

Alberto Rainer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A primer to Traction Force Microscopy.. <i>Journal of Biological Chemistry</i> , 2022 , 101867	5.4	1
94	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
93	Silicone-Textile Composite Resistive Strain Sensors for Human Motion-Related Parameters. <i>Sensors</i> , 2022 , 22, 3954	3.8	0
92	Smoothened/AMP-Activated Protein Kinase Signaling in Oligodendroglial Cell Maturation.. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 801704	6.1	0
91	Photocurable Biopolymers for Coaxial Bioprinting. <i>Methods in Molecular Biology</i> , 2021 , 2147, 45-54	1.4	2
90	Endothelin-1 drives invadopodia and interaction with mesothelial cells through ILK. <i>Cell Reports</i> , 2021 , 34, 108800	10.6	5
89	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
88	Graphene-laden hydrogels: A strategy for thermally triggered drug delivery. <i>Materials Science and Engineering C</i> , 2021 , 118, 111353	8.3	8
87	Multiscale Analysis of Extracellular Matrix Remodeling in the Failing Heart. <i>Circulation Research</i> , 2021 , 128, 24-38	15.7	17
86	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
85	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
84	Biofabricating murine and human myo-substitutes for rapid volumetric muscle loss restoration. <i>EMBO Molecular Medicine</i> , 2021 , 13, e12778	12	9
83	Additive manufacturing of biomaterials. <i>Advances in Chemical Engineering</i> , 2021 , 233-260	0.6	
82	Palmitic Acid Affects Intestinal Epithelial Barrier Integrity and Permeability In Vitro. <i>Antioxidants</i> , 2020 , 9,	7.1	6
81	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
80	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
79	Morphological and Molecular Assessment in Thyroid Cytology Using Cell-Capturing Scaffolds. <i>Hormone and Metabolic Research</i> , 2020 , 52,	3.1	1

78	EGFR/ErbB Inhibition Promotes OPC Maturation up to Axon Engagement by Co-Regulating PIP2 and MBP. <i>Cells</i> , 2019 , 8,	7.9	6
77	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
76	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
75	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	2.5	6
74	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
73	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
72	Surface functionalization of polyurethane scaffolds mimicking the myocardial microenvironment to support cardiac primitive cells. <i>PLoS ONE</i> , 2018 , 13, e0199896	3.7	26
71	Electrospinning and microfluidics 2018 , 139-155		8
70	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
69	Biomechanical Characterization at the Cell Scale: Present and Prospects. <i>Frontiers in Physiology</i> , 2018 , 9, 1449	4.6	41
68	Electrospun Nanomaterials Implementing Antibacterial Inorganic Nanophases. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1643	2.6	16
67	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
66	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
65	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
64	Engineering muscle cell alignment through 3D bioprinting. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 2582-2588	5.4	58
63	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
62	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
61	Naturally derived proteins and glycosaminoglycan scaffolds for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2017 , 78, 1277-1299	8.3	59

60	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
59	Computationally Informed Design of a Multi-Axial Actuated Microfluidic Chip Device. <i>Scientific Reports</i> , 2017 , 7, 5489	4.9	6
58	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
57	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
56	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
55	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
54	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
53	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
52	Cells and extracellular matrix interplay in cardiac valve disease: because age matters. <i>Basic Research in Cardiology</i> , 2016 , 111, 16	11.8	23
51	Investigating Nonalcoholic Fatty Liver Disease in a Liver-on-a-Chip Microfluidic Device. <i>PLoS ONE</i> , 2016 , 11, e0159729	3.7	98
50	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
49	Pluronic F127 Hydrogel Characterization and Biofabrication in Cellularized Constructs for Tissue Engineering Applications. <i>Procedia CIRP</i> , 2016 , 49, 125-132	1.8	114
48	Tissue engineering and microRNAs: future perspectives in regenerative medicine. <i>Expert Opinion on Biological Therapy</i> , 2015 , 15, 1601-22	5.4	19
47	Combined additive manufacturing approaches in tissue engineering. <i>Acta Biomaterialia</i> , 2015 , 24, 1-11	10.8	96
46	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
45	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
44	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
43	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

42	Microfluidic Organ/Body-on-a-Chip Devices at the Convergence of Biology and Microengineering. <i>Sensors</i> , 2015 , 15, 31142-70	3.8	99
41	Tuning Structural Changes in Glucose Oxidase for Enzyme Fuel Cell Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28311-8	9.5	11
40	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
39	Electrospinning of hydroxyapatite-chitosan nanofibers for tissue engineering applications. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 407-414	1.3	19
38	Current trends in the design of scaffolds for computer-aided tissue engineering. <i>Acta Biomaterialia</i> , 2014 , 10, 580-94	10.8	304
37	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
36	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
35	Polyurethane-based scaffolds for myocardial tissue engineering. <i>Interface Focus</i> , 2014 , 4, 20130045	3.9	80
34	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
33	Surface decoration of electrospun scaffolds by microcontact printing. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 401-406	1.3	6
32	Optimization Approaches for the Design of Additively Manufactured Scaffolds. <i>Computational Methods in Applied Sciences (Springer)</i> , 2014 , 113-128	0.4	2
31	Rational Design of Artificial Cellular Niches for Tissue Engineering. <i>Computational Methods in Applied Sciences (Springer)</i> , 2014 , 129-147	0.4	2
30	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
29	An implantable neural interface with electromagnetic stimulation capabilities. <i>Medical Hypotheses</i> , 2013 , 81, 322-7	3.8	7
28	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
27	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
26	In situ electrostimulation drives a regenerative shift in the zone of infarcted myocardium. <i>Cell Transplantation</i> , 2013 , 22, 493-503	4	5
25	Bioactive electrospun scaffold for annulus fibrosus repair and regeneration. <i>European Spine Journal</i> , 2012 , 21 Suppl 1, S20-6	2.7	55

24	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
23	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
22	Computer-aided tissue engineering for bone regeneration 2012 ,		2
21	Electrospun Nanocomposites and Stem Cells in Cardiac Tissue Engineering. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2011 , 215-242	0.5	6
20	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
19	Electrospun hydroxyapatite-functionalized PLLA scaffold: potential applications in sternal bone healing. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 1882-90	4.7	31
18	Electrospun scaffolds for bone tissue engineering. <i>Musculoskeletal Surgery</i> , 2011 , 95, 69-80	2.4	57
17	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	
16	Stem cells cardiac differentiation in 3D systems. <i>Frontiers in Bioscience - Scholar</i> , 2011 , 3, 901-18	2.4	5
15	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
14	Heparin-releasing scaffold for stem cells: a differentiating device for vascular aims. <i>Regenerative Medicine</i> , 2010 , 5, 645-57	2.5	26
13	Combining electrospinning and fused deposition modeling for the fabrication of a hybrid vascular graft. <i>Biofabrication</i> , 2010 , 2, 014102	10.5	114
12	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
11	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
10	Computer Simulation of Scaffold Degradation. <i>Journal of Physics: Conference Series</i> , 2010 , 252, 012004	0.3	7
9	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
8	Drug releasing systems in cardiovascular tissue engineering. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 422-39	5.6	48
7	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

6	Fabrication of bioactive glass-ceramic foams mimicking human bone portions for regenerative medicine. <i>Acta Biomaterialia</i> , 2008 , 4, 362-9	10.8	68
5	Composite Ormosil/Nafion Membranes as Electrolytes for Direct Methanol Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B1148	3.9	18
4	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
3	Catalytic Properties of Ce-TZP Ceramic Foams. <i>Key Engineering Materials</i> , 2004 , 264-268, 2219-2222	0.4	2
2	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		
1	Dystrophic Muscle Affects Motoneuron Axon Outgrowth and NMJ Assembly. <i>Advanced Materials Technologies</i> , 2101216	6.8	