

Aleksandra Benko

List of Publications by Year in descending order

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30
papers

573
citations

567281

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30
all docs

30
docs citations

30
times ranked

686
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic biphasic curdlan-based scaffold for osteochondral tissue engineering applications – Characterization and preliminary evaluation of mesenchymal stem cell response in vitro. , 2022, 135, 212724.		6
2	Conductive all-carbon nanotube layers: Results on attractive physicochemical, anti-bacterial, anticancer and biocompatibility properties. Materials Science and Engineering C, 2021, 120, 111703.	7.3	12
3	Nanobiosensors for theranostic applications. , 2021, , 511-543.		7
4	Advances in Fabricating the Electrospun Biopolymer-Based Biomaterials. Journal of Functional Biomaterials, 2021, 12, 26.	4.4	29
5	Superabsorbent curdlan-based foam dressings with typical hydrocolloids properties for highly exuding wound management. Materials Science and Engineering C, 2021, 124, 112068.	7.3	38
6	Covalently bonded surface functional groups on carbon nanotubes: from molecular modeling to practical applications. Nanoscale, 2021, 13, 10152-10166.	5.6	24
7	Nanocarrier drug resistant tumor interactions: novel approaches to fight drug resistance in cancer. , 2021, 4, 264-297.		5
8	Fly Ash as an Eco-Friendly Filler for Rigid Polyurethane Foams Modification. Materials, 2021, 14, 6604.	2.9	22
9	Evaluation of pyrolysis and combustion products from foundry binders: potential hazards in metal casting. Journal of Thermal Analysis and Calorimetry, 2020, 140, 2347-2356.	3.6	8
10	Novel synthesis method combining a foaming agent with freeze-drying to obtain hybrid highly macroporous bone scaffolds. Journal of Materials Science and Technology, 2020, 43, 52-63.	10.7	33
11	Elastic and biodegradable chitosan/agarose film revealing slightly acidic pH for potential applications in regenerative medicine as artificial skin graft. International Journal of Biological Macromolecules, 2020, 164, 172-183.	7.5	36
12	Ion-exchanging dialysis as an effective method for protein entrapment in curdlan hydrogel. Materials Science and Engineering C, 2019, 105, 110025.	7.3	11
13	<p>Novel chitosan/agarose/hydroxyapatite nanocomposite scaffold for bone tissue engineering applications: comprehensive evaluation of biocompatibility and osteoinductivity with the use of osteoblasts and mesenchymal stem cells<p>. International Journal of Nanomedicine, 2019, Volume 14. 6615-6630.	6.7	63
14	Addition of carbon nanotubes to electrospun polyacrylonitrile as a way to obtain carbon nanofibers with desired properties. Polymer Degradation and Stability, 2019, 161, 260-276.	5.8	20
15	Fluidized bed combustion fly ash as filler in composite polyurethane materials. Waste Management, 2019, 92, 115-123.	7.4	27
16	Fabrication of CNT/ION hybrids and their impact on the biomedical applicability of PCL-based composite films. Polymer Composites, 2019, 40, E1818-E1830.	4.6	2
17	Pyrolysis of organic ester cured alkaline phenolic resin: Identification of products. Journal of Analytical and Applied Pyrolysis, 2018, 129, 6-12.	5.5	27
18	Interaction of carbon nanotubes coatings with titanium substrate. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	9

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19	Diluent changes the physicochemical and electrochemical properties of the electrophoretically-deposited layers of carbon nanotubes. <i>Applied Surface Science</i> , 2017, 403, 206-217.	6.1	14
20	The use of calcium ions instead of heat treatment for β -1,3-glucan gelation improves biocompatibility of the β -1,3-glucan/HA bone scaffold. <i>Carbohydrate Polymers</i> , 2017, 164, 170-178.	10.2	16
21	Anticorrosive ZrO ₂ and ZrO ₂ -SiO ₂ layers on titanium substrates for biomedical applications. <i>Surface and Coatings Technology</i> , 2017, 331, 221-229.	4.8	24
22	Spectroscopic studies of the influence of CNTs on the thermal conversion of PAN fibrous membranes to carbon nanofibers. <i>Journal of Molecular Structure</i> , 2016, 1126, 94-102.	3.6	15
23	Fabrication of multi-walled carbon nanotube layers with selected properties via electrophoretic deposition: physicochemical and biological characterization. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	23
24	Hybrid chitosan/ β -1,3-glucan matrix of bone scaffold enhances osteoblast adhesion, spreading and proliferation via promotion of serum protein adsorption. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 045001.	3.3	38
25	A model of adsorption of albumin on the implant surface titanium and titanium modified carbon coatings (MWCNT-EPD). 2D correlation analysis. <i>Journal of Molecular Structure</i> , 2016, 1124, 61-70.	3.6	16
26	Vibrational spectroscopic analysis of a metal/carbon nanotube coating interface and the effect of its interaction with albumin. <i>Vibrational Spectroscopy</i> , 2016, 85, 185-195.	2.2	12
27	Titanium Surface Modification with Carbon Nanotubes. Towards Improved Biocompatibility. <i>Acta Physica Polonica A</i> , 2016, 129, 176-178.	0.5	4
28	On the influence of various physicochemical properties of the CNTs based implantable devices on the fibroblasts' reaction in vitro. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 262.	3.6	8
29	Titanium coated with functionalized carbon nanotubes – A promising novel material for biomedical application as an implantable orthopaedic electronic device. <i>Materials Science and Engineering C</i> , 2014, 45, 287-296.	7.3	23
30	Degradation of Glycine and Alanine on Irradiated Quartz. <i>Origins of Life and Evolution of Biospheres</i> , 2013, 43, 119-127.	1.9	1