Aleksandra Benko

List of Publications by Year
in descending order

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30	573	567281 15	642732 23
papers	citations	h-index	g-index

30	30	30	686
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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 . International Journal of Nanomedicine, 2019, Volume 14, 6615-6630.	6.7	63
2	Hybrid chitosan/Î²-1,3-glucan matrix of bone scaffold enhances osteoblast adhesion, spreading and proliferation via promotion of serum protein adsorption. Biomedical Materials (Bristol), 2016, 11, 045001.	3.3	38
3	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
4	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
5	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
6	Advances in Fabricating the Electrospun Biopolymer-Based Biomaterials. Journal of Functional Biomaterials, 2021, 12, 26.	4.4	29
7	Pyrolysis of organic ester cured alkaline phenolic resin: Identification of products. Journal of Analytical and Applied Pyrolysis, 2018, 129, 6-12.	5.5	27
8	Fluidized bed combustion fly ash as filler in composite polyurethane materials. Waste Management, 2019, 92, 115-123.	7.4	27
9	Anticorrosive ZrO 2 and ZrO 2 -SiO 2 layers on titanium substrates for biomedical applications. Surface and Coatings Technology, 2017, 331, 221-229.	4.8	24
10	Covalently bonded surface functional groups on carbon nanotubes: from molecular modeling to practical applications. Nanoscale, 2021, 13, 10152-10166.	5.6	24
11	Titanium coated with functionalized carbon nanotubes â€" A promising novel material for biomedical application as an implantable orthopaedic electronic device. Materials Science and Engineering C, 2014, 45, 287-296.	7.3	23
12	Fabrication of multi-walled carbon nanotube layers with selected properties via electrophoretic deposition: physicochemical and biological characterization. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	23
13	Fly Ash as an Eco-Friendly Filler for Rigid Polyurethane Foams Modification. Materials, 2021, 14, 6604.	2.9	22
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	A model of adsorption of albumin on the implant surface titanium and titanium modified carbon coatings (MWCNT-EPD). 2D correlation analysis. Journal of Molecular Structure, 2016, 1124, 61-70.	3.6	16
16	The use of calcium ions instead of heat treatment for Î²-1,3-glucan gelation improves biocompatibility of the Î²-1,3-glucan/HA bone scaffold. Carbohydrate Polymers, 2017, 164, 170-178.	10.2	16
17	Spectroscopic studies of the influence of CNTs on the thermal conversion of PAN fibrous membranes to carbon nanofibers. Journal of Molecular Structure, 2016, 1126, 94-102.	3.6	15
18	Diluent changes the physicochemical and electrochemical properties of the electrophoretically-deposited layers of carbon nanotubes. Applied Surface Science, 2017, 403, 206-217.	6.1	14

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19	Vibrational spectroscopic analysis of a metal/carbon nanotube coating interface and the effect of its interaction with albumin. Vibrational Spectroscopy, 2016, 85, 185-195.	2.2	12
20	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
21	Ion-exchanging dialysis as an effective method for protein entrapment in curdlan hydrogel. Materials Science and Engineering C, 2019, 105, 110025.	7.3	11
22	Interaction of carbon nanotubes coatings with titanium substrate. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	9
23	On the influence of various physicochemical properties of the CNTs based implantable devices on the fibroblastsâ€™ reaction in vitro. Journal of Materials Science: Materials in Medicine, 2015, 26, 262.	3.6	8
24	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
25	Nanobiosensors for theranostic applications. , 2021, , 511-543.		7
26	Biomimetic biphasic curdlan-based scaffold for osteochondral tissue engineering applications â€“ Characterization and preliminary evaluation of mesenchymal stem cell response in vitro. , 2022, 135, 212724.		6
27	Nanocarrier drug resistant tumor interactions: novel approaches to fight drug resistance in cancer. , 2021, 4, 264-297.		5
28	Titanium Surface Modification with Carbon Nanotubes. Towards Improved Biocompatibility. Acta Physica Polonica A, 2016, 129, 176-178.	0.5	4
29	Fabrication of CNT/ION hybrids and their impact on the biomedical applicability of PCLâ€based composite films. Polymer Composites, 2019, 40, E1818-E1830.	4.6	2
30	Degradation of Glycine and Alanine on Irradiated Quartz. Origins of Life and Evolution of Biospheres, 2013, 43, 119-127.	1.9	1