

Alberto Rainer

List of Publications by Citations

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95
papers

3,091
citations

31
h-index

53
g-index

106
ext. papers

3,705
ext. citations

5
avg, IF

5.18
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 95 | Current trends in the design of scaffolds for computer-aided tissue engineering. <i>Acta Biomaterialia</i> , 2014 , 10, 580-94 | 10.8 | 304 |
| 94 | Microfluidic-enhanced 3D bioprinting of aligned myoblast-laden hydrogels leads to functionally organized myofibers in vitro and in vivo. <i>Biomaterials</i> , 2017 , 131, 98-110 | 15.6 | 184 |
| 93 | A multi-cellular 3D bioprinting approach for vascularized heart tissue engineering based on HUVECs and iPSC-derived cardiomyocytes. <i>Scientific Reports</i> , 2018 , 8, 13532 | 4.9 | 164 |
| 92 | Combining electrospinning and fused deposition modeling for the fabrication of a hybrid vascular graft. <i>Biofabrication</i> , 2010 , 2, 014102 | 10.5 | 114 |
| 91 | Pluronic F127 Hydrogel Characterization and Biofabrication in Cellularized Constructs for Tissue Engineering Applications. <i>Procedia CIRP</i> , 2016 , 49, 125-132 | 1.8 | 114 |
| 90 | Microfluidic Organ/Body-on-a-Chip Devices at the Convergence of Biology and Microengineering. <i>Sensors</i> , 2015 , 15, 31142-70 | 3.8 | 99 |
| 89 | Investigating Nonalcoholic Fatty Liver Disease in a Liver-on-a-Chip Microfluidic Device. <i>PLoS ONE</i> , 2016 , 11, e0159729 | 3.7 | 98 |
| 88 | Combined additive manufacturing approaches in tissue engineering. <i>Acta Biomaterialia</i> , 2015 , 24, 1-11 | 10.8 | 96 |
| 87 | Poly-L-lactic acid/hydroxyapatite electrospun nanocomposites induce chondrogenic differentiation of human MSC. <i>Annals of Biomedical Engineering</i> , 2009 , 37, 1376-89 | 4.7 | 96 |
| 86 | Classification of M1/M2-polarized human macrophages by label-free hyperspectral reflectance confocal microscopy and multivariate analysis. <i>Scientific Reports</i> , 2017 , 7, 8965 | 4.9 | 93 |
| 85 | Electrospinning of PCL/PVP blends for tissue engineering scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 1425-42 | 4.5 | 89 |
| 84 | Polyurethane-based scaffolds for myocardial tissue engineering. <i>Interface Focus</i> , 2014 , 4, 20130045 | 3.9 | 80 |
| 83 | Fabrication of bioactive glass-ceramic foams mimicking human bone portions for regenerative medicine. <i>Acta Biomaterialia</i> , 2008 , 4, 362-9 | 10.8 | 68 |
| 82 | Naturally derived proteins and glycosaminoglycan scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2017 , 78, 1277-1299 | 8.3 | 59 |
| 81 | Engineering muscle cell alignment through 3D bioprinting. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 2582-2588 | 5.4 | 58 |
| 80 | Electrospun scaffolds for bone tissue engineering. <i>Musculoskeletal Surgery</i> , 2011 , 95, 69-80 | 2.4 | 57 |
| 79 | Correlation between porous texture and cell seeding efficiency of gas foaming and microfluidic foaming scaffolds. <i>Materials Science and Engineering C</i> , 2016 , 62, 668-77 | 8.3 | 56 |

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| 78 | Characterization of age-related changes of tendon stem cells from adult human tendons. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014 , 22, 2856-66 | 5.5 | 55 |
| 77 | Bioactive electrospun scaffold for annulus fibrosus repair and regeneration. <i>European Spine Journal</i> , 2012 , 21 Suppl 1, S20-6 | 2.7 | 55 |
| 76 | Graded porous polyurethane foam: a potential scaffold for oro-maxillary bone regeneration. <i>Materials Science and Engineering C</i> , 2015 , 51, 329-35 | 8.3 | 53 |
| 75 | Biological response of human mesenchymal stromal cells to titanium grade 4 implants coated with PCL/ZrO ₂ hybrid materials synthesized by sol-gel route: in vitro evaluation. <i>Materials Science and Engineering C</i> , 2014 , 45, 395-401 | 8.3 | 50 |
| 74 | Load-adaptive scaffold architecturing: a bioinspired approach to the design of porous additively manufactured scaffolds with optimized mechanical properties. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 966-75 | 4.7 | 48 |
| 73 | Drug releasing systems in cardiovascular tissue engineering. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 422-39 | 5.6 | 48 |
| 72 | Old Myths, New Concerns: the Long-Term Effects of Ascending Aorta Replacement with Dacron Grafts. Not All That Glitters Is Gold. <i>Journal of Cardiovascular Translational Research</i> , 2016 , 9, 334-42 | 3.3 | 46 |
| 71 | Engineering Muscle Networks in 3D Gelatin Methacryloyl Hydrogels: Influence of Mechanical Stiffness and Geometrical Confinement. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017 , 5, 22 | 5.8 | 42 |
| 70 | Combining Type I Interferons and 5-Aza-2SDeoxyctidine to Improve Anti-Tumor Response against Melanoma. <i>Journal of Investigative Dermatology</i> , 2017 , 137, 159-169 | 4.3 | 41 |
| 69 | Biomechanical Characterization at the Cell Scale: Present and Prospects. <i>Frontiers in Physiology</i> , 2018 , 9, 1449 | 4.6 | 41 |
| 68 | Scaffold-based delivery of a clinically relevant anti-angiogenic drug promotes the formation of in vivo stable cartilage. <i>Tissue Engineering - Part A</i> , 2013 , 19, 1960-71 | 3.9 | 36 |
| 67 | Effect of filler surface functionalization on the performance of Nafion/Titanium oxide composite membranes. <i>Electrochimica Acta</i> , 2014 , 147, 418-425 | 6.7 | 35 |
| 66 | Comparative Study of Different Techniques for the Sterilization of Poly-L-lactide Electrospun Microfibers: Effectiveness vs. Material Degradation. <i>International Journal of Artificial Organs</i> , 2010 , 33, 76-85 | 1.9 | 32 |
| 65 | Electrospun hydroxyapatite-functionalized PLLA scaffold: potential applications in sternal bone healing. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 1882-90 | 4.7 | 31 |
| 64 | Combination of biochemical and mechanical cues for tendon tissue engineering. <i>Journal of Cellular and Molecular Medicine</i> , 2017 , 21, 2711-2719 | 5.6 | 28 |
| 63 | Surface functionalization of polyurethane scaffolds mimicking the myocardial microenvironment to support cardiac primitive cells. <i>PLoS ONE</i> , 2018 , 13, e0199896 | 3.7 | 26 |
| 62 | Heparin-releasing scaffold for stem cells: a differentiating device for vascular aims. <i>Regenerative Medicine</i> , 2010 , 5, 645-57 | 2.5 | 26 |
| 61 | The role of extracellular matrix in age-related conduction disorders: a forgotten player?. <i>Journal of Geriatric Cardiology</i> , 2015 , 12, 76-82 | 1.7 | 26 |

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|----|--|------|----|
| 60 | Preoperative Assessment of TERT Promoter Mutation on Thyroid Core Needle Biopsies Supports Diagnosis of Malignancy and Addresses Surgical Strategy. <i>Hormone and Metabolic Research</i> , 2016 , 48, 157-62 | 3.1 | 25 |
| 59 | A G-CSF functionalized scaffold for stem cells seeding: a differentiating device for cardiac purposes. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 1096-108 | 5.6 | 25 |
| 58 | Implantation of a Poly-L-Lactide GCSF-Functionalized Scaffold in a Model of Chronic Myocardial Infarction. <i>Journal of Cardiovascular Translational Research</i> , 2017 , 10, 47-65 | 3.3 | 23 |
| 57 | Cells and extracellular matrix interplay in cardiac valve disease: because age matters. <i>Basic Research in Cardiology</i> , 2016 , 111, 16 | 11.8 | 23 |
| 56 | The fate of large-diameter Dacron [®] vascular grafts in surgical practice: are we really satisfied?. <i>International Journal of Cardiology</i> , 2013 , 168, 5028-9 | 3.2 | 22 |
| 55 | The effect of post-mastectomy radiation therapy on breast implants: Unveiling biomaterial alterations with potential implications on capsular contracture. <i>Materials Science and Engineering C</i> , 2015 , 57, 338-43 | 8.3 | 21 |
| 54 | Biofabrication of Hepatic Constructs by 3D Bioprinting of a Cell-Laden Thermogel: An Effective Tool to Assess Drug-Induced Hepatotoxic Response. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001163 | 10.1 | 21 |
| 53 | Tissue engineering and microRNAs: future perspectives in regenerative medicine. <i>Expert Opinion on Biological Therapy</i> , 2015 , 15, 1601-22 | 5.4 | 19 |
| 52 | Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering. <i>Advanced Functional Materials</i> , 2018 , 28, 1800874 | 15.6 | 19 |
| 51 | Electrospinning of hydroxyapatite χ chitosan nanofibers for tissue engineering applications. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 407-414 | 1.3 | 19 |
| 50 | Preliminary In Vivo Evaluation of a Hybrid Armored Vascular Graft Combining Electrospinning and Additive Manufacturing Techniques. <i>Drug Target Insights</i> , 2016 , 10, 1-7 | 3.4 | 18 |
| 49 | Composite Ormosil/Nafion Membranes as Electrolytes for Direct Methanol Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B1148 | 3.9 | 18 |
| 48 | Multiscale Analysis of Extracellular Matrix Remodeling in the Failing Heart. <i>Circulation Research</i> , 2021 , 128, 24-38 | 15.7 | 17 |
| 47 | A primer of statistical methods for correlating parameters and properties of electrospun poly(L-lactide) scaffolds for tissue engineering--PART 1: design of experiments. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 91-102 | 5.4 | 16 |
| 46 | Foaming of Filled Polyurethanes for Fabrication of Porous Anode Supports for Intermediate Temperature-Solid Oxide Fuel Cells. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1795-1800 | 3.8 | 16 |
| 45 | Electrospun Nanomaterials Implementing Antibacterial Inorganic Nanophases. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1643 | 2.6 | 16 |
| 44 | A primer of statistical methods for correlating parameters and properties of electrospun poly(L-lactide) scaffolds for tissue engineering--PART 2: regression. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 103-14 | 5.4 | 14 |
| 43 | Biomimetic engineering of the cardiac tissue through processing, functionalization, and biological characterization of polyester urethanes. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 055006 | 3.5 | 12 |

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| 42 | Tuning Structural Changes in Glucose Oxidase for Enzyme Fuel Cell Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28311-8 | 9.5 | 11 |
| 41 | Functionalization of poly(ε-caprolactone) surface with lactose-modified chitosan via alkaline hydrolysis: ToF-SIMS characterization. <i>Biointerphases</i> , 2016 , 11, 02A323 | 1.8 | 11 |
| 40 | A G-CSF functionalized PLLA scaffold for wound repair: An in vitro preliminary study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 843-6 | 0.9 | 9 |
| 39 | Ester coupling of ibuprofen in hydrogel matrix: A facile one-step strategy for controlled anti-inflammatory drug release. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020 , 146, 143-149 | 5.7 | 9 |
| 38 | Biofabricating murine and human myo-substitutes for rapid volumetric muscle loss restoration. <i>EMBO Molecular Medicine</i> , 2021 , 13, e12778 | 12 | 9 |
| 37 | Electrospinning and microfluidics 2018 , 139-155 | | 8 |
| 36 | The long-term follow-up of large-diameter Dacron® vascular grafts in surgical practice: a review. <i>Journal of Cardiovascular Surgery</i> , 2019 , 60, 501-513 | 0.7 | 8 |
| 35 | Graphene-laden hydrogels: A strategy for thermally triggered drug delivery. <i>Materials Science and Engineering C</i> , 2021 , 118, 111353 | 8.3 | 8 |
| 34 | YAP-TEAD1 control of cytoskeleton dynamics and intracellular tension guides human pluripotent stem cell mesoderm specification. <i>Cell Death and Differentiation</i> , 2021 , 28, 1193-1207 | 12.7 | 8 |
| 33 | Comparative study of different techniques for the sterilization of poly-L-lactide electrospun microfibers: effectiveness vs. material degradation. <i>International Journal of Artificial Organs</i> , 2010 , 33, 76-85 | 1.9 | 8 |
| 32 | An implantable neural interface with electromagnetic stimulation capabilities. <i>Medical Hypotheses</i> , 2013 , 81, 322-7 | 3.8 | 7 |
| 31 | Computer Simulation of Scaffold Degradation. <i>Journal of Physics: Conference Series</i> , 2010 , 252, 012004 | 0.3 | 7 |
| 30 | Nano-encapsulation of hydroxytyrosol into formulated nanogels improves therapeutic effects against hepatic steatosis: An in vitro study. <i>Materials Science and Engineering C</i> , 2021 , 124, 112080 | 8.3 | 7 |
| 29 | Palmitic Acid Affects Intestinal Epithelial Barrier Integrity and Permeability In Vitro. <i>Antioxidants</i> , 2020 , 9, | 7.1 | 6 |
| 28 | Designing a 3D printed human derived artificial myo-structure for anal sphincter defects in anorectal malformations and adult secondary damage. <i>Materials Today Communications</i> , 2018 , 15, 120-123 | 12.5 | 6 |
| 27 | Postbariatric Brachioplasty with Posteromedial Scar: Physical Model, Technical Refinements, and Clinical Outcomes. <i>Plastic and Reconstructive Surgery</i> , 2018 , 141, 344-353 | 2.7 | 6 |
| 26 | EGFR/ErbB Inhibition Promotes OPC Maturation up to Axon Engagement by Co-Regulating PIP2 and MBP. <i>Cells</i> , 2019 , 8, | 7.9 | 6 |
| 25 | Computationally Informed Design of a Multi-Axial Actuated Microfluidic Chip Device. <i>Scientific Reports</i> , 2017 , 7, 5489 | 4.9 | 6 |

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| 24 | Surface decoration of electrospun scaffolds by microcontact printing. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 401-406 | 1.3 | 6 |
| 23 | Electrospun Nanocomposites and Stem Cells in Cardiac Tissue Engineering. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2011 , 215-242 | 0.5 | 6 |
| 22 | Quercetin and hydroxytyrosol as modulators of hepatic steatosis: A NAFLD-on-a-chip study. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 142-152 | 4.9 | 6 |
| 21 | In situ electrostimulation drives a regenerative shift in the zone of infarcted myocardium. <i>Cell Transplantation</i> , 2013 , 22, 493-503 | 4 | 5 |
| 20 | Stem cells cardiac differentiation in 3D systems. <i>Frontiers in Bioscience - Scholar</i> , 2011 , 3, 901-18 | 2.4 | 5 |
| 19 | Endothelin-1 drives invadopodia and interaction with mesothelial cells through ILK. <i>Cell Reports</i> , 2021 , 34, 108800 | 10.6 | 5 |
| 18 | Resynthesis of sternal dehiscence with autologous bone graft and autologous platelet gel. <i>Journal of Wound Care</i> , 2012 , 21, 74, 76-7 | 2.2 | 3 |
| 17 | Seriate cytology vs molecular analysis of peritoneal washing to improve gastric cancer cells detection. <i>Diagnostic Cytopathology</i> , 2019 , 47, 670-674 | 1.4 | 3 |
| 16 | Energy Harvesting: Electric Field Assisted Microfluidic Platform for Generation of Tailorable Porous Microbeads as Cell Carriers for Tissue Engineering (Adv. Funct. Mater. 20/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870133 | 15.6 | 3 |
| 15 | Computer-aided tissue engineering for bone regeneration 2012 , | | 2 |
| 14 | Catalitic Properties of Ce-TZP Ceramic Foams. <i>Key Engineering Materials</i> , 2004 , 264-268, 2219-2222 | 0.4 | 2 |
| 13 | Photocurable Biopolymers for Coaxial Bioprinting. <i>Methods in Molecular Biology</i> , 2021 , 2147, 45-54 | 1.4 | 2 |
| 12 | Optimization Approaches for the Design of Additively Manufactured Scaffolds. <i>Computational Methods in Applied Sciences (Springer)</i> , 2014 , 113-128 | 0.4 | 2 |
| 11 | Rational Design of Artificial Cellular Niches for Tissue Engineering. <i>Computational Methods in Applied Sciences (Springer)</i> , 2014 , 129-147 | 0.4 | 2 |
| 10 | A biomimetic three-layered compartmented scaffold for vascular tissue engineering. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 839-42 | 0.9 | 1 |
| 9 | Morphological and Molecular Assessment in Thyroid Cytology Using Cell-Capturing Scaffolds. <i>Hormone and Metabolic Research</i> , 2020 , 52, | 3.1 | 1 |
| 8 | A primer to Traction Force Microscopy.. <i>Journal of Biological Chemistry</i> , 2022 , 101867 | 5.4 | 1 |
| 7 | A Soft Zwitterionic Hydrogel as Potential Coating on a Polyimide Surface to Reduce Foreign Body Reaction to Intraneural Electrodes. <i>Molecules</i> , 2022 , 27, 3126 | 4.8 | 1 |

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| 6 | Smoothened/AMP-Activated Protein Kinase Signaling in Oligodendroglial Cell Maturation.. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 801704 | 6.1 | o |
| 5 | Silicone-Textile Composite Resistive Strain Sensors for Human Motion-Related Parameters. <i>Sensors</i> , 2022 , 22, 3954 | 3.8 | o |
| 4 | The differentiation of humane adult mesenchimal stem cells of bone marrow (hMSC) into urothelial cells on bio-engineering support (scaffold): preliminary experience of tissue engineering. <i>Urologia</i> , 2011 , 78, 203-5 | 1.2 | |
| 3 | Co-Sintering of Dense Electrophoretically Deposited YSZ Films on Porous NiO-YSZ Substrates for SOFC Applications. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 835, K3.1.1 | | |
| 2 | Additive manufacturing of biomaterials. <i>Advances in Chemical Engineering</i> , 2021 , 233-260 | 0.6 | |
| 1 | Dystrophic Muscle Affects Motoneuron Axon Outgrowth and NMJ Assembly. <i>Advanced Materials Technologies</i> , 2101216 | 6.8 | |