

# ElÅ¼bieta PamuÅa

## List of Publications by Year in descending order

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113  
papers

2,756  
citations

159585

30  
h-index

233421

45  
g-index

118  
all docs

118  
docs citations

118  
times ranked

4202  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Functionalization of Poly(l-lactide-co-glycolide) Membranes with RGD-Grafted Poly(2-oxazoline) for Periodontal Tissue Engineering. <i>Journal of Functional Biomaterials</i> , 2022, 13, 4.	4.4	11
2	Composites Based on Gellan Gum, Alginate and Nisin-Enriched Lipid Nanoparticles for the Treatment of Infected Wounds. <i>International Journal of Molecular Sciences</i> , 2022, 23, 321.	4.1	19
3	Sodium alendronate loaded poly(l-lactide-co-glycolide) microparticles immobilized on ceramic scaffolds for local treatment of bone defects. <i>International Journal of Energy Production and Management</i> , 2021, 8, 293-302.	3.7	13
4	Biomimetic in situ precipitation of calcium phosphate containing silver nanoparticles on zirconia ceramic materials for surface functionalization in terms of antimicrobial and osteoconductive properties. <i>Dental Materials</i> , 2021, 37, 10-18.	3.5	17
5	Fluorescence assay for the determination of glutathione based on a ring-fused 2-pyridone derivative in dietary supplements. <i>Analyst</i> , 2021, 146, 1897-1906.	3.5	10
6	Development of highly porous calcium phosphate bone cements applying nonionic surface active agents. <i>RSC Advances</i> , 2021, 11, 23908-23921.	3.6	5
7	Is Dialdehyde Chitosan a Good Substance to Modify Physicochemical Properties of Biopolymeric Materials?. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3391.	4.1	12
8	Polymeric Scaffolds: Design, Processing, and Biomedical Application. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4552.	4.1	2
9	Surface modification of polyurethane with eptifibatide-loaded degradable nanoparticles reducing risk of blood coagulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 201, 111624.	5.0	5
10	Polymeric Microspheres/Cells/Extracellular Matrix Constructs Produced by Auto-Assembly for Bone Modular Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7897.	4.1	6
11	Modification of heat-induced whey protein isolate hydrogel with highly bioactive glass particles results in promising biomaterial for bone tissue engineering. <i>Materials and Design</i> , 2021, 205, 109749.	7.0	14
12	Plasma electrolytic oxidation as an effective tool for production of copper incorporated bacteriostatic coatings on Ti-15Mo alloy. <i>Applied Surface Science</i> , 2021, 563, 150284.	6.1	10
13	Advancements in structure-property correlation studies of cross-linked citric acid-based elastomers from the perspective of medical application. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6425-6440.	5.8	9
14	Poly(amidoamine) Dendrimers as Nanocarriers for 5-Fluorouracil: Effectiveness of Complex Formation and Cytotoxicity Studies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11167.	4.1	8
15	Novel naturally derived whey protein isolate and aragonite biocomposite hydrogels have potential for bone regeneration. <i>Materials and Design</i> , 2020, 188, 108408.	7.0	26
16	Surface-Modified Poly(l-lactide-co-glycolide) Scaffolds for the Treatment of Osteochondral Critical Size Defects-In Vivo Studies on Rabbits. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7541.	4.1	8
17	Evaluation of the In Vitro Stability of Stimuli-Sensitive Fatty Acid-Based Microparticles for the Treatment of Lung Cancer. <i>Langmuir</i> , 2020, 36, 11138-11146.	3.5	4
18	Physico-chemical and biological evaluation of doxycycline loaded into hybrid oxide-polymer layer on Ti-Mo alloy. <i>Bioactive Materials</i> , 2020, 5, 553-563.	15.6	15

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19	Antibacterial and cytocompatible coatings based on poly(adipic anhydride) for a Ti alloy surface. <i>Bioactive Materials</i> , 2020, 5, 709-720.	15.6	20
20	Marine-Inspired Enzymatic Mineralization of Dairy-Derived Whey Protein Isolate (WPI) Hydrogels for Bone Tissue Regeneration. <i>Marine Drugs</i> , 2020, 18, 294.	4.6	7
21	Electrochemical modification of the Ti-15Mo alloy surface in solutions containing ZnO and Zn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> particles. <i>Materials Science and Engineering C</i> , 2020, 115, 111098.	7.3	29
22	Superparamagnetic Iron Oxide Nanoparticles Modified with Silica Layers as Potential Agents for Lung Cancer Treatment. <i>Nanomaterials</i> , 2020, 10, 1076.	4.1	50
23	Physico-Chemical Characterization and Biological Tests of Collagen/Silk Fibroin/Chitosan Scaffolds Cross-Linked by Dialdehyde Starch. <i>Polymers</i> , 2020, 12, 372.	4.5	51
24	Distinct Influence of Saturated Fatty Acids on Malignant and Nonmalignant Human Lung Epithelial Cells. <i>Lipids</i> , 2020, 55, 117-126.	1.7	6
25	Stimuli-sensitive fatty acid-based microparticles for the treatment of lung cancer. <i>Materials Science and Engineering C</i> , 2020, 111, 110801.	7.3	18
26	Synthesis and Properties of Bioresorbable Block Copolymers of L-Lactide, Glycolide, Butyl Succinate and Butyl Citrate. <i>Polymers</i> , 2020, 12, 214.	4.5	11
27	Influence of pore size and hydroxyapatite deposition in poly(l-lactide-co-glycolide) scaffolds on osteoblast-like cells cultured in static and dynamic conditions. <i>Materials Letters</i> , 2019, 241, 1-5.	2.6	11
28	PLGA-amoxicillin-loaded layer formed on anodized Ti alloy as a hybrid material for dental implant applications. <i>Materials Science and Engineering C</i> , 2019, 94, 998-1008.	7.3	45
29	Synergistic effect of bimodal pore distribution and artificial extracellular matrices in polymeric scaffolds on osteogenic differentiation of human mesenchymal stem cells. <i>Materials Science and Engineering C</i> , 2019, 97, 12-22.	7.3	11
30	Electrophoretic Deposition, Microstructure and Selected Properties of Composite Alumina/Polyetheretherketone Coatings on the Ti-13Nb-13Zr Alloy. <i>Journal of the Electrochemical Society</i> , 2018, 165, D116-D128.	2.9	21
31	Mineralization of gellan gum hydrogels with calcium and magnesium carbonates by alternate soaking in solutions of calcium/magnesium and carbonate ion solutions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1825-1834.	2.7	18
32	New calcium-free Na <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -P <sub>2</sub> O <sub>5</sub> bioactive glasses with potential applications in bone tissue engineering. <i>Journal of the American Ceramic Society</i> , 2018, 101, 602-611.	3.8	19
33	Animal models of smoke inhalation injury and related acute and chronic lung diseases. <i>Advanced Drug Delivery Reviews</i> , 2018, 123, 107-134.	13.7	22
34	Pectin coatings on titanium alloy scaffolds produced by additive manufacturing: Promotion of human bone marrow stromal cell proliferation. <i>Materials Letters</i> , 2018, 227, 225-228.	2.6	22
35	Evaluation of mechanical properties of poly (methyl methacrylate) reinforced with glass fibers. <i>Protetyka Stomatologiczna</i> , 2018, 68, 3-15.	0.1	0
36	One step 3D printing of surface functionalized composite scaffolds for tissue engineering applications. <i>Acta of Bioengineering and Biomechanics</i> , 2018, 20, 35-45.	0.4	1

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37	Composites of gellan gum hydrogel enzymatically mineralized with calcium-zinc phosphate for bone regeneration with antibacterial activity. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1610-1618.	2.7	23
38	Ceramic scaffolds with immobilized vancomycin-loaded poly(lactide-co-glycolide) microparticles for bone defects treatment. <i>Materials Letters</i> , 2017, 190, 67-70.	2.6	17
39	Bioinspired, biomimetic, double-enzymatic mineralization of hydrogels for bone regeneration with calcium carbonate. <i>Materials Letters</i> , 2017, 190, 13-16.	2.6	32
40	Ca:Mg:Zn:CO <sub>3</sub> and Ca:Mg:CO <sub>3</sub> tri- and bi-elemental carbonate microparticles for novel injectable self-gelling hydrogel microparticle composites for tissue regeneration. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 025015.	3.3	11
41	Influence of the electrophoretic deposition route on the microstructure and properties of nano-hydroxyapatite/chitosan coatings on the Ti-13Nb-13Zr alloy. <i>Surface and Coatings Technology</i> , 2017, 324, 64-79.	4.8	49
42	Enzymatic, urease-mediated mineralization of gellan gum hydrogel with calcium carbonate, magnesium-enriched calcium carbonate and magnesium carbonate for bone regeneration applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 3556-3566.	2.7	31
43	Biodegradable polycarbonates containing side carboxyl groups synthesis, properties, and degradation study. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2756-2769.	2.3	11
44	Electrophoretic deposition and characterization of composite chitosan-based coatings incorporating bioglass and sol-gel glass particles on the Ti-13Nb-13Zr alloy. <i>Surface and Coatings Technology</i> , 2017, 319, 33-46.	4.8	33
45	Lactoferrin and collagen type I as components of composite formed on titanium alloys for bone replacement. <i>Surface and Coatings Technology</i> , 2017, 328, 1-12.	4.8	13
46	Gentamicin-Loaded Polysaccharide Membranes for Prevention and Treatment of Post-operative Wound Infections in the Skeletal System. <i>Pharmaceutical Research</i> , 2017, 34, 2075-2083.	3.5	16
47	Own brand label restorative materials A false bargain?. <i>Journal of Dentistry</i> , 2017, 56, 84-98.	4.1	11
48	Influence of Radiation Sterilization on Properties of Biodegradable Lactide/Glycolide/Trimethylene Carbonate and Lactide/Glycolide/ε-caprolactone Porous Scaffolds with Shape Memory Behavior. <i>Materials</i> , 2016, 9, 64.	2.9	15
49	Hybrid oxide-polymer layer formed on Ti-15Mo alloy surface enhancing antibacterial and osseointegration functions. <i>Surface and Coatings Technology</i> , 2016, 302, 158-165.	4.8	24
50	Multilayer coatings formed on titanium alloy surfaces by plasma electrolytic oxidation-electrophoretic deposition methods. <i>Electrochimica Acta</i> , 2016, 204, 294-306.	5.2	34
51	Enrichment of enzymatically mineralized gellan gum hydrogels with phlorotannin-rich <i>Ecklonia cava</i> extract Seanol to endow antibacterial properties and promote mineralization. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 045015.	3.3	21
52	Ceramic scaffolds enriched with gentamicin loaded poly(lactide-co-glycolide) microparticles for prevention and treatment of bone tissue infections. <i>Materials Science and Engineering C</i> , 2016, 69, 856-864.	7.3	36
53	Novel injectable, self-gelling hydrogel microparticle composites for bone regeneration consisting of gellan gum and calcium and magnesium carbonate microparticles. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 065011.	3.3	27
54	The 27th European conference on biomaterials: facts and figures. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 94.	3.6	0

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55	Generation of composites for bone tissue-engineering applications consisting of gellan gum hydrogels mineralized with calcium and magnesium phosphate phases by enzymatic means. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 938-954.	2.7	47
56	Injectable hybrid delivery system composed of gellan gum, nanoparticles and gentamicin for the localized treatment of bone infections. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 613-620.	5.0	40
57	On the electropolishing and anodic oxidation of Ti-15Mo alloy. <i>Electrochimica Acta</i> , 2016, 205, 256-265.	5.2	32
58	Injectable gellan gum-based nanoparticles-loaded system for the local delivery of vancomycin in osteomyelitis treatment. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 9.	3.6	43
59	Enrichment of thermosensitive chitosan hydrogels with glycerol and alkaline phosphatase for bone tissue engineering applications. <i>Acta of Bioengineering and Biomechanics</i> , 2016, 18, 51-7.	0.4	0
60	Oxygen plasma surface modification augments poly(L-lactide-co-glycolide) cytocompatibility toward osteoblasts and minimizes immune activation of macrophages. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3965-3977.	4.0	12
61	Scaffolds with shape memory behavior for the treatment of large bone defects. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3503-3515.	4.0	34
62	Injectable nanoparticle-loaded hydrogel system for local delivery of sodium alendronate. <i>International Journal of Pharmaceutics</i> , 2015, 485, 31-40.	5.2	59
63	Biofunctionalization of poly(l-lactide-co-glycolide) by post-plasma grafting of 2-aminoethyl methacrylate and gelatin immobilization. <i>Materials Letters</i> , 2015, 139, 344-347.	2.6	6
64	Biofunctionalization of Ti-13Nb-13Zr alloy surface by plasma electrolytic oxidation. Part II. Surface and Coatings Technology, 2015, 276, 23-30.	4.8	20
65	The influence of sintering conditions on microstructure and mechanical properties of titanium dioxide scaffolds for the treatment of bone tissue defects. <i>Acta of Bioengineering and Biomechanics</i> , 2015, 17, 3-9.	0.4	4
66	Gentamicin loaded PLGA nanoparticles as local drug delivery system for the osteomyelitis treatment. <i>Acta of Bioengineering and Biomechanics</i> , 2015, 17, 41-8.	0.4	13
67	Surface Modification of Polyetheretherketone by Helium/nitrogen and Nitrous Oxide Plasma Enhanced Chemical Vapour Deposition. <i>High Temperature Materials and Processes</i> , 2014, 33, 147-153.	1.4	2
68	Enzymatic mineralization of gellan gum hydrogel for bone tissue-engineering applications and its enhancement by polydopamine. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 906-918.	2.7	84
69	Incorporation of sol-gel bioactive glass into PLGA improves mechanical properties and bioactivity of composite scaffolds and results in their osteoinductive properties. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 065001.	3.3	49
70	Electrochemical and biological characterization of coatings formed on Ti-15Mo alloy by plasma electrolytic oxidation. <i>Materials Science and Engineering C</i> , 2014, 43, 172-181.	7.3	41
71	Poly(L-lactide-co-glycolide) thin films can act as autologous cell carriers for skin tissue engineering. <i>Cellular and Molecular Biology Letters</i> , 2014, 19, 297-314.	7.0	7
72	The Gene Expression of Human Endothelial Cells Is Modulated by Subendothelial Extracellular Matrix Proteins: Short-Term Response to Laminar Shear Stress. <i>Tissue Engineering - Part A</i> , 2014, 20, 2253-2264.	3.1	10

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73	Injectable self-gelling composites for bone tissue engineering based on gellan gum hydrogel enriched with different bioglasses. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 045014.	3.3	56
74	Influence of electropolishing and anodic oxidation on morphology, chemical composition and corrosion resistance of niobium. <i>Materials Science and Engineering C</i> , 2014, 42, 529-537.	7.3	30
75	Biocompatibility evaluation of glycolide-containing polyesters in contact with osteoblasts and fibroblasts. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3256-3268.	2.6	3
76	Poly(L-lactide-co-glycolide) scaffolds coated with collagen and glycosaminoglycans: Impact on proliferation and osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3109-3122.	4.0	21
77	Increased reactivity and in vitro cell response of titanium based implant surfaces after anodic oxidation. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2761-2773.	3.6	9
78	Polarization of modified titanium and titanium-zirconium creates nano-structures while hydride formation is modulated. <i>Applied Surface Science</i> , 2013, 282, 7-16.	6.1	14
79	Linseed oil based nanocapsules as delivery system for hydrophobic quantum dots. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 1-7.	5.0	27
80	The Influence of Chain Microstructure of Biodegradable Copolyesters Obtained with Low-Toxic Zirconium Initiator to In Vitro Biocompatibility. <i>BioMed Research International</i> , 2013, 2013, 1-12.	1.9	20
81	A study on the melting and crystallization of polyoxymethylene-copolymer/hydroxyapatite nanocomposites. <i>Polymers for Advanced Technologies</i> , 2013, 24, 318-330.	3.2	23
82	Impact of Poly(L-lactide) versus Poly(L-Lactide-co-Trimethylene Carbonate) on Biological Characteristics of Fibroblasts and Osteoblasts*. <i>Folia Biologica</i> , 2013, 61, 11-24.	0.5	3
83	Resorbable scaffolds modified with collagen type I or hydroxyapatite: in vitro studies on human mesenchymal stem cells. <i>Acta of Bioengineering and Biomechanics</i> , 2013, 15, 61-7.	0.4	6
84	Effects of Aliphatic Polyesters on Activation of the Immune System: Studies on Macrophages. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 715-738.	3.5	18
85	Thin Films of TiO <sub>2</sub> /N for Photo-Electrochemical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 4703-4709.	0.9	11
86	Enzymatically induced mineralization of platelet-rich fibrin. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1335-1346.	4.0	25
87	Poly(L-lactide-co-glycolide) microporous membranes for medical applications produced with the use of polyethylene glycol as a pore former. <i>Journal of Applied Polymer Science</i> , 2012, 125, E187.	2.6	13
88	Degradation, Bioactivity, and Osteogenic Potential of Composites Made of PLGA and Two Different Sol-Gel Bioactive Glasses. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2114-2129.	2.5	77
89	Mechanical properties of (poly(L-lactide-co-glycolide))-based fibers coated with hydroxyapatite layer. <i>Journal of Applied Polymer Science</i> , 2011, 121, 3702-3709.	2.6	11
90	Chemical composition, crystallographic structure and impedance spectroscopy of titanium oxynitride TiN <sub>x</sub> O <sub>y</sub> thin films. <i>Solid State Ionics</i> , 2011, 192, 693-698.	2.7	29

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91	Surface characterization, collagen adsorption and cell behaviour on poly(L-lactide-co-glycolide). Acta of Bioengineering and Biomechanics, 2011, 13, 63-75.	0.4	10
92	Resorbable polymeric scaffolds for bone tissue engineering: The influence of their microstructure on the growth of human osteoblast-like MG 63 cells. Journal of Biomedical Materials Research - Part A, 2009, 89A, 432-443.	4.0	57
93	Porous polymer/hydroxyapatite scaffolds: characterization and biocompatibility investigations. Journal of Materials Science: Materials in Medicine, 2009, 20, 1909-1915.	3.6	44
94	The influence of pore size on colonization of poly(L-lactide-glycolide) scaffolds with human osteoblast-like MG 63 cells in vitro. Journal of Materials Science: Materials in Medicine, 2008, 19, 425-435.	3.6	59
95	In vitro and in vivo degradation of poly(L-lactide-co-glycolide) films and scaffolds. Journal of Materials Science: Materials in Medicine, 2008, 19, 2063-2070.	3.6	84
96	Fluorine-Based Plasma Treatment of Biocompatible Silicone Elastomer: The Effect of Temperature on Etch Rate and Surface Properties. Plasma Processes and Polymers, 2008, 5, 246-255.	3.0	21
97	Cytocompatibility of aliphatic polyesters – In vitro study on fibroblasts and macrophages. Journal of Biomedical Materials Research - Part A, 2008, 87A, 524-535.	4.0	24
98	Structural Changes in Surface-Modified Polymers for Medical Applications. Acta Physica Polonica A, 2008, 113, 1485-1493.	0.5	8
99	Swelling of poly(3-alkylthiophene) films exposed to solvent vapors and humidity: Evaluation of solubility parameters. Synthetic Metals, 2007, 157, 726-732.	3.9	91
100	Thin film TiO2 photoanodes for water photolysis prepared by dc magnetron sputtering. Journal of Power Sources, 2007, 173, 774-780.	7.8	35
101	Hydrolytic Degradation of Poly(L-Lactide-co-Glycolide) Studied by Positron Annihilation Lifetime Spectroscopy and Other Techniques. Acta Physica Polonica A, 2006, 110, 631-640.	0.5	7
102	Hydrolytic degradation of porous scaffolds for tissue engineering from terpolymer of L-lactide, L-caprolactone and glycolide. Journal of Molecular Structure, 2005, 744-747, 557-562.	3.6	25
103	Influence of surface properties of carbon fibres on the adsorption of catalase. Carbon, 2005, 43, 1432-1438.	10.3	12
104	Effect of Sterilization on Biodegradable Composite Material for Controlled Tissue Regeneration. , 2005, , 116-121.		0
105	Controlling the supramolecular organisation of adsorbed collagen layers. Journal of Materials Science: Materials in Medicine, 2004, 15, 347-353.	3.6	34
106	Nanoscale organization of adsorbed collagen: Influence of substrate hydrophobicity and adsorption time. Journal of Colloid and Interface Science, 2004, 271, 80-91.	9.4	77
107	Nanostructured collagen layers obtained by adsorption and drying. Journal of Colloid and Interface Science, 2004, 278, 63-70.	9.4	42
108	Nanostructured layers of adsorbed collagen: conditions, mechanisms and applications. , 2004, , 98-104.		0

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109	Bulk and surface chemical functionalities of type III PAN-based carbon fibres. Carbon, 2003, 41, 1905-1915.	10.3	124
110	In vitro response of macrophages to a new carbon-poly lactide composite for the treatment of periodontal diseases. Biomaterials, 2002, 23, 463-470.	11.4	9
111	FTIR study of degradation products of aliphatic polyestersâ€“carbon fibres composites. Journal of Molecular Structure, 2001, 596, 69-75.	3.6	102
112	Positron Annihilation in Carbon Fibers. Physica Status Solidi A, 1995, 151, 39-46.	1.7	11
113	Influence of Electrolytic Polishing and Anodic Passivation on Corrosion Resistance of Ti-15Mo Alloy. Solid State Phenomena, 0, 227, 499-502.	0.3	1