apatite-related NaLa₉(GeO₄)₆O₂ phosphors for the near- and middle-infrared region. Dalton Transactions, 2018, 47, 14041-14051.	3.3	5
51	Cu_{2â€“x}Sâ€“MoS₂ 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.	6.7	48
52	Single Walled BiI3 Nanotubes Encapsulated within Carbon Nanotubes. Scientific Reports, 2018, 8, 10133.	3.3	9
53	XPS experimental and DFT investigations on solid solutions of Mo_{1â”x}Re_xS₂ (0 < x < 0.20). Nanoscale, 2018, 10, 10232-10240.	5.6	23
54	Titanium Dichalcogenides as Nanoreactors for Magnetic High-Anisotropy Phases. Journal of Physical Chemistry Letters, 2018, 9, 5183-5188.	4.6	1

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55	Polymorphism and properties of ammonium scandium sulfate (NH₄)₃Sc(SO₄)₃: new intermediate compound in scandium production. CrystEngComm, 2018, 20, 3772-3783.	2.6	7
56	Capillary filling of carbon nanotubes by BiCl3: TEM and MD insight. Nanosystems: Physics, Chemistry, Mathematics, 2018, , 521-531.	0.4	2
57	Facile, rapid and efficient doping of amorphous TiO 2 by pre-synthesized colloidal CdS quantum dots. Journal of Alloys and Compounds, 2017, 706, 205-214.	5.5	12
58	Quantum-chemical study of structural and electronic properties of a new tin monosulfide polymorph Ï€-SnS. Doklady Physical Chemistry, 2017, 472, 23-26.	0.9	2
59	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.	5.5	13
60	Structure and Stability of GaS Fullerenes and Nanotubes. Israel Journal of Chemistry, 2017, 57, 529-539.	2.3	6
61	Electronic structure and optical properties of ALa9-Eu (GeO4)6O2 (AÂ=ÂLi, Na, K, Rb, Cs, La1/3; xÂ=Â0, 0.07). Journal of Alloys and Compounds, 2017, 727, 390-397.	5.5	4
62	Synthesis and crystal structure of 3R and 1Tâ€² polytypes of NH4Sc(SO4)2. Journal of Solid State Chemistry, 2017, 255, 50-60.	2.9	9
63	Quantum-chemical study of titanium monoxide nanoparticles with structural vacancies. Doklady Physical Chemistry, 2017, 473, 71-74.	0.9	0
64	Structural, electronic properties of microscale (NH4)2V3O8 fabricated using a novel preparation method. Journal of Physics and Chemistry of Solids, 2017, 101, 58-64.	4.0	6
65	Capillary Imbibition of Gadolinium Halides into WS₂ Nanotubes: a Molecular Dynamics View. Israel Journal of Chemistry, 2017, 57, 501-508.	2.3	1
66	Structure and optical properties of KLa9(GeO4)6O2 and KLa8.37Eu0.63(GeO4)6O2. Chemical Physics Letters, 2017, 667, 9-14.	2.6	6
67	Quantum-chemical study of quasi-one-dimensional vanadium and niobium sulfides with Peierls distortion. Journal of Structural Chemistry, 2016, 57, 1505-1512.	1.0	12
68	Electronic structure and formation energies of nonstoichiometric dichalcogenides M x X2â€“y (Đœ = Nb,) Tj ETQq0 0 0 rgBT /Overlock 1	1.0	2
69	Structural and chemical analysis of gadolinium halides encapsulated within WS₂nanotubes. Nanoscale, 2016, 8, 12170-12181.	5.6	7
70	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.	1.0	2
71	A new polymorph of NH4V3O7: Synthesis, structure, magnetic and electrochemical properties. Solid State Sciences, 2016, 61, 225-231.	3.2	6
72	Diameter-dependent wetting of tungsten disulfide nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13624-13629.	7.1	14

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73	Relative stability, electronic and structural properties in the family of NH4V3O7 polymorphs from first principles calculations. Computational and Theoretical Chemistry, 2015, 1070, 9-13.	2.5	0
74	Solar Synthesis of PbSâ€“SnS₂ Superstructure Nanoparticles. ACS Nano, 2015, 9, 7831-7839.	14.6	18
75	Structural hierarchy of NH4V3O7 particles prepared under hydrothermal conditions. Nanosystems: Physics, Chemistry, Mathematics, 2015, , 583-592.	0.4	0
76	The Role of Lead (Pb) in the High Temperature Formation of MoS2 Nanotubes. Inorganics, 2014, 2, 363-376.	2.7	7
77	Inorganic Fullerene-Like Nanoparticles and Inorganic Nanotubes. Inorganics, 2014, 2, 649-651.	2.7	5
78	Optical Properties of Triangular Molybdenum Disulfide Nanoflakes. Journal of Physical Chemistry Letters, 2014, 5, 3636-3640.	4.6	35
79	Atomic-Scale Evolution of a Growing Coreâ€“Shell Nanoparticle. Journal of the American Chemical Society, 2014, 136, 12564-12567.	13.7	14
80	Structural and electronic properties of new 1D and 2D carbon allotropes with mixed sp1â^'sp3 hybridization types. Chemical Physics Letters, 2014, 609, 15-20.	2.6	4
81	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.	1.0	6
82	Fluorographynes: Stability, structural and electronic properties. Superlattices and Microstructures, 2013, 55, 75-82.	3.1	26
83	Structural, electronic, and elastic properties of Y-diamonds and their BN analogues. Diamond and Related Materials, 2013, 38, 93-100.	3.9	1
84	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.	0.6	4
85	Layers and tubes of fluorographene C4F: Stability, structural and electronic properties from DFTB calculations. Chemical Physics Letters, 2013, 576, 44-48.	2.6	13
86	Two-dimensional titanium carbonitrides and their hydroxylated derivatives: Structural, electronic properties and stability of MXenes Ti3C2â^'xNx(OH)2 from DFTB calculations. Journal of Solid State Chemistry, 2013, 207, 42-48.	2.9	154
87	Line Defects in Molybdenum Disulfide Layers. Journal of Physical Chemistry C, 2013, 117, 10842-10848.	3.1	127
88	Structural and Electronic Properties and Stability of MXenes Ti₂C and Ti₃C₂ Functionalized by Methoxy Groups. Journal of Physical Chemistry C, 2013, 117, 13637-13643.	3.1	194
89	Defect-induced conductivity anisotropy in MoS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>monolayers. Physical Review B, 2013, 88, .	3.2	144
90	Graphene-like transition-metal nanocarbides and nanonitrides. Russian Chemical Reviews, 2013, 82, 735-746.	6.5	79

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91	Fluorinated derivatives of sp2 graphene allotropes: Structure, stability, and electronic properties. Chemical Physics Letters, 2012, 545, 78-82.	2.6	18
92	Investigation of Rheniumâ€Doped MoS₂ Nanoparticles with Fullereneâ€Like Structure. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 2610-2616.	1.2	21
93	On the crystallization of polymer composites with inorganic fullerene-like particles. Physical Chemistry Chemical Physics, 2012, 14, 7104.	2.8	5
94	Atomic structure, comparative stability and electronic properties of hydroxylated Ti2C and Ti3C2 nanotubes. Computational and Theoretical Chemistry, 2012, 989, 27-32.	2.5	151
95	Diffraction from Disordered Stacking Sequences in MoS2and WS2Fullerenes and Nanotubes. Journal of Physical Chemistry C, 2012, 116, 24350-24357.	3.1	49
96	Density-functional study of LixMoS2 intercalates (0â©½xâ©½1). Computational and Theoretical Chemistry, 2012, 999, 13-20.	2.5	120
97	Atomic structure, stability and electronic properties of fluorinated diamond-like carbon nanolayers. Theoretical and Experimental Chemistry, 2012, 48, 327-330.	0.8	1
98	Transport properties of MoS2 nanoribbons: edge priority. European Physical Journal B, 2012, 85, 1.	1.5	58
99	Do Cement Nanotubes exist?. Advanced Materials, 2012, 24, 3239-3245.	21.0	51
100	Stability and structural, elastic, and electronic properties of 3D-(sp 3) carbon allotropes according to DFTB calculations. Doklady Physical Chemistry, 2012, 442, 1-4.	0.9	7
101	Controlled Doping of MS₂ (M=W, Mo) Nanotubes and Fullereneâ€like Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 1148-1151.	13.8	73
102	New Route for Stabilization of 1T-WS₂ and MoS₂ Phases. Journal of Physical Chemistry C, 2011, 115, 24586-24591.	3.1	430
103	Nanotubes of layered iron-based superconductors: Simulations of atomic structure and electronic properties. Computational Materials Science, 2011, 50, 824-827.	3.0	3
104	Composition, stability, and elastic moduli of higher allotropes of boron (Î²-B and tII-B) according to SCC-DFTB calculations. Doklady Physical Chemistry, 2011, 438, 118-121.	0.9	0
105	Modeling of the electronic structure, chemical bonding, and properties of ternary silicon carbide Ti3SiC2. Journal of Structural Chemistry, 2011, 52, 785-802.	1.0	57
106	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.	0.6	12
107	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.	0.8	3
108	Graphene allotropes. Physica Status Solidi (B): Basic Research, 2011, 248, 1879-1883.	1.5	370

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109	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.	13.8	0
110	MoS₂ Hybrid Nanostructures: From Octahedral to Quasiâ€Spherical Shells within Individual Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 1810-1814.	13.8	62
111	Graphene-like BN allotropes: Structural and electronic properties from DFTB calculations. Chemical Physics Letters, 2011, 509, 143-147.	2.6	27
112	Radial compression studies of WS2 nanotubes in the elastic regime. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, .	1.2	18
113	Chapter 8. Theoretical Strategies for Functionalisation and Encapsulation of Nanotubes. RSC Theoretical and Computational Chemistry Series, 2011, , 225-278.	0.7	0
114	Structural, Electronic, and Mechanical Properties of Single-Walled Halloysite Nanotube Models. Journal of Physical Chemistry C, 2010, 114, 11358-11363.	3.1	231
115	Theoretical Studies of Inorganic Fullerenes and Fullereneâ€Like Nanoparticles. Israel Journal of Chemistry, 2010, 50, 468-483.	2.3	10
116	Molecular-dynamics simulations of capillary imbibition of KI melt into MoS2 nanotubes. Chemical Physics Letters, 2010, 501, 98-102.	2.6	5
117	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.	1.0	6
118	Modeling of the capillary filling of MoS2 nanotubes with titanium tetrachloride molecules. Theoretical and Experimental Chemistry, 2010, 46, 203-207.	0.8	3
119	Oneâ€and Twoâ€Dimensional Inorganic Crystals inside Inorganic Nanotubes. European Journal of Inorganic Chemistry, 2010, 2010, 4233-4243.	2.0	14
120	Synthesis of Coreâ€“Shell Inorganic Nanotubes. Advanced Functional Materials, 2010, 20, 2459-2468.	14.9	54
121	Adsorption of nucleotides on the rutile (110) surface. International Journal of Materials Research, 2010, 101, 758-764.	0.3	22
122	Hollow V₂O₅ Nanoparticles (Fullerene-Like Analogues) Prepared by Laser Ablation. Journal of the American Chemical Society, 2010, 132, 11214-11222.	13.7	45
123	Magnetic properties of NiCl2 nanostructures. Computational Materials Science, 2010, 49, 782-786.	3.0	6
124	Stability and Electronic Properties of Bismuth Nanotubes. Journal of Physical Chemistry C, 2010, 114, 22092-22097.	3.1	31
125	10.1007/s11451-008-2028-6. , 2010, 50, 390.		0
126	Quantum-chemical modelling of nanotubes of titanium silicocarbides Ti2SiC, Ti3SiC2, and Ti4SiC3. Theoretical and Experimental Chemistry, 2009, 45, 98-102.	0.8	4

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127	Stability and electronic properties of rhenium sulfide nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 114-118.	1.5	8
128	Structural, cohesive and electronic properties of Ti5Si3 nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1217-1221.	2.7	4
129	Structural, cohesive and electronic properties of titanium oxycarbides (TiCxO1âˆ'x) nanowires and nanotubes: DFT modeling. Chemical Physics, 2009, 362, 58-64.	1.9	20
130	Structural, electronic and elastic properties of ultra-light diamond-like crystalline allotropes of carbon-functionalized fullerenes C28. Chemical Physics Letters, 2009, 473, 108-110.	2.6	6
131	Structural, electronic properties and stability of metatitanic acid (H2TiO3) nanotubes. Chemical Physics Letters, 2009, 484, 44-47.	2.6	5
132	Nanotubes of Polytitanic Acids H₂Ti_nO_{2n+1} (n = 2, 3, and 4): Structural and Electronic Properties. Journal of Physical Chemistry C, 2009, 113, 20837-20840.	3.1	18
133	Nanoseashells and Nanooctahedra of MoS2: Routes to Inorganic Fullerenes. Chemistry of Materials, 2009, 21, 5627-5636.	6.7	29
134	Capillary Imbibition of PbI₂ Melt by Inorganic and Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 13664-13669.	3.1	26
135	TRENDS IN THE PROPERTIES OF SELECTED METAL-ORGANIC FRAMEWORK STRUCTURES: A THEORETICAL STUDY. , 2009, , .		0
136	Simulation of structural, elastic, and electronic properties of new cubic crystals of carbon and BN nanotubes. Journal of Structural Chemistry, 2008, 49, 994-1000.	1.0	1
137	Theoretical prediction of Al(OH)3 nanotubes and their properties. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 320-323.	2.7	12
138	Fullereneâ€like Mo(W)_{1âˆ'x}Re_xS₂ Nanoparticles. Chemistry - an Asian Journal, 2008, 3, 1568-1574.	3.3	33
139	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.	0.6	5
140	Structural, elastic, and electronic properties of new superhard isotropic cubic crystals of carbon nanotubes. JETP Letters, 2008, 87, 321-325.	1.4	5
141	Prediction of atomic structure and electronic properties of Ti3SiC2 based nanotubes by DFTB theory. Materials Letters, 2008, 62, 663-665.	2.6	12
142	Nanolubrication: How Do MoS2-Based Nanostructures Lubricate?. Journal of Physical Chemistry C, 2008, 112, 17764-17767.	3.1	64
143	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, 15643-15648.	7.1	77
144	Toward Atomic-Scale Bright-Field Electron Tomography for the Study of Fullerene-Like Nanostructures. Nano Letters, 2008, 8, 891-896.	9.1	61

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145	Structural, electronic, cohesive, and elastic properties of diamondlike allotropes of crystallineC40. Physical Review B, 2008, 77, .	3.2	9
146	The mechanically induced tuning of structural properties for MgO tubes under uniaxial tension, torsion and bending: computer molecular modelling. Nanotechnology, 2007, 18, 205707.	2.6	2
147	Bending of MgO tubes: Mechanically induced hexagonal phase of magnesium oxide. Physical Review B, 2007, 75, .	3.2	14
148	Titanium oxide fullerenes: electronic structure and basic trends in their stability. Physical Chemistry Chemical Physics, 2007, 9, 5772.	2.8	7
149	Magnetization of carbon-doped MgO nanotubes. Physical Review B, 2007, 75, .	3.2	34
150	Metalâ^'Organic Frameworks:Â Structural, Energetic, Electronic, and Mechanical Properties. Journal of Physical Chemistry B, 2007, 111, 8179-8186.	2.6	161
151	Imogolite Nanotubes: Stability, Electronic, and Mechanical Properties. ACS Nano, 2007, 1, 362-368.	14.6	172
152	Structure and Stability of Molybdenum Sulfide Fullerenes. Angewandte Chemie - International Edition, 2007, 46, 623-627.	13.8	84
153	Structural, thermal properties and stability of monolithic and hollow MgO nanocubes: Atomistic simulation. Computational and Theoretical Chemistry, 2007, 822, 28-32.	1.5	9
154	Functionalization of carbon nanotubes by covalently bonded graphite nanoplatelets: a theoretical study. Mendeleev Communications, 2007, 17, 199-201.	1.6	3
155	TiSi₂ nanostructures â€“ enhanced conductivity at nanoscale?. Physica Status Solidi (B): Basic Research, 2007, 244, 3593-3600.	1.5	8
156	New self-intercalated C28, Ti@C28, and Zn@C28 hyperdiamonds: Crystal structure and elastic and electronic properties. JETP Letters, 2007, 86, 537-542.	1.4	8
157	Atomic defects of the walls and the electronic structure of molybdenum disulfide nanotubes. Semiconductors, 2007, 41, 81-86.	0.5	7
158	Atomic and electronic structures and stability of icosahedral nanodiamonds and onions. Physics of the Solid State, 2007, 49, 392-397.	0.6	14
159	Simulation of Inorganic Nanotubes. Springer Series in Materials Science, 2007, , 33-57.	0.6	26
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