

Delphine Dean

List of Publications by Year in descending order

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68
papers

2,002
citations

304743
22
h-index

254184
43
g-index

72
all docs

72
docs citations

72
times ranked

2855
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Efficient SARS-CoV-2 Quantitative Reverse Transcriptase PCR Saliva Diagnostic Strategy utilizing Open-Source Pipetting Robots. Journal of Visualized Experiments, 2022, , . | 0.3 | 9 |
| 2 | Implementation of a Rural Community Diagnostic Testing Strategy for SARS-CoV-2 in Upstate South Carolina. Frontiers in Public Health, 2022, 10, 858421. | 2.7 | 6 |
| 3 | Identifying SARS-CoV-2 Variants of Concern through Saliva-Based RT-qPCR by Targeting Recurrent Mutation Sites. Microbiology Spectrum, 2022, 10, e0079722. | 3.0 | 3 |
| 4 | SARS-CoV-2 variants of concern Alpha and Delta show increased viral load in saliva. PLoS ONE, 2022, 17, e0267750. | 2.5 | 22 |
| 5 | Predicting COVID-19 Infected Individuals in a Defined Population from Wastewater RNA Data. ACS ES&T Water, 2022, 2, 2225-2232. | 4.6 | 5 |
| 6 | Effectiveness and protection duration of Covid-19 vaccines and previous infection against any SARS-CoV-2 infection in young adults. Nature Communications, 2022, 13, . | 12.8 | 18 |
| 7 | Mechanobiology of the cardiovascular system. Progress in Biophysics and Molecular Biology, 2021, 159, 1-2. | 2.9 | 0 |
| 8 | Changes in ionizing radiation dose rate affect cell cycle progression in adipose derived stem cells. PLoS ONE, 2021, 16, e0250160. | 2.5 | 2 |
| 9 | Editorial: Seventieth birthday Celebrations. Progress in Biophysics and Molecular Biology, 2021, 161, 1-2. | 2.9 | 0 |
| 10 | Surveillance-based informative testing for detection and containment of SARS-CoV-2 outbreaks on a public university campus: an observational and modelling study. The Lancet Child and Adolescent Health, 2021, 5, 428-436. | 5.6 | 40 |
| 11 | X-ray cabinet to deliver highly characterized low-dose soft x-ray radiation to biological samples. Review of Scientific Instruments, 2020, 91, 034104. | 1.3 | 2 |
| 12 | Designing a Respiratory-Rate Monitor for Developing Countries. IEEE Potentials, 2020, 39, 15-21. | 0.3 | 0 |
| 13 | Ultrasound Elastography Probe Design for Diagnosing Rotator Cuff Pathology. IEEE Potentials, 2020, 39, 22-27. | 0.3 | 0 |
| 14 | Development of phantom material that resembles compression properties of human brain tissue for training models. Materialia, 2019, 8, 100438. | 2.7 | 10 |
| 15 | The effects of low-dose radiation on articular cartilage: a review. Journal of Biological Engineering, 2019, 13, 1. | 4.7 | 68 |
| 16 | Effects of blocking integrin $\beta 1$ and N-cadherin cellular interactions on mechanical properties of vascular smooth muscle cells. Journal of Biomechanics, 2019, 82, 337-345. | 2.1 | 9 |
| 17 | Development of a Global Design Education Experience in Bioengineering Through International Partnerships. Journal of Biomechanical Engineering, 2019, 141, . | 1.3 | 4 |
| 18 | Effects of substrate stiffness on dental pulp stromal cells in culture. Journal of Biomedical Materials Research - Part A, 2018, 106, 1789-1797. | 4.0 | 18 |

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|----|--|------|-----------|
| 19 | 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. | 3.3 | 16 |
| 20 | Influence of Inclusion of Apatite-based Microparticles on Osteogenic Cell Phenotype and Behavior. <i>MRS Advances</i> , 2018, 3, 2409-2420. | 0.9 | 0 |
| 21 | The effect of well-characterized, very low-dose x-ray radiation on fibroblasts. <i>PLoS ONE</i> , 2018, 13, e0190330. | 2.5 | 18 |
| 22 | 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. | 7.3 | 16 |
| 23 | A Customizable Chamber for Measuring Cell Migration. <i>Journal of Visualized Experiments</i> , 2017, , . | 0.3 | 1 |
| 24 | The Influence of Cellular Debris on Cell Guidance and Implications for Incorporating Silicon Based Micropatterns. <i>MRS Advances</i> , 2017, 2, 3537-3546. | 0.9 | 2 |
| 25 | Application of Gold Nanorods in Cardiovascular Science. <i>Nanostructure Science and Technology</i> , 2017, , 427-442. | 0.1 | 1 |
| 26 | A Leishmania secretion system for the expression of major amputate spidroin mimics. <i>PLoS ONE</i> , 2017, 12, e0178201. | 2.5 | 6 |
| 27 | 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. | 0.7 | 5 |
| 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. | 2.7 | 17 |
| 29 | Development of an x-ray irradiation port for biomedical applications at the CUEBIT facility. <i>Journal of Physics: Conference Series</i> , 2015, 583, 012048. | 0.4 | 1 |
| 30 | 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. | 1.7 | 12 |
| 31 | 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. | 2.2 | 11 |
| 32 | Enzyme-etching technique to fabricate micropatterns of aligned collagen fibrils. <i>Biotechnology Letters</i> , 2014, 36, 1245-1252. | 2.2 | 2 |
| 33 | Molecular Adhesion between Cartilage Extracellular Matrix Macromolecules. <i>Biomacromolecules</i> , 2014, 15, 772-780. | 5.4 | 44 |
| 34 | Effects of low dose X-ray irradiation on porcine articular cartilage explants. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1780-1785. | 2.3 | 19 |
| 35 | Novel Central Venous Catheterization Simulation for Medical Training. , 2013, , . | | 2 |
| 36 | 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. | 11.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Fluid flow forces and rhoA regulate fibrous development of the atrioventricular valves. Developmental Biology, 2013, 374, 345-356. | 2.0 | 43 |
| 38 | A Computational Approach to Understand Phenotypic Structure and Constitutive Mechanics Relationships of Single Cells. Annals of Biomedical Engineering, 2013, 41, 630-644. | 2.5 | 5 |
| 39 | Assessment and characterization of in situ rotator cuff biomechanics. , 2013, , . | | 0 |
| 40 | 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 |
| 41 | Creating Transient Cell Membrane Pores Using a Standard Inkjet Printer. Journal of Visualized Experiments, 2012, , . | 0.3 | 12 |
| 42 | Green Synthesis of Robust, Biocompatible Silver Nanoparticles Using Garlic Extract. Journal of Nanomaterials, 2012, 2012, 1-12. | 2.7 | 92 |
| 43 | Abstract 2473: Extracellular matrix density and acinus formation in breast cancer. , 2012, , . | | 1 |
| 44 | Effect of matrix on cardiomyocyte viscoelastic properties in 2D culture. MCB Molecular and Cellular Biomechanics, 2012, 9, 227-49. | 0.7 | 9 |
| 45 | Variation of Surface Charge along the Surface of Wool Fibers Assessed by High-Resolution Force Spectroscopy. Journal of Engineered Fibers and Fabrics, 2011, 6, 155892501100600. | 1.0 | 6 |
| 46 | Variation of Surface Charge along the Surface of Wool Fibers Assessed by High-Resolution Force Spectroscopy. Journal of Engineered Fibers and Fabrics, 2011, 6, 61-66. | 1.0 | 5 |
| 47 | Cell damage evaluation of thermal inkjet printed Chinese hamster ovary cells. Biotechnology and Bioengineering, 2010, 106, 963-969. | 3.3 | 307 |
| 48 | Alteration of dentinâ€enamel mechanical properties due to dental whitening treatments. Journal of the Mechanical Behavior of Biomedical Materials, 2010, 3, 339-346. | 3.1 | 40 |
| 49 | Frictional Behavior of Individual Vascular Smooth Muscle Cells Assessed By Lateral Force Microscopy. Materials, 2010, 3, 4668-4680. | 2.9 | 12 |
| 50 | Role of Cytoskeletal Components in Stress-Relaxation Behavior of Adherent Vascular Smooth Muscle Cells. Journal of Biomechanical Engineering, 2009, 131, 041001. | 1.3 | 22 |
| 51 | Cartilage Aggrecan Can Undergo Self-Adhesion. Biophysical Journal, 2008, 95, 4862-4870. | 0.5 | 42 |
| 52 | Effects of serum deprivation on the mechanical properties of adherent vascular smooth muscle cells. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2008, 222, 761-772. | 1.8 | 16 |
| 53 | Mechanical Properties of TMJ Disc Cells Measured by Atomic Force Microscopy. , 2008, , . | | 0 |
| 54 | Lateral Nanomechanics of Cartilage Aggrecan Macromolecules. Biophysical Journal, 2007, 92, 1384-1398. | 0.5 | 68 |

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|----|---|------|-----------|
| 55 | Nanoscale Shear Deformation Mechanisms of Opposing Cartilage Aggrecan Macromolecules. Biophysical Journal, 2007, 93, L23-L25. | 0.5 | 29 |
| 56 | Compressive nanomechanics of opposing aggrecan macromolecules. Journal of Biomechanics, 2006, 39, 2555-2565. | 2.1 | 85 |
| 57 | Cell deposition system based on laser guidance. Biotechnology Journal, 2006, 1, 1007-1013. | 3.5 | 54 |
| 58 | Silicon addition to hydroxyapatite increases nanoscale electrostatic, van der Waals, and adhesive interactions. Journal of Biomedical Materials Research - Part A, 2006, 78A, 352-363. | 4.0 | 58 |
| 59 | Nanoscale variation in surface charge of synthetic hydroxyapatite detected by chemically and spatially specific high-resolution force spectroscopy. Biomaterials, 2005, 26, 271-283. | 11.4 | 115 |
| 60 | Nanomechanics of opposing glycosaminoglycan macromolecules. Journal of Biomechanics, 2005, 38, 1789-1797. | 2.1 | 40 |
| 61 | Nanoscale Conformation and Compressibility of Cartilage Aggrecan Using Microcontact Printing and Atomic Force Microscopy. Macromolecules, 2005, 38, 4047-4049. | 4.8 | 39 |
| 62 | Mechanical Compression of Cartilage Explants Induces Multiple Time-dependent Gene Expression Patterns and Involves Intracellular Calcium and Cyclic AMP. Journal of Biological Chemistry, 2004, 279, 19502-19511. | 3.4 | 212 |
| 63 | Preparation of End-Grafted Polyelectrolyte Brushes on Nanoscale Probe Tips Using an Electric Field. Macromolecules, 2004, 37, 1156-1158. | 4.8 | 9 |
| 64 | Nanoscale Intermolecular Interactions between Human Serum Albumin and Low Grafting Density Surfaces of Poly(ethylene oxide). Langmuir, 2003, 19, 9357-9372. | 3.5 | 68 |
| 65 | Nanoscale Intermolecular Interactions between Human Serum Albumin and Alkanethiol Self-Assembled Monolayers. Langmuir, 2003, 19, 6202-6218. | 3.5 | 37 |
| 66 | Molecular-Level Theoretical Model for Electrostatic Interactions within Polyelectrolyte Brushes: Applications to Charged Glycosaminoglycans. Langmuir, 2003, 19, 5526-5539. | 3.5 | 60 |
| 67 | Direct Measurement of Glycosaminoglycan Intermolecular Interactions via High-Resolution Force Spectroscopy. Macromolecules, 2002, 35, 5601-5615. | 4.8 | 101 |
| 68 | Development of a Biosensor Based on Angiotensin-Converting Enzyme II for Severe Acute Respiratory Syndrome Coronavirus 2 Detection in Human Saliva. Frontiers in Sensors, 0, 3, . | 3.3 | 5 |