

Delphine Dean

List of Publications by Year in descending order

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68
papers

2,002
citations

304368

22
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253896

43
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72
all docs

72
docs citations

72
times ranked

2855
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell damage evaluation of thermal inkjet printed Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , 2010, 106, 963-969.	1.7	307
2	Mechanical Compression of Cartilage Explants Induces Multiple Time-dependent Gene Expression Patterns and Involves Intracellular Calcium and Cyclic AMP. <i>Journal of Biological Chemistry</i> , 2004, 279, 19502-19511.	1.6	212
3	Nanoscale variation in surface charge of synthetic hydroxyapatite detected by chemically and spatially specific high-resolution force spectroscopy. <i>Biomaterials</i> , 2005, 26, 271-283.	5.7	115
4	Direct Measurement of Glycosaminoglycan Intermolecular Interactions via High-Resolution Force Spectroscopy. <i>Macromolecules</i> , 2002, 35, 5601-5615.	2.2	101
5	Green Synthesis of Robust, Biocompatible Silver Nanoparticles Using Garlic Extract. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-12.	1.5	92
6	Compressive nanomechanics of opposing aggrecan macromolecules. <i>Journal of Biomechanics</i> , 2006, 39, 2555-2565.	0.9	85
7	Nanoscale Intermolecular Interactions between Human Serum Albumin and Low Grafting Density Surfaces of Poly(ethylene oxide). <i>Langmuir</i> , 2003, 19, 9357-9372.	1.6	68
8	Lateral Nanomechanics of Cartilage Aggrecan Macromolecules. <i>Biophysical Journal</i> , 2007, 92, 1384-1398.	0.2	68
9	The effects of low-dose radiation on articular cartilage: a review. <i>Journal of Biological Engineering</i> , 2019, 13, 1.	2.0	68
10	Molecular-Level Theoretical Model for Electrostatic Interactions within Polyelectrolyte Brushes: Applications to Charged Glycosaminoglycans. <i>Langmuir</i> , 2003, 19, 5526-5539.	1.6	60
11	Silicon addition to hydroxyapatite increases nanoscale electrostatic, van der Waals, and adhesive interactions. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 352-363.	2.1	58
12	Cell deposition system based on laser guidance. <i>Biotechnology Journal</i> , 2006, 1, 1007-1013.	1.8	54
13	Molecular Adhesion between Cartilage Extracellular Matrix Macromolecules. <i>Biomacromolecules</i> , 2014, 15, 772-780.	2.6	44
14	Fluid flow forces and rhoA regulate fibrous development of the atrioventricular valves. <i>Developmental Biology</i> , 2013, 374, 345-356.	0.9	43
15	Cartilage Aggrecan Can Undergo Self-Adhesion. <i>Biophysical Journal</i> , 2008, 95, 4862-4870.	0.2	42
16	Nanomechanics of opposing glycosaminoglycan macromolecules. <i>Journal of Biomechanics</i> , 2005, 38, 1789-1797.	0.9	40
17	Alteration of dentin enamel mechanical properties due to dental whitening treatments. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2010, 3, 339-346.	1.5	40
18	Surveillance-based informative testing for detection and containment of SARS-CoV-2 outbreaks on a public university campus: an observational and modelling study. <i>The Lancet Child and Adolescent Health</i> , 2021, 5, 428-436.	2.7	40

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19	Nanoscale Conformation and Compressibility of Cartilage Aggrecan Using Microcontact Printing and Atomic Force Microscopy. <i>Macromolecules</i> , 2005, 38, 4047-4049.	2.2	39
20	Nanoscale Intermolecular Interactions between Human Serum Albumin and Alkanethiol Self-Assembled Monolayers. <i>Langmuir</i> , 2003, 19, 6202-6218.	1.6	37
21	Nanoscale Shear Deformation Mechanisms of Opposing Cartilage Aggrecan Macromolecules. <i>Biophysical Journal</i> , 2007, 93, L23-L25.	0.2	29
22	Role of Cytoskeletal Components in Stress-Relaxation Behavior of Adherent Vascular Smooth Muscle Cells. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 041001.	0.6	22
23	SARS-CoV-2 variants of concern Alpha and Delta show increased viral load in saliva. <i>PLoS ONE</i> , 2022, 17, e0267750.	1.1	22
24	Effects of low dose X-ray irradiation on porcine articular cartilage explants. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1780-1785.	1.2	19
25	Effects of substrate stiffness on dental pulp stromal cells in culture. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1789-1797.	2.1	18
26	The effect of well-characterized, very low-dose x-ray radiation on fibroblasts. <i>PLoS ONE</i> , 2018, 13, e0190330.	1.1	18
27	Effectiveness and protection duration of Covid-19 vaccines and previous infection against any SARS-CoV-2 infection in young adults. <i>Nature Communications</i> , 2022, 13, .	5.8	18
28	Increased extracellular matrix density decreases MCF10A breast cell acinus formation in 3D culture conditions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 71-80.	1.3	17
29	Effects of serum deprivation on the mechanical properties of adherent vascular smooth muscle cells. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2008, 222, 761-772.	1.0	16
30	Evaluating adhesion and alignment of dental pulp stem cells to a spider silk substrate for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2017, 81, 104-112.	3.8	16
31	In vitro studies of heparin-coated magnetic nanoparticles for use in the treatment of neointimal hyperplasia. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1191-1200.	1.7	16
32	Frictional Behavior of Individual Vascular Smooth Muscle Cells Assessed By Lateral Force Microscopy. <i>Materials</i> , 2010, 3, 4668-4680.	1.3	12
33	Creating Transient Cell Membrane Pores Using a Standard Inkjet Printer. <i>Journal of Visualized Experiments</i> , 2012, , .	0.2	12
34	Comparative limb bone loading in the humerus and femur of the tiger salamander <i>Ambystoma tigrinum</i> : testing the "mixed-chain" hypothesis for skeletal safety factors. <i>Journal of Experimental Biology</i> , 2015, 219, 341-53.	0.8	12
35	A Low-Cost Inkjet-Printed Glucose Test Strip System for Resource-Poor Settings. <i>Journal of Diabetes Science and Technology</i> , 2015, 9, 1275-1281.	1.3	11
36	Development of phantom material that resembles compression properties of human brain tissue for training models. <i>Materialia</i> , 2019, 8, 100438.	1.3	10

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37	Preparation of End-Grafted Polyelectrolyte Brushes on Nanoscale Probe Tips Using an Electric Field. <i>Macromolecules</i> , 2004, 37, 1156-1158.	2.2	9
38	A linear programming approach to reconstructing subcellular structures from confocal images for automated generation of representative 3D cellular models. <i>Medical Image Analysis</i> , 2013, 17, 337-347.	7.0	9
39	Effects of blocking integrin α 1 and N-cadherin cellular interactions on mechanical properties of vascular smooth muscle cells. <i>Journal of Biomechanics</i> , 2019, 82, 337-345.	0.9	9
40	Effect of matrix on cardiomyocyte viscoelastic properties in 2D culture. <i>MCB Molecular and Cellular Biomechanics</i> , 2012, 9, 227-49.	0.3	9
41	Efficient SARS-CoV-2 Quantitative Reverse Transcriptase PCR Saliva Diagnostic Strategy utilizing Open-Source Pipetting Robots. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	9
42	Variation of Surface Charge along the Surface of Wool Fibers Assessed by High-Resolution Force Spectroscopy. <i>Journal of Engineered Fibers and Fabrics</i> , 2011, 6, 155892501100600.	0.5	6
43	A Leishmania secretion system for the expression of major amputate spidroin mimics. <i>PLoS ONE</i> , 2017, 12, e0178201.	1.1	6
44	Implementation of a Rural Community Diagnostic Testing Strategy for SARS-CoV-2 in Upstate South Carolina. <i>Frontiers in Public Health</i> , 2022, 10, 858421.	1.3	6
45	A Computational Approach to Understand Phenotypic Structure and Constitutive Mechanics Relationships of Single Cells. <i>Annals of Biomedical Engineering</i> , 2013, 41, 630-644.	1.3	5
46	Mechanical properties of stem cells from different sources during vascular smooth muscle cell differentiation. <i>MCB Molecular and Cellular Biomechanics</i> , 2017, 14, 153-169.	0.3	5
47	Variation of Surface Charge along the Surface of Wool Fibers Assessed by High-Resolution Force Spectroscopy. <i>Journal of Engineered Fibers and Fabrics</i> , 2011, 6, 61-66.	0.5	5
48	Development of a Biosensor Based on Angiotensinâ€œConverting Enzyme II for Severe Acute Respiratory Syndrome Coronavirus 2 Detection in Human Saliva. <i>Frontiers in Sensors</i> , 0, 3, .	1.7	5
49	Predicting COVID-19 Infected Individuals in a Defined Population from Wastewater RNA Data. <i>ACS ES&T Water</i> , 2022, 2, 2225-2232.	2.3	5
50	Development of a Global Design Education Experience in Bioengineering Through International Partnerships. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	4
51	Identifying SARS-CoV-2 Variants of Concern through Saliva-Based RT-qPCR by Targeting Recurrent Mutation Sites. <i>Microbiology Spectrum</i> , 2022, 10, e0079722.	1.2	3
52	Novel Central Venous Catheterization Simulation for Medical Training. , 2013, , .		2
53	Enzyme-etching technique to fabricate micropatterns of aligned collagen fibrils. <i>Biotechnology Letters</i> , 2014, 36, 1245-1252.	1.1	2
54	The Influence of Cellular Debris on Cell Guidance and Implications for Incorporating Silicon Based Micropatterns. <i>MRS Advances</i> , 2017, 2, 3537-3546.	0.5	2

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55	X-ray cabinet to deliver highly characterized low-dose soft x-ray radiation to biological samples. Review of Scientific Instruments, 2020, 91, 034104.	0.6	2
56	Changes in ionizing radiation dose rate affect cell cycle progression in adipose derived stem cells. PLoS ONE, 2021, 16, e0250160.	1.1	2
57	Surface Characterization of As-Spun and Supercontracted <i>Nephila clavipes</i> Dragline Silk. Journal of Surface Engineered Materials and Advanced Technology, 2013, 03, 18-26.	0.2	2
58	Development of an x-ray irradiation port for biomedical applications at the CUEBIT facility. Journal of Physics: Conference Series, 2015, 583, 012048.	0.3	1
59	A Customizable Chamber for Measuring Cell Migration. Journal of Visualized Experiments, 2017, , .	0.2	1
60	Application of Gold Nanorods in Cardiovascular Science. Nanostructure Science and Technology, 2017, , 427-442.	0.1	1
61	Abstract 2473: Extracellular matrix density and acinus formation in breast cancer. , 2012, , .		1
62	Mechanical Properties of TMJ Disc Cells Measured by Atomic Force Microscopy. , 2008, , .		0
63	Assessment and characterization of in situ rotator cuff biomechanics. , 2013, , .		0
64	Influence of Inclusion of Apatite-based Microparticles on Osteogenic Cell Pheonotype and Behavior. MRS Advances, 2018, 3, 2409-2420.	0.5	0
65	Designing a Respiratory-Rate Monitor for Developing Countries. IEEE Potentials, 2020, 39, 15-21.	0.2	0
66	Ultrasound Elastography Probe Design for Diagnosing Rotator Cuff Pathology. IEEE Potentials, 2020, 39, 22-27.	0.2	0
67	Mechanobiology of the cardiovascular system. Progress in Biophysics and Molecular Biology, 2021, 159, 1-2.	1.4	0
68	Editorial: Seventieth birthday Celebrations. Progress in Biophysics and Molecular Biology, 2021, 161, 1-2.	1.4	0