

Elena Bekyarova

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1228144/publications.pdf>

Version: 2024-02-01

98
papers

11,084
citations

66234

42
h-index

39575

94
g-index

103
all docs

103
docs citations

103
times ranked

14367
citing authors

#	ARTICLE	IF	CITATIONS
1	The coordination chemistry of oxide and nanocarbon materials. Dalton Transactions, 2022, 51, 8557-8570.	1.6	7
2	Design of Carbon Nanomaterials for Energy Applications. ECS Meeting Abstracts, 2022, MA2022-01, 618-618.	0.0	0
3	Evolution of cellulose acetate to monolayer graphene. Carbon, 2021, 174, 24-35.	5.4	15
4	Synergistic enhancement of thermal conductivity by addition of graphene nanoplatelets to three-dimensional boron nitride scaffolds for polyamide 6 composites. Polymer Engineering and Science, 2021, 61, 1415-1426.	1.5	11
5	Origin of the Giant Enhanced Raman Scattering by Sulfur Chains Encapsulated inside Single-Wall Carbon Nanotubes. ACS Nano, 2021, 15, 8574-8582.	7.3	10
6	Carbon Nanomaterials for Energy Applications. ECS Meeting Abstracts, 2021, MA2021-01, 494-494.	0.0	0
7	Hexagonal Boron Nitride Encapsulation of Organic Microcrystals and Energy-Transfer Dynamics. Journal of Physical Chemistry C, 2020, 124, 21170-21177.	1.5	1
8	Chemically Functionalized Water-Soluble Single-Walled Carbon Nanotubes Obstruct Vesicular/Plasmalemmal Recycling in Astrocytes Down-Stream of Calcium Ions. Cells, 2020, 9, 1597.	1.8	2
9	Shaping Organic Microcrystals Using Focused Ion Beam Milling. Crystal Growth and Design, 2020, 20, 1583-1589.	1.4	12
10	Antimicrobial Mechanisms and Effectiveness of Graphene and Graphene-Functionalized Biomaterials. A Scope Review. Frontiers in Bioengineering and Biotechnology, 2020, 8, 465.	2.0	165
11	Covalent Atomic Bridges Enable Unidirectional Enhancement of Electronic Transport in Aligned Carbon Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 19315-19323.	4.0	27
12	MoS ₂ -Based Optoelectronic Gas Sensor with Sub-parts-per-billion Limit of NO ₂ Gas Detection. ACS Nano, 2019, 13, 3196-3205.	7.3	349
13	(Invited) Design of Metal - Carbon Nanotube Structures for Electronic and Optoelectronic Applications. ECS Meeting Abstracts, 2019, , .	0.0	0
14	Organometallic chemistry of graphene: Photochemical complexation of graphene with group 6 transition metals. Carbon, 2018, 129, 450-455.	5.4	22
15	Effects of Chemically-Functionalized Single-Walled Carbon Nanotubes on the Morphology and Vitality of D54MG Human Glioblastoma Cells. Neuroglia (Basel, Switzerland), 2018, 1, 327-338.	0.3	3
16	Substrate temperature effect during the deposition of (Cu/Sn/Cu/Zn) stacked precursor CZTS thin film deposited by electron-beam evaporation. Journal of Materials Science: Materials in Electronics, 2018, 29, 20476-20484.	1.1	28
17	Effect of constructive rehybridization on transverse conductivity of aligned single-walled carbon nanotube films. Materials Today, 2018, 21, 937-943.	8.3	10
18	Protection of Molecular Microcrystals by Encapsulation under Single-Layer Graphene. ACS Omega, 2018, 3, 8129-8134.	1.6	14

#	ARTICLE	IF	CITATIONS
19	High Modulation Speed, Depth, and Coloration Efficiency of Carbon Nanotube Thin Film Electrochromic Device Achieved by Counter Electrode Impedance Matching. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800861.	1.9	19
20	Differentiation of stem cells from apical papilla into neural lineage using graphene dispersion and single walled carbon nanotubes. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2653-2661.	2.1	32
21	Sublimation-assisted graphene transfer technique based on small polyaromatic hydrocarbons. <i>Nanotechnology</i> , 2017, 28, 255701.	1.3	21
22	Visible-Blind UV Photodetector Based on Single-Walled Carbon Nanotube Thin Film/ZnO Vertical Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37094-37104.	4.0	67
23	Advances in transferring chemical vapour deposition graphene: a review. <i>Materials Horizons</i> , 2017, 4, 1054-1063.	6.4	121
24	(Invited) Effect of Covalent Chemistry on the Electronic Structure and Properties of the Carbon Allotropes. <i>ECS Transactions</i> , 2017, 77, 569-579.	0.3	2
25	A solid state energy storage device with supercapacitorâ€“battery hybrid design. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15266-15272.	5.2	31
26	Fast Electrochromic Device Based on Single-Walled Carbon Nanotube Thin Films. <i>Nano Letters</i> , 2016, 16, 5386-5393.	4.5	77
27	Large-scale cellulose-assisted transfer of graphene toward industrial applications. <i>Carbon</i> , 2016, 110, 286-291.	5.4	38
28	Application of Organometallic Chemistry to the Electrical Interconnection of Graphene Nanoplatelets. <i>Chemistry of Materials</i> , 2016, 28, 2260-2266.	3.2	17
29	Giant Raman Response to the Encapsulation of Sulfur in Narrow Diameter Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2016, 138, 40-43.	6.6	43
30	Solution-phase synthesis of chromium-functionalized single-walled carbon nanotubes. <i>Materials Letters</i> , 2015, 142, 312-316.	1.3	5
31	Networks of Semiconducting SWNTs: Contribution of Midgap Electronic States to the Electrical Transport. <i>Accounts of Chemical Research</i> , 2015, 48, 2270-2279.	7.6	37
32	Effect of Lanthanide Metal Complexation on the Properties and Electronic Structure of Single-Walled Carbon Nanotube Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28013-28018.	4.0	5
33	Chemically functionalized single-walled carbon nanotubes enhance the glutamate uptake characteristics of mouse cortical astrocytes. <i>Amino Acids</i> , 2015, 47, 1379-1388.	1.2	17
34	Photochemical generation of bis-hexahapto chromium interconnects between the graphene surfaces of single-walled carbon nanotubes. <i>Materials Horizons</i> , 2015, 2, 81-85.	6.4	12
35	Formation of Transition Metal Cluster Adducts on the Surface of Single-walled Carbon Nanotubes: HRTEM Studies. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 47-53.	1.0	3
36	Optical and electronic properties of thin films and solutions of functionalized forms of graphene and related carbon materials. <i>Carbon</i> , 2014, 72, 82-88.	5.4	23

#	ARTICLE	IF	CITATIONS
37	Hexahapto-lanthanide interconnects between the conjugated surfaces of single-walled carbon nanotubes. Dalton Transactions, 2014, 43, 7379-7382.	1.6	14
38	Effect of Atomic Interconnects on Percolation in Single-Walled Carbon Nanotube Thin Film Networks. Nano Letters, 2014, 14, 3930-3937.	4.5	42
39	Changes in the Morphology and Proliferation of Astrocytes Induced by Two Modalities of Chemically Functionalized Single-Walled Carbon Nanotubes are Differentially Mediated by Glial Fibrillary Acidic Protein. Nano Letters, 2014, 14, 3720-3727.	4.5	20
40	Chemically Engineered Graphene-Based 2D Organic Molecular Magnet. ACS Nano, 2013, 7, 10011-10022.	7.3	47
41	Chemically Functionalized Single-Walled Carbon Nanotube Films Modulate the Morpho-Functional and Proliferative Characteristics of Astrocytes. Nano Letters, 2013, 13, 4387-4392.	4.5	25
42	Effect of Covalent Chemistry on the Electronic Structure and Properties of Carbon Nanotubes and Graphene. Accounts of Chemical Research, 2013, 46, 65-76.	7.6	161
43	Organometallic Hexahapto Functionalization of Single Layer Graphene as a Route to High Mobility Graphene Devices. Advanced Materials, 2013, 25, 1131-1136.	11.1	59
44	Charge-compensated, semiconducting single-walled carbon nanotube thin film as an electrically configurable optical medium. Nature Photonics, 2013, 7, 459-465.	15.6	37
45	Covalent chemistry in graphene electronics. Materials Today, 2012, 15, 276-285.	8.3	58
46	Chemically Functionalized Water-Soluble Single-Walled Carbon Nanotubes Modulate Morpho-Functional Characteristics of Astrocytes. Nano Letters, 2012, 12, 4742-4747.	4.5	38
47	Synthesis, Structure and Solid State Properties of Cyclohexanemethylamine Substituted Phenalenyl Based Molecular Conductor. Crystals, 2012, 2, 446-465.	1.0	4
48	Solidâ€state Bisâ€hexahaptoâ€metal complexation of singleâ€walled carbon nanotubes. Journal of Physical Organic Chemistry, 2012, 25, 607-610.	0.9	26
49	Synthesis, structure and solid state properties of benzannulated phenalenyl based neutral radical conductor. Journal of Physical Organic Chemistry, 2012, 25, 566-573.	0.9	11
50	Hexahaptoâ€Metal Complexes of Singleâ€Walled Carbon Nanotubes. Macromolecular Chemistry and Physics, 2012, 213, 1001-1019.	1.1	35
51	Chemistry at the Dirac Point: Dielsâ€Alder Reactivity of Graphene. Accounts of Chemical Research, 2012, 45, 673-682.	7.6	158
52	High Energy Density Supercapacitor Based on a Hybrid Carbon Nanotubeâ€Reduced Graphite Oxide Architecture. Advanced Energy Materials, 2012, 2, 438-444.	10.2	182
53	Reversible Grafting of Î±â€Naphthylmethyl Radicals to Epitaxial Graphene. Angewandte Chemie - International Edition, 2012, 51, 4901-4904.	7.2	32
54	Effect of Group 6 Transition Metal Coordination on the Conductivity of Graphite Nanoplatelets. Materials Letters, 2012, 80, 171-174.	1.3	20

#	ARTICLE	IF	CITATIONS
55	Covalent Chemistry for Graphene Electronics. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2487-2498.	2.1	131
56	Organometallic chemistry of extended periodic π -electron systems: hexahapto-chromium complexes of graphene and single-walled carbon nanotubes. <i>Chemical Science</i> , 2011, 2, 1326.	3.7	96
57	Synthesis, Dispersion, and Viscosity of Poly(ethylene glycol)-Functionalized Water-Soluble Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2011, 23, 1246-1253.	3.2	47
58	Aryl Functionalization as a Route to Band Gap Engineering in Single Layer Graphene Devices. <i>Nano Letters</i> , 2011, 11, 4047-4051.	4.5	136
59	Diels-Alder Chemistry of Graphite and Graphene: Graphene as Diene and Dienophile. <i>Journal of the American Chemical Society</i> , 2011, 133, 3324-3327.	6.6	253
60	Effect of Nitrophenyl Functionalization on the Magnetic Properties of Epitaxial Graphene. <i>Small</i> , 2011, 7, 1175-1180.	5.2	65
61	Enhanced photosensitivity of electro-oxidized epitaxial graphene. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	21
62	Chemically Engineered Single-Walled Carbon Nanotube Materials for the Electronic Detection of Hydrogen Chloride. <i>Advanced Materials</i> , 2010, 22, 848-852.	11.1	24
63	Electro-oxidized Epitaxial Graphene Channel Field-Effect Transistors with Single-Walled Carbon Nanotube Thin Film Gate Electrode. <i>Journal of the American Chemical Society</i> , 2010, 132, 14429-14436.	6.6	38
64	Dependence of the thermal conductivity of two-dimensional graphite nanoplatelet-based composites on the nanoparticle size distribution. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 334216.	0.7	41
65	Spectroscopy of Covalently Functionalized Graphene. <i>Nano Letters</i> , 2010, 10, 4061-4066.	4.5	507
66	Chemical approach to the realization of electronic devices in epitaxial graphene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 184-186.	1.2	39
67	Chemical Modification of Epitaxial Graphene: Spontaneous Grafting of Aryl Groups. <i>Journal of the American Chemical Society</i> , 2009, 131, 1336-1337.	6.6	782
68	Conductive Single-Walled Carbon Nanotube Substrates Modulate Neuronal Growth. <i>Nano Letters</i> , 2009, 9, 264-268.	4.5	177
69	Functionalization and Dissolution of Nitric Acid Treated Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2009, 131, 18153-18158.	6.6	146
70	Enhanced Thermal Conductivity in a Hybrid Graphite Nanoplatelet " Carbon Nanotube Filler for Epoxy Composites. <i>Advanced Materials</i> , 2008, 20, 4740-4744.	11.1	878
71	Nanoporosities and catalytic activities of Pd-tailored single wall carbon nanohorns. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 209-214.	5.0	18
72	Graphite Nanoplatelet-Epoxy Composite Thermal Interface Materials. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7565-7569.	1.5	941

#	ARTICLE	IF	CITATIONS
73	Functionalized Single-Walled Carbon Nanotubes for Carbon Fiber~Epoxy Composites. Journal of Physical Chemistry C, 2007, 111, 17865-17871.	1.5	141
74	Mechanism of Ammonia Detection by Chemically Functionalized Single-Walled Carbon Nanotubes:~In Situ Electrical and Optical Study of Gas Analyte Detection. Journal of the American Chemical Society, 2007, 129, 10700-10706.	6.6	86
75	Poly(m-aminobenzene sulfonic acid) functionalized single-walled carbon nanotubes based gas sensor. Nanotechnology, 2007, 18, 165504.	1.3	116
76	Application of Centrifugation to the Large-Scale Purification of Electric Arc-Produced Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 9902-9908.	6.6	110
77	Chemical Engineering of the Single-Walled Carbon Nanotube~Nylon 6 Interface. Journal of the American Chemical Society, 2006, 128, 7492-7496.	6.6	186
78	Incorporation of highly dispersed single-walled carbon nanotubes in a polyimide matrix. Composites Science and Technology, 2006, 66, 1190-1197.	3.8	83
79	Solution Properties of Graphite and Graphene. Journal of the American Chemical Society, 2006, 128, 7720-7721.	6.6	1,215
80	Fabrication and Properties of Conducting Polypyrrole/SWNT-PABS Composite Films and Nanotubes. Electroanalysis, 2006, 18, 1047-1054.	1.5	48
81	Effect of single-walled carbon nanotube purity on the thermal conductivity of carbon nanotube-based composites. Applied Physics Letters, 2006, 89, 133102.	1.5	146
82	Applications of Carbon Nanotubes in Biotechnology and Biomedicine. Journal of Biomedical Nanotechnology, 2005, 1, 3-17.	0.5	242
83	Continuous Spinning of a Single-Walled Carbon Nanotube~Nylon Composite Fiber. Journal of the American Chemical Society, 2005, 127, 3847-3854.	6.6	380
84	Palladium Nanoclusters Deposited on Single-Walled Carbon Nanohorns. Journal of Physical Chemistry B, 2005, 109, 3711-3714.	1.2	55
85	Electronic Properties of Single-Walled Carbon Nanotube Networks. Journal of the American Chemical Society, 2005, 127, 5990-5995.	6.6	363
86	Influence of the Zeta Potential on the Dispersability and Purification of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 11520-11524.	1.2	210
87	Large-Scale Fabrication of Aligned Single-Walled Carbon Nanotube Array and Hierarchical Single-Walled Carbon Nanotube Assembly. Journal of the American Chemical Society, 2004, 126, 16698-16699.	6.6	105
88	Preparation of Single-Walled Carbon Nanotube Reinforced Polystyrene and Polyurethane Nanofibers and Membranes by Electrospinning. Nano Letters, 2004, 4, 459-464.	4.5	502
89	Controlled Opening of Single-Wall Carbon Nanohorns by Heat Treatment in Carbon Dioxide. Journal of Physical Chemistry B, 2003, 107, 4479-4484.	1.2	74
90	Single-Wall Nanostructured Carbon for Methane Storage. Journal of Physical Chemistry B, 2003, 107, 4681-4684.	1.2	199

#	ARTICLE	IF	CITATIONS
91	Adsorption of Supercritical N ₂ and O ₂ on Pore-Controlled Carbon Aerogels. <i>Journal of Colloid and Interface Science</i> , 2001, 238, 357-361.	5.0	11
92	Study on Active Carbon-Supported Two-Component Catalysts for NO Conversion. <i>Journal of Colloid and Interface Science</i> , 1999, 213, 400-404.	5.0	11
93	Microporous Nature of Ce,Zr-Doped Carbon Aerogels. <i>Langmuir</i> , 1999, 15, 7119-7121.	1.6	32
94	CO oxidation on Pd/CeO ₂ –ZrO ₂ catalysts. <i>Catalysis Today</i> , 1998, 45, 179-183.	2.2	146
95	Catalytic Neutralization of NO on a Carbon-Supported Cobalt Oxide Catalyst. <i>Journal of Colloid and Interface Science</i> , 1994, 166, 476-480.	5.0	33
96	Effect of Calcination on Co-Impregnated Active Carbon. <i>Journal of Colloid and Interface Science</i> , 1993, 161, 115-119.	5.0	10
97	Role of triethanolamine in forming Cu ₂ ZnSnS ₄ nanoparticles during solvothermal processing for solar cell applications. <i>International Journal of Energy Research</i> , 0, , .	2.2	3
98	Patterning Submicron Photomechanical Features into Single Diarylethene Crystals Using Electron Beam Lithography. <i>Nanoscale Horizons</i> , 0, , .	4.1	2