

Marco Rasponi

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.

67

papers

1,913

citations

20

h-index

42

g-index

82

ext. papers

2,343

ext. citations

5.3

avg, IF

4.76

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 67 | Organ-on-Chips for Studying Tissue Barriers: Standard Techniques and a Novel Method for Including Porous Membranes Within Microfluidic Devices. <i>Methods in Molecular Biology</i> , 2022 , 2373, 21-38 | 1.4 | 1 |
| 66 | Mechanical Induction of Osteoarthritis Traits in a Cartilage-on-a-Chip Model. <i>Methods in Molecular Biology</i> , 2022 , 2373, 231-251 | 1.4 | |
| 65 | Photo and Soft Lithography for Organ-on-Chip Applications. <i>Methods in Molecular Biology</i> , 2022 , 2373, 1-19 | 1.4 | 3 |
| 64 | Electromechanical Stimulation of 3D Cardiac Microtissues in a Heart-on-Chip Model. <i>Methods in Molecular Biology</i> , 2022 , 2373, 133-157 | 1.4 | 1 |
| 63 | Physiologic flow-conditioning limits vascular dysfunction in engineered human capillaries. <i>Biomaterials</i> , 2021 , 280, 121248 | 15.6 | 4 |
| 62 | Micro-electrode channel guide (µECG) technology: an online method for continuous electrical recording in a human beating heart-on-chip. <i>Biofabrication</i> , 2021 , | 10.5 | 8 |
| 61 | Experimental liver models: From cell culture techniques to microfluidic organs-on-chip. <i>Liver International</i> , 2021 , 41, 1744-1761 | 7.9 | 4 |
| 60 | Assessing the influence of perfusion on cardiac microtissue maturation: A heart-on-chip platform embedding peristaltic pump capabilities. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 3128-3137 | 4.9 | 5 |
| 59 | Recapitulating monocyte extravasation to the synovium in an organotypic microfluidic model of the articular joint. <i>Biofabrication</i> , 2021 , 13, | 10.5 | 11 |
| 58 | Liver-Heart on chip models for drug safety. <i>APL Bioengineering</i> , 2021 , 5, 031505 | 6.6 | 6 |
| 57 | Modeling In Vitro Osteoarthritis Phenotypes in a Vascularized Bone Model Based on a Bone-Marrow Derived Mesenchymal Cell Line and Endothelial Cells. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 2 |
| 56 | Current strategies of mechanical stimulation for maturation of cardiac microtissues. <i>Biophysical Reviews</i> , 2021 , 13, 717-727 | 3.7 | 4 |
| 55 | A dynamic microscale mid-throughput fibrosis model to investigate the effects of different ratios of cardiomyocytes and fibroblasts. <i>Lab on A Chip</i> , 2021 , 21, 4177-4195 | 7.2 | 5 |
| 54 | Microfluidic Biofabrication of 3D Multicellular Spheroids by Modulation of Non-geometrical Parameters. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 366 | 5.8 | 1 |
| 53 | The MICELI (MICrofluidic, ELectrical, Impedance): Prototyping a Point-of-Care Impedance Platelet Aggregometer. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 3 |
| 52 | Integrating Biosensors in Organs-on-Chip Devices: A Perspective on Current Strategies to Monitor Microphysiological Systems. <i>Biosensors</i> , 2020 , 10, | 5.9 | 32 |
| 51 | Frataxin gene editing rescues FriedreichWataxia pathology in dorsal root ganglia organoid-derived sensory neurons. <i>Nature Communications</i> , 2020 , 11, 4178 | 17.4 | 13 |

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| 50 | Hyperphysiological compression of articular cartilage induces an osteoarthritic phenotype in a cartilage-on-a-chip model. <i>Nature Biomedical Engineering</i> , 2019 , 3, 545-557 | 19 | 80 |
| 49 | Lymphatic endothelium contributes to colorectal cancer growth via the soluble matrisome component GDF11. <i>International Journal of Cancer</i> , 2019 , 145, 1913-1920 | 7.5 | 11 |
| 48 | Hyperexcitability in Cultured Cortical Neuron Networks from the G93A-SOD1 Amyotrophic Lateral Sclerosis Model Mouse and its Molecular Correlates. <i>Neuroscience</i> , 2019 , 416, 88-99 | 3.9 | 10 |
| 47 | Reconstitution of the Human Nigro-striatal Pathway on-a-Chip Reveals OPA1-Dependent Mitochondrial Defects and Loss of Dopaminergic Synapses. <i>Cell Reports</i> , 2019 , 29, 4646-4656.e4 | 10.6 | 23 |
| 46 | A Simple Vacuum-Based Microfluidic Technique to Establish High-Throughput Organs-On-Chip and 3D Cell Cultures at the Microscale. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800319 | 6.8 | 12 |
| 45 | Development of an organotypic microfluidic model to reproduce monocyte extravasation process in the osteoarthritic joint. <i>Osteoarthritis and Cartilage</i> , 2018 , 26, S122 | 6.2 | 8 |
| 44 | Developmentally inspired programming of adult human mesenchymal stromal cells toward stable chondrogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4625-4630 | 11.5 | 36 |
| 43 | Design and validation of a microfluidic device for blood-brain barrier monitoring and transport studies. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 044001 | 2 | 9 |
| 42 | A three-dimensional in vitro dynamic micro-tissue model of cardiac scar formation. <i>Integrative Biology (United Kingdom)</i> , 2018 , 10, 174-183 | 3.7 | 19 |
| 41 | Generation of functional cardiac microtissues in a beating heart-on-a-chip. <i>Methods in Cell Biology</i> , 2018 , 146, 69-84 | 1.8 | 13 |
| 40 | Development of a microfluidic platform for high-throughput screening of non-viral gene delivery vectors. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 775-784 | 4.9 | 9 |
| 39 | Enhancing all-in-one bioreactors by combining interstitial perfusion, electrical stimulation, on-line monitoring and testing within a single chamber for cardiac constructs. <i>Scientific Reports</i> , 2018 , 8, 16944 | 4.9 | 21 |
| 38 | A microscale biomimetic platform for generation and electro-mechanical stimulation of 3D cardiac microtissues. <i>APL Bioengineering</i> , 2018 , 2, 046102 | 6.6 | 20 |
| 37 | Microfluidic flow-based platforms for induction and analysis of dynamic shear-mediated platelet activation-Initial validation versus the standardized hemodynamic shearing device. <i>Biomicrofluidics</i> , 2018 , 12, 042208 | 3.2 | 5 |
| 36 | Generating Multicompartmental 3D Biological Constructs Interfaced through Sequential Injections in Microfluidic Devices. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601170 | 10.1 | 17 |
| 35 | High-Throughput Microfluidic Platform for 3D Cultures of Mesenchymal Stem Cells. <i>Methods in Molecular Biology</i> , 2017 , 1612, 303-323 | 1.4 | 8 |
| 34 | Microfluidic platforms for the evaluation of anti-platelet agent efficacy under hyper-shear conditions associated with ventricular assist devices. <i>Medical Engineering and Physics</i> , 2017 , 48, 31-38 | 2.4 | 9 |
| 33 | Human cardiac fibroblasts adaptive responses to controlled combined mechanical strain and oxygen changes in vitro. <i>ELife</i> , 2017 , 6, | 8.9 | 32 |

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| 32 | Microfluidic approaches for the assessment of blood cell trauma: a focus on thrombotic risk in mechanical circulatory support devices. <i>International Journal of Artificial Organs</i> , 2016 , 39, 184-93 | 1.9 | 13 |
| 31 | Design of a microfluidic strategy for trapping and screening single cells. <i>Medical Engineering and Physics</i> , 2016 , 38, 33-40 | 2.4 | 6 |
| 30 | Stoichiometric control of live cell mixing to enable fluidically-encoded co-culture models in perfused microbio-reactor arrays. <i>Integrative Biology (United Kingdom)</i> , 2016 , 8, 194-204 | 3.7 | 8 |
| 29 | Gelatin hydrogels via thiol-ene chemistry. <i>Monatshefte Für Chemie</i> , 2016 , 147, 587-592 | 1.4 | 18 |
| 28 | Beating heart on a chip: a novel microfluidic platform to generate functional 3D cardiac microtissues. <i>Lab on A Chip</i> , 2016 , 16, 599-610 | 7.2 | 227 |
| 27 | Young at Heart: Pioneering Approaches to Model Nonischaemic Cardiomyopathy with Induced Pluripotent Stem Cells. <i>Stem Cells International</i> , 2016 , 2016, 4287158 | 5 | 4 |
| 26 | Microfabricated Physiological Models for In Vitro Drug Screening Applications. <i>Micromachines</i> , 2016 , 7, | 3.3 | 16 |
| 25 | Cardiac Meets Skeletal: What's New in Microfluidic Models for Muscle Tissue Engineering. <i>Molecules</i> , 2016 , 21, | 4.8 | 29 |
| 24 | On-chip assessment of human primary cardiac fibroblasts proliferative responses to uniaxial cyclic mechanical strain. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 859-69 | 4.9 | 38 |
| 23 | Bioprinting 3D microfibrillar scaffolds for engineering endothelialized myocardium and heart-on-a-chip. <i>Biomaterials</i> , 2016 , 110, 45-59 | 15.6 | 495 |
| 22 | VA-086 methacrylate gelatine photopolymerizable hydrogels: A parametric study for highly biocompatible 3D cell embedding. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2109-17 | 5.4 | 76 |
| 21 | High-throughput microfluidic platform for adherent single cells non-viral gene delivery. <i>RSC Advances</i> , 2015 , 5, 5087-5095 | 3.7 | 11 |
| 20 | Controlled electromechanical cell stimulation on-a-chip. <i>Scientific Reports</i> , 2015 , 5, 11800 | 4.9 | 75 |
| 19 | Microfluidic emulation of mechanical circulatory support device shear-mediated platelet activation. <i>Biomedical Microdevices</i> , 2015 , 17, 117 | 3.7 | 20 |
| 18 | Short-term effects of microstructured surfaces: role in cell differentiation toward a contractile phenotype. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2015 , 13, e92-9 | 1.8 | 1 |
| 17 | High-Throughput Microfluidic Platform for 3D Cultures of Mesenchymal Stem Cells, Towards Engineering Developmental Processes. <i>Scientific Reports</i> , 2015 , 5, 10288 | 4.9 | 64 |
| 16 | Lab-on-Chip for testing myelotoxic effect of drugs and chemicals. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 935-940 | 2.8 | 5 |
| 15 | Fabrication of multi-well chips for spheroid cultures and implantable constructs through rapid prototyping techniques. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1457-71 | 4.9 | 15 |

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| 14 | Selective Biochemical Manipulation of Twin Neuronal Networks on Microelectrode Arrays. <i>Neuromethods</i> , 2015 , 217-230 | 0.4 | |
| 13 | Fabrication of 3D cell-laden hydrogel microstructures through photo-mold patterning. <i>Biofabrication</i> , 2013 , 5, 035002 | 10.5 | 49 |
| 12 | Validation of long-term primary neuronal cultures and network activity through the integration of reversibly bonded microbioreactors and MEA substrates. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 166-75 | 4.9 | 20 |
| 11 | Multi-gradient hydrogels produced layer by layer with capillary flow and crosslinking in open microchannels. <i>Lab on A Chip</i> , 2012 , 12, 659-61 | 7.2 | 37 |
| 10 | Numerical and experimental characterization of a novel modular passive micromixer. <i>Biomedical Microdevices</i> , 2012 , 14, 849-62 | 3.7 | 20 |
| 9 | A microfluidic platform for controlled biochemical stimulation of twin neuronal networks. <i>Biomicrofluidics</i> , 2012 , 6, 24106-2410610 | 3.2 | 31 |
| 8 | Microfabricated polyester conical microwells for cell culture applications. <i>Lab on A Chip</i> , 2011 , 11, 2325-322 | 3.2 | 52 |
| 7 | Reliable magnetic reversible assembly of complex microfluidic devices: fabrication, characterization, and biological validation. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 1097-1107 | 2.8 | 21 |
| 6 | How to embed three-dimensional flexible electrodes in microfluidic devices for cell culture applications. <i>Lab on A Chip</i> , 2011 , 11, 1593-5 | 7.2 | 43 |
| 5 | Anisotropic material synthesis by capillary flow in a fluid stripe. <i>Biomaterials</i> , 2011 , 32, 6493-504 | 15.6 | 32 |
| 4 | Realization and efficiency evaluation of a micro-photocatalytic cell prototype for real-time blood oxygenation. <i>Medical Engineering and Physics</i> , 2011 , 33, 887-92 | 2.4 | 7 |
| 3 | Study of Cellular Adhesion by Means of Micropillar Surface Topologies. <i>Advanced Materials Research</i> , 2011 , 409, 105-110 | 0.5 | 1 |
| 2 | Computational and functional evaluation of a microfluidic blood flow device. <i>ASAIO Journal</i> , 2007 , 53, 447-55 | 3.6 | 15 |
| 1 | A RELIABLE METHOD FOR PROTOTYPING FLEXIBLE PHYSIOLOGIC-LIKE BEHAVING LEFT VENTRICLES FOR STUDYING MITRAL VALVE SURGICAL CORRECTIONS. <i>Journal of Mechanics in Medicine and Biology</i> , 2006 , 06, 101-107 | 0.7 | 1 |