

Wojciech Chrzanowski

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

5,134
citations

101543

36
h-index

95266

68
g-index

118
all docs

118
docs citations

118
times ranked

8751
citing authors

#	ARTICLE	IF	CITATIONS
1	Curcumin as a wound healing agent. <i>Life Sciences</i> , 2014, 116, 1-7.	4.3	447
2	Silica-based mesoporous nanoparticles for controlled drug delivery. <i>Journal of Tissue Engineering</i> , 2013, 4, 204173141350335.	5.5	256
3	The antimicrobial properties of light-activated polymers containing methylene blue and gold nanoparticles. <i>Biomaterials</i> , 2009, 30, 89-93.	11.4	231
4	Extracellular vesicles, exosomes and shedding vesicles in regenerative medicine – a new paradigm for tissue repair. <i>Biomaterials Science</i> , 2018, 6, 60-78.	5.4	207
5	Biomedical applications of cationic clay minerals. <i>RSC Advances</i> , 2015, 5, 29467-29481.	3.6	179
6	Anti-bacterial surfaces: natural agents, mechanisms of action, and plasma surface modification. <i>RSC Advances</i> , 2015, 5, 48739-48759.	3.6	172
7	An elastomeric patch derived from poly(glycerol sebacate) for delivery of embryonic stem cells to the heart. <i>Biomaterials</i> , 2010, 31, 3885-3893.	11.4	168
8	Tissue engineering in dentistry. <i>Journal of Dentistry</i> , 2014, 42, 915-928.	4.1	167
9	Antimicrobial Gallium-Doped Phosphate-Based Glasses. <i>Advanced Functional Materials</i> , 2008, 18, 732-741.	14.9	161
10	Smart multifunctional drug delivery towards anticancer therapy harmonized in mesoporous nanoparticles. <i>Nanoscale</i> , 2015, 7, 14191-14216.	5.6	153
11	Structure and properties of strontium-doped phosphate-based glasses. <i>Journal of the Royal Society Interface</i> , 2009, 6, 435-446.	3.4	135
12	Nano-Enhanced Drug Delivery and Therapeutic Ultrasound for Cancer Treatment and Beyond. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 324.	4.1	126
13	Controlled delivery of antimicrobial gallium ions from phosphate-based glasses. <i>Acta Biomaterialia</i> , 2009, 5, 1198-1210.	8.3	108
14	Cisplatin drug delivery using gold-coated iron oxide nanoparticles for enhanced tumour targeting with external magnetic fields. <i>Inorganica Chimica Acta</i> , 2012, 393, 328-333.	2.4	100
15	Triple Hit with Drug Carriers: pH- and Temperature-Responsive Theranostics for Multimodal Chemo- and Photothermal Therapy and Diagnostic Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8967-8979.	8.0	93
16	Impact of the Food Additive Titanium Dioxide (E171) on Gut Microbiota-Host Interaction. <i>Frontiers in Nutrition</i> , 2019, 6, 57.	3.7	90
17	Mesoporous Silica-Layered Biopolymer Hybrid Nanofibrous Scaffold: A Novel Nanobiomatrix Platform for Therapeutics Delivery and Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8088-8098.	8.0	87
18	Laponite clay as a carrier for in situ delivery of tetracycline. <i>RSC Advances</i> , 2013, 3, 20193.	3.6	85

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19	Shape dependent cytotoxicity of PLGA-PEG nanoparticles on human cells. <i>Scientific Reports</i> , 2017, 7, 7315.	3.3	83
20	A DNA Nanostructure for the Functional Assembly of Chemical Groups with Tunable Stoichiometry and Defined Nanoscale Geometry. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 525-527.	13.8	78
21	Elastin based cell-laden injectable hydrogels with tunable gelation, mechanical and biodegradation properties. <i>Biomaterials</i> , 2014, 35, 5425-5435.	11.4	77
22	Nanotechnology for a Sustainable Future: Addressing Global Challenges with the International Network4Sustainable Nanotechnology. <i>ACS Nano</i> , 2021, 15, 18608-18623.	14.6	76
23	High-fidelity probing of the structure and heterogeneity of extracellular vesicles by resonance-enhanced atomic force microscopy infrared spectroscopy. <i>Nature Protocols</i> , 2019, 14, 576-593.	12.0	65
24	Physico-chemical, mechanical and cytotoxicity characterizations of Laponite [®] /alginate nanocomposite. <i>Applied Clay Science</i> , 2013, 85, 64-73.	5.2	64
25	Effect of surface treatment on the bioactivity of nickel-titanium. <i>Acta Biomaterialia</i> , 2008, 4, 1969-1984.	8.3	52
26	Doping of a high calcium oxide metaphosphate glass with titanium dioxide. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 991-1000.	3.1	50
27	Biospectroscopy of Nanodiamond-Induced Alterations in Conformation of Intra- and Extracellular Proteins: A Nanoscale IR Study. <i>Analytical Chemistry</i> , 2016, 88, 7530-7538.	6.5	50
28	Superparamagnetic Iron Oxide Nanoparticles Modified with Silica Layers as Potential Agents for Lung Cancer Treatment. <i>Nanomaterials</i> , 2020, 10, 1076.	4.1	50
29	None of us is the same as all of us: resolving the heterogeneity of extracellular vesicles using single-vesicle, nanoscale characterization with resonance enhanced atomic force microscope infrared spectroscopy (AFM-IR). <i>Nanoscale Horizons</i> , 2018, 3, 430-438.	8.0	49
30	Can Stem Cells Beat COVID-19: Advancing Stem Cells and Extracellular Vesicles Toward Mainstream Medicine for Lung Injuries Associated With SARS-CoV-2 Infections. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 554.	4.1	49
31	Ion release characteristics, precipitate formation and sealing ability of a phosphate glass-polycaprolactone-based composite for use as a root canal obturation material. <i>Dental Materials</i> , 2009, 25, 400-410.	3.5	48
32	Magnetised Thermo Responsive Lipid Vehicles for Targeted and Controlled Lung Drug Delivery. <i>Pharmaceutical Research</i> , 2012, 29, 2456-2467.	3.5	47
33	Formulation of Biologically-Inspired Silk-Based Drug Carriers for Pulmonary Delivery Targeted for Lung Cancer. <i>Scientific Reports</i> , 2015, 5, 11878.	3.3	46
34	Two-in-One Biointerfaces—Antimicrobial and Bioactive Nanoporous Gallium Titanate Layers for Titanium Implants. <i>Nanomaterials</i> , 2017, 7, 229.	4.1	45
35	Layered silicate clay functionalized with amino acids: wound healing application. <i>RSC Advances</i> , 2014, 4, 35332-35343.	3.6	42
36	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

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37	Greater cellular stiffness in fibroblasts from patients with idiopathic pulmonary fibrosis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L59-L65.	2.9	37
38	Multifunctional and stable bone mimic proteinaceous matrix for bone tissue engineering. <i>Biomaterials</i> , 2015, 56, 46-57.	11.4	36
39	Nano-Bio-Chemical Braille for Cells: The Regulation of Stem Cell Responses using Bi-Functional Surfaces. <i>Advanced Functional Materials</i> , 2015, 25, 193-205.	14.9	36
40	Plasma Ion Implantation of Silk Biomaterials Enabling Direct Covalent Immobilization of Bioactive Agents for Enhanced Cellular Responses. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17605-17616.	8.0	36
41	Luminescent mesoporous nanoreservoirs for the effective loading and intracellular delivery of therapeutic drugs. <i>Acta Biomaterialia</i> , 2014, 10, 1431-1442.	8.3	35
42	A new solution for removing metal-based catalyst residues from a biodegradable polymer. <i>Green Chemistry</i> , 2016, 18, 3740-3748.	9.0	34
43	Influence of the anodic oxidation on the physicochemical properties of the Ti6Al4V ELI alloy. <i>Journal of Materials Processing Technology</i> , 2005, 162-163, 163-168.	6.3	30
44	Incorporation of vitamin E in poly(3hydroxybutyrate)/Bioglass composite films: effect on surface properties and cell attachment. <i>Journal of the Royal Society Interface</i> , 2009, 6, 401-409.	3.4	29
45	Selective protein and DNA adsorption on PLL-PEG films modulated by ionic strength. <i>Soft Matter</i> , 2009, 5, 613-621.	2.7	29
46	Tropoelastin Implants That Accelerate Wound Repair. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701206.	7.6	29
47	Biomedical Applications of Clay. <i>Australian Journal of Chemistry</i> , 2013, 66, 1315.	0.9	28
48	Orientation and conformation of anti-CD34 antibody immobilised on untreated and plasma treated polycarbonate. <i>Acta Biomaterialia</i> , 2015, 19, 128-137.	8.3	28
49	Surface preparation of bioactive Ni-Ti alloy using alkali, thermal treatments and spark oxidation. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1553-1557.	3.6	27
50	Tailoring the properties of a hypoxia-responsive 1,8-naphthalimide for imaging applications. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 619-624.	2.8	27
51	Tethering bi-functional protein onto mineralized polymer scaffolds to regulate mesenchymal stem cell behaviors for bone regeneration. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2731.	5.8	24
52	Dose enhancement and cytotoxicity of gold nanoparticles in colon cancer cells when irradiated with kilo- and mega-voltage radiation. <i>Bioengineering and Translational Medicine</i> , 2016, 1, 94-102.	7.1	24
53	Placenta Stem/Stromal Cell-Derived Extracellular Vesicles for Potential Use in Lung Repair. <i>Proteomics</i> , 2019, 19, e1800166.	2.2	23
54	Influence of pH on yeast immobilization on polystyrene surfaces modified by energetic ion bombardment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 104, 145-152.	5.0	22

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55	Multifaceted Biomedical Applications of Functional Graphene Nanomaterials to Coated Substrates, Patterned Arrays and Hybrid Scaffolds. <i>Nanomaterials</i> , 2017, 7, 369.	4.1	22
56	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
57	Anterior Cruciate Ligament: Structure, Injuries and Regenerative Treatments. <i>Advances in Experimental Medicine and Biology</i> , 2015, 881, 161-186.	1.6	22
58	Nanomechanical evaluation of nickel-titanium surface properties after alkali and electrochemical treatments. <i>Journal of the Royal Society Interface</i> , 2008, 5, 1009-1022.	3.4	21
59	Biointerface: protein enhanced stem cells binding to implant surface. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2203-2215.	3.6	20
60	Optical properties and oxidation of carbonized and cross-linked structures formed in polycarbonate by plasma immersion ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 329, 52-63.	1.4	20
61	Biological performance of titania containing phosphate-based glasses for bone tissue engineering applications. <i>Materials Science and Engineering C</i> , 2014, 35, 307-313.	7.3	20
62	Atomized Human Amniotic Mesenchymal Stromal Cells for Direct Delivery to the Airway for Treatment of Lung Injury. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2016, 29, 514-524.	1.4	20
63	Control of surface free energy in titanium doped phosphate based glasses by co-doping with zinc. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 89B, 392-407.	3.4	19
64	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
65	A mini-review on novel intraperiodontal pocket drug delivery materials for the treatment of periodontal diseases. <i>Drug Delivery and Translational Research</i> , 2014, 4, 295-301.	5.8	17
66	The protein corona determines the cytotoxicity of nanodiamonds: implications of corona formation and its remodelling on nanodiamond applications in biomedical imaging and drug delivery. <i>Nanoscale Advances</i> , 2020, 2, 4798-4812.	4.6	17
67	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
68	<i>In vitro</i> studies on the influence of surface modification of Ni-Ti alloy on human bone cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 1596-1608.	4.0	15
69	Chemical, Corrosion and Topographical Analysis of Stainless Steel Implants after Different Implantation Periods. <i>Journal of Biomaterials Applications</i> , 2008, 23, 51-71.	2.4	14
70	Biocompatible, Smooth, Plasma-Treated Nickel-Titanium Surface – An Adequate Platform for Cell Growth. <i>Journal of Biomaterials Applications</i> , 2012, 26, 707-731.	2.4	14
71	Tailoring Cell Behavior on Polymers by the Incorporation of Titanium Doped Phosphate Glass Filler. <i>Advanced Engineering Materials</i> , 2010, 12, B298.	3.5	13
72	Biologically inspired smart materials. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 403-404.	13.7	13

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73	The future perspectives of natural materials for pulmonary drug delivery and lung tissue engineering. Expert Opinion on Drug Delivery, 2015, 12, 869-887.	5.0	13
74	A "soft spot"™ for drug transport: modulation of cell stiffness using fatty acids and its impact on drug transport in lung model. Journal of Materials Chemistry B, 2015, 3, 2583-2589.	5.8	13
75	Fabrication of Antimicrobial Poly(propylene carbonate) Film by Plasma Surface Modification. Industrial & Engineering Chemistry Research, 2017, 56, 12578-12587.	3.7	13
76	High Resolution Nanoscale Probing of Bacteriophages in an Inhalable Dry Powder Formulation for Pulmonary Infections. Analytical Chemistry, 2019, 91, 12760-12767.	6.5	12
77	Nanoscale Probing of Liposome Encapsulating Drug Nanocrystal Using Atomic Force Microscopy-Infrared Spectroscopy. Analytical Chemistry, 2020, 92, 9922-9931.	6.5	12
78	Effect of plasma immersion ion implantation on polycaprolactone with various molecular weights and crystallinity. Journal of Materials Science: Materials in Medicine, 2018, 29, 5.	3.6	11
79	Improved bioactivity of GUMMETAL [®] , Ti ₅₉ Nb ₃₆ Ta ₂ Zr ₃ O _{0.3} , via formation of nanostructured surfaces. Journal of Tissue Engineering, 2018, 9, 204173141877417.	5.5	11
80	A reversible fluorescent probe for monitoring Ag(I) ions. Journal of the Royal Society Interface, 2018, 15, 20180346.	3.4	10
81	Tropomyosin Tpm 2.1 loss induces glioblastoma spreading in soft brain-like environments. Journal of Neuro-Oncology, 2019, 141, 303-313.	2.9	10
82	Impaired bacterial attachment to light activated Ni-Ti alloy. Materials Science and Engineering C, 2010, 30, 225-234.	7.3	9
83	Bone bonding ability—how to measure it?. RSC Advances, 2012, 2, 9214.	3.6	9
84	A novel in vivo platform for studying alveolar bone regeneration in rat. Journal of Tissue Engineering, 2013, 4, 204173141351770.	5.5	9
85	Attachment of micro- and nano-particles on tipless cantilevers for colloidal probe microscopy. Journal of Colloid and Interface Science, 2014, 426, 190-198.	9.4	9
86	Nanotoxicity of nanodiamond in two and three dimensional liver models. International Journal of Nanotechnology, 2017, 14, 133.	0.2	9
87	Compritol solid lipid nanoparticle formulations enhance the protective effect of betulinic acid derivatives in human Müller cells against oxidative injury. Experimental Eye Research, 2022, 215, 108906.	2.6	9
88	Root maturation and dentin-pulp response to enamel matrix derivative in pulpotomized permanent teeth. Journal of Tissue Engineering, 2014, 5, 204173141452170.	5.5	8
89	Lorentz contact resonance spectroscopy for nanoscale characterisation of structural and mechanical properties of biological, dental and pharmaceutical materials. Journal of Materials Science: Materials in Medicine, 2015, 26, 272.	3.6	8
90	Plasma immersion ion implantation of a two-phase blend of polysulfone and polyvinylpyrrolidone. Materials and Design, 2016, 97, 381-391.	7.0	8

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91	Biological impact of nanodiamond particles – label free, high-resolution methods for nanotoxicity assessment. <i>Nanotoxicology</i> , 2019, 13, 1210-1226.	3.0	8
92	Made by cells for cells – extracellular vesicles as next-generation mainstream medicines. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	8
93	Positively charged gold–silver nanostar enabled molecular characterization of cancer associated extracellular vesicles. <i>Analytical Methods</i> , 2020, 12, 5908-5915.	2.7	7
94	Cellular fate of deformable needle-shaped PLGA-PEG fibers. <i>Acta Biomaterialia</i> , 2020, 112, 182-189.	8.3	7
95	Self-Assembly of Solubilized Human Hair Keratins. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 83-89.	5.2	7
96	Celltrack R-CNN: A Novel End-To-End Deep Neural Network For Cell Segmentation And Tracking In Microscopy Images. , 2021, , .		7
97	Extracellular Vesicle-Based Coatings Enhance Bioactivity of Titanium Implants – SurfEV. <i>Nanomaterials</i> , 2021, 11, 1445.	4.1	7
98	New Multiscale Characterization Methodology for Effective Determination of Isolation – Structure – Function Relationship of Extracellular Vesicles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 669537.	4.1	7
99	Antimicrobial and Anti-inflammatory Gallium – Defensin Surface Coatings for Implantable Devices. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9685-9696.	8.0	7
100	Predicting physical stability in pressurized metered dose inhalers via dwell and instantaneous force colloidal probe microscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 129-135.	4.3	6
101	Probing Chemical and Mechanical Nanodomains in Copolymer Nanorods with Correlative Atomic Force Microscopy – Nano – Correscopy. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700409.	2.3	6
102	Distinct Influence of Saturated Fatty Acids on Malignant and Nonmalignant Human Lung Epithelial Cells. <i>Lipids</i> , 2020, 55, 117-126.	1.7	6
103	Apatite Deposition on NaOH – Treated PEEK and UHMWPE Films for Sclera Materials in Artificial Cornea Implants. <i>Advanced Engineering Materials</i> , 2010, 12, B234.	3.5	5
104	Development of brushite particles synthesized in the presence of acidic monomers for dental applications. <i>Materials Science and Engineering C</i> , 2020, 116, 111178.	7.3	5
105	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
106	Increasing binding density of yeast cells by control of surface charge with allylamine grafting to ion modified polymer surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 537-544.	5.0	3
107	Biointerfaces: Nano – Bio – Chemical Braille for Cells: The Regulation of Stem Cell Responses using Bi – Functional Surfaces (Adv. Funct. Mater. 2/2015). <i>Advanced Functional Materials</i> , 2015, 25, 339-339.	14.9	3
108	Isolation and Characterization of Extracellular Vesicles from Mesenchymal Stromal Cells. <i>Methods in Molecular Biology</i> , 2019, 2029, 15-23.	0.9	3

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109	Functionalized Poly(D,L-lactide) for Pulmonary Epithelial Cell Culture. <i>Advanced Engineering Materials</i> , 2010, 12, B101.	3.5	2
110	Quantitative and Qualitative Examination of Particle-particle Interactions Using Colloidal Probe Nanoscopy. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	1
111	Dual-Stage Domain Adaptive Mitosis Detection for Histopathology Images. , 2020, , .		1
112	A DNA Nanostructure for the Functional Assembly of Chemical Groups with Tunable Stoichiometry and Defined Nanoscale Geometry. <i>Angewandte Chemie</i> , 2009, 121, 9178-9178.	2.0	0
113	A DNA Nanostructure for the Functional Assembly of Chemical Groups with Tunable Stoichiometry and Defined Nanoscale Geometry. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9016-9016.	13.8	0
114	Synthesis of functionalized-thermo responsive-water soluble co-polymer for conjugation to protein for biomedical applications. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1498, 121-125.	0.1	0
115	Sydney Nano: small matters for big impact. <i>Biophysical Reviews</i> , 2018, 10, 101-103.	3.2	0