

Thomas Boudou

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.

50 papers	3,222 citations	29 h-index	55 g-index
55 ext. papers	3,557 ext. citations	8.2 avg, IF	5.03 L-index

#	Paper	IF	Citations
50	Multiple functionalities of polyelectrolyte multilayer films: new biomedical applications. <i>Advanced Materials</i> , 2010 , 22, 441-67	24	610
49	A hitchhiker's guide to mechanobiology. <i>Developmental Cell</i> , 2011 , 21, 35-47	10.2	343
48	A microfabricated platform to measure and manipulate the mechanics of engineered cardiac microtissues. <i>Tissue Engineering - Part A</i> , 2012 , 18, 910-9	3.9	289
47	Formation and optogenetic control of engineered 3D skeletal muscle bioactuators. <i>Lab on A Chip</i> , 2012 , 12, 4976-85	7.2	198
46	Polysaccharide-based polyelectrolyte multilayers. <i>Current Opinion in Colloid and Interface Science</i> , 2010 , 15, 417-426	7.6	149
45	Free-standing polyelectrolyte membranes made of chitosan and alginate. <i>Biomacromolecules</i> , 2013 , 14, 1653-60	6.9	117
44	Presentation of BMP-2 from a soft biopolymeric film unveils its activity on cell adhesion and migration. <i>Advanced Materials</i> , 2011 , 23, H111-8	24	102
43	An extended relationship for the characterization of Young's modulus and Poisson's ratio of tunable polyacrylamide gels. <i>Biorheology</i> , 2006 , 43, 721-8	1.7	96
42	Surface functionalization of hyaluronic acid hydrogels by polyelectrolyte multilayer films. <i>Biomaterials</i> , 2011 , 32, 5590-9	15.6	92
41	Internal composition versus the mechanical properties of polyelectrolyte multilayer films: the influence of chemical cross-linking. <i>Langmuir</i> , 2009 , 25, 13809-19	4	75
40	Decoupling cell and matrix mechanics in engineered microtissues using magnetically actuated microcantilevers. <i>Advanced Materials</i> , 2013 , 25, 1699-705	24	74
39	Variation of polyelectrolyte film stiffness by photo-cross-linking: a new way to control cell adhesion. <i>Langmuir</i> , 2009 , 25, 3556-63	4	74
38	An extended modeling of the micropipette aspiration experiment for the characterization of the Young's modulus and Poisson's ratio of adherent thin biological samples: numerical and experimental studies. <i>Journal of Biomechanics</i> , 2006 , 39, 1677-85	2.9	64
37	Micropore-induced capillarity enhances bone distribution in vivo in biphasic calcium phosphate scaffolds. <i>Acta Biomaterialia</i> , 2016 , 44, 144-54	10.8	60
36	Spatio-Temporal Control of LbL Films for Biomedical Applications: From 2D to 3D. <i>Advanced Healthcare Materials</i> , 2015 , 4, 811-30	10.1	57
35	Polysaccharide-blend multilayers containing hyaluronan and heparin as a delivery system for rhBMP-2. <i>Small</i> , 2010 , 6, 651-62	11	55
34	In vivo measurement of human brain elasticity using a light aspiration device. <i>Medical Image Analysis</i> , 2009 , 13, 673-8	15.4	53

33	Gradients of physical and biochemical cues on polyelectrolyte multilayer films generated via microfluidics. <i>Lab on A Chip</i> , 2013 , 13, 1562-70	7.2	52
32	Nonlinear elastic properties of polyacrylamide gels: implications for quantification of cellular forces. <i>Biorheology</i> , 2009 , 46, 191-205	1.7	44
31	Contact-Killing Polyelectrolyte Microcapsules Based on Chitosan Derivatives. <i>Advanced Functional Materials</i> , 2010 , 20, 3303-3312	15.6	44
30	Development and characterization of a 3D multicell microtissue culture model of airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013 , 304, L4-16	5.8	43
29	Polyelectrolyte multilayer nanofilms used as thin materials for cell mechano-sensitivity studies. <i>Macromolecular Bioscience</i> , 2011 , 11, 77-89	5.5	42
28	Controlling the Structural Properties of Single Step, Dip Coated ZnO Seed Layers for Growing Perfectly Aligned Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21694-21703	3.8	38
27	Necking and failure of constrained 3D microtissues induced by cellular tension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20923-8	11.5	38
26	Magneto-active substrates for local mechanical stimulation of living cells. <i>Scientific Reports</i> , 2018 , 8, 1464	9	36
25	Polyelectrolyte multilayer nanoshells with hydrophobic nanodomains for delivery of Paclitaxel. <i>Journal of Controlled Release</i> , 2012 , 159, 403-412	11.7	35
24	Hydrophobic shell loading of biopolyelectrolyte capsules. <i>Advanced Materials</i> , 2011 , 23, H200-4	24	33
23	Substrate Stiffness Combined with Hepatocyte Growth Factor Modulates Endothelial Cell Behavior. <i>Biomacromolecules</i> , 2016 , 17, 2767-76	6.9	31
22	Rigidity-patterned polyelectrolyte films to control myoblast cell adhesion and spatial organization. <i>Advanced Functional Materials</i> , 2013 , 23, 3432-3442	15.6	29
21	Multiscale Porosity Directs Bone Regeneration in Biphasic Calcium Phosphate Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2768-2778	5.5	24
20	Confinement-Induced Transition between Wavelike Collective Cell Migration Modes. <i>Physical Review Letters</i> , 2019 , 122, 168101	7.4	24
19	Microfabrication of a platform to measure and manipulate the mechanics of engineered microtissues. <i>Methods in Cell Biology</i> , 2014 , 121, 191-211	1.8	23
18	Stiffness-dependent cellular internalization of matrix-bound BMP-2 and its relation to Smad and non-Smad signaling. <i>Acta Biomaterialia</i> , 2016 , 46, 55-67	10.8	22
17	Signal mingle: Micropatterns of BMP-2 and fibronectin on soft biopolymeric films regulate myoblast shape and SMAD signaling. <i>Scientific Reports</i> , 2017 , 7, 41479	4.9	21
16	Theoretical analysis of the adaptive contractile behaviour of a single cardiomyocyte cultured on elastic substrates with varying stiffness. <i>Journal of Theoretical Biology</i> , 2008 , 255, 92-105	2.3	21

15	Bio-Functionalization of silicon carbide nanostructures for SiC nanowire-based sensors realization. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 3391-7	1.3	18
14	Alkylamino hydrazide derivatives of hyaluronic acid: synthesis, characterization in semidilute aqueous solutions, and assembly into thin multilayer films. <i>Biomacromolecules</i> , 2009 , 10, 2875-84	6.9	18
13	Construction and myogenic differentiation of 3D myoblast tissues fabricated by fibronectin-gelatin nanofilm coating. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 474, 515-521	3.4	17
12	Quiescence of human muscle stem cells is favored by culture on natural biopolymeric films. <i>Stem Cell Research and Therapy</i> , 2017 , 8, 104	8.3	15
11	Amyloid-like aggregates formation by blood plasma fibronectin. <i>International Journal of Biological Macromolecules</i> , 2017 , 97, 733-743	7.9	11
10	Differences in Morphology and Traction Generation of Cell Lines Representing Different Stages of Osteogenesis. <i>Journal of Biomechanical Engineering</i> , 2015 , 137, 124503	2.1	9
9	Magnetic approaches to study collective three-dimensional cell mechanics in long-term cultures (invited). <i>Journal of Applied Physics</i> , 2014 , 115, 172616	2.5	9
8	Quick and easy microfabrication of T-shaped cantilevers to generate arrays of microtissues. <i>Biomedical Microdevices</i> , 2016 , 18, 43	3.7	6
7	Beyond mice: Emerging and transdisciplinary models for the study of early-onset myopathies. <i>Seminars in Cell and Developmental Biology</i> , 2017 , 64, 171-180	7.5	4
6	Oscillations in collective cell migration 2021 , 157-192		3
5	On the spatiotemporal regulation of cell tensional state. <i>Experimental Cell Research</i> , 2019 , 378, 113-117	4.2	2
4	A Microfabricated Platform to Measure and Manipulate the Mechanics of Engineered Cardiac Microtissues 2012 ,		2
3	Photocrosslinked Polyelectrolyte Films of Controlled Stiffness to Direct Cell Behavior 2015 , 45-64		
2	Matrix-Bound Presentation of Bone Morphogenetic Protein 2 by Multilayer Films: Fundamental Studies and Applications to Orthopedics 2015 , 453-486		
1	Polyelectrolyte Multilayer Films Based on Polysaccharides: From Physical Chemistry to the Control of Cell Differentiation 2012 , 659-690		