

# Tomasz Buchwald

## List of Publications by Year in descending order

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46  
papers

744  
citations

643344

15  
h-index

651938

25  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1102  
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	Ozonation with amoxidation as a method of obtaining O, N-doped carbon electrode material to electrochemical capacitors. <i>Electrochimica Acta</i> , 2022, 413, 140130.	2.6	6
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	Efficient metals removal from waste pickling liquor using novel task specific ionic liquids - classical manner and encapsulation in polymer shell. <i>Separation and Purification Technology</i> , 2021, 262, 118239.	3.9	4
7	The fluorescence background in Raman spectra of sound enamel. <i>Vibrational Spectroscopy</i> , 2021, 115, 103275.	1.2	7
8	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
9	Novel Polymer Sorbents with Imprinted Task-Specific Ionic Liquids for Metal Removal. <i>Materials</i> , 2021, 14, 5008.	1.3	3
10	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
11	Two-step synthesis of well-ordered layered graphite oxide with high oxidation degree. <i>Applied Surface Science</i> , 2020, 507, 145049.	3.1	11
12	<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
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	Thermal exfoliation of electrochemically synthesized graphite intercalation compound with perrenic acid. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1363-1370.	1.2	8
17	Microcapsules containing task-specific ionic liquids for Zn(II) and Cu(II) recovery from dilute aqueous solutions. <i>Separation and Purification Technology</i> , 2020, 250, 117155.	3.9	11
18	Correlation between partial inhibition of hydrogen evolution using thiourea and catalytic activity of AB5-type hydrogen storage alloy towards borohydride electrooxidation. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154553.	2.8	9

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19	Carbon Fiber and Nickel Coated Carbon Fiber/Silica Aerogel Nanocomposite as Low-Frequency Microwave Absorbing Materials. <i>Materials</i> , 2020, 13, 400.	1.3	16
20	The possibility of the polyurethane layer attachment to the unmodified and diazonium-modified titanium alloy applied as potential biomaterial. <i>Surface and Coatings Technology</i> , 2020, 385, 125389.	2.2	8
21	Alpha-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	Siliceous-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</i> , 2019, 144, 1409-1419.	1.7	24
25	Improvement of mechanical properties of silica/phenolic composites and abrasive tools by modification of filler using diazonium salt with hydroxymethyl groups. <i>Polymer Testing</i> , 2019, 75, 373-379.	2.3	7
26	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
27	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
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	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
31	Raman spectroscopy as a tool of early dental caries detection—new insights. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1094-1102.	1.2	24
32	Graphene material preparation through thermal treatment of graphite oxide electrochemically synthesized in aqueous sulfuric acid. <i>RSC Advances</i> , 2017, 7, 19904-19911.	1.7	83
33	Localization of Alpha-Keratin and Beta-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	The application of activated carbon modified by ozone treatment for energy storage. Journal of Solid State Electrochemistry, 2016, 20, 2857-2864.	1.2	61
38	The method of purifying bioengineered spider silk determines the silk sphere properties. Scientific Reports, 2016, 6, 28106.	1.6	32
39	Characterization of light-cured, dental-resin-based biocomposites. Journal of Applied Polymer Science, 2015, 132, .	1.3	14
40	Surface energy of bovine dentin and enamel by means of inverse gas chromatography. Materials Science and Engineering C, 2015, 49, 382-389.	3.8	15
41	The increase of apatite layer formation by the poly(3-hydroxybutyrate) surface modification of hydroxyapatite and $\text{I}^2$ -tricalcium phosphate. Materials Science and Engineering C, 2014, 34, 236-244.	3.8	24
42	Study of a new resin-based composites containing hydroxyapatite filler using Raman and infrared spectroscopy. Materials Chemistry and Physics, 2014, 145, 304-312.	2.0	24
43	Identifying compositional and structural changes in spongy and subchondral bone from the hip joints of patients with osteoarthritis using Raman spectroscopy. Journal of Biomedical Optics, 2012, 17, 017007.	1.4	54
44	Determination of Collagen Fibers Arrangement in Bone Tissue by Using Transformations of Raman Spectra Maps. Spectroscopy, 2012, 27, 107-117.	0.8	21
45	Determination of composition and structure of spongy bone tissue in human head of femur by Raman spectral mapping. Journal of Materials Science: Materials in Medicine, 2011, 22, 1653-1661.	1.7	54
46	Composition And Structure Of Human Trabecular Bone Tissue By Raman Microspectroscopy. , 2010, , .		0