Gulden Camci-Unal

List of Publications by Citations

72 papers	4,357 citations	34 h-index	66 g-index
81 ext. papers	5,066 ext. citations	7.4 avg, IF	5.56 L-index

#	Paper	IF	Citations
72	25th anniversary article: Rational design and applications of hydrogels in regenerative medicine. *Advanced Materials*, **2014**, 26, 85-123	24	895
71	Microfabricated biomaterials for engineering 3D tissues. *Advanced Materials*, **2012**, 24, 1782-804	24	310
70	PGS:Gelatin nanofibrous scaffolds with tunable mechanical and structural properties for engineering cardiac tissues. *Biomaterials*, **2013**, 34, 6355-66	15.6	236
69	Synthesis and characterization of hybrid hyaluronic acid-gelatin hydrogels. *Biomacromolecules*, **2013**, 14, 1085-92	6.9	193
68	Biomechanical properties of native and tissue engineered heart valve constructs. *Journal of Biomechanics*, **2014**, 47, 1949-63	2.9	173
67	Engineered contractile skeletal muscle tissue on a microgrooved methacrylated gelatin substrate. *Tissue Engineering - Part A*, **2012**, 18, 2453-65	3.9	169
66	Gelatin methacrylate as a promising hydrogel for 3D microscale organization and proliferation of dielectrophoretically patterned cells. *Lab on A Chip*, **2012**, 12, 2959-69	7.2	135
65	Engineering systems for the generation of patterned co-cultures for controlling cell-cell interactions. *Biochimica Et Biophysica Acta - General Subjects*, **2011**, 1810, 239-50	4	133
64	Paper-Based Sensors: Emerging Themes and Applications. *Sensors*, **2018**, 18,	3.8	116
63	A combinatorial cell-laden gel microarray for inducing osteogenic differentiation of human mesenchymal stem cells. *Scientific Reports*, **2014**, 4, 3896	4.9	102
62	Hydrogels for cardiac tissue engineering. *NPG Asia Materials*, **2014**, 6, e99-e99	10.3	100
61	Microfluidics-assisted fabrication of gelatin-silica core-shell microgels for injectable tissue constructs. *Biomacromolecules*, **2014**, 15, 283-90	6.9	100
60	Oxygen Releasing Biomaterials for Tissue Engineering. *Polymer International*, **2013**, 62, 843-848	3.3	90
59	Interdigitated array of Pt electrodes for electrical stimulation and engineering of aligned muscle tissue. *Lab on A Chip*, **2012**, 12, 3491-503	7.2	89
58	Engineered cell-laden human protein-based elastomer. *Biomaterials*, **2013**, 34, 5496-505	15.6	85
57	Surface plasmon resonance fiber sensor for real-time and label-free monitoring of cellular behavior. *Biosensors and Bioelectronics*, **2014**, 56, 359-67	11.8	82
56	Electrospun PGS:PCL microfibers align human valvular interstitial cells and provide tunable scaffold anisotropy. *Advanced Healthcare Materials*, **2014**, 3, 929-39	10.1	77

55	Structural Reinforcement of Cell-Laden Hydrogels with Microfabricated Three Dimensional Scaffolds. *Biomaterials Science*, **2014**, 2, 703-709	7.4	71
54	Elastomeric Recombinant Protein-based Biomaterials. *Biochemical Engineering Journal*, **2013**, 77, 110-118	4.2	66
53	Surface-modified hyaluronic acid hydrogels to capture endothelial progenitor cells. *Soft Matter*, **2010**, 6, 5120-5126	3.6	59
52	Responsive micromolds for sequential patterning of hydrogel microstructures. *Journal of the American Chemical Society*, **2011**, 133, 12944-7	16.4	57
51	Handheld isothermal amplification and electrochemical detection of DNA in resource-limited settings. *Analytical Biochemistry*, **2018**, 543, 116-121	3.1	55
50	Hydrogel surfaces to promote attachment and spreading of endothelial progenitor cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2013**, 7, 337-47	4.4	54
49	Directing valvular interstitial cell myofibroblast-like differentiation in a hybrid hydrogel platform. *Advanced Healthcare Materials*, **2015**, 4, 121-30	10.1	52
48	Oxygen-Generating Photo-Cross-Linkable Hydrogels Support Cardiac Progenitor Cell Survival by Reducing Hypoxia-Induced Necrosis. *ACS Biomaterials Science and Engineering*, **2017**, 3, 1964-1971	5.5	51
47	Simulation of early calcific aortic valve disease in a 3D platform: A role for myofibroblast differentiation. *Journal of Molecular and Cellular Cardiology*, **2016**, 94, 13-20	5.8	51
46	Gradient static-strain stimulation in a microfluidic chip for 3D cellular alignment. *Lab on A Chip*, **2014**, 14, 482-93	7.2	49
45	Breathing life into engineered tissues using oxygen-releasing biomaterials. *NPG Asia Materials*, **2019**, 11,	10.3	46
44	Fibroblasts Enhance Migration of Human Lung Cancer Cells in a Paper-Based Coculture System. *Advanced Healthcare Materials*, **2016**, 5, 641-7, 626	10.1	42
43	Eggshell particle-reinforced hydrogels for bone tissue engineering: an orthogonal approach. *Biomaterials Science*, **2019**, 7, 2675-2685	7.4	37
42	Multi-gradient hydrogels produced layer by layer with capillary flow and crosslinking in open microchannels. *Lab on A Chip*, **2012**, 12, 659-61	7.2	37
41	High-throughput approaches for screening and analysis of cell behaviors. *Biomaterials*, **2018**, 153, 85-101	15.6	35
40	Biomineralization Guided by Paper Templates. *Scientific Reports*, **2016**, 6, 27693	4.9	35
39	Amniotic fluid-derived stem cells for cardiovascular tissue engineering applications. *Tissue Engineering - Part B: Reviews*, **2013**, 19, 368-79	7.9	35
38	Anisotropic material synthesis by capillary flow in a fluid stripe. *Biomaterials*, **2011**, 32, 6493-504	15.6	32

37	Targeting histone deacetylase 3 (HDAC3) in the bone marrow microenvironment inhibits multiple myeloma proliferation by modulating exosomes and IL-6 trans-signaling. *Leukemia*, **2020**, 34, 196-209	10.7	32
36	Paper as a scaffold for cell cultures: Teaching an old material new tricks. *MRS Communications*, **2018**, 8, 1-14	2.7	31
35	A contactless electrical stimulator: application to fabricate functional skeletal muscle tissue. *Biomedical Microdevices*, **2013**, 15, 109-15	3.7	31
34	Quantitative Determination of Heavy Metal Contaminant Complexation by the Carbohydrate Polymer Chitin. *Journal of Chemical & Engineering Data*, **2010**, 55, 1117-1121	2.8	29
33	Engineered Paper-Based Cell Culture Platforms. *Advanced Healthcare Materials*, **2017**, 6, 1700619	10.1	27
32	Adult cardiac progenitor cell aggregates exhibit survival benefit both in vitro and in vivo. *PLoS ONE*, **2012**, 7, e50491	3.7	27
31	Activated-ester-type photocleavable crosslinker for preparation of photodegradable hydrogels using a two-component mixing reaction. *Advanced Healthcare Materials*, **2015**, 4, 246-54	10.1	22
30	Unconventional Tissue Engineering Materials in Disguise. *Trends in Biotechnology*, **2020**, 38, 178-190	15.1	20
29	Synthesis and characterization of photocrosslinkable hydrogels from bovine skin gelatin.. *RSC Advances*, **2019**, 9, 13016-13025	3.7	19
28	Development of Diagnostic Tests for Detection of SARS-CoV-2. *Diagnostics*, **2020**, 10,	3.8	19
27	Hydroxyapatite-Incorporated Composite Gels Improve Mechanical Properties and Bioactivity of Bone Scaffolds. *Macromolecular Bioscience*, **2020**, 20, e2000176	5.5	18
26	Vascularization of Biomaterials for Bone Tissue Engineering: Current Approaches and Major Challenges. *Current Angiogenesis*, **2012**, 1, 180-191		15
25	Thermodynamics of binding interactions between divalent copper and chitin fragments by isothermal titration calorimetry (ITC). *Carbohydrate Polymers*, **2010**, 81, 8-13	10.3	14
24	Synthesis and characterization of photocrosslinkable albumin-based hydrogels for biomedical applications. *Soft Matter*, **2020**, 16, 9242-9252	3.6	14
23	Mineralization of Biomaterials for Bone Tissue Engineering. *Bioengineering*, **2020**, 7,	5.3	13
22	Mineralized Hydrogels Induce Bone Regeneration in Critical Size Cranial Defects. *Advanced Healthcare Materials*, **2021**, 10, e2001101	10.1	13
21	Origami-Inspired Approaches for Biomedical Applications. *ACS Omega*, **2021**, 6, 46-54	3.9	9
20	3D Printing of Micro- and Nanoscale Bone Substitutes: A Review on Technical and Translational Perspectives. *International Journal of Nanomedicine*, **2021**, 16, 4289-4319	7.3	8

19	Synthesis of a 3-deoxy-D-manno-octulosonic acid (KDO) building block from D-glucose via fermentation. *Organic and Biomolecular Chemistry*, **2012**, 10, 5856-60	3.9	7
18	Nanophosphor-Based Contrast Agents for Spectral X-ray Imaging. *Nanomaterials*, **2019**, 9,	5.4	4
17	Low Intensity Pulsed Ultrasound for Bone Tissue Engineering.. *Micromachines*, **2021**, 12,	3.3	4
16	Development of Hydrogel-Based Sprayable Wound Dressings for Second- and Third-Degree Burns. *Advanced NanoBiomed Research*, **2021**, 1, 2100004	0	4
15	Integration of Technologies for Bone Tissue Engineering **2019**,		3
14	Cardiac Differentiation of Mesenchymal Stem Cells: Impact of Biological and Chemical Inducers. *Stem Cell Reviews and Reports*, **2021**, 17, 1343-1361	7.3	3
13	A new paper-based biosensor for therapeutic drug monitoring. *Lab on A Chip*, **2021**, 21, 3289-3297	7.2	3
12	Composite Scaffolds from Gelatin and Bone Meal Powder for Tissue Engineering. *Bioengineering*, **2021**, 8,	5.3	2
11	Mineralized paper scaffolds for bone tissue engineering. *Biotechnology and Bioengineering*, **2021**, 118, 1411-1418	4.9	2
10	Engineering calcium peroxide based oxygen generating scaffolds for tissue survival. *Biomaterials Science*, **2021**, 9, 2519-2532	7.4	2
9	Micropatterning: Activated-Ester-Type Photocleavable Crosslinker for Preparation of Photodegradable Hydrogels Using a Two-Component Mixing Reaction (Adv. Healthcare Mater. 2/2015). *Advanced Healthcare Materials*, **2015**, 4, 245-245	10.1	1
8	Oxygen generating scaffolds regenerate critical size bone defects.. *Bioactive Materials*, **2022**, 13, 64-81	16.7	1
7	ROBO1 Promotes Homing, Dissemination, and Survival of Multiple Myeloma within the Bone Marrow Microenvironment. *Blood Cancer Discovery*, **2021**, 2, 338-353	7	1
6	Paper-Based Microfluidic Devices: Low-Cost Platforms for Rapid Biochemical Detection. *Military Medicine*, **2021**, 186, 716-721	1.3	1
5	Unconventional biomaterials for cardiovascular tissue engineering. *Current Opinion in Biomedical Engineering*, **2021**, 17, 100263	4.4	0
4	Eggshell Microparticle Reinforced Scaffolds for Regeneration of Critical Sized Cranial Defects.. *ACS Applied Materials & Interfaces*, **2021**, 13, 60921-60932	9.5	0
3	Microfabricated gels for tissue engineering317-331		
2	The Transmembrane Receptor Roundabout 1 (ROBO1) Is Necessary for Multiple Myeloma Proliferation and Homing to the Bone Marrow Niche. *Blood*, **2019**, 134, 507-507	2.2	

1 Origami-inspired heart pouch for minimally invasive cell delivery. *Matter*, **2022**, 5, 777-779 12.7