

# Mehrdad Rafat

## List of Publications by Year in descending order

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32  
papers

1,234  
citations

430874

18  
h-index

477307

29  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2042  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sutureless Femtosecond Laser-Assisted Anterior Lamellar Keratoplasty Using a Bioengineered Cornea as a Viable Alternative to Human Donor Transplantation for Superficial Corneal Opacities. <i>Cornea</i> , 2020, 39, 1184-1189.	1.7	7
2	A porous collagen-based hydrogel and implantation method for corneal stromal regeneration and sustained local drug delivery. <i>Scientific Reports</i> , 2020, 10, 16936.	3.3	34
3	In Vitro Evaluation and Transplantation of Human Corneal Endothelial Cells Cultured on Biocompatible Carriers. <i>Cell Transplantation</i> , 2020, 29, 096368972092357.	2.5	10
4	Femtosecond Laser-Assisted Surgery for Implantation of Bioengineered Corneal Stroma to Promote Corneal Regeneration. <i>Methods in Molecular Biology</i> , 2020, 2145, 197-214.	0.9	1
5	Examples of Successful Biomaterial-Based Artificial Tissues—Artificial Corneas. , 2019, , 191-202.		2
6	Evaluation of the Suitability of Biocompatible Carriers as Artificial Transplants Using Cultured Porcine Corneal Endothelial Cells. <i>Current Eye Research</i> , 2019, 44, 243-249.	1.5	19
7	Adjustable delivery of pro-angiogenic FGF-2 by collagen-alginate microspheres. <i>Biology Open</i> , 2018, 7, .	1.2	18
8	Rational Design of a Conductive Collagen Heart Patch. <i>Macromolecular Bioscience</i> , 2017, 17, 1600446.	4.1	31
9	Direct Mechanical Stimulation of Stem Cells: A Beating Electromechanically Active Scaffold for Cardiac Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016, 5, 1471-1480.	7.6	99
10	Cardiac and stem cell-cocooned hybrid microspheres: A multi factorial design approach. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 480-489.	7.8	5
11	Optimisation of conductive polymer biomaterials for cardiac progenitor cells. <i>RSC Advances</i> , 2016, 6, 62270-62277.	3.6	7
12	Human pluripotent stem cell-derived limbal epithelial stem cells on bioengineered matrices for corneal reconstruction. <i>Experimental Eye Research</i> , 2016, 146, 26-34.	2.6	34
13	Composite core-and-skirt collagen hydrogels with differential degradation for corneal therapeutic applications. <i>Biomaterials</i> , 2016, 83, 142-155.	11.4	43
14	Enhanced Regeneration of Corneal Tissue via a Bioengineered Collagen Construct Implanted by a Nondisruptive Surgical Technique. <i>Tissue Engineering - Part A</i> , 2015, 21, 1116-1130.	3.1	44
15	Electroactive 3D materials for cardiac tissue engineering. <i>Proceedings of SPIE</i> , 2015, , .	0.8	7
16	Role of the salt bridge between glutamate 546 and arginine 907 in preservation of autoinhibited form of Apaf-1. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 370-374.	7.5	14
17	Functional fabrication of recombinant human collagen-phosphorylcholine hydrogels for regenerative medicine applications. <i>Acta Biomaterialia</i> , 2015, 12, 70-80.	8.3	88
18	Reprogramming and Carcinogenesis—Parallels and Distinctions. <i>International Review of Cell and Molecular Biology</i> , 2014, 308, 167-203.	3.2	48

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19	Human-Gyrovirus-Apoptin Triggers Mitochondrial Death Pathwayâ€”Nur77 is Required for Apoptosis Triggering. <i>Neoplasia</i> , 2014, 16, 679-693.	5.3	35
20	Cell type related differences in staining with pentameric thiophene derivatives. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2014, 85, 628-635.	1.5	23
21	Influence of conductive polymer doping on the viability of cardiac progenitor cells. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3860-3867.	5.8	55
22	Chitosan microparticles for delivery of proteins to the retina. <i>Acta Biomaterialia</i> , 2013, 9, 7855-7864.	8.3	19
23	Book Review On Integrated Biomaterials For biomedical Technology. <i>Advanced Materials Letters</i> , 2013, 4, 250-250.	0.6	0
24	Nanotechnology in stem cells research: advances and applications. <i>Frontiers in Bioscience - Landmark</i> , 2012, 17, 1747.	3.0	27
25	PEGâ€“PLA microparticles for encapsulation and delivery of Tat-EGFP to retinal cells. <i>Biomaterials</i> , 2010, 31, 3414-3421.	11.4	38
26	Surface modification of collagenâ€“based artificial cornea for reduced endothelialization. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 755-768.	4.0	27
27	PEG-stabilized carbodiimide crosslinked collagenâ€“chitosan hydrogels for corneal tissue engineering. <i>Biomaterials</i> , 2008, 29, 3960-3972.	11.4	360
28	Regeneration of Corneal Cells and Nerves in an Implanted Collagen Corneal Substitute. <i>Cornea</i> , 2008, 27, 580-589.	1.7	30
29	Characterization of surface-modified hollow fiber polyethersulfone membranes prepared at different air gaps. <i>Journal of Applied Polymer Science</i> , 2007, 104, 710-721.	2.6	32
30	Plasma surface modification and characterization of collagenâ€“based artificial cornea for enhanced epithelialization. <i>Journal of Applied Polymer Science</i> , 2007, 106, 2056-2064.	2.6	9
31	Surface characterization of hollow fiber membranes used in artificial kidney. <i>Journal of Applied Polymer Science</i> , 2006, 101, 4386-4400.	2.6	31
32	Human induced pluripotent stem cell differentiation and direct transdifferentiation into corneal epithelial-like cells. <i>Oncotarget</i> , 0, 7, 42314-42329.	1.8	37