

# Tejal A Desai

## List of Publications by Citations

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216  
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106  
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228  
ext. papers

13,974  
ext. citations

9.9  
avg, IF

6.63  
L-index

#	Paper	IF	Citations
216	Influence of engineered titania nanotubular surfaces on bone cells. <i>Biomaterials</i> , <b>2007</b> , 28, 3188-97	15.6	509
215	Decreased Staphylococcus epidermis adhesion and increased osteoblast functionality on antibiotic-loaded titania nanotubes. <i>Biomaterials</i> , <b>2007</b> , 28, 4880-8	15.6	476
214	TiO <sub>2</sub> Nanotube Arrays of 1000 nm Length by Anodization of Titanium Foil: Phenol Red Diffusion. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 14992-14997	3.8	430
213	Proteins and cells on PEG immobilized silicon surfaces. <i>Biomaterials</i> , <b>1998</b> , 19, 953-60	15.6	361
212	Titania nanotubes: a novel platform for drug-eluting coatings for medical implants?. <i>Small</i> , <b>2007</b> , 3, 1878-81	15.6	284
211	Methods for fabrication of nanoscale topography for tissue engineering scaffolds. <i>Annals of Biomedical Engineering</i> , <b>2006</b> , 34, 89-101	4.7	277
210	Micro- and nanoscale structures for tissue engineering constructs. <i>Medical Engineering and Physics</i> , <b>2000</b> , 22, 595-606	2.4	235
209	Microfabricated drug delivery systems: from particles to pores. <i>Advanced Drug Delivery Reviews</i> , <b>2003</b> , 55, 315-28	18.5	220
208	Advances in islet encapsulation technologies. <i>Nature Reviews Drug Discovery</i> , <b>2017</b> , 16, 338-350	64.1	214
207	The effect of TiO <sub>2</sub> nanotubes on endothelial function and smooth muscle proliferation. <i>Biomaterials</i> , <b>2009</b> , 30, 1268-72	15.6	209
206	Evaluation of nanostructured composite collagen--chitosan matrices for tissue engineering. <i>Tissue Engineering</i> , <b>2001</b> , 7, 203-10		201
205	Long-term small molecule and protein elution from TiO <sub>2</sub> nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 1932-6	11.5	178
204	XPS and AFM analysis of antifouling PEG interfaces for microfabricated silicon biosensors. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 20, 227-39	11.8	169
203	Layer-by-layer microfluidics for biomimetic three-dimensional structures. <i>Biomaterials</i> , <b>2004</b> , 25, 1355-64	15.6	164
202	Evaluation of the stability of nonfouling ultrathin poly(ethylene glycol) films for silicon-based microdevices. <i>Langmuir</i> , <b>2004</b> , 20, 348-56	4	162
201	Programmed synthesis of three-dimensional tissues. <i>Nature Methods</i> , <b>2015</b> , 12, 975-81	21.6	152
200	Development and characterization of a porous micro-patterned scaffold for vascular tissue engineering applications. <i>Biomaterials</i> , <b>2006</b> , 27, 4775-82	15.6	152

199	Biomimetic nanowire coatings for next generation adhesive drug delivery systems. <i>Nano Letters</i> , <b>2009</b> , 9, 716-20	11.5	151
198	Biocompatibility of nanoporous alumina membranes for immunoisolation. <i>Biomaterials</i> , <b>2007</b> , 28, 2638-45.6	45.6	147
197	Microfabricated immunoisolating biocapsules. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 57, 118-20	4.9	144
196	Surface modification of nanoporous alumina surfaces with poly(ethylene glycol). <i>Langmuir</i> , <b>2004</b> , 20, 8035-41	4	143
195	Nanopore Technology for Biomedical Applications. <i>Biomedical Microdevices</i> , <b>1999</b> , 2, 11-40	3.7	142
194	Miniaturized iPS-Cell-Derived Cardiac Muscles for Physiologically Relevant Drug Response Analyses. <i>Scientific Reports</i> , <b>2016</b> , 6, 24726	4.9	142
193	Nanoporous anti-fouling silicon membranes for biosensor applications. <i>Biosensors and Bioelectronics</i> , <b>2000</b> , 15, 453-62	11.8	136
192	Microfluidic patterning of cells in extracellular matrix biopolymers: effects of channel size, cell type, and matrix composition on pattern integrity. <i>Tissue Engineering</i> , <b>2003</b> , 9, 255-67		133
191	Influence of nanoporous alumina membranes on long-term osteoblast response. <i>Biomaterials</i> , <b>2005</b> , 26, 4516-22	15.6	132
190	Characterization of micromachined silicon membranes for immunoisolation and bioseparation applications. <i>Journal of Membrane Science</i> , <b>1999</b> , 159, 221-231	9.6	127
189	Stem Cell Therapies for Treating Diabetes: Progress and Remaining Challenges. <i>Cell Stem Cell</i> , <b>2018</b> , 22, 810-823	18	125
188	A microfabricated scaffold for retinal progenitor cell grafting. <i>Biomaterials</i> , <b>2008</b> , 29, 418-26	15.6	121
187	Aligned arrays of biodegradable poly(epsilon-caprolactone) nanowires and nanofibers by template synthesis. <i>Nano Letters</i> , <b>2007</b> , 7, 1463-8	11.5	121
186	Peptide-conjugated quantum dots activate neuronal receptors and initiate downstream signaling of neurite growth. <i>Nano Letters</i> , <b>2005</b> , 5, 603-7	11.5	120
185	Fabrication of microtextured membranes for cardiac myocyte attachment and orientation. <i>Journal of Biomedical Materials Research Part B</i> , <b>2000</b> , 53, 267-75		120
184	Survival, migration and differentiation of retinal progenitor cells transplanted on micro-machined poly(methyl methacrylate) scaffolds to the subretinal space. <i>Lab on A Chip</i> , <b>2007</b> , 7, 695-701	7.2	114
183	Osteogenic differentiation of marrow stromal cells cultured on nanoporous alumina surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 80, 955-64	5.4	114
182	Bioadhesive microdevices with multiple reservoirs: a new platform for oral drug delivery. <i>Journal of Controlled Release</i> , <b>2002</b> , 81, 291-306	11.7	114

181	Peptide-immobilized nanoporous alumina membranes for enhanced osteoblast adhesion. <i>Biomaterials</i> , <b>2005</b> , 26, 1969-76	15.6	110
180	A wireless, remote query glucose biosensor based on a pH-sensitive polymer. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 4038-43	7.8	109
179	Vascular tissue engineering: microtextured scaffold templates to control organization of vascular smooth muscle cells and extracellular matrix. <i>Acta Biomaterialia</i> , <b>2005</b> , 1, 93-100	10.8	107
178	Bioadhesive poly(methyl methacrylate) microdevices for controlled drug delivery. <i>Journal of Controlled Release</i> , <b>2003</b> , 88, 215-28	11.7	101
177	Retinal tissue engineering using mouse retinal progenitor cells and a novel biodegradable, thin-film poly(e-caprolactone) nanowire scaffold. <i>Journal of Ocular Biology, Diseases, and Informatics</i> , <b>2008</b> , 1, 19-29		100
176	Fabrication and evaluation of nanoporous alumina membranes for osteoblast culture. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 72, 288-95	5.4	100
175	Microtextured substrata alter gene expression, protein localization and the shape of cardiac myocytes. <i>Biomaterials</i> , <b>2003</b> , 24, 2463-76	15.6	97
174	Nanoporous microsystems for islet cell replacement. <i>Advanced Drug Delivery Reviews</i> , <b>2004</b> , 56, 1661-73	18.5	94
173	Immobilization of RGD to silicon surfaces for enhanced cell adhesion and proliferation. <i>Biomaterials</i> , <b>2002</b> , 23, 4019-27	15.6	94
172	Microfabricated implants for applications in therapeutic delivery, tissue engineering, and biosensing. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1864-78	7.2	93
171	Fabrication of mechanically robust, large area, polycrystalline nanotubular/porous TiO <sub>2</sub> membranes. <i>Journal of Membrane Science</i> , <b>2008</b> , 319, 199-205	9.6	88
170	Inhibition of fibroblast proliferation in cardiac myocyte cultures by surface microtopography. <i>American Journal of Physiology - Cell Physiology</i> , <b>2003</b> , 285, C171-82	5.4	88
169	Micromachined biocapsules for cell-based sensing and delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2004</b> , 56, 211-29	18.5	87
168	Micromachined interfaces: new approaches in cell immunoisolation and biomolecular separation. <i>New Biotechnology</i> , <b>2000</b> , 17, 23-36		85
167	In vitro inflammatory response of nanostructured titania, silicon oxide, and polycaprolactone. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 91, 647-55	5.4	79
166	Microscale multilayer cocultures for biomimetic blood vessels. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 72, 146-60	5.4	78
165	Surfactant-free, drug-quantum-dot coloaded poly(lactide-co-glycolide) nanoparticles: towards multifunctional nanoparticles. <i>ACS Nano</i> , <b>2008</b> , 2, 538-44	16.7	75
164	Characterization of Nanoporous Membranes for Immunoisolation: Diffusion Properties and Tissue Effects. <i>Biomedical Microdevices</i> , <b>2002</b> , 4, 131-139	3.7	73

163	Controlling Nonspecific Protein Interactions in Silicon Biomicrosystems with Nanostructured Poly(ethylene glycol) Films. <i>Langmuir</i> , <b>2002</b> , 18, 8728-8731	4	72
162	A strategy for tissue self-organization that is robust to cellular heterogeneity and plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 2287-92	11.5	71
161	Microfabricated grooves recapitulate neonatal myocyte connexin43 and N-cadherin expression and localization. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 67, 148-57		71
160	Optical coherence tomography of cell dynamics in three-dimensional tissue models. <i>Optics Express</i> , <b>2006</b> , 14, 7159-71	3.3	70
159	The Psychiatric Cell Map Initiative: A Convergent Systems Biological Approach to Illuminating Key Molecular Pathways in Neuropsychiatric Disorders. <i>Cell</i> , <b>2018</b> , 174, 505-520	56.2	69
158	A Tunable, Biodegradable, Thin-Film Polymer Device as a Long-Acting Implant Delivering Tenofovir Alafenamide Fumarate for HIV Pre-exposure Prophylaxis. <i>Pharmaceutical Research</i> , <b>2016</b> , 33, 1649-56	4.5	68
157	Micro/nanofabricated platforms for oral drug delivery. <i>Journal of Controlled Release</i> , <b>2015</b> , 219, 431-444	11.7	67
156	Poly(ethylene glycol) interfaces: an approach for enhanced performance of microfluidic systems. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 19, 1037-44	11.8	67
155	Microfabricated biocapsules provide short-term immunoisolation of insulinoma xenografts. <i>Biomedical Microdevices</i> , <b>1999</b> , 1, 131-8	3.7	67
154	Phase composition control of calcium phosphate nanoparticles for tunable drug delivery kinetics and treatment of osteomyelitis. I. Preparation and drug release. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 1416-26	5.4	64
153	Whole genome expression analysis reveals differential effects of TiO <sub>2</sub> nanotubes on vascular cells. <i>Nano Letters</i> , <b>2010</b> , 10, 143-8	11.5	64
152	Effect of calcium phosphate particle shape and size on their antibacterial and osteogenic activity in the delivery of antibiotics in vitro. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 2422-31	9.5	62
151	Surface modification of SU-8 for enhanced biofunctionality and nonfouling properties. <i>Langmuir</i> , <b>2008</b> , 24, 2631-6	4	62
150	Micromachined devices: the impact of controlled geometry from cell-targeting to bioavailability. <i>Journal of Controlled Release</i> , <b>2005</b> , 109, 127-38	11.7	62
149	Enhanced differentiation of retinal progenitor cells using microfabricated topographical cues. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 363-9	3.7	61
148	Ultrathin poly(ethylene glycol) films for silicon-based microdevices. <i>Applied Surface Science</i> , <b>2003</b> , 206, 218-229	6.7	61
147	Control of cellular organization in three dimensions using a microfabricated polydimethylsiloxane-collagen composite tissue scaffold. <i>Tissue Engineering</i> , <b>2005</b> , 11, 378-86		59
146	Gastrointestinal patch systems for oral drug delivery. <i>Drug Discovery Today</i> , <b>2005</b> , 10, 909-15	8.8	59

145	Polycaprolactone Thin-Film Micro- and Nanoporous Cell-Encapsulation Devices. <i>ACS Nano</i> , <b>2015</b> , 9, 5675-827	16.7	58
144	Off-wafer fabrication and surface modification of asymmetric 3D SU-8 microparticles. <i>Nature Protocols</i> , <b>2006</b> , 1, 3153-8	18.8	58
143	Membranes to achieve immunoprotection of transplanted islets. <i>Frontiers in Bioscience - Landmark</i> , <b>2014</b> , 19, 49-76	2.8	56
142	Microfabricated devices for enhanced bioadhesive drug delivery: attachment to and small-molecule release through a cell monolayer under flow. <i>Small</i> , <b>2009</b> , 5, 2857-63	11	55
141	Functional MR microimaging of pancreatic beta-cell activation. <i>Cell Transplantation</i> , <b>2006</b> , 15, 195-203	4	55
140	Nanoporous alumina capsules for cellular macroencapsulation: transport and biocompatibility. <i>Diabetes Technology and Therapeutics</i> , <b>2005</b> , 7, 684-94	8.1	55
139	Purified and surfactant-free coenzyme Q10-loaded biodegradable nanoparticles. <i>International Journal of Pharmaceutics</i> , <b>2008</b> , 348, 107-14	6.5	54
138	Nanoporous Immunoprotective Device for Stem-Cell-Derived $\beta$ Cell Replacement Therapy. <i>ACS Nano</i> , <b>2017</b> , 11, 7747-7757	16.7	53
137	Nanostructured surfaces for bone biotemplating applications. <i>Journal of Orthopaedic Research</i> , <b>2006</b> , 24, 619-27	3.8	52
136	Quantitative XPS Analysis of PEG-Modified Silicon Surfaces. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 5185-5188	3.4	52
135	Hemocompatibility of silicon-based substrates for biomedical implant applications. <i>Annals of Biomedical Engineering</i> , <b>2011</b> , 39, 1296-305	4.7	51
134	In vitro analysis of nanoparticulate hydroxyapatite/chitosan composites as potential drug delivery platforms for the sustained release of antibiotics in the treatment of osteomyelitis. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 567-79	3.9	50
133	PEGylated silicon nanowire coated silica microparticles for drug delivery across intestinal epithelium. <i>Biomaterials</i> , <b>2012</b> , 33, 1663-72	15.6	50
132	Nanoscale porosity in polymer films: fabrication and therapeutic applications. <i>Soft Matter</i> , <b>2010</b> , 6, 1621-1631	16.31	50
131	Evaluation of silicon nanoporous membranes and ECM-based microenvironments on neurosecretory cells. <i>Biomaterials</i> , <b>2006</b> , 27, 3075-83	15.6	50
130	Planar microdevices for enhanced in vivo retention and oral bioavailability of poorly permeable drugs. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 1648-54	10.1	49
129	In vitro immunogenicity of silicon-based micro- and nanostructured surfaces. <i>ACS Nano</i> , <b>2008</b> , 2, 1076-84	16.7	49
128	Characterization of vapor deposited thin silane films on silicon substrates for biomedical microdevices. <i>Surface and Coatings Technology</i> , <b>2002</b> , 154, 253-261	4.4	49

127	Fabrication of Sealed Nanostraw Microdevices for Oral Drug Delivery. <i>ACS Nano</i> , <b>2016</b> , 10, 5873-81	16.7	47
126	Microfabrication of an asymmetric, multi-layered microdevice for controlled release of orally delivered therapeutics. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1042-7	7.2	46
125	Engineering a Clinically Translatable Bioartificial Pancreas to Treat Type I Diabetes. <i>Trends in Biotechnology</i> , <b>2018</b> , 36, 445-456	15.1	45
124	Shape effect in the design of nanowire-coated microparticles as transepithelial drug delivery devices. <i>ACS Nano</i> , <b>2012</b> , 6, 7832-41	16.7	45
123	Multi-reservoir bioadhesive microdevices for independent rate-controlled delivery of multiple drugs. <i>Small</i> , <b>2012</b> , 8, 3839-46	11	45
122	Combined effects of microtopography and cyclic strain on vascular smooth muscle cell orientation. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 762-9	2.9	45
121	Microfluidic Patterning of Cellular Biopolymer Matrices for Biomimetic 3-D Structures. <i>Biomedical Microdevices</i> , <b>2003</b> , 5, 235-244	3.7	45
120	Micro and nanoscale technologies in oral drug delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2020</b> , 157, 37-62	8.5	45
119	Contractility-dependent modulation of cell proliferation and adhesion by microscale topographical cues. <i>Small</i> , <b>2008</b> , 4, 1416-24	11	44
118	Microtopographical cues in 3D attenuate fibrotic phenotype and extracellular matrix deposition: implications for tissue regeneration. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 2519-27	3.9	42
117	Fund Black scientists. <i>Cell</i> , <b>2021</b> , 184, 561-565	56.2	42
116	Differentiation of human embryonic stem cells into pancreatic endoderm in patterned size-controlled clusters. <i>Stem Cell Research</i> , <b>2011</b> , 6, 276-85	1.6	41
115	Biocompatibility and Pharmacokinetic Analysis of an Intracameral Polycaprolactone Drug Delivery Implant for Glaucoma <b>2016</b> , 57, 4341-6		40
114	Nanostructure-mediated transport of biologics across epithelial tissue: enhancing permeability via nanotopography. <i>Nano Letters</i> , <b>2013</b> , 13, 164-71	11.5	39
113	Emerging microtechnologies for the development of oral drug delivery devices. <i>Advanced Drug Delivery Reviews</i> , <b>2012</b> , 64, 1569-78	18.5	39
112	Nanostructured thin film polymer devices for constant-rate protein delivery. <i>Nano Letters</i> , <b>2012</b> , 12, 5355-561	16.1	39
111	Characterization of PC12 cell proliferation and differentiation-stimulated by ECM adhesion proteins and neurotrophic factors. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2003</b> , 14, 1005-9	4.5	39
110	Simultaneous bactericidal and osteogenic effect of nanoparticulate calcium phosphate powders loaded with clindamycin on osteoblasts infected with <i>Staphylococcus aureus</i> . <i>Materials Science and Engineering C</i> , <b>2014</b> , 37, 210-22	8.3	38

109	Polycaprolactone thin-film drug delivery systems: Empirical and predictive models for device design. <i>Materials Science and Engineering C</i> , <b>2015</b> , 57, 232-9	8.3	37
108	Injectable hyaluronic acid based microrods provide local micromechanical and biochemical cues to attenuate cardiac fibrosis after myocardial infarction. <i>Biomaterials</i> , <b>2018</b> , 169, 11-21	15.6	37
107	Collagen fibril diameter and alignment promote the quiescent keratocyte phenotype. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 613-21	5.4	37
106	Ocular biocompatibility and structural integrity of micro- and nanostructured poly(caprolactone) films. <i>Journal of Ocular Pharmacology and Therapeutics</i> , <b>2013</b> , 29, 249-57	2.6	37
105	Nitinol-based nanotubular coatings for the modulation of human vascular cell function. <i>Nano Letters</i> , <b>2014</b> , 14, 5021-8	11.5	36
104	The effect of nanotopography on modulating protein adsorption and the fibrotic response. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 130-8	3.9	36
103	Nanotemplating of biodegradable polymer membranes for constant-rate drug delivery. <i>Advanced Materials</i> , <b>2010</b> , 22, 2358-62	24	34
102	Microfabrication technology for pancreatic cell encapsulation. <i>Expert Opinion on Biological Therapy</i> , <b>2002</b> , 2, 633-46	5.4	34
101	Silicon nanopore membrane (SNM) for islet encapsulation and immunoisolation under convective transport. <i>Scientific Reports</i> , <b>2016</b> , 6, 23679	4.9	33
100	Pro-resolving lipid mediators in vascular disease. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 3727-3735	15.9	33
99	Compliant 3D microenvironment improves $\beta$ cell cluster insulin expression through mechanosensing and $\beta$ catenin signaling. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 1888-95	3.9	32
98	Bioadhesive Microdevices for Drug Delivery: A Feasibility Study. <i>Biomedical Microdevices</i> , <b>2001</b> , 3, 89-96	3.7	32
97	Engineering the drug carrier biointerface to overcome biological barriers to drug delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2020</b> , 167, 89-108	18.5	31
96	Hierarchical nanoengineered surfaces for enhanced cytoadhesion and drug delivery. <i>Biomaterials</i> , <b>2011</b> , 32, 3499-506	15.6	31
95	Proliferation of mouse embryonic stem cell progeny and the spontaneous contractile activity of cardiomyocytes are affected by microtopography. <i>Developmental Dynamics</i> , <b>2009</b> , 238, 1964-73	2.9	29
94	Microstructures in 3D biological gels affect cell proliferation. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 379-90	9.9	29
93	Nanotopography facilitates in vivo transdermal delivery of high molecular weight therapeutics through an integrin-dependent mechanism. <i>Nano Letters</i> , <b>2015</b> , 15, 2434-41	11.5	28
92	Nanoengineered surfaces enhance drug loading and adhesion. <i>Nano Letters</i> , <b>2011</b> , 11, 1076-81	11.5	28



91	Nanoengineered Stent Surface to Reduce In-Stent Restenosis in Vivo. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 19677-19686	9.5	27
90	Recent advances in intraocular sustained-release drug delivery devices. <i>Drug Discovery Today</i> , <b>2019</b> , 24, 1694-1700	8.8	27
89	Three-dimensional culture with stiff microstructures increases proliferation and slows osteogenic differentiation of human mesenchymal stem cells. <i>Small</i> , <b>2010</b> , 6, 355-60	11	25
88	Long acting systemic HIV pre-exposure prophylaxis: an examination of the field. <i>Drug Delivery and Translational Research</i> , <b>2017</b> , 7, 805-816	6.2	24
87	Biophysical mechanisms of single-cell interactions with microtopographical cues. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 287-96	3.7	24
86	Nanoparticulate drug delivery platforms for advancing bone infection therapies. <i>Expert Opinion on Drug Delivery</i> , <b>2014</b> , 11, 1899-912	8	23
85	Patterning of mono- and multilayered pancreatic beta-cell clusters. <i>Langmuir</i> , <b>2010</b> , 26, 9943-9	4	21
84	AFM analysis of organic silane thin films for bioMEMS applications. <i>Surface and Interface Analysis</i> , <b>2003</b> , 35, 205-215	1.5	21
83	Picoliter-volume inkjet printing into planar microdevice reservoirs for low-waste, high-capacity drug loading. <i>Bioengineering and Translational Medicine</i> , <b>2017</b> , 2, 9-16	14.8	20
82	In Vitro and In Vivo Sustained Zero-Order Delivery of Rapamycin (Sirolimus) From a Biodegradable Intraocular Device <b>2015</b> , 56, 7331-7		20
81	Formation of spatially and geometrically controlled three-dimensional tissues in soft gels by sacrificial micromolding. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 541-7	2.9	19
80	Nitinol-Based Nanotubular Arrays with Controlled Diameters Upregulate Human Vascular Cell ECM Production. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 409-414	5.5	19
79	Bottom-Up Fabrication of Multilayer Enteric Devices for the Oral Delivery of Peptides. <i>Pharmaceutical Research</i> , <b>2019</b> , 36, 89	4.5	18
78	Effect of collagen nanotopography on keloid fibroblast proliferation and matrix synthesis: implications for dermal wound healing. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 2728-36	3.9	18
77	Fabrication of micropatterned polymeric nanowire arrays for high-resolution reagent localization and topographical cellular control. <i>Nano Letters</i> , <b>2015</b> , 15, 1540-6	11.5	18
76	DNA scaffolds enable efficient and tunable functionalization of biomaterials for immune cell modulation. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 214-223	28.7	18
75	Perivascular delivery of resolvin D1 inhibits neointimal hyperplasia in a rabbit vein graft model. <i>Journal of Vascular Surgery</i> , <b>2018</b> , 68, 188S-200S.e4	3.5	17
74	In vivo and in vitro sustained release of ranibizumab from a nanoporous thin-film device. <i>Drug Delivery and Translational Research</i> , <b>2016</b> , 6, 771-780	6.2	17

73	Sustained delivery of MGF peptide from microrods attracts stem cells and reduces apoptosis of myocytes. <i>Biomedical Microdevices</i> , <b>2014</b> , 16, 705-15	3.7	16
72	Synthesis of cytoadhesive poly(methylmethacrylate) for applications in targeted drug delivery. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 67, 369-75		16
71	Planar bioadhesive microdevices: a new technology for oral drug delivery. <i>Current Pharmaceutical Biotechnology</i> , <b>2014</b> , 15, 673-83	2.6	16
70	Long-term intraocular pressure reduction with intracameral polycaprolactone glaucoma devices that deliver a novel anti-glaucoma agent. <i>Journal of Controlled Release</i> , <b>2018</b> , 269, 45-51	11.7	16
69	Interventional magnetic resonance imaging-guided cell transplantation into the brain with radially branched deployment. <i>Molecular Therapy</i> , <b>2015</b> , 23, 119-29	11.7	15
68	Nano- and microfabrication for overcoming drug delivery challenges. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 1878-1884	7.3	15
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