Biljana M TodoroviÄ MarkoviÄ

List of Publications by Year
in descending order

96 papers	3,754 citations	172457 29 h-index	133252 59 g-index
98 all docs	98 docs citations	98 times ranked	5929 citing authors

#	Article	IF	Citations
1	In vitro comparison of the photothermal anticancer activity of graphene nanoparticles and carbon nanotubes. Biomaterials, 2011, 32, 1121-1129.	11.4	510
2	Graphene quantum dots as autophagy-inducing photodynamic agents. Biomaterials, 2012, 33, 7084-7092.	11.4	372
3	Photodynamic antibacterial effect of graphene quantum dots. Biomaterials, 2014, 35, 4428-4435.	11.4	341
4	Distinct Cytotoxic Mechanisms of Pristine versus Hydroxylated Fullerene. Toxicological Sciences, 2006, 91, 173-183.	3.1	264
5	The mechanism of cell-damaging reactive oxygen generation by colloidal fullerenes. Biomaterials, 2007, 28, 5437-5448.	11.4	112
6	Carbon Quantum Dots Modified Polyurethane Nanocomposite as Effective Photocatalytic and Antibacterial Agents. ACS Biomaterials Science and Engineering, 2018, 4, 3983-3993.	5.2	108
7	Antibacterial and Antibiofouling Properties of Light Triggered Fluorescent Hydrophobic Carbon Quantum Dots Langmuirâ€“Blodgett Thin Films. ACS Sustainable Chemistry and Engineering, 2018, 6, 4154-4163.	6.7	102
8	Modification of Structural and Luminescence Properties of Graphene Quantum Dots by Gamma Irradiation and Their Application in a Photodynamic Therapy. ACS Applied Materials & Interfaces, 2015, 7, 25865-25874.	8.0	94
9	Multiple mechanisms underlying the anticancer action of nanocrystalline fullerene. European Journal of Pharmacology, 2007, 568, 89-98.	3.5	88
10	Toxicity of pristine versus functionalized fullerenes: mechanisms of cell damage and the role of oxidative stress. Archives of Toxicology, 2012, 86, 1809-1827.	4.2	87
11	Graphene quantum dots suppress proinflammatory T cell responses via autophagy-dependent induction of tolerogenic dendritic cells. Biomaterials, 2017, 146, 13-28.	11.4	84
12	Large Graphene Quantum Dots Alleviate Immune-Mediated Liver Damage. ACS Nano, 2014, 8, 12098-12109.	14.6	82
13	Highly Efficient Antioxidant F- and Cl-Doped Carbon Quantum Dots for Bioimaging. ACS Sustainable Chemistry and Engineering, 2020, 8, 16327-16338.	6.7	71
14	Photo-induced antibacterial activity of four graphene based nanomaterials on a wide range of bacteria. RSC Advances, 2018, 8, 31337-31347.	3.6	69
15	Inactivation of nanocrystalline C60 cytotoxicity by Î³-irradiation. Biomaterials, 2006, 27, 5049-5058.	11.4	64
16	Antibacterial photodynamic activity of carbon quantum dots/polydimethylsiloxane nanocomposites against Staphylococcus aureus, Escherichia coli and Klebsiella pneumoniae. Photodiagnosis and Photodynamic Therapy, 2019, 26, 342-349.	2.6	59
17	Green and facile microwave assisted synthesis of (metal-free) N-doped carbon quantum dots for catalytic applications. Ceramics International, 2019, 45, 17006-17013.	4.8	46
18	Multifractal characterization of single wall carbon nanotube thin films surface upon exposure to optical parametric oscillator laser irradiation. Applied Surface Science, 2014, 289, 97-106.	6.1	44

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19	Opposite effects of nanocrystalline fullerene (C60) on tumour cell growth in vitro and in vivo and a possible role of immunosupression in the cancer-promoting activity of C60. Biomaterials, 2009, 30, 6940-6946.	11.4	42
20	Graphene quantum dots as singlet oxygen producer or radical quencher - The matter of functionalization with urea/thiourea. Materials Science and Engineering C, 2020, 109, 110539.	7.3	42
21	Graphene oxide size and structure pro-oxidant and antioxidant activity and photoinduced cytotoxicity relation on three cancer cell lines. Journal of Photochemistry and Photobiology B: Biology, 2019, 200, 111647.	3.8	39
22	Aloe emodin inhibits the cytotoxic action of tumor necrosis factor. European Journal of Pharmacology, 2007, 568, 248-259.	3.5	38
23	Graphene quantum dots inhibit T cell-mediated neuroinflammation in rats. Neuropharmacology, 2019, 146, 95-108.	4.1	38
24	Comparative study on modification of single wall carbon nanotubes by sodium dodecylbenzene sulfonate and melamine sulfonate superplasticiser. Applied Surface Science, 2009, 255, 6359-6366.	6.1	37
25	Enhancing photoluminescence of graphene quantum dots by thermal annealing of the graphite precursor. Materials Research Bulletin, 2017, 93, 183-193.	5.2	36
26	The protection of cells from nitric oxide-mediated apoptotic death by mechanochemically synthesized fullerene (C60) nanoparticles. Biomaterials, 2009, 30, 2319-2328.	11.4	34
27	Efficient synthesis of fullerenes in RF thermal plasma reactor. Chemical Physics Letters, 2003, 378, 434-439.	2.6	31
28	Oxidative stress-mediated hemolytic activity of solvent exchange-prepared fullerene (C₆₀) nanoparticles. Nanotechnology, 2010, 21, 375102.	2.6	31
29	Antibacterial potential of electrochemically exfoliated graphene sheets. Journal of Colloid and Interface Science, 2017, 500, 30-43.	9.4	31
30	Ambient light induced antibacterial action of curcumin/graphene nanomesh hybrids. RSC Advances, 2017, 7, 36081-36092.	3.6	31
31	A novel method for the functionalization of Î³-irradiated single wall carbon nanotubes with DNA. Nanotechnology, 2009, 20, 445602.	2.6	30
32	Comparison of structural properties of pristine and gamma irradiated single-wall carbon nanotubes: Effects of medium and irradiation dose. Materials Characterization, 2012, 72, 37-45.	4.4	30
33	Semi-transparent, conductive thin films of electrochemical exfoliated graphene. RSC Advances, 2016, 6, 39275-39283.	3.6	29
34	The effect of rapid thermal annealing on structural and electrical properties of TiB2 thin films. Thin Solid Films, 1997, 300, 272-277.	1.8	28
35	Effects of Precursors and Plasma Parameters on Fullerene Synthesis in RF Thermal Plasma Reactor. Plasma Chemistry and Plasma Processing, 2006, 26, 597-608.	2.4	28
36	Preparation of PEDOT:PSS thin films doped with graphene and graphene quantum dots. Synthetic Metals, 2014, 198, 150-154.	3.9	27

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37	Preparation of highly conductive carbon cryogel based on pristine graphene. Synthetic Metals, 2012, 162, 743-747.	3.9	26
38	Photoactive and antioxidant nanochitosan dots/biocellulose hydrogels for wound healing treatment. Materials Science and Engineering C, 2021, 122, 111925.	7.3	26
39	Antibacterial composite hydrogels of graphene quantum dots and bacterial cellulose accelerate wound healing. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 1796-1805.	3.4	25
40	Temperature measurement of carbon arc plasma in helium. Carbon, 2003, 41, 369-371.	10.3	22
41	The effect of annealing temperature and time on synthesis of graphene thin films by rapid thermal annealing. Synthetic Metals, 2015, 209, 461-467.	3.9	21
42	Modulation of Tumor Necrosis Factor-mediated Cell Death by Fullerenes. Pharmaceutical Research, 2008, 25, 1365-1376.	3.5	20
43	Structural, mechanical, and antibacterial features of curcumin/polyurethane nanocomposites. Journal of Applied Polymer Science, 2019, 136, 47283.	2.6	19
44	Surface chemical modification of fullerene by mechanochemical treatment. Applied Surface Science, 2009, 255, 7537-7541.	6.1	18
45	Chronic wound dressings â€“ Pathogenic bacteria anti-biofilm treatment with bacterial cellulose-chitosan polymer or bacterial cellulose-chitosan dots composite hydrogels. International Journal of Biological Macromolecules, 2021, 191, 315-323.	7.5	17
46	Atomic force microscopy study of fullerene-based colloids. Applied Surface Science, 2008, 255, 3283-3288.	6.1	16
47	Raman spectroscopy of graphene nanoribbons synthesized by longitudinal unzipping of multiwall carbon nanotubes. Physica Scripta, 2014, T162, 014023.	2.5	16
48	Gamma irradiation of graphene quantum dots with ethylenediamine: Antioxidant for ion sensing. Ceramics International, 2020, 46, 23611-23622.	4.8	16
49	Comparative Process Analysis of Fullerene Production by the Arc and the Radio-Frequency Discharge Methods. Journal of Nanoscience and Nanotechnology, 2007, 7, 1357-1369.	0.9	16
50	Rapid thermal annealing of nickel-carbon nanowires for graphene nanoribbons formation. Synthetic Metals, 2016, 218, 43-49.	3.9	15
51	Enhanced visible light-triggered antibacterial activity of carbon quantum dots/polyurethane nanocomposites by gamma rays induced pre-treatment. Radiation Physics and Chemistry, 2021, 185, 109499.	2.8	15
52	Raman study of single wall carbon nanotube thin films treated by laser irradiation and dynamic and isothermal oxidation. Journal of Raman Spectroscopy, 2012, 43, 1413-1422.	2.5	14
53	Modification of graphene oxide surfaces with 12-molybdophosphoric acid: Structural and antibacterial study. Materials Chemistry and Physics, 2018, 213, 157-167.	4.0	14
54	Synthesis of amorphous boron carbide by single and multiple charged boron ions bombardment of fullerene thin films. Applied Surface Science, 2007, 253, 4029-4035.	6.1	13

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55	Effects of low gamma irradiation dose on the photoluminescence properties of graphene quantum dots. Optical and Quantum Electronics, 2016, 48, 1.	3.3	13
56	c-Jun N-terminal kinase-dependent apoptotic photocytotoxicity of solvent exchange-prepared curcumin nanoparticles. Biomedical Microdevices, 2016, 18, 37.	2.8	13
57	Bactericidal and antioxidant bacterial cellulose hydrogels doped with chitosan as potential urinary tract infection biomedical agent. RSC Advances, 2021, 11, 8559-8568.	3.6	11
58	Self-assembly of carbon based nanoparticles films by Langmuir-Blodgett method. Journal of the Serbian Chemical Society, 2020, 85, 1095-1127.	0.8	11
59	Facile synthesis of water-soluble curcumin nanocrystals. Journal of the Serbian Chemical Society, 2015, 80, 63-72.	0.8	10
60	Gamma ray assisted modification of carbon quantum dot/polyurethane nanocomposites: structural, mechanical and photocatalytic study. RSC Advances, 2019, 9, 6278-6286.	3.6	10
61	Kinetics of Fullerene Formation in a Contact Arc Generator. Fullerenes, Nanotubes, and Carbon Nanostructures, 1998, 6, 1057-1068.	0.6	9
62	RF thermal plasma processing of fullerenes. Journal Physics D: Applied Physics, 2006, 39, 320-326.	2.8	9
63	Graphene quantum dots and fullerenol as new carbon sources for singleâ€“layer and biâ€“layer graphene synthesis by rapid thermal annealing method. Materials Research Bulletin, 2017, 88, 114-120.	5.2	9
64	Monolayer graphene films through nickel catalyzed transformation of fullerol and graphene quantum dots: a Raman spectroscopy study. Physica Scripta, 2014, T162, 014030.	2.5	8
65	Novel method for graphene functionalization. Physica Scripta, 2014, T162, 014024.	2.5	8
66	Graphene quantum dot antioxidant and proautophagic actions protect SH-SY5Y neuroblastoma cells from oxidative stress-mediated apoptotic death. Free Radical Biology and Medicine, 2021, 177, 167-180.	2.9	8
67	Optical Emission Measurements of Rotational Temperature of C2Radicals in Fullerene Processing. Fullerenes Nanotubes and Carbon Nanostructures, 2004, 12, 647-657.	2.1	7
68	Structural modification of fullerene thin films by highly charged iron ions. Applied Physics A: Materials Science and Processing, 2007, 89, 749-754.	2.3	7
69	Nucleation of calcium hydroxyapatite thin films from simulated body fluid. Surface Engineering, 2010, 26, 532-535.	2.2	7
70	Gamma ray-assisted irradiation of few-layer graphene films: a Raman spectroscopy study. Physica Scripta, 2014, T162, 014025.	2.5	7
71	Structural Analysis of Single Wall Carbon Nanotubes Exposed to Oxidation and Reduction Conditions in the Course of Gamma Irradiation. Journal of Physical Chemistry C, 2014, 118, 16147-16155.	3.1	7
72	Singlet oxygen generation by higher fullerene-based colloids. Journal of the Serbian Chemical Society, 2010, 75, 965-973.	0.8	7

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73	Gamma ray assisted fabrication of fluorescent oligographene nanoribbons. Materials Research Bulletin, 2012, 47, 1996-2000.	5.2	6
74	Raman spectroscopy study of graphene thin films synthesized from solid precursor. Optical and Quantum Electronics, 2016, 48, 1.	3.3	6
75	SYNTHESIS OF FULLERENES BY HOLLOW CATHODE ARC. Fullerenes Nanotubes and Carbon Nanostructures, 2002, 10, 81-87.	2.1	5
76	Surface modification of single-wall carbon nanotube thin films irradiated by microwaves: a Raman spectroscopy study. Physica Scripta, 2013, T157, 014040.	2.5	5
77	Covalent modification of single wall carbon nanotubes upon gamma irradiation in aqueous media. Hemijska Industrija, 2011, 65, 479-487.	0.7	4
78	SYNTHESIS AND CHARACTERIZATION OF ELECTROCHEMICALLY EXFOLIATED GRAPHENE-MOLYBDOPHOSPHATE HYBRID MATERIALS FOR CHARGE STORAGE DEVICES. Electrochimica Acta, 2016, 217, 34-46.	5.2	4
79	Simple route for the preparation of graphene/poly(styreneâ€bâ€butadieneâ€bâ€styrene) nanocomposite films with enhanced electrical conductivity and hydrophobicity. Polymer International, 2018, 67, 1118-1127.	3.1	4
80	Raman study of the interactions between highly ordered pyrolytic graphite (HOPG) and polyoxometalates: The effects of acid concentration. Journal of the Serbian Chemical Society, 2016, 81, 777-787.	0.8	4
81	Photoactive graphene quantum dots/bacterial cellulose hydrogels: Structural, mechanical, and proâ€oxidant study. Journal of Applied Polymer Science, 2022, 139, 51996.	2.6	4
82	Optical Emission Study of RF Thermal Plasma During Fullerene Synthesis. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 215-226.	2.1	3
83	Multiple Charged Nitrogen Ion Beam Irradiation of Fullerene Thin Films. Fullerenes Nanotubes and Carbon Nanostructures, 2007, 15, 113-125.	2.1	3
84	One-step preparation of gold nanoparticles - exfoliated graphene composite by gamma irradiation at low doses for photothermal therapy applications. Materials Characterization, 2021, 173, 110944.	4.4	3
85	Sputtering yield and morphological changes of TiB2 coatings induced by different incident beams. Nuclear Instruments & Methods in Physics Research B, 1996, 115, 523-527.	1.4	2
86	Model of Improved Arc Generator for Fullerene Production. Fullerenes, Nanotubes, and Carbon Nanostructures, 1997, 5, 903-918.	0.6	2
87	Raman spectroscopy study of carbon-doped resorcinol-formaldehyde thin films. Physica Scripta, 2013, T157, 014039.	2.5	2
88	The effect of oxidation on structural and electrical properties of single wall carbon nanotubes. Hemijska Industrija, 2011, 65, 363-370.	0.7	2
89	Optical diagnostics of fullerene synthesis in the RF thermal plasma process. Journal of the Serbian Chemical Society, 2005, 70, 79-85.	0.8	2
90	Kinetic Model of Metallocarbohedrene Formation in Arc Plasma Generator. Fullerenes, Nanotubes, and Carbon Nanostructures, 2000, 8, 27-38.	0.6	1

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91	Synthesis of amorphous carbon nitride by single and multiple charged nitrogen ion bombardment of fullerene thin films. Journal Physics D: Applied Physics, 2007, 40, 4264-4270.	2.8	1
92	Treating of Aquatic Pollution by Carbon Quantum Dots. Engineering Materials, 2019, , 121-145.	0.6	1
93	Experimental study of physical parameters significant in fullerene synthesis. Journal of the Serbian Chemical Society, 2003, 68, 543-547.	0.8	1
94	Kinetic Model of Metallofullerene Formation in Contact Arc Generator. Fullerenes, Nanotubes, and Carbon Nanostructures, 1999, 7, 713-724.	0.6	0
95	Comparative analysis of different methods for graphene nanoribbon synthesis. Hemijska Industrija, 2013, 67, 147-156.	0.7	0
96	Influence of the precursor on fullerene synthesis in a RF thermal plasma reactor. Chemical Industry and Chemical Engineering Quarterly, 2006, 12, 246-250.	0.7	0