

Mehmet R Dokmeci

List of Publications by Citations

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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.

97 papers	10,162 citations	47 h-index	100 g-index
152 ext. papers	12,240 ext. citations	11.3 avg, IF	6.2 L-index

#	Paper	IF	Citations
97	Direct 3D bioprinting of perfusable vascular constructs using a blend bioink. <i>Biomaterials</i> , 2016 , 106, 58-68	15.6	544
96	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs Using Low-Viscosity Bioink. <i>Advanced Materials</i> , 2016 , 28, 677-84	24	530
95	Bioprinting 3D microfibrous scaffolds for engineering endothelialized myocardium and heart-on-a-chip. <i>Biomaterials</i> , 2016 , 110, 45-59	15.6	495
94	Bioinks for 3D bioprinting: an overview. <i>Biomaterials Science</i> , 2018 , 6, 915-946	7.4	488
93	Direct-write bioprinting of cell-laden methacrylated gelatin hydrogels. <i>Biofabrication</i> , 2014 , 6, 024105	10.5	432
92	Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2293-E2302	11.5	416
91	Photocrosslinkable Gelatin Hydrogel for Epidermal Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016 , 5, 108-18	10.1	407
90	Nanotechnology in Textiles. <i>ACS Nano</i> , 2016 , 10, 3042-68	16.7	390
89	3D Bioprinting for Tissue and Organ Fabrication. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 148-163	4.7	368
88	A liver-on-a-chip platform with bioprinted hepatic spheroids. <i>Biofabrication</i> , 2016 , 8, 014101	10.5	353
87	Multi-tissue interactions in an integrated three-tissue organ-on-a-chip platform. <i>Scientific Reports</i> , 2017 , 7, 8837	4.9	297
86	Reduced Graphene Oxide-GelMA Hybrid Hydrogels as Scaffolds for Cardiac Tissue Engineering. <i>Small</i> , 2016 , 12, 3677-89	11	283
85	Engineering Immunomodulatory Biomaterials To Tune the Inflammatory Response. <i>Trends in Biotechnology</i> , 2016 , 34, 470-482	15.1	268
84	Organ-on-a-chip platforms for studying drug delivery systems. <i>Journal of Controlled Release</i> , 2014 , 190, 82-93	11.7	252
83	Microfluidic techniques for development of 3D vascularized tissue. <i>Biomaterials</i> , 2014 , 35, 7308-25	15.6	215
82	Tough and flexible CNT-polymeric hybrid scaffolds for engineering cardiac constructs. <i>Biomaterials</i> , 2014 , 35, 7346-54	15.6	209
81	Rapid Continuous Multimaterial Extrusion Bioprinting. <i>Advanced Materials</i> , 2017 , 29, 1604630	24	205

80	Microfluidics-Enabled Multimaterial Maskless Stereolithographic Bioprinting. <i>Advanced Materials</i> , 2018 , 30, e1800242	24	190
79	Organs-on-a-chip: a new tool for drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2014 , 9, 335-52	6.2	158
78	A Bioactive Carbon Nanotube-Based Ink for Printing 2D and 3D Flexible Electronics. <i>Advanced Materials</i> , 2016 , 28, 3280-9	24	156
77	Bioprinted thrombosis-on-a-chip. <i>Lab on A Chip</i> , 2016 , 16, 4097-4105	7.2	146
76	Smart Bandage for Monitoring and Treatment of Chronic Wounds. <i>Small</i> , 2018 , 14, e1703509	11	142
75	Microfluidics for Advanced Drug Delivery Systems. <i>Current Opinion in Chemical Engineering</i> , 2015 , 7, 101-112	11.2	140
74	Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers. <i>Analytical Chemistry</i> , 2016 , 88, 10019-10027	7.8	137
73	Layer-by-layer assembly of 3D tissue constructs with functionalized graphene. <i>Advanced Functional Materials</i> , 2014 , 24, 6136-6144	15.6	131
72	A Textile Dressing for Temporal and Dosage Controlled Drug Delivery. <i>Advanced Functional Materials</i> , 2017 , 27, 1702399	15.6	130
71	Flexible pH-Sensing Hydrogel Fibers for Epidermal Applications. <i>Advanced Healthcare Materials</i> , 2016 , 5, 711-9	10.1	122
70	Aligned carbon nanotube-based flexible gel substrates for engineering bio-hybrid tissue actuators. <i>Advanced Functional Materials</i> , 2015 , 25, 4486-4495	15.6	116
69	3D Bioprinting in Skeletal Muscle Tissue Engineering. <i>Small</i> , 2019 , 15, e1805530	11	113
68	Automated microfluidic platform of bead-based electrochemical immunosensor integrated with bioreactor for continual monitoring of cell secreted biomarkers. <i>Scientific Reports</i> , 2016 , 6, 24598	4.9	107
67	Biodegradable Gelatin Methacryloyl Microneedles for Transdermal Drug Delivery. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801054	10.1	105
66	Integrin-Mediated Interactions Control Macrophage Polarization in 3D Hydrogels. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700289	10.1	101
65	Hydrogels for cardiac tissue engineering. <i>NPG Asia Materials</i> , 2014 , 6, e99-e99	10.3	100
64	Room-Temperature-Formed PEDOT:PSS Hydrogels Enable Injectable, Soft, and Healable Organic Bioelectronics. <i>Advanced Materials</i> , 2020 , 32, e1904752	24	97
63	From cardiac tissue engineering to heart-on-a-chip: beating challenges. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 034006	3.5	96

62	Electrically Driven Microengineered Bioinspired Soft Robots. <i>Advanced Materials</i> , 2018 , 30, 1704189	24	94
61	Surface plasmon resonance fiber sensor for real-time and label-free monitoring of cellular behavior. <i>Biosensors and Bioelectronics</i> , 2014 , 56, 359-67	11.8	82
60	Dermal Patch with Integrated Flexible Heater for on Demand Drug Delivery. <i>Advanced Healthcare Materials</i> , 2016 , 5, 175-84	10.1	77
59	Organ-on-a-Chip for Cancer and Immune Organs Modeling. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801363	13.63	71
58	Elastomeric free-form blood vessels for interconnecting organs on chip systems. <i>Lab on A Chip</i> , 2016 , 16, 1579-86	7.2	70
57	A cost-effective fluorescence mini-microscope for biomedical applications. <i>Lab on A Chip</i> , 2015 , 15, 3661-72	7.2	68
56	Biodegradable elastic nanofibrous platforms with integrated flexible heaters for on-demand drug delivery. <i>Scientific Reports</i> , 2017 , 7, 9220	4.9	67
55	Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid. <i>Small</i> , 2020 , 16, e1905910	11	54
54	Advancing Tissue Engineering: A Tale of Nano-, Micro-, and Macroscale Integration. <i>Small</i> , 2016 , 12, 2130-45	14.5	49
53	Biomechanical Strain Exacerbates Inflammation on a Progeria-on-a-Chip Model. <i>Small</i> , 2017 , 13, 1603737	11	48
52	Three-Dimensional Bioprinting of Functional Skeletal Muscle Tissue Using GelatinMethacryloyl-Alginate Bioinks. <i>Micromachines</i> , 2019 , 10,	3.3	48
51	The emergence of 3D bioprinting in organ-on-chip systems. <i>Progress in Biomedical Engineering</i> , 2019 , 1, 012001	7.2	47
50	Non-transdermal microneedles for advanced drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2020 , 165-166, 41-59	18.5	46
49	Protein/polysaccharide-based scaffolds mimicking native extracellular matrix for cardiac tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 769-781	5.4	45
48	Micro and nanoscale technologies in oral drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2020 , 157, 37-62	18.5	45
47	Three-Dimensional Bioprinting Strategies for Tissue Engineering. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2018 , 8,	5.4	43
46	In situ three-dimensional printing for reparative and regenerative therapy. <i>Biomedical Microdevices</i> , 2019 , 21, 42	3.7	41
45	Gelatin methacryloyl-based tactile sensors for medical wearables. <i>Advanced Functional Materials</i> , 2020 , 30, 2003601	15.6	41

44	Hybrid Microscopy: Enabling Inexpensive High-Performance Imaging through Combined Physical and Optical Magnifications. <i>Scientific Reports</i> , 2016 , 6, 22691	4.9	39
43	Micro- and nanoengineering approaches to control stem cell-biomaterial interactions. <i>Journal of Functional Biomaterials</i> , 2011 , 2, 88-106	4.8	39
42	A Patch of Detachable Hybrid Microneedle Depot for Localized Delivery of Mesenchymal Stem Cells in Regeneration Therapy. <i>Advanced Functional Materials</i> , 2020 , 30, 2000086	15.6	38
41	Engineering Precision Medicine. <i>Advanced Science</i> , 2019 , 6, 1801039	13.6	38
40	Biodegradable β -Cyclodextrin Conjugated Gelatin Methacryloyl Microneedle for Delivery of Water-Insoluble Drug. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000527	10.1	35
39	Fabrication of whole-thermoplastic normally closed microvalve, micro check valve, and micropump. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 625-636	8.5	35
38	Hydrophobic Hydrogels: Toward Construction of Floating (Bio)microdevices. <i>Chemistry of Materials</i> , 2016 , 28, 3641-3648	9.6	34
37	Hydrogel-Enabled Transfer-Printing of Conducting Polymer Films for Soft Organic Bioelectronics. <i>Advanced Functional Materials</i> , 2020 , 30, 1906016	15.6	32
36	A Foreign Body Response-on-a-Chip Platform. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801425	10.1	29
35	Google Glass-Directed Monitoring and Control of Microfluidic Biosensors and Actuators. <i>Scientific Reports</i> , 2016 , 6, 22237	4.9	29
34	All electronic approach for high-throughput cell trapping and lysis with electrical impedance monitoring. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 462-7	11.8	27
33	A Heart-Breast Cancer-on-a-Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. <i>Small</i> , 2021 , 17, e2004258	11	21
32	Biodegradable microneedle patch for transdermal gene delivery. <i>Nanoscale</i> , 2020 , 12, 16724-16729	7.7	18
31	Biofabrication of endothelial cell, dermal fibroblast, and multilayered keratinocyte layers for skin tissue engineering. <i>Biofabrication</i> , 2020 ,	10.5	16
30	Antibody Derived Peptides for Detection of Ebola Virus Glycoprotein. <i>PLoS ONE</i> , 2015 , 10, e0135859	3.7	13
29	Platinum nanopetal-based potassium sensors for acute cell death monitoring. <i>RSC Advances</i> , 2016 , 6, 40517-40526	3.7	13
28	Cancer-on-a-Chip for Modeling Immune Checkpoint Inhibitor and Tumor Interactions. <i>Small</i> , 2021 , 17, e2004282	11	12
27	Microengineered poly(HEMA) hydrogels for wearable contact lens biosensing. <i>Lab on A Chip</i> , 2020 , 20, 4205-4214	7.2	11

26	Bioprinting: Rapid Continuous Multimaterial Extrusion Bioprinting (Adv. Mater. 3/2017). <i>Advanced Materials</i> , 2017 , 29,	24	9
25	Lab-on-a-Contact Lens: Recent Advances and Future Opportunities in Diagnostics and Therapeutics.. <i>Advanced Materials</i> , 2022 , e2108389	24	8
24	Controlling Incoming Macrophages to Implants: Responsiveness of Macrophages to Gelatin Micropatterns under M1/M2 Phenotype Defining Biochemical Stimulations. <i>Advanced Biology</i> , 2017 , 1, 1700041	3.5	7
23	Smart flexible wound dressing with wireless drug delivery 2015 ,		7
22	Co-Electrospun Silk Fibroin and Gelatin Methacryloyl Sheet Seeded with Mesenchymal Stem Cells for Tendon Regeneration.. <i>Small</i> , 2022 , e2107714	11	7
21	Wireless flexible smart bandage for continuous monitoring of wound oxygenation 2014 ,		6
20	Flexible patch with printable and antibacterial conductive hydrogel electrodes for accelerated wound healing.. <i>Biomaterials</i> , 2022 , 285, 121479	15.6	6
19	Enhancement of label-free biosensing of cardiac troponin I. <i>Proceedings of SPIE</i> , 2020 , 11251,	1.7	5
18	Rhodamine Conjugated Gelatin Methacryloyl Nanoparticles for Stable Cell Imaging.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6908-6918	4.1	5
17	Healthy and diseased models of vascular systems. <i>Lab on A Chip</i> , 2021 , 21, 641-659	7.2	5
16	Wearable Tactile Sensors: Gelatin Methacryloyl-Based Tactile Sensors for Medical Wearables (Adv. Funct. Mater. 49/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070326	15.6	4
15	Bioprinting: Microfluidics-Enabled Multimaterial Maskless Stereolithographic Bioprinting (Adv. Mater. 27/2018). <i>Advanced Materials</i> , 2018 , 30, 1870201	24	4
14	Biosensors: Label-Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes (Adv. Sci. 5/2017). <i>Advanced Science</i> , 2017 , 4,	13.6	3
13	Hydrogels: Room-Temperature-Formed PEDOT:PSS Hydrogels Enable Injectable, Soft, and Healable Organic Bioelectronics (Adv. Mater. 1/2020). <i>Advanced Materials</i> , 2020 , 32, 2070005	24	3
12	Combined Effects of Electric Stimulation and Microgrooves in Cardiac Tissue-on-a-Chip for Drug Screening. <i>Small Methods</i> , 2020 , 4, 2000438	12.8	3
11	pH-Sensing Hydrogel Fibers: Flexible pH-Sensing Hydrogel Fibers for Epidermal Applications (Adv. Healthcare Mater. 6/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 624-624	10.1	3
10	Smart Bandages: Smart Bandage for Monitoring and Treatment of Chronic Wounds (Small 33/2018). <i>Small</i> , 2018 , 14, 1870150	11	2
9	Organ-On-A-Chip: Biomechanical Strain Exacerbates Inflammation on a Progeria-on-a-Chip Model (Small 15/2017). <i>Small</i> , 2017 , 13,	11	1

8	High-Throughput Drug Screening: A Microfabricated Sandwiching Assay for Nanoliter and High-Throughput Biomarker Screening (Small 15/2019). <i>Small</i> , 2019 , 15, 1970078	11	1
7	Hydrogel-Enabled Transfer Printing: Hydrogel-Enabled Transfer-Printing of Conducting Polymer Films for Soft Organic Bioelectronics (Adv. Funct. Mater. 6/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070038	15.6	1
6	Engineering liver microtissues to study the fusion of HepG2 with mesenchymal stem cells and invasive potential of fused cells. <i>Biofabrication</i> , 2021 , 14,	10.5	1
5	Hall of Fame Article: Minimally Invasive and Regenerative Therapeutics (Adv. Mater. 1/2019). <i>Advanced Materials</i> , 2019 , 31, 1970005	24	1
4	Microneedle Patches: Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid (Small 16/2020). <i>Small</i> , 2020 , 16, 2070086	11	1
3	Angiogenesis: Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAP-Mediated Mechanosensing (Small 25/2020). <i>Small</i> , 2020 , 16, 2070142	11	
2	Microfabricated gels for tissue engineering317-331		
1	Organ-on-a-Chip: A Heart-Breast Cancer-on-a-Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy (Small 15/2021). <i>Small</i> , 2021 , 17, 2170070	11	