

Zuzanna Buchwald

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

673
citations

586496

16
h-index

721071

23
g-index

48
all docs

48
docs citations

48
times ranked

919
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled release of the drug for osteoporosis from the surface of titanium implants coated with calcium titanate. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 431-437.	1.6	10
2	Formation of the octadecylphosphonic acid layer on the surface of Ti6Al4V ELI titanium alloy and analysis using Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120368.	2.0	3
3	Surface modification of hydroxyapatite with polyhedral oligomeric silsesquioxane. <i>Reactive and Functional Polymers</i> , 2022, 170, 105131.	2.0	2
4	Determination of bisphosphonates anti-resorptive properties based on three forms of ceramic materials: Sorption and release process evaluation. <i>Journal of Pharmaceutical Analysis</i> , 2021, 11, 364-373.	2.4	3
5	Silica-filled methacrylic composites with extremely high compressive strength. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 116, 104319.	1.5	6
6	The fluorescence background in Raman spectra of sound enamel. <i>Vibrational Spectroscopy</i> , 2021, 115, 103275.	1.2	7
7	Metabolic, structural, and proteomic changes in <i>Candida albicans</i> cells induced by the protein-carbohydrate fraction of <i>Dendrobaena veneta</i> coelomic fluid. <i>Scientific Reports</i> , 2021, 11, 16711.	1.6	8
8	Novel Polymer Sorbents with Imprinted Task-Specific Ionic Liquids for Metal Removal. <i>Materials</i> , 2021, 14, 5008.	1.3	3
9	Carbon black modified with 4-hydroxymethylbenzenediazonium salt as filler for phenol-formaldehyde resins and abrasive tools. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48160.	1.3	22
10	Calcium forms of zeolites A and X as fillers in dental restorative materials with remineralizing potential. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109899.	2.2	28
11	<i>Candida albicans</i> cell wall as a target of action for the protein-carbohydrate fraction from coelomic fluid of <i>Dendrobaena veneta</i> . <i>Scientific Reports</i> , 2020, 10, 16352.	1.6	14
12	Calcium montmorillonite and montmorillonite with hydroxyapatite layer as fillers in dental composites with remineralizing potential. <i>Applied Clay Science</i> , 2020, 198, 105822.	2.6	18
13	Lignin-based dual component additives as effective electrode material for energy management systems. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 268-278.	3.6	4
14	Formation of a N_2O_5 -graphite intercalation compound by ozone treatment of natural graphite. <i>Green Chemistry</i> , 2020, 22, 5463-5469.	4.6	9
15	Improving the abrasion resistance of Ti6Al4V alloy by modifying its surface with a diazonium salt and attaching of polyurethane. <i>Scientific Reports</i> , 2020, 10, 19289.	1.6	12
16	Inverse gas chromatography in the examination of adhesion between tooth hard tissues and restorative dental materials. <i>Scientific Reports</i> , 2020, 10, 13476.	1.6	1
17	Thermal exfoliation of electrochemically synthesized graphite intercalation compound with perhenic acid. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1363-1370.	1.2	8
18	Calcium-Rich 13X Zeolite as a Filler with Remineralizing Potential for Dental Composites. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3843-3854.	2.6	19

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19	Inverse gas chromatography in the examination of surface properties of experimental dental composites. <i>Polymer Testing</i> , 2020, 90, 106697.	2.3	7
20	Carbon Fiber and Nickel Coated Carbon Fiberâ€“Silica Aerogel Nanocomposite as Low-Frequency Microwave Absorbing Materials. <i>Materials</i> , 2020, 13, 400.	1.3	16
21	Alphaâ€“keratin and corneous beta protein in the parakeratinized epithelium of the tongue in the domestic goose (<i>Anser anser f. domestica</i>). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2019, 332, 158-166.	0.6	5
22	Siliceousâ€“based monolithic materials coated with a hydroxyapatite layer: Preparation and investigation of drug affinity by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1722-1730.	1.2	2
23	<i>Sida hermaphrodita</i> seeds as the source of anti - <i>Candida albicans</i> activity. <i>Scientific Reports</i> , 2019, 9, 12233.	1.6	9
24	Assessment of the Raman spectroscopy effectiveness in determining the early changes in human enamel caused by artificial caries. <i>Analyst, The</i> , 2019, 144, 1409-1419.	1.7	24
25	Anti- <i>Candida albicans</i> effect of the protein-carbohydrate fraction obtained from the coelomic fluid of earthworm <i>Dendrobaena veneta</i> . <i>PLoS ONE</i> , 2019, 14, e0212869.	1.1	24
26	Zeolite fillers for resin-based composites with remineralizing potential. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 210, 126-135.	2.0	21
27	Active diazonium-modified zeolite fillers for methacrylate-based composites. <i>Composite Interfaces</i> , 2019, 26, 643-657.	1.3	11
28	Determination of storage solutions influence on human enamel by Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2018, 96, 118-124.	1.2	7
29	Modification of Ti6Al4V surface by diazonium compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 191, 27-35.	2.0	11
30	Mechanical properties of experimental composites with different calcium phosphates fillers. <i>Materials Science and Engineering C</i> , 2017, 78, 1101-1108.	3.8	27
31	Persulfate treatment as a method of modifying carbon electrode material for aqueous electrochemical capacitors. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1079-1088.	1.2	8
32	Raman spectroscopy as a tool of early dental caries detectionâ€“new insights. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1094-1102.	1.2	24
33	Localization of Alphaâ€“Keratin and Betaâ€“Keratin (Corneous Beta Protein) in the Epithelium on the Ventral Surface of the Lingual Apex and Its Lingual Nail in the Domestic Goose (<i>Anser Anser f.</i>) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Record</i> , 2017, 300, 1361-1368.	0.8	18
34	The effect of bonding system application on surface characteristics of bovine dentin and enamel. <i>Materials Science and Engineering C</i> , 2017, 76, 1224-1231.	3.8	5
35	Calcium release from experimental dental materials. <i>Materials Science and Engineering C</i> , 2016, 68, 213-220.	3.8	16
36	Experimental and in silico investigations of organic phosphates and phosphonates sorption on polymer-ceramic monolithic materials and hydroxyapatite. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 93, 295-303.	1.9	7

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37	Inverse liquid chromatography as a tool for characterisation of the surface layer of ceramic biomaterials. <i>Journal of Chromatography A</i> , 2016, 1468, 116-125.	1.8	4
38	The application of activated carbon modified by ozone treatment for energy storage. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2857-2864.	1.2	61
39	The method of purifying bioengineered spider silk determines the silk sphere properties. <i>Scientific Reports</i> , 2016, 6, 28106.	1.6	32
40	Inverse Gas Chromatographic Examination of Polymer Composites. <i>Open Chemistry</i> , 2015, 13, .	1.0	16
41	Characterization of light-cured, dental-resin-based biocomposites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	14
42	Surface energy of bovine dentin and enamel by means of inverse gas chromatography. <i>Materials Science and Engineering C</i> , 2015, 49, 382-389.	3.8	15
43	Study of a new resin-based composites containing hydroxyapatite filler using Raman and infrared spectroscopy. <i>Materials Chemistry and Physics</i> , 2014, 145, 304-312.	2.0	24
44	Sorption, solubility, and mass changes of hydroxyapatite-containing composites in artificial saliva, food simulating solutions, tea, and coffee. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	6
45	Characterisation of hydroxyapatite surface modified by poly(ethylene glycol) and poly(hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Over 1.0	1.0	7
46	Identifying compositional and structural changes in spongy and subchondral bone from the hip joints of patients with osteoarthritis using Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2012, 17, 017007.	1.4	54
47	Determination of Collagen Fibers Arrangement in Bone Tissue by Using Transformations of Raman Spectra Maps. <i>Spectroscopy</i> , 2012, 27, 107-117.	0.8	21