

Ghassem Amoabediny

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.

89
papers

1,399
citations

23
h-index

32
g-index

92
ext. papers

1,734
ext. citations

4
avg, IF

5.04
L-index

#	Paper	IF	Citations
89	Ultrasensitive early detection of insulin antibody employing novel electrochemical nano-biosensor based on controllable electro-fabrication process. <i>Talanta</i> , 2022 , 238, 122947	6.2	4
88	Dual Targeting Drug Delivery for Cancer Theranostics. <i>Nanotechnology in the Life Sciences</i> , 2021 , 31-52	1.1	
87	Advances in bioreactors for lung bioengineering: From scalable cell culture to tissue growth monitoring. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 2142-2167	4.9	3
86	Cross-linked acellular lung for application in tissue engineering: Effects on biocompatibility, mechanical properties and immunological responses. <i>Materials Science and Engineering C</i> , 2021 , 122, 111938	8.3	2
85	3D bioprinting for lung and tracheal tissue engineering: Criteria, advances, challenges, and future directions. <i>Bioprinting</i> , 2021 , 21, e00124	7	17
84	Increased Osteogenic Potential of Pre-Osteoblasts on Three-Dimensional Printed Scaffolds Compared to Porous Scaffolds for Bone Regeneration. <i>Iranian Biomedical Journal</i> , 2021 , 25, 78-87	2	4
83	Enhanced articular cartilage decellularization using a novel perfusion-based bioreactor method. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 119, 104511	4.1	2
82	Growth Kinetics and Ganoderic Acid Production from <i>Ganoderma lucidum</i> GIRAN17: A Real-Time Monitoring Platform. <i>Iranian Journal of Medical Microbiology</i> , 2021 , 15, 67-84	0.4	1
81	Osteogenic and Angiogenic Synergy of Human Adipose Stem Cells and Human Umbilical Vein Endothelial Cells Cocultured in a Modified Perfusion Bioreactor. <i>Organogenesis</i> , 2021 , 1-16	1.7	1
80	Decellularized human-sized pulmonary scaffolds for lung tissue engineering: a comprehensive review. <i>Regenerative Medicine</i> , 2021 , 16, 757-774	2.5	1
79	Role of biomechanics in vascularization of tissue-engineered bones. <i>Journal of Biomechanics</i> , 2020 , 110, 109920	2.9	8
78	3D-printed poly(ϵ -caprolactone) scaffold with gradient mechanical properties according to force distribution in the mandible for mandibular bone tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 104, 103638	4.1	23
77	Short Pretreatment with Calcitriol Is Far Superior to Continuous Treatment in Stimulating Proliferation and Osteogenic Differentiation of Human Adipose Stem Cells. <i>Cell Journal</i> , 2020 , 22, 293-304	2.4	2
76	Insecticidal activity of spray dried microencapsulated essential oils of <i>Rosmarinus officinalis</i> and <i>Zataria multiflora</i> against <i>Tribolium confusum</i> . <i>Crop Protection</i> , 2020 , 128, 104996	2.7	16
75	Insecticidal activity of polycaprolactone nanoparticles decorated with chitosan containing two essential oils against <i>Tribolium confusum</i> . <i>International Journal of Pest Management</i> , 2020 , 1-9	1.5	3
74	Bioprinting of Alginate-Encapsulated Pre-osteoblasts in PLGA/ β -TCP Scaffolds Enhances Cell Retention but Impairs Osteogenic Differentiation Compared to Cell Seeding after 3D-Printing. <i>Regenerative Engineering and Translational Medicine</i> , 2020 , 1	2.4	2
73	Inlet flow rate of perfusion bioreactors affects fluid flow dynamics, but not oxygen concentration in 3D-printed scaffolds for bone tissue engineering: Computational analysis and experimental validation. <i>Computers in Biology and Medicine</i> , 2020 , 124, 103826	7	9

72	Numerical simulation of a multi-inlet microfluidic device for biosensing purposes in osteoporosis management. <i>Journal of Diabetes and Metabolic Disorders</i> , 2019 , 18, 341-348	2.5	1
71	Comparison of two different antioxidants in a nano lecithin-based extender for bull sperm cryopreservation. <i>Animal Reproduction Science</i> , 2019 , 209, 106171	2.1	9
70	Attachment and detachment strategies in microcarrier-based cell culture technology: A comprehensive review. <i>Materials Science and Engineering C</i> , 2019 , 103, 109782	8.3	34
69	Integrated optical and electrochemical detection of Cu ions in water using a sandwich amino acid-gold nanoparticle-based nano-biosensor consisting of a transparent-conductive platform.. <i>RSC Advances</i> , 2019 , 9, 8882-8893	3.7	14
68	Carboxymethyl kappa carrageenan-modified decellularized small-diameter vascular grafts improving thromboresistance properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1690-1701	5.4	3
67	Investigation of factors influencing oxygen content in Halobacterium salinarum growth medium for improved bacteriorhodopsin production. <i>International Journal of Industrial Chemistry</i> , 2019 , 10, 261-268	3.1	1
66	Preclinical studies of acellular extracellular matrices as small-caliber vascular grafts. <i>Tissue and Cell</i> , 2019 , 60, 25-32	2.7	3
65	Preparation of PEGylated cationic nanoliposome-siRNA complexes for cancer therapy. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 684-692	6.1	24
64	Noninvasive Real-Time Assessment of Cell Viability in a Three-Dimensional Tissue. <i>Tissue Engineering - Part C: Methods</i> , 2018 , 24, 197-204	2.9	10
63	Fabrication and characterization of poly(Ecaprolactone)/gelatin nanofibrous scaffolds for retinal tissue engineering. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018 , 67, 27-35	3	18
62	A comprehensive mathematical model of drug release kinetics from nano-liposomes, derived from optimization studies of cationic PEGylated liposomal doxorubicin formulations for drug-gene delivery. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 169-177	6.1	31
61	Codelivery of doxorubicin and JIP1 siRNA with novel EphA2-targeted PEGylated cationic nanoliposomes to overcome osteosarcoma multidrug resistance. <i>International Journal of Nanomedicine</i> , 2018 , 13, 3853-3866	7.3	27
60	VEGF delivery by smart polymeric PNIPAM nanoparticles affects both osteogenic and angiogenic capacities of human bone marrow stem cells. <i>Materials Science and Engineering C</i> , 2018 , 93, 790-799	8.3	26
59	Enhanced osteogenic activity by MC3T3-E1 pre-osteoblasts on chemically surface-modified poly(Ecaprolactone) 3D-printed scaffolds compared to RGD immobilized scaffolds. <i>Biomedical Materials (Bristol)</i> , 2018 , 14, 015008	3.5	15
58	Overview of preparation methods of polymeric and lipid-based (niosome, solid lipid, liposome) nanoparticles: A comprehensive review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018 , 67, 383-400	3	90
57	New liposomal doxorubicin nanoformulation for osteosarcoma: Drug release kinetic study based on thermo and pH sensitivity. <i>Chemical Biology and Drug Design</i> , 2017 , 90, 368-379	2.9	30
56	Curcumin-loaded polysaccharide nanoparticles: Optimization and anticariogenic activity against Streptococcus mutans. <i>Materials Science and Engineering C</i> , 2017 , 75, 1259-1267	8.3	53
55	Recellularization on Acellular Lung Tissue Scaffold Using Perfusion-Based Bioreactor: An Online Monitoring Strategy. <i>Journal of Medical and Biological Engineering</i> , 2017 , 37, 53-62	2.2	11

54	Sustained release of growth hormone and sodium nitrite from biomimetic collagen coating immobilized on silicone tubes improves endothelialization. <i>Materials Science and Engineering C</i> , 2017 , 77, 1204-1215	8.3	1
53	Co-delivery of hydrophilic and hydrophobic anticancer drugs using biocompatible pH-sensitive lipid-based nano-carriers for multidrug-resistant cancers. <i>RSC Advances</i> , 2017 , 7, 30008-30019	3.7	59
52	An Electrochemical Biosensor Based on AuNP-Modified Gold Electrodes for Selective Determination of Serum Levels of Osteocalcin. <i>IEEE Sensors Journal</i> , 2017 , 17, 3367-3374	4	15
51	Study on the stability and reusability of Glutamate Dehydrogenase immobilized on bacterial cellulose nanofiber. <i>Fibers and Polymers</i> , 2017 , 18, 240-245	2	3
50	A highly sensitive electrochemical biosensor based on AuNP-modified gold electrodes for selective determination of serum levels of crosslaps. <i>3 Biotech</i> , 2017 , 7, 312	2.8	3
49	Fabrication and Verification of Conjugated AuNP-Antibody Nanoprobe for Sensitivity Improvement in Electrochemical Biosensors. <i>Scientific Reports</i> , 2017 , 7, 16070	4.9	20
48	EphA2 Targeted Doxorubicin-Nanoliposomes for Osteosarcoma Treatment. <i>Pharmaceutical Research</i> , 2017 , 34, 2891-2900	4.5	24
47	The stability evaluation of mesenchymal stem cells differentiation toward endothelial cells by chemical and mechanical stimulation. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2017 , 53, 818-826	2.6	12
46	Flow Preconditioning of Endothelial Cells on Collagen-Immobilized Silicone Fibers Enhances Cell Retention and Antithrombotic Function. <i>Artificial Organs</i> , 2017 , 41, 556-567	2.6	5
45	Rapid prototyping of microfluidic chips using laser-cut double-sided tape for electrochemical biosensors. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 1469-1477	2	9
44	A Multiplexed Microfluidic Platform for Bone Marker Measurement: A Proof-of-Concept. <i>Micromachines</i> , 2017 , 8, 133	3.3	10
43	A Novel Approach on Drug Delivery: Investigation of A New Nano-Formulation of Liposomal Doxorubicin and Biological Evaluation of Entrapped Doxorubicin on Various Osteosarcoma Cell Lines. <i>Cell Journal</i> , 2017 , 19, 55-65	2.4	14
42	Fabrication and characterization of carboxylated starch-chitosan bioactive scaffold for bone regeneration. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1069-1078	7.9	36
41	A new approach for semiempirical modeling of mechanical blood trauma. <i>International Journal of Artificial Organs</i> , 2016 , 39, 171-7	1.9	4
40	Preparation, characterization, and silanization of 3D microporous PDMS structure with properly sized pores for endothelial cell culture. <i>Biotechnology and Applied Biochemistry</i> , 2016 , 63, 190-9	2.8	28
39	Bone biosensors: knowing the present and predicting the future. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 023002	2	7
38	Nanoliposomal Growth Hormone and Sodium Nitrite Release from Silicone Fibers Reduces Thrombus Formation Under Flow. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2417-2430	4.7	5
37	Advances in pulmonary therapy and drug development: Lung tissue engineering to lung-on-a-chip. <i>Biotechnology Advances</i> , 2016 , 34, 588-596	17.8	36

36	In Vitro Co-Delivery Evaluation of Novel Pegylated Nano-Liposomal Herbal Drugs of Silibinin and Glycyrrhizic Acid (Nano-Phytosome) to Hepatocellular Carcinoma Cells. <i>Cell Journal</i> , 2016 , 18, 135-48	2.4	32
35	An Optically-Transparent Aptamer-Based Detection System for Colon Cancer Applications Using Gold Nanoparticles Electrodeposited on Indium Tin Oxide. <i>Sensors</i> , 2016 , 16,	3.8	10
34	Biomimetic modification of silicone tubes using sodium nitrite-collagen immobilization accelerates endothelialization. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 1311-21	3.5	5
33	Monodisperse magnetite (Fe ₃ O ₄) nanoparticles modified with water soluble polymers for the diagnosis of breast cancer by MRI method. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 420, 210-217	2.8	57
32	Mathematical modeling of cell growth in a 3D scaffold and validation of static and dynamic cultures. <i>Engineering in Life Sciences</i> , 2016 , 16, 290-298	3.4	6
31	Investigating the effect of design parameters on the response time of a highly sensitive microbial hydrogen sulfide biosensor based on oxygen consumption. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 106-114	11.8	8
30	Superparamagnetic plasmonic nanocomposites: Synthesis and characterization studies. <i>Chemical Engineering Journal</i> , 2015 , 264, 66-76	14.7	6
29	Nitric oxide secretion by endothelial cells in response to fluid shear stress, aspirin, and temperature. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 1231-7	5.4	27
28	Use of sulfur-oxidizing bacteria as recognition elements in hydrogen sulfide biosensing system. <i>Biotechnology and Applied Biochemistry</i> , 2015 , 62, 349-56	2.8	7
27	An Apta-Biosensor for Colon Cancer Diagnostics. <i>Sensors</i> , 2015 , 15, 22291-303	3.8	12
26	Surface modification of silicone tubes by functional carboxyl and amine, but not peroxide groups followed by collagen immobilization improves endothelial cell stability and functionality. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 015024	3.5	11
25	Protein-based nanobiosensor for direct detection of hydrogen sulfide. <i>Europhysics Letters</i> , 2015 , 109, 18005	1.6	11
24	Biochemical Markers of Bone Turnover and their Role in Osteoporosis Diagnosis: A Narrative Review. <i>Recent Patents on Endocrine, Metabolic & Immune Drug Discovery</i> , 2015 , 9, 79-89		13
23	An immobilized <i>Thiobacillus thioparus</i> biosensing system for monitoring sulfide hydrogen; optimized parameters in a bioreactor. <i>Process Biochemistry</i> , 2014 , 49, 380-385	4.8	14
22	An inhibitory enzyme electrode for hydrogen sulfide detection. <i>Enzyme and Microbial Technology</i> , 2014 , 63, 7-12	3.8	15
21	Simulation of blood oxygenation in capillary membrane oxygenators using modified sulfite solution. <i>Biophysical Chemistry</i> , 2014 , 195, 8-15	3.5	1
20	A microbial biosensor for hydrogen sulfide monitoring based on potentiometry. <i>Process Biochemistry</i> , 2014 , 49, 1393-1401	4.8	9
19	Surface modification of polypropylene membrane by polyethylene glycol graft polymerization. <i>Materials Science and Engineering C</i> , 2014 , 42, 443-50	8.3	46

18	Applying shear stress to endothelial cells in a new perfusion chamber: hydrodynamic analysis. <i>Journal of Artificial Organs</i> , 2014 , 17, 329-36	1.8	11
17	Three-dimensional culture of differentiated endometrial stromal cells to oligodendrocyte progenitor cells (OPCs) in fibrin hydrogel. <i>Cell Biology International</i> , 2013 , 37, 1340-9	4.5	45
16	Synthesis and characterization of hollow gold nanoparticles using silica spheres as templates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 1069-1075	5.1	29
15	Hydrodynamically Stable Adhesion of Endothelial Cells on Gelatin Electrospun Nanofibrous Scaffolds. <i>APCBEE Procedia</i> , 2013 , 7, 169-174		2
14	Novel method for prediction of micro/nanostructures of diphenylalanine dipeptide based on semiempirical thermodynamic study. <i>Fluid Phase Equilibria</i> , 2013 , 347, 28-34	2.5	3
13	Engineering parameters in bioreactor design: a critical aspect in tissue engineering. <i>BioMed Research International</i> , 2013 , 2013, 762132	3	53
12	A theoretical model for evaluation of the design of a hollow-fiber membrane oxygenator. <i>Journal of Artificial Organs</i> , 2012 , 15, 347-56	1.8	10
11	Characterization of Interfacial Hydrodynamics in a Single Cell of Shaken Microtiter Plate Bioreactors Applying Computational Fluid Dynamics Technique. <i>Procedia Engineering</i> , 2012 , 42, 924-930		3
10	Synthesis and physicochemical characterization of tunable silica-gold nanoshells via seed growth method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 414, 345-351	5.1	26
9	The Role of Biodegradable Engineered Scaffold in Tissue Engineering 2011 ,		11
8	Novel dynamic model for aerated shaking bioreactors. <i>Biotechnology and Applied Biochemistry</i> , 2011 , 58, 128-137	2.8	7
7	Determination of CO ₂ sensitivity of micro-organisms in shaken bioreactors. I. Novel method based on the resistance of sterile closure. <i>Biotechnology and Applied Biochemistry</i> , 2010 , 57, 157-66	2.8	14
6	Determination of CO ₂ sensitivity of micro-organisms in shaken bioreactors. II. Novel online monitoring method. <i>Biotechnology and Applied Biochemistry</i> , 2010 , 57, 167-75	2.8	7
5	Development of an unsteady-state model for a biological system in miniaturized bioreactors. <i>Biotechnology and Applied Biochemistry</i> , 2009 , 54, 163-70	2.8	8
4	Modelling and advanced understanding of unsteady-state gas transfer in shaking bioreactors. <i>Biotechnology and Applied Biochemistry</i> , 2007 , 46, 57-67	2.8	18
3	New method to determine the mass transfer resistance of sterile closures for shaken bioreactors. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 999-1007	4.9	18
2	An experimental comparison of respiration measuring techniques in fermenters and shake flasks: exhaust gas analyzer vs. RAMOS device vs. respirometer. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2007 , 34, 123-30	4.2	17
1	Effect of elevated dissolved carbon dioxide concentrations on growth of <i>Corynebacterium glutamicum</i> on D-glucose and L-lactate. <i>Journal of Biotechnology</i> , 2007 , 128, 868-74	3.7	37

