

Elena V Basiuk

List of Publications by Year in descending order

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81
papers

1,524
citations

318942

23
h-index

388640

36
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81
all docs

81
docs citations

81
times ranked

1978
citing authors

#	ARTICLE	IF	CITATIONS
1	Deposition of Gold Nanoparticles onto Thiol-Functionalized Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16290-16295.	1.2	120
2	Interaction of Oxidized Single-Walled Carbon Nanotubes with Vaporous Aliphatic Amines. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1588-1597.	1.2	117
3	Direct Solvent-Free Amination of Closed-Cap Carbon Nanotubes: A Link to Fullerene Chemistry. <i>Nano Letters</i> , 2004, 4, 863-866.	4.5	114
4	Irradiation of Single-Walled Carbon Nanotubes with High-Energy Protons. <i>Nano Letters</i> , 2002, 2, 789-791.	4.5	64
5	Effects of Covalent Functionalization on the Biocompatibility Characteristics of Multi-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 2347-2356.	0.9	51
6	Noncovalent bonding of 3d metal(II) phthalocyanines with single-walled carbon nanotubes: A combined DFT and XPS study. <i>Applied Surface Science</i> , 2019, 470, 622-630.	3.1	49
7	Adsorption Modification of Single-Walled Carbon Nanotubes with Tetraazaannulene Macrocyclic Complexes. <i>Nano Letters</i> , 2002, 2, 1249-1252.	4.5	45
8	Noncovalent functionalization of graphene with a Ni tetraaza[14]annulene complex. <i>Dalton Transactions</i> , 2014, 43, 7413-7428.	1.6	40
9	Solvent-free covalent functionalization of nanodiamond with amines. <i>Applied Surface Science</i> , 2013, 275, 324-334.	3.1	35
10	Solvent-free one-step covalent functionalization of graphene oxide and nanodiamond with amines. <i>RSC Advances</i> , 2016, 6, 113596-113610.	1.7	34
11	Ecotoxicological Effects of Carbon Nanomaterials on Algae, Fungi and Plants. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 3016-3038.	0.9	32
12	One-step nondestructive functionalization of graphene oxide paper with amines. <i>RSC Advances</i> , 2018, 8, 15253-15265.	1.7	32
13	Noncovalent functionalization of pristine CVD single-walled carbon nanotubes with 3d metal(II) phthalocyanines by adsorption from the gas phase. <i>Applied Surface Science</i> , 2018, 436, 1123-1133.	3.1	32
14	"Green" derivatization of carbon nanotubes with Nylon 6 and L-alanine. <i>Journal of Materials Chemistry</i> , 2006, 16, 4420-4426.	6.7	31
15	Direct Amidation of Terminal Carboxylic Groups of Armchair and Zigzag Single-Walled Carbon Nanotubes: A Theoretical Study. <i>Nano Letters</i> , 2001, 1, 657-661.	4.5	30
16	Solvent-free covalent functionalization of multi-walled carbon nanotubes and nanodiamond with diamines: Looking for cross-linking effects. <i>Applied Surface Science</i> , 2012, 259, 465-476.	3.1	30
17	Coordination functionalization of graphene oxide with tetraazamacrocyclic complexes of nickel(II): Generation of paramagnetic centers. <i>Applied Surface Science</i> , 2016, 371, 16-27.	3.1	27
18	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2000, 38, 45-56.	1.6	26

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19	Polymerization of C60 fullerene thin films by UV pulsed laser irradiation. Applied Surface Science, 2005, 248, 243-247.	3.1	26
20	Noncovalent functionalization of single-walled carbon nanotubes with porphyrins. Applied Surface Science, 2013, 275, 168-177.	3.1	26
21	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
22	“Green” Functionalization of Pristine Multi-Walled Carbon Nanotubes with Long-Chain Aliphatic Amines. Journal of Nanoscience and Nanotechnology, 2011, 11, 5546-5554.	0.9	23
23	Solvent-free functionalization of carbon nanotube buckypaper with amines. Applied Surface Science, 2015, 357, 1355-1368.	3.1	23
24	Solvent-free functionalization of fullerene C60 and pristine multi-walled carbon nanotubes with aromatic amines. Applied Surface Science, 2015, 328, 45-62.	3.1	22
25	Noncovalent complexes of C_{80} fullerene with phthalocyanines. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 69-75.	1.0	21
26	Reaction of silica-supported fullerene C60 with nonylamine vapor. Carbon, 2003, 41, 2339-2346.	5.4	19
27	Solvent-Free Derivatization of Pristine Multi-Walled Carbon Nanotubes with Amines. Journal of Nanoscience and Nanotechnology, 2005, 5, 984-990.	0.9	19
28	Poly(vinyl alcohol)/CNT composites: An effect of cross-linking with glutaraldehyde. Superlattices and Microstructures, 2009, 46, 379-383.	1.4	19
29	Complexation of free-base and 3d transition metal(II) phthalocyanines with fullerene C_{60} : A dispersion-corrected DFT study. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 410-416.	1.0	18
30	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.	0.9	18
31	Solvent-free derivatization of pristine multi-walled carbon nanotubes with dithiols. Materials Letters, 2006, 60, 3741-3746.	1.3	17
32	Gas-phase noncovalent functionalization of carbon nanotubes with a Ni(II) tetraaza[14]annulene complex. Applied Surface Science, 2013, 270, 634-647.	3.1	17
33	Graphene oxide and nanodiamond: same carboxylic groups, different complexation properties. RSC Advances, 2017, 7, 17442-17450.	1.7	16
34	Carbon Nanotubes and Graphene Promote Pyrolysis of Free-Base Phthalocyanine. Journal of Physical Chemistry Letters, 2018, 9, 4420-4427.	2.1	16
35	Nanostructured Diamine-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.	1.1	15
36	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.	2.0	14

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37	Cross-Linking of C ₆₀ Films with 1,8-Diaminooctane and Further Decoration with Silver Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 3563-3571.	0.9	13
38	Phytotoxicity of carbon nanotubes and nanodiamond in long-term assays with Cactaceae plant seedlings. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 141-149.	1.0	13
39	Aggregation of Human Serum Albumin on Graphite and Single-Walled Carbon Nanotubes as Studied by Scanning Probe Microscopies. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 5491-5498.	0.9	12
40	Deposition of silver nanoparticles onto human serum albumin-functionalised multi-walled carbon nanotubes. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 264-270.	0.9	11
41	Stability of interstellar fullerenes under high-dose β -irradiation. <i>Advances in Space Research</i> , 2004, 33, 72-75.	1.2	10
42	Interactions of Porphyrins with Low-Dimensional Carbon Materials. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 1383-1411.	0.4	10
43	Effect of structural defects on the strength of adsorption of La and Lu species on graphene. <i>Diamond and Related Materials</i> , 2019, 100, 107597.	1.8	10
44	Dielectric Properties of (C ₆₀ + C ₇₀) Ferroelectric Liquid Crystal Composite. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2004, 12, 681-690.	1.0	9
45	Green Chemistry of Carbon Nanomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 644-672.	0.9	9
46	Interactions between cation-encapsulated single-walled carbon nanotubes M@SWNT (M=H, Li, Na) and nucleophiles. <i>Computational Materials Science</i> , 2008, 44, 240-246.	1.4	8
47	Solvent-free derivatization of oxidized single-walled carbon nanotubes and nanodiamond with aminobenzo-crown ethers. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 653-661.	1.0	8
48	Solvent-Free Covalent Functionalization of Fullerene C ₆₀ and Pristine Multi-Walled Carbon Nanotubes with Crown Ethers. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6173-6184.	0.9	8
49	(C-rac-5,5,7,12,12,14-Hexamethyl-1,4,8,11-tetraazacyclotetradecane- β 4N)(nicotinato-O, β 2)nickel(II) perchlorate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2001, 57, 553-555.	0.4	7
50	Interaction of Thermally Pretreated Carbon Nanomaterials with Water Vapor. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 77-81.	0.9	7
51	Optical and electrical characterization of chemically and photopolymerized C ₆₀ thin films on silicon substrates. <i>Thin Solid Films</i> , 2007, 515, 7716-7720.	0.8	7
52	Fullerene C ₆₀ Films Cross-Linked with Octane-1,8-Dithiol: Preparation, Characterization and the Use as Template for Chemical Deposition of Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3828-3837.	0.9	7
53	Transformation of Plant Cell Suspension Cultures with Amine-Functionalized Multi-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7461-7471.	0.9	7
54	Eco-friendly synthesis of graphene oxide-silver nanoparticles hybrids: The effect of amine derivatization. <i>Diamond and Related Materials</i> , 2021, 111, 108208.	1.8	7

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55	High-energy ball-milling preparation and characterization of Ln ₂ O ₃ @graphite nanocomposites. <i>Materials Today Communications</i> , 2021, 26, 102030.	0.9	7
56	Systemic Phytotoxic Impact of as-Prepared Carbon Nanotubes in Long-Term Assays: A Case Study of <i>Parodia ayopayana</i> (Cactaceae). <i>Science of Advanced Materials</i> , 2013, 5, 1337-1345.	0.1	7
57	Microwave Irradiation of Pristine Multi-Walled Carbon Nanotubes in Vacuum. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 448-455.	0.9	6
58	Effects of solvent-free amine functionalization of graphene oxide and nanodiamond on bacterial growth. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021, 29, 58-66.	1.0	6
59	Phototransformation of C ₆₀ Thin Films by UV Pulsed Laser Irradiation: Comparative Photoacoustic, AFM, and Raman Studies. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 1414-1418.	0.9	6
60	Regioselectivity in Azahydro[60]fullerene Derivatives: Application of General-Purpose Reactivity Indicators. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8154-8163.	1.1	5
61	Photoluminescent properties of liposome-encapsulated amine-functionalized nanodiamonds. <i>Nano Express</i> , 2020, 1, 030009.	1.2	5
62	Adsorption of Lanthanide Atoms on Graphene: Similar, Yet Different. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6042-6047.	2.1	5
63	Spontaneous anisotropic etching of the InP(100) surface in concentrated hydrochloric and sulfuric acids. <i>Surface and Coatings Technology</i> , 1994, 67, 51-54.	2.2	4
64	Molecular modeling of octahedral complex cations composed of [Ni(II)(rac-Me ₆ [14]aneN ₄)] ²⁺ units and bidentate carboxylate ligands. <i>Computational and Theoretical Chemistry</i> , 2001, 536, 17-24.	1.5	4
65	Optical characterization of fullerene films on flat and patterned semiconductor substrates. <i>Carbon</i> , 2004, 42, 1089-1093.	5.4	4
66	Stability of interstellar fullerenes under high-dose γ -irradiation: new data. <i>Advances in Space Research</i> , 2005, 36, 173-177.	1.2	4
67	Nanohybrids of Nylon 6 with Multi-Walled Carbon Nanotubes: Solvent-Free Polymerization of ϵ -Caprolactam Under Variable Experimental Conditions. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3313-3319.	0.9	4
68	Genotoxic Properties of Nylon-6/MWNTs Nanohybrid. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4727-4734.	0.9	4
69	Chemical Functionalization of Inner Walls of Carbon Nanotubes with Long-Chain Aliphatic Amines. <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 712-718.	0.4	4
70	Morphology, atomic composition and photoelectric properties of the microrelief InP-electrolyte interface. <i>Applied Surface Science</i> , 1995, 90, 489-495.	3.1	3
71	Interaction Between NO ₂ and an Elongated Fullerene C ₆₀ . <i>Journal of Computational and Theoretical Nanoscience</i> , 2010, 7, 408-413.	0.4	3
72	Fullerene Thin Films Functionalized by 1,5-Diaminonaphthalene: Preparation and Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 5569-5573.	0.9	3

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73	A dispersion-corrected density functional theory study of the noncovalent interactions between nucleobases and carbon nanotube models containing stone-wales defects. <i>Journal of Computational Chemistry</i> , 2020, 41, 780-789.	1.5	3
74	Chemical Crosslinking in C60 Thin Films. , 2006, , 453-462.		3
75	Solvent-Free Functionalization of Carbon Nanomaterials. , 2015, , 163-205.		3
76	Amine-Functionalized Multi-Walled Carbon Nanotubes: An Atomic Force Microscopy Study. <i>Journal of Scanning Probe Microscopy</i> , 2009, 4, 100-106.	0.0	3
77	N-doped carbon nanofibers from pyrolysis of free-base phthalocyanine. <i>Diamond and Related Materials</i> , 2020, 105, 107812.	1.8	2
78	Generation of paramagnetic centers in carboxylated materials via coordination attachment of diamagnetic tetraazamacrocyclic complexes of nickel(II). <i>Journal of Materials Science</i> , 2020, 55, 5364-5377.	1.7	1
79	Growth of C60 Fullerene Films on Semiconductor Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 2003, 768, 3121.	0.1	0
80	Reactions of microcrystalline fullerene C60 with amino and aza macrocyclic ligands under solvent-free conditions. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 491-501.	1.0	0
81	Atomic Force Microscopy of Extraterrestrial Samples. <i>Journal of Advanced Microscopy Research</i> , 2010, 5, 159-176.	0.3	0