

Bojana Obradovic

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

3,125
citations

346980

22
h-index

190340

53
g-index

70
all docs

70
docs citations

70
times ranked

3399
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical engineering methods in analyses of 3D cancer cell cultures: Hydrodynamic and mass transport considerations. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2022, 28, 211-223.	0.4	2
2	Effects of poly(vinyl alcohol) blending with Ag/alginate solutions to form nanocomposite fibres for potential use as antibacterial wound dressings. <i>Royal Society Open Science</i> , 2022, 9, 211517.	1.1	4
3	Novel composite scaffolds based on alginate and Mg-doped calcium phosphate fillers: Enhanced hydroxyapatite formation under biomimetic conditions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 2079-2090.	1.6	3
4	Development and Validation of a Long-Term 3D Glioblastoma Cell Culture in Alginate Microfibers as a Novel Bio-Mimicking Model System for Preclinical Drug Testing. <i>Brain Sciences</i> , 2021, 11, 1025.	1.1	14
5	Interdisciplinary crossover for rapid advancements - collaboration between medical and engineering scientists with the focus on Serbia. <i>Srpski Arhiv Za Celokupno Lekarstvo</i> , 2021, 149, 229-235.	0.1	3
6	Evaluation of Nisin and LL-37 Antimicrobial Peptides as Tool to Preserve Articular Cartilage Healing in a Septic Environment. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 561.	2.0	17
7	Preclinical functional characterization methods of nanocomposite hydrogels containing silver nanoparticles for biomedical applications. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 4643-4658.	1.7	11
8	Guidelines for general adsorption kinetics modeling. <i>Hemijska Industrija</i> , 2020, 74, 65-70.	0.3	23
9	Validation of a novel perfusion bioreactor system in cancer research. <i>Hemijska Industrija</i> , 2020, 74, 187-196.	0.3	5
10	Fighting fake science: The key role of scientists. <i>Hemijska Industrija</i> , 2020, 74, 231-236.	0.3	0
11	Novel nano-composite hydrogels with honey effective against multi-resistant clinical strains of <i>Acinetobacter baumannii</i> and <i>Pseudomonas aeruginosa</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 8529-8543.	1.7	17
12	Multifunctional ternary composite films based on PLA and Ag/alginate microbeads: Physical characterization and silver release kinetics. <i>Materials Science and Engineering C</i> , 2019, 98, 1159-1168.	3.8	20
13	Biomimetic characterization reveals enhancement of hydroxyapatite formation by fluid flow in gellan gum and bioactive glass composite scaffolds. <i>Polymer Testing</i> , 2019, 76, 464-472.	2.3	9
14	Novel composite zinc-alginate hydrogels with activated charcoal aimed for potential applications in multifunctional primary wound dressings. <i>Hemijska Industrija</i> , 2019, 73, 37-46.	0.3	4
15	Connecting science and industry with improved communication of research results. <i>Hemijska Industrija</i> , 2019, 73, 73-77.	0.3	0
16	Back to basics: Avoiding errors in scientific research and publications. <i>Hemijska Industrija</i> , 2019, 73, 143-146.	0.3	2
17	Innovation competitions - means to generate valuable ideas, advance products and technologies, and enhance entrepreneurial skills. <i>Hemijska Industrija</i> , 2019, 73, 209-212.	0.3	0
18	Comparative in vivo evaluation of novel formulations based on alginate and silver nanoparticles for wound treatments. <i>Journal of Biomaterials Applications</i> , 2018, 32, 1197-1211.	1.2	49

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19	Activated sludge-loaded polyvinyl alcohol microparticles for starch wastewater treatment in an airlift bioreactor. Korean Journal of Chemical Engineering, 2018, 35, 324-327.	1.2	4
20	Bioreactors with hydrostatic pressures imitating physiological environments in intervertebral discs. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 529-545.	1.3	13
21	FUNCTIONAL BIOREACTOR CHARACTERIZATION TO ASSESS POTENTIALS OF NANOCOMPOSITES BASED ON DIFFERENT ALGINATE TYPES AND SILVER NANOPARTICLES FOR USE AS CARTILAGE TISSUE IMPLANTS. Journal of Biomedical Materials Research - Part A, 2018, 107, 755-768.	2.1	3
22	Achieving high antimicrobial activity: Composite alginate hydrogel beads releasing activated charcoal with an immobilized active agent. Carbohydrate Polymers, 2018, 196, 279-288.	5.1	29
23	Transport of silver nanoparticles from nanocomposite Ag/alginate hydrogels under conditions mimicking tissue implantation. Hemijska Industrija, 2017, 71, 383-394.	0.3	6
24	Silver release from nanocomposite Ag/alginate hydrogels in the presence of chloride ions: experimental results and mathematical modeling. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	17
25	Removal of manganese in batch and fluidized bed systems using beads of zeolite a as adsorbent. Microporous and Mesoporous Materials, 2016, 226, 378-385.	2.2	11
26	Cytotoxicity studies of Ag/alginate nanocomposite hydrogels in 2D and 3D cultures. , 2015, , .		2
27	Dissolution of copper mineral phases in biological fluids and the controlled release of copper ions from mineralized alginate hydrogels. Biomedical Materials (Bristol), 2015, 10, 015006.	1.7	2
28	A comprehensive approach to in vitro functional evaluation of Ag/alginate nanocomposite hydrogels. Carbohydrate Polymers, 2014, 111, 305-314.	5.1	67
29	Silver/poly(N-vinyl-2-pyrrolidone) hydrogel nanocomposites obtained by electrochemical synthesis of silver nanoparticles inside the polymer hydrogel aimed for biomedical applications. Polymer Composites, 2014, 35, 217-226.	2.3	15
30	Removal of Cu(II) from aqueous solutions by using fluidized zeolite A beads: Hydrodynamic and sorption studies. Chemical Engineering Science, 2014, 117, 85-92.	1.9	15
31	Bioreactor validation and biocompatibility of Ag/poly(N-vinyl-2-pyrrolidone) hydrogel nanocomposites. Colloids and Surfaces B: Biointerfaces, 2013, 105, 230-235.	2.5	26
32	Novel kinetic model of the removal of divalent heavy metal ions from aqueous solutions by natural clinoptilolite. Journal of Hazardous Materials, 2012, 233-234, 57-64.	6.5	45
33	Controlled production of alginate nanocomposites with incorporated silver nanoparticles aimed for biomedical applications. Journal of the Serbian Chemical Society, 2012, 77, 1709-1722.	0.4	20
34	Alginate hydrogel microbeads incorporated with Ag nanoparticles obtained by electrochemical method. Materials Chemistry and Physics, 2012, 133, 182-189.	2.0	50
35	Novel alginate based nanocomposite hydrogels with incorporated silver nanoparticles. Journal of Materials Science: Materials in Medicine, 2012, 23, 99-107.	1.7	47
36	Approaches to Mathematical Modeling of Tissue Engineering Systems. , 2012, , 228-250.		0

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37	Synthesis and characterization of silver/poly(N-vinyl-2-pyrrolidone) hydrogel nanocomposite obtained by in situ radiolytic method. <i>Radiation Physics and Chemistry</i> , 2011, 80, 1208-1215.	1.4	61
38	Hydrolysis of Penicillin G by Penicillin G Acylase Immobilized on Chitosan Microbeads in Different Reactor Systems. <i>Chemical Engineering and Technology</i> , 2011, 34, 1706-1714.	0.9	13
39	A validated model of GAG deposition, cell distribution, and growth of tissue engineered cartilage cultured in a rotating bioreactor. <i>Biotechnology and Bioengineering</i> , 2010, 105, 842-853.	1.7	24
40	Evaluation of alginate hydrogels under in vivo-like bioreactor conditions for cartilage tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2869-2879.	1.7	40
41	Controlled swelling and degradation studies of alginate microbeads in dilute sodium-citrate solutions. <i>Hemijaska Industrija</i> , 2010, 64, 253-263.	0.3	5
42	Biomimetic Approaches to Design of Tissue Engineering Bioreactors. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010, , 115-129.	0.5	0
43	A novel bioreactor with mechanical stimulation for skeletal tissue engineering. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2009, 15, 41-44.	0.4	20
44	Application of Electrostatic Extrusion for Flavour Encapsulation and Controlled Release. <i>Sensors</i> , 2008, 8, 1488-1496.	2.1	46
45	Immobilization of yeast cells in PVA particles for beer fermentation. <i>Process Biochemistry</i> , 2007, 42, 1348-1351.	1.8	60
46	Investigations of cell immobilization in alginate: rheological and electrostatic extrusion studies. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 505-510.	1.6	24
47	Cardiac tissue engineering: effects of bioreactor flow environment on tissue constructs. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 485-490.	1.6	35
48	Immobilization of cells by electrostatic droplet generation: a model system for potential application in medicine. <i>International Journal of Nanomedicine</i> , 2006, 1, 163-171.	3.3	36
49	Functional Tissue Engineering of Cartilage and Myocardium. , 2005, , 501-530.		2
50	Tissue Engineering of Cartilage and Myocardium. , 2005, , 99-133.		3
51	Beer Production Using Immobilised Cells. <i>Focus on Biotechnology</i> , 2005, , 259-273.	0.4	20
52	Effects of cell addition on immobilization by electrostatic droplet generation. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2005, 11, 79-84.	0.4	0
53	Operating regime of a biphasic oil/aqueous hollow-fibre reactor with immobilized lipase for oil hydrolysis. <i>Process Biochemistry</i> , 2004, 39, 1377-1385.	1.8	20
54	Immobilization of Cells and Enzymes Using Electrostatic Droplet Generation. <i>Focus on Biotechnology</i> , 2004, , 277-294.	0.4	12

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55	Analysis of the hydrodynamic parameters of external loop air lift bioreactors. <i>Hemijska Industrija</i> , 2004, 58, 10-18.	0.3	4
56	Examination of rheological properties of fine particles as carriers for controlled drug release. <i>Chemical Engineering Communications</i> , 2003, 190, 83-93.	1.5	1
57	In vitro evaluation of the controlled release of antibiotics from liposomes. <i>Hemijska Industrija</i> , 2003, 57, 589-595.	0.3	1
58	Alginate-immobilized lipase by electrostatic extrusion for the purpose of palm oil hydrolysis in lecithin/isooctane system. <i>Process Biochemistry</i> , 2002, 38, 313-318.	1.8	75
59	Electrostatic generation of alginate microbeads loaded with brewing yeast. <i>Process Biochemistry</i> , 2001, 37, 17-22.	1.8	86
60	Integration of engineered cartilage. <i>Journal of Orthopaedic Research</i> , 2001, 19, 1089-1097.	1.2	214
61	Immobilized Yeast Bioreactor Systems for Brewing – Recent Achievements. , 2001, , 277-292.		6
62	Method for Quantitative Analysis of Glycosaminoglycan Distribution in Cultured Natural and Engineered Cartilage. <i>Annals of Biomedical Engineering</i> , 1999, 27, 656-662.	1.3	151
63	Bioreactor cultivation conditions modulate the composition and mechanical properties of tissue-engineered cartilage. <i>Journal of Orthopaedic Research</i> , 1999, 17, 130-138.	1.2	664
64	Gas exchange is essential for bioreactor cultivation of tissue engineered cartilage. , 1999, 63, 197-205.		202
65	Dynamic Cell Seeding of Polymer Scaffolds for Cartilage Tissue Engineering. <i>Biotechnology Progress</i> , 1998, 14, 193-202.	1.3	490
66	Hydrodynamics and mass transfer in a four-phase external loop air lift bioreactor. <i>Biotechnology Progress</i> , 1995, 11, 420-428.	1.3	23
67	Local and Overall Mixing Characteristics of the Gas-Liquid-Solid Air Lift Reactor. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 698-702.	1.8	13
68	Flow regimes and liquid mixing in a draft tube gas-liquid-solid fluidized bed. <i>Chemical Engineering Science</i> , 1992, 47, 3451-3458.	1.9	19