Vladimir A Basiuk

List of Publications by Year
in descending order

222	3,758	136950 32	214800 47
papers	citations	h-index	g-index

225	225	225	3651
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deposition of Gold Nanoparticles onto Thiol-Functionalized Multiwalled Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 16290-16295.	2.6	120
2	Interaction of Oxidized Single-Walled Carbon Nanotubes with Vaporous Aliphatic Amines. Journal of Physical Chemistry B, 2002, 106, 1588-1597.	2.6	117
3	New Preparation Method of Gold Nanoparticles on SiO2. Journal of Physical Chemistry B, 2006, 110, 8559-8565.	2.6	116
4	Direct Solvent-Free Amination of Closed-Cap Carbon Nanotubes:â€‰ A Link to Fullerene Chemistry. Nano Letters, 2004, 4, 863-866.	9.1	114
5	Mechanisms of amino acid polycondensation on silica and alumina surfaces. Origins of Life and Evolution of Biospheres, 1990, 20, 483-498.	1.9	66
6	Irradiation of Single-Walled Carbon Nanotubes with High-Energy Protons. Nano Letters, 2002, 2, 789-791.	9.1	64
7	A Novel Approach to the Synthesis of Symmetric Optically Active 2,5-Dioxopiperazines. Synthesis, 1992, 1992, 449-451.	2.3	59
8	Formation of Amino Acid Precursors in the Interstellar Medium. A DFT Study of Some Gas-Phase Reactions Starting with Methylenimine. Journal of Physical Chemistry A, 2001, 105, 4252-4258.	2.5	51
9	Effects of Covalent Functionalization on the Biocompatibility Characteristics of Multi-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2008, 8, 2347-2356.	0.9	51
10	SWNTâ€“amino acid interactions: A theoretical study. Chemical Physics Letters, 2008, 457, 185-190.	2.6	50
11	Pyrolysis of amino acids: recovery of starting materials and yields of condensation products. Journal of Analytical and Applied Pyrolysis, 2000, 56, 113-121.	5.5	49
12	Fullereneâ€“amino acid interactions. A theoretical study. Chemical Physics Letters, 2008, 452, 306-314.	2.6	49
13	Dispersion-Corrected Density Functional Theory Calculations of <I>meso</I>-Tetraphenylporphine-C₆₀ Complex by Using DMol3 Module. Journal of Computational and Theoretical Nanoscience, 2014, 11, 1609-1615.	0.4	49
14	Noncovalent bonding of 3d metal(II) phthalocyanines with single-walled carbon nanotubes: A combined DFT and XPS study. Applied Surface Science, 2019, 470, 622-630.	6.1	49
15	Density Matrix Renormalization Group for Dummies. Journal of Computational and Theoretical Nanoscience, 2008, 5, 1277-1288.	0.4	48
16	Pyrolysis of alanine and Î±-aminoisobutyric acid: identification of less-volatile products using gas chromatography/Fourier transform infrared spectroscopy/mass spectrometry. Journal of Analytical and Applied Pyrolysis, 1998, 45, 89-102.	5.5	46
17	Pyrolysis of valine and leucine at 500Â°C: identification of less-volatile products using gas chromatography-Fourier transform infrared spectroscopy-mass spectrometry. Journal of Analytical and Applied Pyrolysis, 1998, 47, 127-143.	5.5	46
18	Adsorption Modification of Single-Walled Carbon Nanotubes with Tetraazaannulene Macrocyclic Complexes. Nano Letters, 2002, 2, 1249-1252.	9.1	45

#	Article	IF	Citations
19	ONIOM Studies of Chemical Reactions on Carbon Nanotube Tips:Â Effects of the Lower Theoretical Level and Mutual Orientation of the Reactants. Journal of Physical Chemistry B, 2003, 107, 8890-8897.	2.6	45
20	Comparative study of amino acid adsorption on bare and octadecyl silica from water using high-performance liquid chromatography. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 118, 127-140.	4.7	41
21	Condensation of hexahydroimidazo[1,2-a]pyrazine-3,6-diones and hexahydroimidazo[1,2-a]imidazo[1,2-d]pyrazine-3,8-diones, unusual products of silica-catalyzed amino acid thermal condensation and products of their thermal decomposition using coupled high-performance liquid chromatographyâ€“particle beam mass spectrometry and gas chromatographyâ€“Fourier transform infrared spectroscopyâ€“mass spectrometry. Journal of Chromatography A, 1997, 776, 255-273.	3.7	41
22	Magnetic Nanoparticles with Core/Shell Structures. Journal of Nanoscience and Nanotechnology, 2008, 8, 2781-2792.	0.9	41
23	Noncovalent functionalization of graphene with a Ni(<scp>ii</scp>) tetraaza[14]annulene complex. Dalton Transactions, 2014, 43, 7413-7428.	3.3	40
24	Pyrolysis of poly-glycine and poly-l-alanine: analysis of less-volatile products by gas chromatography/Fourier transform infrared spectroscopy/mass spectrometry. Journal of Analytical and Applied Pyrolysis, 2000, 55, 235-246.	5.5	39
25	Reactivity of Carboxylic Groups on Armchair and Zigzag Carbon Nanotube Tips:â€‰ A Theoretical Study of Esterification with Methanol. Nano Letters, 2002, 2, 835-839.	9.1	39
26	Interaction of Porphine and Its Metal Complexes with C60Fullerene:Â A DFT Study. Journal of Physical Chemistry A, 2005, 109, 3704-3710.	2.5	39
27	Possible role of volcanic ash-gas clouds in the Earth's prebiotic chemistry. Origins of Life and Evolution of Biospheres, 1996, 26, 173-194.	1.9	37
28	Gas-phase synthesis, properties and some applications of acylamide stationary phases for high-performance liquid chromatography. Journal of Chromatography A, 1990, 521, 29-42.	3.7	36
29	Self-Assemblies of meso-Tetraphenylporphine Ligand on Surfaces of Highly Oriented Pyrolytic Graphite and Single-Walled Carbon Nanotubes: Insights from Scanning Tunneling Microscopy and Molecular Modeling. Journal of Nanoscience and Nanotechnology, 2011, 11, 5457-5468.	0.9	36
30	Catalysis of peptide formation by inorganic oxides: High efficiency of alumina under mild conditions on the earth-like planets. Advances in Space Research, 2001, 27, 225-230.	2.6	35
31	Electron smearing in DFT calculations: A case study of doxorubicin interaction with singleâ€walled carbon nanotubes. International Journal of Quantum Chemistry, 2011, 111, 4197-4205.	2.0	35
32	Solvent-free covalent functionalization of nanodiamond with amines. Applied Surface Science, 2013, 275, 324-334.	6.1	35
33	Pyrolysis of simple amino acids and nucleobases: survivability limits and implications for extraterrestrial delivery. Planetary and Space Science, 1999, 47, 577-584.	1.7	34
34	Solvent-free one-step covalent functionalization of graphene oxide and nanodiamond with amines. RSC Advances, 2016, 6, 113596-113610.	3.6	34
35	One-step nondestructive functionalization of graphene oxide paper with amines. RSC Advances, 2018, 8, 15253-15265.	3.6	32
36	Noncovalent functionalization of pristine CVD single-walled carbon nanotubes with 3d metal(II) phthalocyanines by adsorption from the gas phase. Applied Surface Science, 2018, 436, 1123-1133.	6.1	32

#	Article	IF	Citations
37	â€˜Greenâ€™ derivatization of carbon nanotubes with Nylon 6 andl-alanine. Journal of Materials Chemistry, 2006, 16, 4420-4426.	6.7	31
38	Complexation of free-base and 3d transition metal(II) phthalocyanines with endohedral fullerene Sc3N@C80. Chemical Physics Letters, 2019, 722, 146-152.	2.6	31
39	Direct Amidation of Terminal Carboxylic Groups of Armchair and Zigzag Single-Walled Carbon Nanotubes:â€‰ A Theoretical Study. Nano Letters, 2001, 1, 657-661.	9.1	30
40	Solvent-free covalent functionalization of multi-walled carbon nanotubes and nanodiamond with diamines: Looking for cross-linking effects. Applied Surface Science, 2012, 259, 465-476.	6.1	30
41	Oxygen Evolution Reaction on Singleâ€Walled Carbon Nanotubes Noncovalently Functionalized with Metal Phthalocyanines. ChemElectroChem, 2020, 7, 428-436.	3.4	28
42	Organic reactions on the surface of silicon dioxide: synthetic applications. Russian Chemical Reviews, 1995, 64, 1003-1019.	6.5	27
43	Pyrolytic Behavior of Amino Acids and Nucleic Acid Bases: Implications for Their Survival during Extraterrestrial Delivery. Icarus, 1998, 134, 269-278.	2.5	27
44	Effects of Orbital Cutoff in DMol3 DFT Calculations: A Case Study of <I>meso</I>-Tetraphenylporphineâ€“C₆₀ Complex. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1266-1272.	0.4	27
45	Coordination functionalization of graphene oxide with tetraazamacrocyclic complexes of nickel(II): Generation of paramagnetic centers. Applied Surface Science, 2016, 371, 16-27.	6.1	27
46	Chemical transformations of proteinogenic amino acids during their sublimation in the presence of silica. Origins of Life and Evolution of Biospheres, 1991, 21, 129-144.	1.9	26
47	Title is missing!. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2000, 38, 45-56.	1.6	26
48	Noncovalent functionalization of single-walled carbon nanotubes with porphyrins. Applied Surface Science, 2013, 275, 168-177.	6.1	26
49	Adsorption of small biological molecules on silica from diluted aqueous solutions: Quantitative characterization and implications to the Bernal's hypothesis. Origins of Life and Evolution of Biospheres, 1995, 25, 375-393.	1.9	25
50	Behavior of amino acids when volatilized in the presence of silica gel and pulverized basaltic lava. Origins of Life and Evolution of Biospheres, 1998, 28, 167-193.	1.9	25
51	Interaction of Tetraaza[14]annulenes with Single-Walled Carbon Nanotubes:Â A DFT Study. Journal of Physical Chemistry B, 2004, 108, 19990-19994.	2.6	25
52	Analysis of Organoâ€“Silica Interactions during Valve Formation in Synchronously Growing Cells of the Diatom Navicula pelliculosa. ChemBioChem, 2008, 9, 573-584.	2.6	25
53	Gadoliniumâ€‰containing carbon nanomaterials for magnetic resonance imaging: Trends and challenges. Journal of Cellular and Molecular Medicine, 2020, 24, 3779-3794.	3.6	25
54	Noncovalent Functionalization of Carbon Nanotubes with Porphyrins: meso-Tetraphenylporphine and Its Transition Metal Complexes. Journal of Nanoscience and Nanotechnology, 2007, 7, 1530-1538.	0.9	24

#	Article	IF	Citations
55	Adsorption of free-base phthalocyanine on Stone-Wales defect-containing carbon nanotubes: A DFT study. Diamond and Related Materials, 2019, 97, 107443.	3.9	24
56	Interaction of Cation-Encapsulated Single-Walled Carbon Nanotubes with Small Polar Molecules. Journal of Physical Chemistry C, 2008, 112, 2736-2742.	3.1	23
57	â€œGreenâ€•Functionalization of Pristine Multi-Walled Carbon Nanotubes with Long-Chain Aliphatic Amines. Journal of Nanoscience and Nanotechnology, 2011, 11, 5546-5554.	0.9	23
58	Solvent-free functionalization of carbon nanotube buckypaper with amines. Applied Surface Science, 2015, 357, 1355-1368.	6.1	23
59	Noncovalent interactions of free-base phthalocyanine with elongated fullerenes as carbon nanotube models. Structural Chemistry, 2017, 28, 1765-1773.	2.0	23
60	Solvent-free functionalization of fullerene C60 and pristine multi-walled carbon nanotubes with aromatic amines. Applied Surface Science, 2015, 328, 45-62.	6.1	22
61	Ï€-Extended pushâ€“pull azo-pyrrole photoswitches: synthesis, solvatochromism and optical band gaps. Organic and Biomolecular Chemistry, 2020, 18, 1657-1670.	2.8	22
62	Growth of peptide chains on silica in absence of amino acid access from without. Origins of Life and Evolution of Biospheres, 1991, 21, 119-128.	1.9	21
63	Noncovalent complexes ofI_hâ”C₈₀fullerene with phthalocyanines. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 69-75.	2.1	21
64	Imidazo[1,2-a]pyrazines. Russian Chemical Reviews, 1997, 66, 187-204.	6.5	20
65	Electronic and magnetic properties of C60 thin films under ambient conditions: A multitechnique study. Organic Electronics, 2011, 12, 1483-1492.	2.6	20
66	Reaction of silica-supported fullerene C60 with nonylamine vapor. Carbon, 2003, 41, 2339-2346.	10.3	19
67	Solvent-Free Derivatization of Pristine Multi-Walled Carbon Nanotubes with Amines. Journal of Nanoscience and Nanotechnology, 2005, 5, 984-990.	0.9	19
68	Poly(vinyl alcohol)/CNT composites: An effect of cross-linking with glutaraldehyde. Superlattices and Microstructures, 2009, 46, 379-383.	3.1	19
69	Adsorption and Self-Assembly of Anticancer Antibiotic Doxorubicin on Single-Walled Carbon Nanotubes. Nano, 2016, 11, 1650038.	1.0	19
70	Zigzag SWNT-amino acid interactions: Theoretical insights. Computational Materials Science, 2008, 44, 310-315.	3.0	18
71	Complexation of free-base and 3d transition metal(II) phthalocyanines with fullerene C₆₀: A dispersion-corrected DFT study. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 410-416.	2.1	18
72	Thermal smearing in DFT calculations: How small is really small? A case of La and Lu atoms adsorbed on graphene. Materials Today Communications, 2020, 25, 101595.	1.9	18

#	Article	IF	Citations
73	Analysis of less-volatile products of poly-l-valine pyrolysis by gas chromatography/Fourier transform infrared spectroscopy/mass spectrometry. Journal of Analytical and Applied Pyrolysis, 2001, 60, 27-40.	5.5	17
74	Solvent-free derivatization of pristine multi-walled carbon nanotubes with dithiols. Materials Letters, 2006, 60, 3741-3746.	2.6	17
75	Interaction of <I>meso</I>-Tetraphenylporphines with C₆₀ Fullerene: Comparison of Several Density Functional Theory Functionals Implemented in DMol3 Module. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1095-1103.	0.4	17
76	Gas-phase noncovalent functionalization of carbon nanotubes with a Ni(II) tetraaza[14]annulene complex. Applied Surface Science, 2013, 270, 634-647.	6.1	17
77	The Gas-Solid-Phase 2,5-Dioxopiperazine Synthesis. Cyclization of Vaporous Dipeptides on Silica Surface. Collection of Czechoslovak Chemical Communications, 1994, 59, 461-466.	1.0	16
78	Microstructure and thermal change of texture of calcite crystals in ostrich eggshell Struthio camelus. Materials Science and Engineering C, 2005, 25, 1-9.	7.3	16
79	Structure and interactions of calcite spherulites with Î±-chitin in the brown shrimp (Penaeus aztecus) shell. Materials Science and Engineering C, 2007, 27, 8-13.	7.3	16
80	Noncovalent 1:2 Complex of <I>meso</I>-Tetraphenylporphine with C₆₀ Fullerene: A Density Functional Theory Study. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1996-2003.	0.4	16
81	Graphene oxide and nanodiamond: same carboxylic groups, different complexation properties. RSC Advances, 2017, 7, 17442-17450.	3.6	16
82	Carbon Nanotubes and Graphene Promote Pyrolysis of Free-Base Phthalocyanine. Journal of Physical Chemistry Letters, 2018, 9, 4420-4427.	4.6	16
83	Condensation of vaporous amino acids in the presence of silica. Formation of bi- and tricyclic amidines. Origins of Life and Evolution of Biospheres, 1992, 22, 333-348.	1.9	15
84	Nanostructured Diamineâ€“Fullerene Derivatives: Computational Density Functional Theory Study and Experimental Evidence for their Formation via Gas-Phase Functionalization. Journal of Physical Chemistry A, 2012, 116, 1663-1676.	2.5	15
85	Free energies of adsorption of amino acids, short linear peptides and 2,5-piperazinediones on silica from water as estimated from high-performance liquid-chromatographic retention data. Adsorption, 1996, 2, 145-152.	3.0	14
86	Transport of extraterrestrial biomolecules to the Earth: Problem of thermal stability. Advances in Space Research, 1999, 24, 505-514.	2.6	14
87	DFT study of HCN and N?C?C?N reactions with hydrogen species. International Journal of Quantum Chemistry, 2004, 99, 91-101.	2.0	14
88	A Density Functional Theory Study of Porphyrinâ€“Pyridineâ€“Fullerene Triad ZnTPPÂ·PyÂ·C₆₀. Journal of Computational and Theoretical Nanoscience, 2010, 7, 2322-2330.	0.4	14
89	Interaction of a Ni(II) tetraazaannulene complex with elongated fullerenes as simple models for carbon nanotubes. Journal of Molecular Modeling, 2015, 21, 146.	1.8	14
90	Noncovalent interactions of amino acids with fullerene C₆₀: A dispersion-corrected DFT study. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 371-379.	2.1	14

#	Article	IF	Citations
91	Solvent-free functionalization of graphene oxide powder and paper with aminobenzo-crown ethers and complexation with alkali metal cations. Materials Chemistry and Physics, 2021, 260, 124127.	4.0	14
92	Reactions of vaporous proteinogenic Î±-amino acids on silica and alumina surfaces. Reaction Kinetics and Catalysis Letters, 1993, 50, 297-303.	0.6	13
93	Formation of interstellar vinyl alcohol via simple radical processes: Theoretical study. International Journal of Quantum Chemistry, 2004, 97, 713-718.	2.0	13
94	Interaction of Porphines with Single-Walled Carbon Nanotubes: A DFT Study with Minimal Basis Set. Journal of Computational and Theoretical Nanoscience, 2006, 3, 767-774.	0.4	13
95	Cross-Linking of C₆₀ Films with 1,8-Diaminooctane and Further Decoration with Silver Nanoparticles. Journal of Nanoscience and Nanotechnology, 2007, 7, 3563-3571.	0.9	13
96	Cd²⁺ affects the growth, hierarchical structure and peptide composition of the biosilica of the freshwater diatom Nitzschia palea (KÃ¼tzing) W. Smith. Phycological Research, 2012, 60, 229-240.	1.6	13
97	Adsorption of meso-tetraphenylporphines on thin films of C60 fullerene. Applied Surface Science, 2013, 275, 374-383.	6.1	13
98	Phytotoxicity of carbon nanotubes and nanodiamond in long-term assays with Cactaceae plant seedlings. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 141-149.	2.1	13
99	Characterization of the CaCO3 biomineral in coralline red algae (Corallinales) from the Pacific coast of Mexico. Ciencias Marinas, 2010, 36, .	0.4	13
100	Gas-phase acylation of aminopropyl-silica gel in the synthesis of some chemically bonded silica materials for analytical applications. Analytica Chimica Acta, 1991, 255, 197-205.	5.4	12
101	Interaction of Porphine with Closed-End Zigzag (6,0) Single-Walled Carbon Nanotube: The Effect of Parameters in DMol³ DFT Calculations. Journal of Computational and Theoretical Nanoscience, 2008, 5, 2114-2118.	0.4	12
102	[80]Fullereneâ€“amino acid interactions: Theoretical insights. International Journal of Quantum Chemistry, 2010, 110, 953-959.	2.0	12
103	Aggregation of Human Serum Albumin on Graphite and Single-Walled Carbon Nanotubes as Studied by Scanning Probe Microscopies. Journal of Nanoscience and Nanotechnology, 2011, 11, 5491-5498.	0.9	12
104	Dust in the universe: Implications for terrestrial prebiotic chemistry. Origins of Life and Evolution of Biospheres, 1995, 25, 457-493.	1.9	11
105	IR spectra simulation as auxiliary tool for gas chromatography-Fourier transform IR spectroscopy-mass spectrometry identification of unknown compounds: comparison between several semi-empirical methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1999, 55, 289-298.	3.9	11
106	Some observations on amino acid racemization under pyrolytic temperatures and inorganic oxidecatalyzed intermolecular condensation. Advances in Space Research, 2001, 27, 335-340.	2.6	11
107	Deposition of silver nanoparticles onto human serum albuminâ€functionalised multiâ€walled carbon nanotubes. Canadian Journal of Chemical Engineering, 2013, 91, 264-270.	1.7	11
108	Lightning Associated to Archean Volcanic Ash-Gas Clouds. , 1996, , 123-142.		11

#	Article	IF	Citations
109	Nanoassembly of meso-Tetraphenylporphines on Surfaces of Carbon Materials: Initial Steps as Studied by Molecular Mechanics and Scanning Tunneling Microscopy. Journal of Nanoscience and Nanotechnology, 2008, 8, 259-267.	0.9	11
110	Survivability of biomolecules during extraterrestrial delivery: New results on pyrolysis of amino acids and poly-amino acids. Advances in Space Research, 2001, 27, 231-236.	2.6	10
111	PM3, AM1, MNDO and MINDO3 semi-empirical IR spectra simulations for compounds of interest for Titan's chemistry: diazomethane, methyl azide, methyl isocyanide, diacetylene and triacetylene. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 505-511.	3.9	10
112	Stability of interstellar fullerenes under high-dose Î³-irradiation. Advances in Space Research, 2004, 33, 72-75.	2.6	10
113	Interactions of Porphyrins with Low-Dimensional Carbon Materials. Journal of Computational and Theoretical Nanoscience, 2009, 6, 1383-1411.	0.4	10
114	Noncovalent Interaction of Meso-Tetraphenylporphine with C₆₀ Fullerene as Studied by Several DFT Methods. Journal of Nanoscience and Nanotechnology, 2011, 11, 5519-5525.	0.9	10
115	Effect of structural defects on the strength of adsorption of La and Lu species on graphene. Diamond and Related Materials, 2019, 100, 107597.	3.9	10
116	Interactions of metal phthalocyanines with Stone-Wales defects on single-walled carbon nanotubes: A theoretical study. Journal of Applied Physics, 2020, 127, .	2.5	10
117	Title is missing!. Journal of Chemical Crystallography, 1999, 29, 1157-1163.	1.1	9
118	PM3, AM1, MINDO3 semi-empirical IR spectra simulations for some nitriles of interest for Titanâ€™s chemistry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2000, 56, 1157-1165.	3.9	9
119	Green Chemistry of Carbon Nanomaterials. Journal of Nanoscience and Nanotechnology, 2014, 14, 644-672.	0.9	9
120	Defect states and morphological evolution in mechanically processed ZnO + xC nanosystems as studied by EPR and photoluminescence spectroscopy. RSC Advances, 2016, 6, 58709-58722.	3.6	9
121	Complexation of free-base and 3d transition metal(II) phthalocyanines with endohedral fullerenes H@C60, H2@C60 and He@C60: The effect of encapsulated species. Diamond and Related Materials, 2021, 118, 108510.	3.9	9
122	IR spectra simulation as auxiliary tool for gas chromatography/Fourier transform IR spectroscopy/mass spectrometry identification of unknown compounds. 2. PM3, AM1, MNDO and MINDO3 simulations for simple nitriles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1999, 55, 2771-2782.	3.9	8
123	Theoretical study of amino acid precursor formation in the interstellar medium. 2. Reaction of methylenimine with CN radical. Advances in Space Research, 2002, 30, 1445-1450.	2.6	8
124	Theoretical prediction of gas-phase infrared spectra of imidazo[1,2-a]pyrazinediones and imidazo[1,2-a]imidazo[1,2-d]pyrazinediones derived from glycine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2560-2575.	3.9	8
125	Imidazo[1,2-a]pyrazine-3,6-diones Derived from Î±-Amino Acids:Â A Theoretical Mechanistic Study of Their Formation via Pyrolysis and Silica-Catalyzed Process. Journal of Physical Chemistry A, 2006, 110, 7431-7440.	2.5	8
126	Interactions between cation-encapsulated single-walled carbon nanotubes M+@SWNT (M+=H, Li, Na) and nucleophiles. Computational Materials Science, 2008, 44, 240-246.	3.0	8

#	Article	IF	Citations
127	Interaction of Short Homopeptides of Glycine and L-Alanine with Fullerene C60. Journal of Computational and Theoretical Nanoscience, 2011, 8, 243-252.	0.4	8
128	Theoretical Analysis of the Effect of Surface Defects on Porphyrin Adsorption and Self-Assembly on Graphite. Journal of Computational and Theoretical Nanoscience, 2012, 9, 532-540.	0.4	8
129	Properties of noncovalent tetraphenylporphineâ‹¯C₆₀ dyads as studied by different long-range and dispersion-corrected DFT functionals. Physical Chemistry Chemical Physics, 2015, 17, 27399-27408.	2.8	8
130	Solvent-free derivatization of oxidized single-walled carbon nanotubes and nanodiamond with aminobenzo-crown ethers. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 653-661.	2.1	8
131	Solvent-Free Covalent Functionalization of Fullerene C60 and Pristine Multi-Walled Carbon Nanotubes with Crown Ethers. Journal of Nanoscience and Nanotechnology, 2016, 16, 6173-6184.	0.9	8
132	(C-rac-5,5,7,12,12,14-Hexamethyl-1,4,8,11-tetraazacyclotetradecane-Î¹4N)(nicotinato-O,Oâ€²)nickel(II) perchlorate. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 553-555.	0.4	7
133	Calculated gas-phase infrared spectra of 2,2,5,5,8,8-hexamethylhexahydroimidazo[1,2-a]-pyrazine-3,6-dione: relative performance of Hartreeâ€“Fock and hybrid density functional theory methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 1271-1282.	3.9	7
134	Theoretical study of amino acid precursor formation in the interstellar medium. 1. Reaction of methylenimine with hydrogen cyanide. Advances in Space Research, 2002, 30, 1439-1444.	2.6	7
135	Interaction of Thermally Pretreated Carbon Nanomaterials with Water Vapor. Journal of Nanoscience and Nanotechnology, 2004, 4, 77-81.	0.9	7
136	Fullerene C60 Films Cross-Linked with Octane-1,8-Dithiol: Preparation, Characterization and the Use as Template for Chemical Deposition of Gold Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 3828-3837.	0.9	7
137	Formation of carbon nanodots with different spin states in mechanically processed mixtures of ZnO with carbon nanoparticles: an electron paramagnetic resonance study. Physical Chemistry Chemical Physics, 2017, 19, 3670-3678.	2.8	7
138	Eco-friendly synthesis of graphene oxideâ€“silver nanoparticles hybrids: The effect of amine derivatization. Diamond and Related Materials, 2021, 111, 108208.	3.9	7
139	High-energy ball-milling preparation and characterization of Ln2O3â^'graphite nanocomposites. Materials Today Communications, 2021, 26, 102030.	1.9	7
140	Distortion and bonding strength of phthalocyanine molecules adsorbed on topological defects in graphene. Materials Chemistry and Physics, 2021, 271, 124963.	4.0	7
141	Interaction of Amino Acids with Single-Walled Carbon Nanotubes: Insights from Density Functional Theory Calculations. Journal of Computational and Theoretical Nanoscience, 2008, 5, 1205-1209.	0.4	7
142	Theoretical Studies of Amidation Reaction at Carbon Nanotube Tips by Means of the ONIOM Technique: Expanding the Higher Level. Journal of Nanoscience and Nanotechnology, 2004, 4, 1095-1101.	0.9	7
143	Systemic Phytotoxic Impact of as-Prepared Carbon Nanotubes in Long-Term Assays: A Case Study of <I>Parodia ayopayana</I> (Cactaceae). Science of Advanced Materials, 2013, 5, 1337-1345.	0.7	7
144	Lanthanide bisphthalocyanine single-molecule magnets: A DFT survey of their geometries and electronic properties from lanthanum to lutetium. Materials Chemistry and Physics, 2022, 287, 126271.	4.0	7

#	Article	IF	Citations
145	Selectivity of Bonded Stationary Phases Containing Uracil Derivatives for Liquid Chromatography of Nucleic Acid Components. Journal of Chromatographic Science, 1993, 31, 120-126.	1.4	6
146	Infrared spectra of carboxylic compounds on silica surfaces at 1500â€“1800 cmâ”1. Journal of Applied Spectroscopy, 1994, 60, 29-33.	0.7	6
147	A DF T study of methylamine polyaddition to C80 fullerene. Superlattices and Microstructures, 2009, 46, 302-305.	3.1	6
148	Microwave Irradiation of Pristine Multi-Walled Carbon Nanotubes in Vacuum. Journal of Nanoscience and Nanotechnology, 2010, 10, 448-455.	0.9	6
149	Incorporation in Langmuirâ€“Blodgett films of an amphiphilic derivative of fullerene C60 and oligo-para-phenylenevinylene. Thin Solid Films, 2012, 526, 246-251.	1.8	6
150	Population and QTAIM Analysis of Metalloporphyrinâ€“Fullerene Supramolecular Complexes. Journal of Computational and Theoretical Nanoscience, 2015, 12, 674-681.	0.4	6
151	Non-covalent attachment of silver nanoclusters onto single-walled carbon nanotubes with human serum albumin as linking molecule. Applied Surface Science, 2015, 331, 271-277.	6.1	6
152	Noncovalent interactions of nucleic acid bases with fullerene C₆₀ and short carbon nanotube models: a dispersion-corrected DFT study. Molecular Simulation, 2017, 43, 205-212.	2.0	6
153	In-Situ Metallization of Thermally-Treated Tobacco Mosaic Virus Using Silver Nanoparticles. Journal of Nanoscience and Nanotechnology, 2017, 17, 4740-4747.	0.9	6
154	Effects of solvent-free amine functionalization of graphene oxide and nanodiamond on bacterial growth. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 58-66.	2.1	6
155	ONIOM Studies of Amidation at Carbon Nanotube Tips: B3LYP for the Expanded Higher Level. Journal of Computational and Theoretical Nanoscience, 2004, 1, 378-384.	0.4	6
156	IR spectra of bifunctional ?-amino acids sorbed on dehydrated aerosil. Theoretical and Experimental Chemistry, 1990, 26, 89-93.	0.8	5
157	Computer simulation of IR spectra as a useful tool for GC/FTIR/MS identification of unusual amidine products of amino acid condensation. , 1997, 3090, 372.		5
158	Corona Chemistry in Titan.. Uchu Seibutsu Kagaku, 1998, 12, 81-91.	0.3	5
159	Title is missing!. Journal of Chemical Crystallography, 1999, 29, 469-473.	1.1	5
160	2,2,5,5,8,8-Hexamethyl-2,3,5,6,7,8-hexahydroimidazo[1,2-a]pyrazine-3,6-dione, a bicyclic product of Î±-aminoisobutyric acid condensation. Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, 598-599.	0.4	5
161	Glycine amide hydrolysis with water and OH radical: a comparative DFT study. Advances in Space Research, 2005, 36, 209-213.	2.6	5
162	Regioselectivity in Azahydro[60]fullerene Derivatives: Application of General-Purpose Reactivity Indicators. Journal of Physical Chemistry A, 2008, 112, 8154-8163.	2.5	5

#	Article	IF	Citations
163	Multiple Addition of Methylamine to Fullerene C₆₀: A Density Functional Theory Study. Journal of Computational and Theoretical Nanoscience, 2009, 6, 73-79.	0.4	5
164	Interaction of Au Atom with Fullerene C₆₀: Performance of DFT Functionals Incorporated into the DMol3 Module. Journal of Computational and Theoretical Nanoscience, 2013, 10, 328-333.	0.4	5
165	Fabrication and characterization of an organic light-emitting diode based on Langmuirâ€“Blodgett films using oligo(phenylenevinylene) derivatives. Journal of Materials Science: Materials in Electronics, 2020, 31, 337-346.	2.2	5
166	Prebiotic Synthesis by Lightning in Martian Volcanic Plumes. , 1998, , 255-260.		5
167	Free Energies of Adsorption of Dipeptides and 2,5-Piperazinediones on Silica from Neutral Aqueous Solutions as Estimated from High-Performance Liquid-Chromatographic Retention Data. Collection of Czechoslovak Chemical Communications, 1994, 59, 1721-1728.	1.0	5
168	Adsorption of yttrium bisphthalocyanine on pristine and defect-contaning graphene models: A DFT study. Diamond and Related Materials, 2022, 126, 109051.	3.9	5
169	Adsorption of Lanthanide Atoms on Graphene: Similar, Yet Different. Journal of Physical Chemistry Letters, 2022, 13, 6042-6047.	4.6	5
170	Quantum chemical calculations of infrared spectra for the identification of unknown compounds by GC/FTIR/MS in exobiological simulation experiments. Advances in Space Research, 2001, 27, 255-260.	2.6	4
171	Molecular modeling of octahedral complex cations composed of [Ni(II)(rac-Me6[14]aneN4)]2+ units and bidentate carboxylate ligands. Computational and Theoretical Chemistry, 2001, 536, 17-24.	1.5	4
172	Basis set effects on B3LYP geometries and energies: case study of interstellar reaction HN?CH2 +?C?N ? H2N?C(?)H?C?N. International Journal of Quantum Chemistry, 2002, 87, 101-109.	2.0	4
173	Calculated gas-phase infrared spectra of imidazo[1,2-a]pyrazinediones derived from alanine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 1867-1879.	3.9	4
174	Stability of interstellar fullerenes under high-dose Î³-irradiation: new data. Advances in Space Research, 2005, 36, 173-177.	2.6	4
175	Nanohybrids of Nylon 6 with Multi-Walled Carbon Nanotubes: Solvent-Free Polymerization of Îµ-Caprolactam Under Variable Experimental Conditions. Journal of Nanoscience and Nanotechnology, 2009, 9, 3313-3319.	0.9	4
176	Computer simulation and experimental self-assembly of irradiated glycine amino acid under magnetic fields: Its possible significance in prebiotic chemistry. BioSystems, 2017, 162, 66-74.	2.0	4
177	Interaction of Porphine and its Metal Complexes with C₆₀ Fullerene: A DFT B3LYP/LANL2MB Study. Journal of Computational and Theoretical Nanoscience, 2005, 2, 370-377.	0.4	4
178	Theoretical Modeling of Fullerene-Porphyrine Interactions: Computational Implications. Journal of Computational and Theoretical Nanoscience, 2008, 5, 1367-1371.	0.4	4
179	Scanning Tunneling Microscopy of Rotavirus VP6 Protein Self-Assembled into Nanotubes and Nanospheres. Journal of Scanning Probe Microscopy, 2008, 3, 25-31.	0.0	4
180	Chemical Functionalization of Inner Walls of Carbon Nanotubes with Long-Chain Aliphatic Amines. Nanoscience and Nanotechnology Letters, 2017, 9, 712-718.	0.4	4

#	Article	IF	Citations
181	Reactions of gaseous organic compounds on silica surface. Spectral studies and synthetic aspects. Reaction Kinetics and Catalysis Letters, 1993, 50, 83-88.	0.6	3
182	Dust particles in the atmospheres of terrestrial planets and their roles for prebiotic chemistry: An overview. Astrophysics and Space Science, 1996, 236, 61-75.	1.4	3
183	Binding Energies of Ground and Excited States of Shallow Donors in Semimagnetic Parabolic Quantum Dots. Journal of Computational and Theoretical Nanoscience, 2008, 5, 591-596.	0.4	3
184	Interaction Between NO₂ and an Elongated Fullerene C₆₀. Journal of Computational and Theoretical Nanoscience, 2010, 7, 408-413.	0.4	3
185	Fullerene Thin Films Functionalized by 1,5-Diaminonaphthalene: Preparation and Properties. Journal of Nanoscience and Nanotechnology, 2011, 11, 5569-5573.	0.9	3
186	Unusual Microstructure and Mechanical Properties of Egg Case of the Bolas Spider Mastophora corpulenta Banks (Araneae, Araneidae). Fibers and Polymers, 2018, 19, 1632-1639.	2.1	3
187	Evolution of morphology and defect states in mechanically processed ZnO+xMWCNTs nanosystems. Journal of Alloys and Compounds, 2018, 762, 605-615.	5.5	3
188	Preparation and Characterization of a Novel Organic Semiconductor Indacenedithiophene Derivative and the Corresponding Langmuir-Blodgett Thin Films. Journal of Nanoscience and Nanotechnology, 2019, 19, 7244-7250.	0.9	3
189	A dispersionâ€corrected density functional theory study of the noncovalent interactions between nucleobases and carbon nanotube models containing stoneâ€“wales defects. Journal of Computational Chemistry, 2020, 41, 780-789.	3.3	3
190	Engineering coumarin-BODIPY thin-films and molecular crystals: Tailoring supramolecular self-assembly for organic electronic applications. Journal of Molecular Structure, 2021, 1239, 130437.	3.6	3
191	Distortion of yttrium bisphthalocyanine (YPc2) upon noncovalent interaction with carbon nanotubes: A DFT study. Materials Today Communications, 2021, 28, 102667.	1.9	3
192	Chemical Crosslinking in C60 Thin Films. , 2006, , 453-462.		3
193	Solvent-Free Functionalization of Carbon Nanomaterials. , 2015, , 163-205.		3
194	Free energies of amino acid adsorption on silica in neutral aqueous medium as estimated from high-performance liquid-chromatographic retention data. Amino Acids, 1994, 7, 305-309.	2.7	2
195	Excited states of Na and Al iso-electronic ions: Symmetry adapted cluster-configuration interaction study. International Journal of Quantum Chemistry, 2002, 87, 81-88.	2.0	2
196	ONIOM Studies of Esterification at Oxidized Carbon Nanotube Tips. Journal of Physics: Conference Series, 2007, 61, 85-89.	0.4	2
197	Interaction of ^L-Valine Homopeptides with Fullerene C₆₀. Journal of Computational and Theoretical Nanoscience, 2012, 9, 922-930.	0.4	2
198	N-doped carbon nanofibers from pyrolysis of free-base phthalocyanine. Diamond and Related Materials, 2020, 105, 107812.	3.9	2

#	Article	IF	Citations
199	Interaction of free-base and 3d metal(II) phthalocyanines with open-shell endohedral fullerenes species N@C60 and P@C60. Diamond and Related Materials, 2022, 126, 109075.	3.9	2
200	Infrared spectra of amide products formed during chemisorption of ?-amino acid vapors on the surface of ?-aminopropyl-aerosil. Journal of Applied Spectroscopy, 1990, 52, 616-619.	0.7	1
201	Mechanism of the chemical conversions of amino acids with various chain lengths on a dehydrated silica surface. Theoretical and Experimental Chemistry, 1991, 26, 592-597.	0.8	1
202	(5,5,7,12,12,14-Hexamethyl-1,4,8,11-tetraazacyclotetradeca-1,4,8,11-tetraene-N,N',N'',N''')nickel(II) diperchlorate. Acta Crystallographica Section C: Crystal Structure Communications, 1999, 55, 160-162.	0.4	1
203	A 1:1.5 complex of 5,7-dioxo-1,4,8,11-tetraazacyclotetradecane and 2,6-dihydoxyanthraquinone. Journal of Chemical Crystallography, 2000, 30, 199-202.	1.1	1
204	A 1:1:2 complex between 1,4,8,11-tetraazacyclotetradecane (cyclam), anthraflavic acid, and water. Journal of Chemical Crystallography, 2000, 30, 339-343.	1.1	1
205	Generation of paramagnetic centers in carboxylated materials via coordination attachment of diamagnetic tetraazamacrocyclic complexes of nickel(II). Journal of Materials Science, 2020, 55, 5364-5377.	3.7	1
206	Mastophora corpulenta (Banks) Bolas Spider (Araneae: Araneidae) in Central Mexico. Journal of Advanced Microscopy Research, 2016, 11, 156-160.	0.3	1
207	Infestation by a Parasitic Wasp, <I>Arachnophaga sp</I>. (Insecta, Eupelmidae) on the Eggs of a Bolas Spider, <I>Mastophora sp</I>. (Aranae, Araneidae). Journal of Advanced Microscopy Research, 2012, 7, 145-150.	0.3	1
208	Chemical modification of dispersed silica by pyrimidine derivatives. Theoretical and Experimental Chemistry, 1987, 22, 472-476.	0.8	0
209	Chemisorption of vapors of bifunctional ?-amino acids on the chlorinated surface of aerosil. Journal of Applied Spectroscopy, 1990, 52, 104-107.	0.7	0
210	Change in the IR spectra and nature of the thermal transformations of products of chemisorption of amino acids on a dehydrated silica surface. Journal of Applied Spectroscopy, 1991, 55, 874-877.	0.7	0
211	IR spectra of chemisorption products of vapors of aliphatic dicarboxylic, aminobenzoic, and phthalic acids on a dehydrated and aminopropylsilylated surface of pyrogenic silica. Journal of Applied Spectroscopy, 1991, 54, 280-287.	0.7	0
212	Hard-sphere colloids in chemically reacting solvent: Smithâ€“Nezbeda model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 260, 132-137.	2.1	0
213	Selected Peer-Reviewed Papers from 2007 Virtual Conference on Nanoscale Science and Technology (VC-NST), Fayetteville, Arkansas, USA. Journal of Nanoscience and Nanotechnology, 2009, 9, 3269-3270.	0.9	0
214	Selected Peer-Reviewed Papers from NanoMex'09: 2nd International and Interdisciplinary Meeting on Nanoscience and Nanotechnology. Journal of Nanoscience and Nanotechnology, 2011, 11, 5455-5456.	0.9	0
215	Silica: Adsorption of Biomolecules. , 2015, , 6556-6571.		0
216	Reactions of microcrystalline fullerene C60 with amino and aza macrocyclic ligands under solvent-free conditions. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 491-501.	2.1	0

#	Article	IF	Citations
217	Photophysical and morphological properties of Langmuirâ€“Blodgett films of benzothiadiazole derivatives. Chemical Papers, 2021, 75, 967-978.	2.2	0
218	Thermodynamics of Adsorption of Amino Acids, Small Peptides, and Nucleic Acid Components on Silica Adsorbents. Surfactant Science, 2003, , .	0.0	0
219	Structure and Properties of a Series of Arylselenium [60]Fulleropyrrolidine Derivatives. Journal of Computational and Theoretical Nanoscience, 2008, 5, 554-562.	0.4	0
220	Contents of Egg Sacs of a Bolas Spider, <I>Mastophora sp</I>. (Araneae, Araneidae), Infested with a Parasitoid Wasp,<I> Arachnophaga sp</I>. (Insecta, Eupelmidae): A Light Microscopy Examination. Journal of Advanced Microscopy Research, 2013, 8, 39-44.	0.3	0
221	Extraterrestrial Delivery of Simple Biomolecules to the Earth: Survival of Amino Acids and Nucleic Acid Bases. , 1998, , 295-298.		0
222	Morphology of Different Silk Materials Produced by the Bolas Spider <I>Mastophora</I> <I>sp.</I> (Araneae, Araneidae) from Central Mexico: A Scanning Electron Microscopy Study. Journal of Advanced Microscopy Research, 2014, 9, 186-198.	0.3	0