

Tomasz Ciach

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

1,909
citations

236925

25
h-index

302126

39
g-index

90
all docs

90
docs citations

90
times ranked

2904
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Surface modification and endothelialization of polyurethane for vascular tissue engineering applications: a review. <i>Biomaterials Science</i> , 2017, 5, 22-37. | 5.4 | 130 |
| 2 | Drug delivery from the oral cavity: focus on a novel mechatronic delivery device. <i>Drug Discovery Today</i> , 2008, 13, 247-253. | 6.4 | 80 |
| 3 | Dextran Nanoparticle Synthesis and Properties. <i>PLoS ONE</i> , 2016, 11, e0146237. | 2.5 | 73 |
| 4 | Surface modification of polymers for biocompatibility via exposure to extreme ultraviolet radiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3298-3310. | 4.0 | 71 |
| 5 | Stability of nanobubbles generated in water using porous membrane system. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 136, 62-71. | 3.6 | 71 |
| 6 | Microencapsulation of drugs by electro-hydro-dynamic atomization. <i>International Journal of Pharmaceutics</i> , 2006, 324, 51-55. | 5.2 | 67 |
| 7 | Fabrication of in-situ foamed chitosan/β-TCP scaffolds for bone tissue engineering application. <i>Materials Letters</i> , 2012, 85, 124-127. | 2.6 | 61 |
| 8 | Poly(L-lactic acid) and polyurethane nanofibers fabricated by solution blow spinning as potential substrates for cardiac cell culture. <i>Materials Science and Engineering C</i> , 2017, 75, 305-316. | 7.3 | 57 |
| 9 | Folic acid-conjugated mesoporous silica particles as nanocarriers of natural prodrugs for cancer targeting and antioxidant action. <i>Oncotarget</i> , 2018, 9, 26466-26490. | 1.8 | 57 |
| 10 | The factor VIII protein and its function.. <i>Acta Biochimica Polonica</i> , 2016, 63, 11-16. | 0.5 | 48 |
| 11 | Determination of urethral catheter surface lubricity. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2301-2306. | 3.6 | 44 |
| 12 | Comparative Studies of Electrospinning and Solution Blow Spinning Processes for the Production of Nanofibrous Poly(L-Lactic Acid) Materials for Biomedical Engineering. <i>Polish Journal of Chemical Technology</i> , 2014, 16, 43-50. | 0.5 | 44 |
| 13 | Diffusion of naltrexone across reconstituted human oral epithelium and histomorphological features. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 65, 238-246. | 4.3 | 42 |
| 14 | Surface immobilization of poly(ethyleneimine) and plasmid DNA on electrospun poly(L-lactic acid) fibrous mats using a layer-by-layer approach for gene delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 281-287. | 4.0 | 39 |
| 15 | Fabrication of biocompatible hydrogel coatings for implantable medical devices using Fenton-type reaction. <i>Materials Science and Engineering C</i> , 2012, 32, 1601-1609. | 7.3 | 35 |
| 16 | Fabrication and characterization of chitosan microspheres agglomerated scaffolds for bone tissue engineering. <i>Materials Letters</i> , 2010, 64, 1059-1062. | 2.6 | 32 |
| 17 | In Vitro Multicompartmental Bladder Model for Assessing Blockage of Urinary Catheters: Effect of Hydrogel Coating on Dynamics of <i>Proteus mirabilis</i> Growth. <i>Urology</i> , 2010, 76, 515.e15-515.e20. | 1.0 | 32 |
| 18 | Extreme ultraviolet (EUV) surface modification of polytetrafluoroethylene (PTFE) for control of biocompatibility. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 364, 98-107. | 1.4 | 32 |

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|----|--|-----|-----------|
| 19 | Bone regeneration potential of the new chitosan-based alloplastic biomaterial. <i>Journal of Biomaterials Applications</i> , 2014, 28, 1060-1068. | 2.4 | 30 |
| 20 | Chitosan and composite microsphere-based scaffold for bone tissue engineering: evaluation of tricalcium phosphate content influence on physical and biological properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 143. | 3.6 | 30 |
| 21 | Polyvinylpyrrolidone (PVP) hydrogel coating for cylindrical polyurethane scaffolds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111066. | 5.0 | 29 |
| 22 | Effective Targeting of Colon Cancer Cells with Piperine Natural Anticancer Prodrug Using Functionalized Clusters of Hydroxyapatite Nanoparticles. <i>Pharmaceutics</i> , 2020, 12, 70. | 4.5 | 29 |
| 23 | Endothelialization of polyurethanes: Surface silanization and immobilization of REDV peptide. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 144, 335-343. | 5.0 | 28 |
| 24 | Electrorheological properties of polyphenylene suspensions. <i>Synthetic Metals</i> , 1997, 88, 139-145. | 3.9 | 26 |
| 25 | <p></p>Virucidal Action Against Avian Influenza H5N1 Virus and Immunomodulatory Effects of Nanoformulations Consisting of Mesoporous Silica Nanoparticles Loaded with Natural Prodrugs</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 5181-5202. | 6.7 | 26 |
| 26 | Liquid perfluorochemical-supported hybrid cell culture system for proliferation of chondrocytes on fibrous polylactide scaffolds. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1707-1715. | 3.4 | 24 |
| 27 | Production and properties of top-down and bottom-up graphene oxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 561, 315-324. | 4.7 | 23 |
| 28 | Nanofibrous materials affect the reaction of cytotoxicity assays. <i>Scientific Reports</i> , 2022, 12, . | 3.3 | 23 |
| 29 | Electroosmotic flow as a result of buccal iontophoresis – Buccal mucosa properties. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 72, 595-599. | 4.3 | 22 |
| 30 | Superhydrophilic Polyurethane/Polydopamine Nanofibrous Materials Enhancing Cell Adhesion for Application in Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6798. | 4.1 | 22 |
| 31 | Athrombogenic hydrogel coatings for medical devices – Examination of biological properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 130, 192-198. | 5.0 | 20 |
| 32 | Production of 3D printed polylactide scaffolds with surface grafted hydrogel coatings. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 179, 136-142. | 5.0 | 20 |
| 33 | Lab-on-a-chip system integrated with nanofiber mats used as a potential tool to study cardiovascular diseases (CVDs). <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129291. | 7.8 | 20 |
| 34 | Polydopamine and gelatin coating for rapid endothelialization of vascular scaffolds. <i>Materials Science and Engineering C</i> , 2022, 134, 112544. | 7.3 | 20 |
| 35 | Precipitation of hydroxyapatite nanoparticles in 3D-printed reactors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 133, 221-233. | 3.6 | 19 |
| 36 | Solution Blow Spinning of Polycaprolactone – Rheological Determination of Spinnability and the Effect of Processing Conditions on Fiber Diameter and Alignment. <i>Materials</i> , 2021, 14, 1463. | 2.9 | 19 |

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|----|---|-----|-----------|
| 37 | Buccal iontophoresis: an opportunity for drug delivery and metabolite monitoring. <i>Drug Discovery Today</i> , 2011, 16, 361-366. | 6.4 | 18 |
| 38 | Dextran/Albumin hydrogel sealant for Dacron® vascular prosthesis. <i>Journal of Biomaterials Applications</i> , 2014, 28, 1386-1396. | 2.4 | 18 |
| 39 | Hydrophilic Quaternary Ammonium Ionenes—Is There an Influence of Backbone Flexibility and Topology on Antibacterial Properties?. <i>Macromolecular Bioscience</i> , 2020, 20, e2000063. | 4.1 | 17 |
| 40 | Blow-assisted multi-jet electrospinning of poly-L-lactic acid nanofibers. <i>Journal of Polymer Research</i> , 2017, 24, 1. | 2.4 | 16 |
| 41 | Electropolymerized hydrophilic coating on stainless steel for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 167, 499-508. | 5.0 | 16 |
| 42 | IntelliDrug Implant for Medicine Delivery in Alzheimer's Disease Treatment. <i>Macromolecular Symposia</i> , 2007, 253, 134-138. | 0.7 | 15 |
| 43 | Amphiphilic Polymethyloxazoline—Polyethyleneimine Copolymers: Interaction with Lipid Bilayer and Antibacterial Properties. <i>Macromolecular Bioscience</i> , 2019, 19, e1900254. | 4.1 | 15 |
| 44 | Surface Modification of PLLA, PTFE and PVDF with Extreme Ultraviolet (EUV) to Enhance Cell Adhesion. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9679. | 4.1 | 15 |
| 45 | Effect of Extreme Ultraviolet (EUV) Radiation and EUV Induced, N2 and O2 Based Plasmas on a PEEK Surface's Physico-Chemical Properties and MG63 Cell Adhesion. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8455. | 4.1 | 14 |
| 46 | Simple method of fabrication of hydrophobic coatings for polyurethanes. <i>Open Chemistry</i> , 2011, 9, 1039-1045. | 1.9 | 13 |
| 47 | Detection of fluorescent organic nanoparticles by confocal laser endomicroscopy in a rat model of Barrett's esophageal adenocarcinoma. <i>International Journal of Nanomedicine</i> , 2015, 10, 6811. | 6.7 | 13 |
| 48 | Impact of morphology-influencing factors in lecithin-based hydroxyapatite precipitation. <i>Ceramics International</i> , 2019, 45, 21220-21227. | 4.8 | 13 |
| 49 | Fenton-type reaction grafting of polyvinylpyrrolidone onto polypropylene membrane for improving hemo- and biocompatibility. <i>Materials Science and Engineering C</i> , 2020, 113, 110960. | 7.3 | 13 |
| 50 | Chitosan-Human Bone Composite Granulates for Guided Bone Regeneration. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2324. | 4.1 | 13 |
| 51 | Highly efficient filtering materials. <i>Journal of Aerosol Science</i> , 1996, 27, S613-S614. | 3.8 | 12 |
| 52 | Optimized response characteristics of an optical particle spectrometer for size measurement of aerosols. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2000, 64, 75-86. | 2.3 | 12 |
| 53 | Cell membrane-mimicking coating for blood-contacting polyurethanes. <i>Journal of Biomaterials Applications</i> , 2015, 29, 801-812. | 2.4 | 12 |
| 54 | Influence of lipid bilayer composition on the activity of antimicrobial quaternary ammonium ionenes, the interplay of intrinsic lipid curvature and polymer hydrophobicity, the role of cardiolipin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 207, 112016. | 5.0 | 12 |

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|----|--|-----|-----------|
| 55 | Bioactive Coatings for Minimally Invasive Medical Devices: Surface Modification in the Service of Medicine. <i>Recent Patents on Biomedical Engineering</i> , 2009, 2, 1-14. | 0.5 | 11 |
| 56 | Polyurethane modification with acrylic acid by Ce(IV)-initiated graft polymerization. <i>Open Chemistry</i> , 2016, 14, 206-214. | 1.9 | 10 |
| 57 | Lecithin suspensions for electrophoretic deposition on stainless steel coatings. <i>Materials Science and Engineering C</i> , 2018, 93, 134-144. | 7.3 | 10 |
| 58 | Endothelial cell growth on polyurethane modified with acrylic acid and REDV peptide. <i>Surface Innovations</i> , 2020, 8, 89-104. | 2.3 | 10 |
| 59 | Chitosan-Enriched Solution Blow Spun Poly(Ethylene Oxide) Nanofibers with Poly(Dimethylsiloxane) Hydrophobic Outer Layer for Skin Healing and Regeneration. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5135. | 4.1 | 10 |
| 60 | SPR System for On-Site Detection of Biological Warfare. <i>Current Analytical Chemistry</i> , 2017, 13, 144-149. | 1.2 | 9 |
| 61 | Removal of soot particles from Diesel exhaust. <i>Journal of Aerosol Science</i> , 1996, 27, S705-S706. | 3.8 | 8 |
| 62 | Influence of the coating process parameters on the quality of PUR/PVP hydrogel coatings for PVC medical devices. <i>Polish Journal of Chemical Technology</i> , 2010, 12, 38-45. | 0.5 | 8 |
| 63 | Patient specific implants for jawbone reconstruction after tumor resection. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 193, 111056. | 5.0 | 8 |
| 64 | Mathematical modelling of buccal iontophoretic drug delivery system. <i>Chemical Engineering Science</i> , 2012, 80, 182-187. | 3.8 | 7 |
| 65 | Polyvinylpyrrolidone-Based Coatings for Polyurethanes – The Effect of Reagent Concentration on Their Chosen Physical Properties. <i>Chemical and Process Engineering - Inżynieria Chemiczna I Procesowa</i> , 2012, 33, 563-571. | 0.7 | 6 |
| 66 | Study of Stem Cells Influence on Cardiac Cells Cultured with a Cyanide-P-Trifluoromethoxyphenylhydrazone in Organ-on-a-Chip System. <i>Biosensors</i> , 2021, 11, 131. | 4.7 | 6 |
| 67 | Cytotoxicity Evaluation and Crystallochemical Analysis of a Novel and Commercially Available Bone Substitute Material. <i>Advances in Clinical and Experimental Medicine</i> , 2015, 24, 511-516. | 1.4 | 6 |
| 68 | Polyvinylpyrrolidone-polyurethane interpolymer hydrogel coating as a local drug delivery system. <i>Acta Poloniae Pharmaceutica</i> , 2008, 65, 763-6. | 0.1 | 6 |
| 69 | Promising electrodeposited biocompatible coatings for steel obtained from polymerized microemulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 591, 124555. | 4.7 | 5 |
| 70 | Formation and preclinical evaluation of a new alloplastic injectable bone substitute material. <i>Acta of Bioengineering and Biomechanics</i> , 2012, 14, 39-44. | 0.4 | 5 |
| 71 | PSMA targeted conjugates based on dextran. <i>Applied Radiation and Isotopes</i> , 2021, 167, 109439. | 1.5 | 4 |
| 72 | Cylindrical Polyurethane Scaffold Fabricated Using the Phase Inversion Method: Influence of Process Parameters on Scaffolds' Morphology and Mechanical Properties. <i>Materials</i> , 2021, 14, 2977. | 2.9 | 4 |

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|----|--|-----|-----------|
| 73 | Influence of PEG Subunit on the Biological Activity of Ionenes: Synthesis of Novel Polycations, Antimicrobial and Toxicity Studies. <i>Macromolecular Bioscience</i> , 2022, , 2200094. | 4.1 | 4 |
| 74 | Three-dimensional nanofibrous polystyrene scaffolds modify macrophage phenotypes and activate macrophage angiogenic potential. <i>Cell Biology International</i> , 2019, 43, 265-278. | 3.0 | 3 |
| 75 | Scaled-Up 3D-Printed Reactor for Precipitation of Lecithin-Modified Hydroxyapatite Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 12944-12955. | 3.7 | 3 |
| 76 | Physicochemical and Biological Properties of Graphene-Oxide-Coated Metallic Materials. <i>Materials</i> , 2021, 14, 5752. | 2.9 | 3 |
| 77 | Encapsulation of proteins by Electro Hydro Dynamic Atomization. <i>Macromolecular Symposia</i> , 2007, 253, 98-102. | 0.7 | 2 |
| 78 | Advanced Trans-Epithelial Drug Delivery Devices. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 1752-1759. | 1.6 | 2 |
| 79 | In vitro haemocompatibility assessment of acrylic acid deposited on solid, polyurethane substrate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 199, 111562. | 5.0 | 2 |
| 80 | Measurement and modeling of multiple scattering in droplet aerosols. <i>Journal of Aerosol Science</i> , 1991, 22, S403-S406. | 3.8 | 1 |
| 81 | Encapsulation of Chondrocytes in Hydrogel Systems Effect of Chitosan Viscosity and Microcapsule Shape. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2012, 33, 529-538. | 0.7 | 1 |
| 82 | Investigation of controlled solvent exchange precipitation of fluorescent organic nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 545, 86-92. | 4.7 | 1 |
| 83 | A simple time-resolved fluorescence assay for quantitative determination of DOTA chelator. <i>Analytical Biochemistry</i> , 2019, 584, 113384. | 2.4 | 1 |
| 84 | Fluorosurfactants for medical nanoemulsions, their surface-active and biological properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 200, 111603. | 5.0 | 1 |
| 85 | Medicine Nanoparticle Production by EHDA. , 2010, , 39-57. | | 1 |
| 86 | Application of a Fibrous Electrostatic Filterfor Treatment of Diesel Exhaust. <i>International Journal of Occupational Safety and Ergonomics</i> , 2000, 6, 321-333. | 1.9 | 0 |
| 87 | Design optimisation of depth cartridge filters. <i>Filtration and Separation</i> , 2000, 37, 34-36. | 0.0 | 0 |