

# Donald E Ingber

## 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.

258  
papers

57,684  
citations

112  
h-index

240  
g-index

291  
ext. papers

65,116  
ext. citations

12.1  
avg. IF

8.2  
L-index

#	Paper	IF	Citations
258	Establishment of a Modular Anaerobic Human Intestine Chip. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2373, 69-85	1.4	3
257	Establishment of physiologically relevant oxygen gradients in microfluidic organ chips.. <i>Lab on A Chip</i> , <b>2022</b> ,	7.2	3
256	Human organs-on-chips for disease modelling, drug development and personalized medicine.. <i>Nature Reviews Genetics</i> , <b>2022</b> ,	30.1	31
255	Ectopic Lymphoid Follicle Formation and Human Seasonal Influenza Vaccination Responses Recapitulated in an Organ-on-a-Chip.. <i>Advanced Science</i> , <b>2022</b> , e2103241	13.6	6
254	Mechanical control of innate immune responses against viral infection revealed in a human lung alveolus chip.. <i>Nature Communications</i> , <b>2022</b> , 13, 1928	17.4	5
253	Ultra-Rapid Method for Coating Electrochemical Sensors with Antifouling Conductive Nanomaterials Enables Highly Sensitive Multiplexed Detection in Whole Blood.. <i>Advanced Healthcare Materials</i> , <b>2021</b> , e2102244	10.1	4
252	Modeling pulmonary cystic fibrosis in a human lung airway-on-a-chip: Cystic fibrosis airway chip. <i>Journal of Cystic Fibrosis</i> , <b>2021</b> ,	4.1	6
251	Changes in ABC Transporter Expression during Hematopoiesis Cause Lineage-Biased Cytopenias in Patients Treated with Aurora Kinase Inhibitors. <i>Blood</i> , <b>2021</b> , 138, 4292-4292	2.2	
250	Self-assembling short immunostimulatory duplex RNAs with broad spectrum antiviral activity <b>2021</b> ,		1
249	Enteric Coronavirus Infection and Treatment Modeled With an Immunocompetent Human Intestine-On-A-Chip. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 718484	5.6	7
248	Harnessing Colon Chip Technology to Identify Commensal Bacteria That Promote Host Tolerance to Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2021</b> , 11, 638014	5.9	14
247	Transferrin receptor targeting by de novo sheet extension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
246	COVID-19 tissue atlases reveal SARS-CoV-2 pathology and cellular targets. <i>Nature</i> , <b>2021</b> , 595, 107-113	50.4	124
245	A human-airway-on-a-chip for the rapid identification of candidate antiviral therapeutics and prophylactics. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 815-829	19	62
244	Biomaterial vaccines capturing pathogen-associated molecular patterns protect against bacterial infections and septic shock. <i>Nature Biomedical Engineering</i> , <b>2021</b> ,	19	5
243	Simulating drug concentrations in PDMS microfluidic organ chips. <i>Lab on A Chip</i> , <b>2021</b> , 21, 3509-3519	7.2	18
242	Anomalous COVID-19 tests hinder researchers. <i>Science</i> , <b>2021</b> , 371, 244-245	33.3	8

241	Graphene Enabled Low-Noise Surface Chemistry for Multiplexed Sepsis Biomarker Detection in Whole Blood. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010638	15.6	19
240	Enabling out-of-body experiences for living organs. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	3
239	Mechanosensation Mediates Long-Range Spatial Decision-Making in an Aneural Organism. <i>Advanced Materials</i> , <b>2021</b> , 33, e2008161	24	0
238	Laboratory-Generated DNA Can Cause Anomalous Pathogen Diagnostic Test Results. <i>Microbiology Spectrum</i> , <b>2021</b> , 9, e0031321	8.9	3
237	Clinically Relevant Influenza Virus Evolution Reconstituted in a Human Lung Airway-on-a-Chip. <i>Microbiology Spectrum</i> , <b>2021</b> , 9, e0025721	8.9	8
236	Enabling Multiplexed Electrochemical Detection of Biomarkers with High Sensitivity in Complex Biological Samples. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 3529-3539	24.3	5
235	On-chip recapitulation of clinical bone marrow toxicities and patient-specific pathophysiology. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 394-406	19	97
234	Quantitative prediction of human pharmacokinetic responses to drugs via fluidically coupled vascularized organ chips. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 421-436	19	154
233	YAP Regulates Hematopoietic Stem Cell Formation in Response to the Biomechanical Forces of Blood Flow. <i>Developmental Cell</i> , <b>2020</b> , 52, 446-460.e5	10.2	25
232	Biology-inspired microphysiological systems to advance patient benefit and animal welfare in drug development. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2020</b> , 37, 365-394	4.3	66
231	Increased phosphorylation of ACTN4 leads to podocyte vulnerability and proteinuric kidney disease and is stimulated by high glucose and TGF- $\beta$ . <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
230	Robotic fluidic coupling and interrogation of multiple vascularized organ chips. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 407-420	19	150
229	Biomimetic smoking robot for in vitro inhalation exposure compatible with microfluidic organ chips. <i>Nature Protocols</i> , <b>2020</b> , 15, 183-206	18.8	17
228	Human Colon-on-a-Chip Enables Continuous In Vitro Analysis of Colon Mucus Layer Accumulation and Physiology. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2020</b> , 9, 507-526	7.9	75
227	Molecular mapping of transmembrane mechanotransduction through the $\alpha$ 5 $\beta$ 1 integrin-CD98hc-TRPV4 axis. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	12
226	Origami microfluidics for radiant cooling with small temperature differences in buildings. <i>Applied Energy</i> , <b>2020</b> , 277, 115610	10.7	7
225	Human Organs-on-Chips for Virology. <i>Trends in Microbiology</i> , <b>2020</b> , 28, 934-946	12.4	50
224	Treatment of psoriasis with NFKBIZ siRNA using topical ionic liquid formulations. <i>Science Advances</i> , <b>2020</b> , 6, eabb6049	14.3	22

223	Proteomic and Metabolomic Characterization of Human Neurovascular Unit Cells in Response to Methamphetamine. <i>Advanced Biology</i> , <b>2020</b> , 4, e1900230	3.5	9
222	Is it Time for Reviewer 3 to Request Human Organ Chip Experiments Instead of Animal Validation Studies?. <i>Advanced Science</i> , <b>2020</b> , 7, 2002030	13.6	79
221	Emerging preclinical evidence does not support broad use of hydroxychloroquine in COVID-19 patients. <i>Nature Communications</i> , <b>2020</b> , 11, 4253	17.4	24
220	Controllable Fabrication of Inhomogeneous Microcapsules for Triggered Release by Osmotic Pressure. <i>Small</i> , <b>2019</b> , 15, e1903087	11	12
219	Tumor-Derived Extracellular Vesicles Breach the Intact Blood-Brain Barrier Transcytosis. <i>ACS Nano</i> , <b>2019</b> , 13, 13853-13865	16.7	167
218	Non-invasive sensing of transepithelial barrier function and tissue differentiation in organs-on-chips using impedance spectroscopy. <i>Lab on A Chip</i> , <b>2019</b> , 19, 452-463	7.2	66
217	Cellular nanoscale stiffness patterns governed by intracellular forces. <i>Nature Materials</i> , <b>2019</b> , 18, 1071-1077	10.7	36
216	Hypoxia-enhanced Blood-Brain Barrier Chip recapitulates human barrier function and shuttling of drugs and antibodies. <i>Nature Communications</i> , <b>2019</b> , 10, 2621	17.4	231
215	Human Intestinal Morphogenesis Controlled by Transepithelial Morphogen Gradient and Flow-Dependent Physical Cues in a Microengineered Gut-on-a-Chip. <i>iScience</i> , <b>2019</b> , 15, 391-406	6.1	75
214	A complex human gut microbiome cultured in an anaerobic intestine-on-a-chip. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 520-531	19	283
213	Species-specific enhancement of enterohemorrhagic E. coli pathogenesis mediated by microbiome metabolites. <i>Microbiome</i> , <b>2019</b> , 7, 43	16.6	64
212	Reproducing human and cross-species drug toxicities using a Liver-Chip. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	161
211	Broad-spectrum capture of clinical pathogens using engineered Fc-mannose-binding lectin enhanced by antibiotic treatment. <i>F1000Research</i> , <b>2019</b> , 8, 108	3.6	13
210	Platelet decoys inhibit thrombosis and prevent metastatic tumor formation in preclinical models. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	32
209	An antifouling coating that enables affinity-based electrochemical biosensing in complex biological fluids. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 1143-1149	28.7	125
208	AAV-mediated gene therapy targeting TRPV4 mechanotransduction for inhibition of pulmonary vascular leakage. <i>APL Bioengineering</i> , <b>2019</b> , 3, 046103	6.6	15
207	Rapid Coating Process Generates Omniphobic Dentures in Minutes to Reduce Biofouling. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 420-424	5.5	7
206	Modelling cancer in microfluidic human organs-on-chips. <i>Nature Reviews Cancer</i> , <b>2019</b> , 19, 65-81	31.3	340

205	Multi-scale modeling reveals use of hierarchical tensegrity principles at the molecular, multi-molecular, and cellular levels. <i>Extreme Mechanics Letters</i> , <b>2018</b> , 20, 21-28	3.9	7
204	Organ-on-Chip Recapitulates Thrombosis Induced by an anti-CD154 Monoclonal Antibody: Translational Potential of Advanced Microengineered Systems. <i>Clinical Pharmacology and Therapeutics</i> , <b>2018</b> , 104, 1240-1248	6.1	62
203	Rapid Prototyping of Thermoplastic Microfluidic Devices. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1771, 161-170	1.7	5
202	Modeling radiation injury-induced cell death and countermeasure drug responses in a human Gut-on-a-Chip. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 223	9.8	100
201	Development of a primary human Small Intestine-on-a-Chip using biopsy-derived organoids. <i>Scientific Reports</i> , <b>2018</b> , 8, 2871	4.9	356
200	PAR1 agonists stimulate APC-like endothelial cytoprotection and confer resistance to thromboinflammatory injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E982-E991	11.5	33
199	Physiologically Based Pharmacokinetic and Pharmacodynamic Analysis Enabled by Microfluidically Linked Organs-on-Chips. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2018</b> , 58, 37-64	17.9	103
198	Microfluidic Organ-on-a-Chip Models of Human Intestine. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2018</b> , 5, 659-668	7.9	299
197	Primary Human Lung Alveolus-on-a-chip Model of Intravascular Thrombosis for Assessment of Therapeutics. <i>Clinical Pharmacology and Therapeutics</i> , <b>2018</b> , 103, 332-340	6.1	161
196	Directed differentiation of human induced pluripotent stem cells into mature kidney podocytes and establishment of a Glomerulus Chip. <i>Nature Protocols</i> , <b>2018</b> , 13, 1662-1685	18.8	72
195	A linked organ-on-chip model of the human neurovascular unit reveals the metabolic coupling of endothelial and neuronal cells. <i>Nature Biotechnology</i> , <b>2018</b> , 36, 865-874	44.5	207
194	From mechanobiology to developmentally inspired engineering. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 373,	5.8	21
193	Scalable Fabrication of Stretchable, Dual Channel, Microfluidic Organ Chips. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	18
192	Developmentally inspired human Organs on chips. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	59
191	Modulation of the Cellular Uptake of DNA Origami through Control over Mass and Shape. <i>Nano Letters</i> , <b>2018</b> , 18, 3557-3564	11.5	121
190	Mature induced-pluripotent-stem-cell-derived human podocytes reconstitute kidney glomerular-capillary-wall function on a chip. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1,	19	253
189	SEBS elastomers for fabrication of microfluidic devices with reduced drug absorption by injection molding and extrusion. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 1	2.8	52
188	Human Lung Small Airway-on-a-Chip Protocol. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1612, 345-365	1.4	40

187	Ultrasound-sensitive nanoparticle aggregates for targeted drug delivery. <i>Biomaterials</i> , <b>2017</b> , 139, 187-194.	4.6	46
186	Organs-on-Chips with combined multi-electrode array and transepithelial electrical resistance measurement capabilities. <i>Lab on A Chip</i> , <b>2017</b> , 17, 2294-2302	7.2	134
185	Reproductive endocrinology: Cycling through the menstrual cycle - an out-of-body experience. <i>Nature Reviews Endocrinology</i> , <b>2017</b> , 13, 380-382	15.2	1
184	Organs-on-chips with integrated electrodes for trans-epithelial electrical resistance (TEER) measurements of human epithelial barrier function. <i>Lab on A Chip</i> , <b>2017</b> , 17, 2264-2271	7.2	192
183	Human Organ Chip Models Recapitulate Orthotopic Lung Cancer Growth, Therapeutic Responses, and Tumor Dormancy In Vitro. <i>Cell Reports</i> , <b>2017</b> , 21, 508-516	10.6	204
182	A Biologically Inspired, Functionally Graded End Effector for Soft Robotics Applications. <i>Soft Robotics</i> , <b>2017</b> , 4, 317-323	9.2	33
181	Art Advancing Science: Filmmaking Leads to Molecular Insights at the Nanoscale. <i>ACS Nano</i> , <b>2017</b> , 11, 12156-12166	16.7	4
180	Theory and associated phenomenology for intrinsic mortality arising from natural selection. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173677	3.7	6
179	Mechanical induction of dentin-like differentiation by adult mouse bone marrow stromal cells using compressive scaffolds. <i>Stem Cell Research</i> , <b>2017</b> , 24, 55-60	1.6	12
178	The Wyss institute: A new model for medical technology innovation and translation across the academic-industrial interface. <i>Bioengineering and Translational Medicine</i> , <b>2017</b> , 2, 247-257	14.8	9
177	An Engineered Human Fc-Mannose-Binding-Lectin Captures Circulating Tumor Cells. <i>Advanced Biology</i> , <b>2017</b> , 1, e1700094	3.5	8
176	Direct Bonding of Chitosan Biomaterials to Tissues Using Transglutaminase for Surgical Repair or Device Implantation. <i>Tissue Engineering - Part A</i> , <b>2017</b> , 23, 135-142	3.9	13
175	Human Gut-On-A-Chip Supports Polarized Infection of Coxsackie B1 Virus In Vitro. <i>PLoS ONE</i> , <b>2017</b> , 12, e0169412	3.7	112
174	Activation of mechanosensitive ion channel TRPV4 normalizes tumor vasculature and improves cancer therapy. <i>Oncogene</i> , <b>2016</b> , 35, 314-22	9.2	95
173	Commendation for Exposing Key Advantage of Organ Chip Approach. <i>Cell Systems</i> , <b>2016</b> , 3, 411	10.6	7
172	Matched-Comparative Modeling of Normal and Diseased Human Airway Responses Using a Microengineered Breathing Lung Chip. <i>Cell Systems</i> , <b>2016</b> , 3, 456-466.e4	10.6	152
171	Co-culture of Living Microbiome with Microengineered Human Intestinal Villi in a Gut-on-a-Chip Microfluidic Device. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	34
170	A Broad-Spectrum Infection Diagnostic that Detects Pathogen-Associated Molecular Patterns (PAMPs) in Whole Blood. <i>EBioMedicine</i> , <b>2016</b> , 9, 217-227	8.8	24

169	Contributions of microbiome and mechanical deformation to intestinal bacterial overgrowth and inflammation in a human gut-on-a-chip. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E7-15	11.5	523
168	Modeling Hematopoiesis and Responses to Radiation Countermeasures in a Bone Marrow-on-a-Chip. <i>Tissue Engineering - Part C: Methods</i> , <b>2016</b> , 22, 509-15	2.9	40
167	Reverse Engineering Human Pathophysiology with Organs-on-Chips. <i>Cell</i> , <b>2016</b> , 164, 1105-1109	56.2	131
166	Small airway-on-a-chip enables analysis of human lung inflammation and drug responses in vitro. <i>Nature Methods</i> , <b>2016</b> , 13, 151-7	21.6	426
165	A shear gradient-activated microfluidic device for automated monitoring of whole blood haemostasis and platelet function. <i>Nature Communications</i> , <b>2016</b> , 7, 10176	17.4	109
164	A Chemical APC Mimetic Protects Endothelium from Thromboinflammatory Injury. <i>Blood</i> , <b>2016</b> , 128, 3835-3835	2.2	2
163	Rapid Isolation of Staphylococcus aureus Pathogens from Infected Clinical Samples Using Magnetic Beads Coated with Fc-Mannose Binding Lectin. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156287	3.7	17
162	Distinct Contributions of Astrocytes and Pericytes to Neuroinflammation Identified in a 3D Human Blood-Brain Barrier on a Chip. <i>PLoS ONE</i> , <b>2016</b> , 11, e0150360	3.7	258
161	Application of a Halbach magnetic array for long-range cell and particle separations in biological samples. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 213702	3.4	11
160	Assessment of whole blood thrombosis in a microfluidic device lined by fixed human endothelium. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 73	3.7	80
159	Improved treatment of systemic blood infections using antibiotics with extracorporeal opsonin hemoadsorption. <i>Biomaterials</i> , <b>2015</b> , 67, 382-92	15.6	48
158	Control of cancer formation by intrinsic genetic noise and microenvironmental cues. <i>Nature Reviews Cancer</i> , <b>2015</b> , 15, 499-509	31.3	44
157	Programed Death is Favored by Natural Selection in Spatial Systems. <i>Physical Review Letters</i> , <b>2015</b> , 114, 238103	7.4	19
156	Biomechanical forces promote blood development through prostaglandin E2 and the cAMP-PKA signaling axis. <i>Journal of Experimental Medicine</i> , <b>2015</b> , 212, 665-80	16.6	58
155	Generation of biocompatible droplets for in vivo and in vitro measurement of cell-generated mechanical stresses. <i>Methods in Cell Biology</i> , <b>2015</b> , 125, 373-90	1.8	12
154	Targeted drug delivery to flow-obstructed blood vessels using mechanically activated nanotherapeutics. <i>JAMA Neurology</i> , <b>2015</b> , 72, 119-22	17.2	31
153	Shear-Activated Nanoparticle Aggregates Combined With Temporary Endovascular Bypass to Treat Large Vessel Occlusion. <i>Stroke</i> , <b>2015</b> , 46, 3507-13	6.7	32
152	Developmentally Inspired Regenerative Organ Engineering <b>2015</b> , 17-24		

151	Mesenchymal condensation-dependent accumulation of collagen VI stabilizes organ-specific cell fates during embryonic tooth formation. <i>Developmental Dynamics</i> , <b>2015</b> , 244, 713-23	2.9	14
150	Optimization of Pathogen Capture in Flowing Fluids with Magnetic Nanoparticles. <i>Small</i> , <b>2015</b> , 11, 5657-66		32
149	Stability of Surface-Immobilized Lubricant Interfaces under Flow. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1792-1800	18.0	136
148	Engineered in vitro disease models. <i>Annual Review of Pathology: Mechanisms of Disease</i> , <b>2015</b> , 10, 195-262	3.4	373
147	Measuring direct current trans-epithelial electrical resistance in organ-on-a-chip microsystems. <i>Lab on A Chip</i> , <b>2015</b> , 15, 745-52	7.2	105
146	A combinatorial cell-laden gel microarray for inducing osteogenic differentiation of human mesenchymal stem cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 3896	4.9	102
145	Manufacturing of Large-Scale Functional Objects Using Biodegradable Chitosan Bioplastic. <i>Macromolecular Materials and Engineering</i> , <b>2014</b> , 299, 932-938	3.9	77
144	Bone marrow-on-a-chip replicates hematopoietic niche physiology in vitro. <i>Nature Methods</i> , <b>2014</b> , 11, 663-9	21.6	293
143	Nanoparticle targeting of anti-cancer drugs that alter intracellular signaling or influence the tumor microenvironment. <i>Advanced Drug Delivery Reviews</i> , <b>2014</b> , 79-80, 107-18	18.5	163
142	Tensegrity, cellular biophysics, and the mechanics of living systems. <i>Reports on Progress in Physics</i> , <b>2014</b> , 77, 046603	14.4	254
141	Quantifying cell-generated mechanical forces within living embryonic tissues. <i>Nature Methods</i> , <b>2014</b> , 11, 183-9	21.6	257
140	Silencing HoxA1 by intraductal injection of siRNA lipidoid nanoparticles prevents mammary tumor progression in mice. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 217ra2	17.5	55
139	A bioinspired omniphobic surface coating on medical devices prevents thrombosis and biofouling. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 1134-40	44.5	433
138	A microdevice for rapid optical detection of magnetically captured rare blood pathogens. <i>Lab on A Chip</i> , <b>2014</b> , 14, 182-8	7.2	45
137	Microfluidic organs-on-chips. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 760-72	44.5	1875
136	Stationary nanoliter droplet array with a substrate of choice for single adherent/nonadherent cell incubation and analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 11293-8	11.5	52
135	An extracorporeal blood-cleansing device for sepsis therapy. <i>Nature Medicine</i> , <b>2014</b> , 20, 1211-6	50.5	199
134	Mechanotransduction of fluid stresses governs 3D cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 2447-52	11.5	173

133	Developmentally-inspired shrink-wrap polymers for mechanical induction of tissue differentiation. <i>Advanced Materials</i> , <b>2014</b> , 26, 3253-7	24	20
132	Mechanobiology, Tissue Development and Organ Engineering <b>2014</b> , 309-322		2
131	Paxillin controls endothelial cell migration and tumor angiogenesis by altering neuropilin 2 expression. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 1672-83	5.3	25
130	An artificial vasculature for adaptive thermal control of windows. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 117, 429-436	6.4	24
129	Bioinspired Chitinous Material Solutions for Environmental Sustainability and Medicine. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4454-4466	15.6	43
128	Breast cancer normalization induced by embryonic mesenchyme is mediated by extracellular matrix biglycan. <i>Integrative Biology (United Kingdom)</i> , <b>2013</b> , 5, 1045-56	3.7	26
127	Shear-Responsive Platelet Mimetics for Targeted Drug Delivery. <i>Israel Journal of Chemistry</i> , <b>2013</b> , 53, n/a-n/a	3.4	2
126	Platform for high-throughput testing of the effect of soluble compounds on 3D cell cultures. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 8085-94	7.8	103
125	Clear castable polyurethane elastomer for fabrication of microfluidic devices. <i>Lab on A Chip</i> , <b>2013</b> , 13, 3956-64	7.2	85
124	Mechanobiology and developmental control. <i>Annual Review of Cell and Developmental Biology</i> , <b>2013</b> , 29, 27-61	12.6	279
123	Microfabrication of human organs-on-chips. <i>Nature Protocols</i> , <b>2013</b> , 8, 2135-57	18.8	441
122	SLGISWD sequence in the 10FNIII domain initiates fibronectin fibrillogenesis. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 21329-21340	5.4	21
121	Gut-on-a-Chip microenvironment induces human intestinal cells to undergo villus differentiation. <i>Integrative Biology (United Kingdom)</i> , <b>2013</b> , 5, 1130-40	3.7	438
120	Control of lung vascular permeability and endotoxin-induced pulmonary oedema by changes in extracellular matrix mechanics. <i>Nature Communications</i> , <b>2013</b> , 4, 1759	17.4	87
119	Human kidney proximal tubule-on-a-chip for drug transport and nephrotoxicity assessment. <i>Integrative Biology (United Kingdom)</i> , <b>2013</b> , 5, 1119-29	3.7	514
118	Intraductal injection for localized drug delivery to the mouse mammary gland. <i>Journal of Visualized Experiments</i> , <b>2013</b> ,	1.6	22
117	How changes in extracellular matrix mechanics and gene expression variability might combine to drive cancer progression. <i>PLoS ONE</i> , <b>2013</b> , 8, e76122	3.7	28
116	Unexpected strength and toughness in chitosan-fibroin laminates inspired by insect cuticle. <i>Advanced Materials</i> , <b>2012</b> , 24, 480-4	24	74

115	A human disease model of drug toxicity-induced pulmonary edema in a lung-on-a-chip microdevice. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 159ra147	17.5	624
114	A mini-microscope for in situ monitoring of cells. <i>Lab on A Chip</i> , <b>2012</b> , 12, 3976-82	7.2	55
113	Inhibition of mammary tumor growth using lysyl oxidase-targeting nanoparticles to modify extracellular matrix. <i>Nano Letters</i> , <b>2012</b> , 12, 3213-7	11.5	83
112	A combined micromagnetic-microfluidic device for rapid capture and culture of rare circulating tumor cells. <i>Lab on A Chip</i> , <b>2012</b> , 12, 2175-81	7.2	235
111	Human gut-on-a-chip inhabited by microbial flora that experiences intestinal peristalsis-like motions and flow. <i>Lab on A Chip</i> , <b>2012</b> , 12, 2165-74	7.2	991
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