Josep Samitier

List of Publications by Year in descending order

76 papers	1,851 citations	279798 23 h-index	289244 40 g-index
85 all docs	85 docs citations	85 times ranked	3143 citing authors

#	Article	IF	Citations
1	Blood-Based Cancer Biomarkers in Liquid Biopsy: A Promising Non-Invasive Alternative to Tissue Biopsy. International Journal of Molecular Sciences, 2018, 19, 2877.	4.1	275
2	Composite Biomaterials as Longâ€Lasting Scaffolds for 3D Bioprinting of Highly Aligned Muscle Tissue. Macromolecular Bioscience, 2018, 18, e1800167.	4.1	104
3	Integrated electrochemical DNA biosensors for labâ€onâ€aâ€chip devices. Electrophoresis, 2009, 30, 3386-3397.	2.4	93
4	Low cost micro-Coulter counter with hydrodynamic focusing. Microfluidics and Nanofluidics, 2007, 3, 171-176.	2.2	74
5	Tumour-vessel-on-a-chip models for drug delivery. Lab on A Chip, 2017, 17, 3760-3771.	6.0	68
6	Power-Conditioning Circuitry for a Self-Powered System Based on Micro PZT Generators in a 0.13-$muhbox{m}$ Low-Voltage Low-Power Technology. IEEE Transactions on Industrial Electronics, 2008, 55, 3249-3257.	7.9	62
7	Involvement of Cellular Prion Protein in Î±-Synuclein Transport in Neurons. Molecular Neurobiology, 2018, 55, 1847-1860.	4.0	55
8	Directed Flow of Micromotors through Alignment Interactions with Micropatterned Ratchets. ACS Nano, 2018, 12, 7282-7291.	14.6	55
9	Label-free electrochemical DNA sensor using â€œclickâ€functionalized PEDOT electrodes. Biosensors and Bioelectronics, 2015, 74, 751-756.	10.1	52
10	Engineered Macroscale Cardiac Constructs Elicit Human Myocardial Tissue-like Functionality. Stem Cell Reports, 2019, 13, 207-220.	4.8	47
11	Micro-needle implantable electrochemical oxygen sensor: ex-vivo and in-vivo studies. Biosensors and Bioelectronics, 2020, 153, 112028.	10.1	43
12	Commercialized diagnostic technologies to combat SARS-CoV2: Advantages and disadvantages. Talanta, 2021, 225, 121898.	5.5	43
13	Sensor-Integrated Microfluidic Approaches for Liquid Biopsies Applications in Early Detection of Cancer. Sensors, 2020, 20, 1317.	3.8	40
14	Combined Dielectrophoresis and Impedance Systems for Bacteria Analysis in Microfluidic On-Chip Platforms. Sensors, 2016, 16, 1514.	3.8	38
15	Cells as Active Particles in Asymmetric Potentials: Motility under External Gradients. Biophysical Journal, 2014, 107, 1513-1522.	0.5	36
16	A three-dimensional bioprinted model to evaluate the effect of stiffness on neuroblastoma cell cluster dynamics and behavior. Scientific Reports, 2020, 10, 6370.	3.3	36
17	Combining microfluidics with machine learning algorithms for RBC classification in rare hereditary hemolytic anemia. Scientific Reports, 2021, 11, 13553.	3.3	33
18	Integrated DNA and RNA extraction and purification on an automated microfluidic cassette from bacterial and viral pathogens causing community-acquired lower respiratory tract infections. Lab on A Chip, 2014, 14, 1519-1526.	6.0	32

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19	Mimicking the Kidney: A Key Role in Organ-on-Chip Development. Micromachines, 2016, 7, 126.	2.9	32
20	A time-domain method for the analysis of thermal impedance response preserving the convolution form. IEEE Transactions on Components and Packaging Technologies, 1999, 22, 238-244.	1.3	31
21	Long distance electron transfer through the aqueous solution between redox partner proteins. Nature Communications, 2018, 9, 5157.	12.8	30
22	Large-scale dendrimer-based uneven nanopatterns for the study of local arginine-glycine-aspartic acid (RGD) density effects on cell adhesion. Nano Research, 2014, 7, 399-409.	10.4	27
23	Multiple biomarkers biosensor with just-in-time functionalization: Application to prostate cancer detection. Biosensors and Bioelectronics, 2016, 77, 1192-1200.	10.1	27
24	Nanopatterns of Surface-Bound EphrinB1 Produce Multivalent Ligandâ€“Receptor Interactions That Tune EphB2 Receptor Clustering. Nano Letters, 2018, 18, 629-637.	9.1	27
25	A new BiofilmChip device for testing biofilm formation and antibiotic susceptibility. Npj Biofilms and Microbiomes, 2021, 7, 62.	6.4	26
26	Optical Gratings Coated with Thin Si3N4 Layer for Efficient Immunosensing by Optical Waveguide Lightmode Spectroscopy. Biosensors, 2012, 2, 114-126.	4.7	25
27	Miniaturizable Ion-Selective Arrays Based on Highly Stable Polymer Membranes for Biomedical Applications. Sensors, 2014, 14, 11844-11854.	3.8	24
28	An Interplay between Matrix Anisotropy and Actomyosin Contractility Regulates 3Dâ€Directed Cell Migration. Advanced Functional Materials, 2017, 27, 1702322.	14.9	22
29	Rapid Manufacturing of Multilayered Microfluidic Devices for Organ on a Chip Applications. Sensors, 2021, 21, 1382.	3.8	22
30	Combined dielectrophoretic and impedance system for onâ€chip controlled bacteria concentration: Application to Escherichia coli. Electrophoresis, 2015, 36, 1130-1141.	2.4	21
31	Producing 3D Biomimetic Nanomaterials for Musculoskeletal System Regeneration. Frontiers in Bioengineering and Biotechnology, 2018, 6, 128.	4.1	20
32	Photothermally Controlled Methotrexate Release System Using Î²-Cyclodextrin and Gold Nanoparticles. Nanomaterials, 2018, 8, 985.	4.1	18
33	Neuromuscular Activity Induces Paracrine Signaling and Triggers Axonal Regrowth after Injury in Microfluidic Lab-On-Chip Devices. Cells, 2020, 9, 302.	4.1	18
34	Tailoring RGD local surface density at the nanoscale toward adult stem cell chondrogenic commitment. Nano Research, 2017, 10, 1959-1971.	10.4	17
35	Sequential combinations of chemotherapeutic agents with BH3 mimetics to treat rhabdomyosarcoma and avoid resistance. Cell Death and Disease, 2020, 11, 634.	6.3	17
36	Motion in microfluidic ratchets. Lab on A Chip, 2016, 16, 4477-4481.	6.0	16

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37	A microphysiological system combining electrospun fibers and electrical stimulation for the maturation of highly anisotropic cardiac tissue. Biofabrication, 2021, 13, 035047.	7.1	16
38	ER+ Breast Cancer Strongly Depends on MCL-1 and BCL-xL Anti-Apoptotic Proteins. Cells, 2021, 10, 1659.	4.1	16
39	Design of a Customized Multipurpose Nano-Enabled Implantable System for In-Vivo Theranostics. Sensors, 2014, 14, 19275-19306.	3.8	14
40	Versatile Vessel-on-a-Chip Platform for Studying Key Features of Blood Vascular Tumors. Bioengineering, 2021, 8, 81.	3.5	14
41	Forced Soft Lithography (FSL): Production of Microâ€•and Nanostructures in Thin Freestanding Sheets of Chitosan Biopolymer. Advanced Materials, 2007, 19, 3696-3701.	21.0	13
42	Highly Anisotropic Suspended Planarâ€Array Chips with Multidimensional Subâ€Micrometric Biomolecular Patterns. Advanced Functional Materials, 2017, 27, 1605912.	14.9	13
43	Kynurenic Acid Electrochemical Immunosensor: Blood-Based Diagnosis of Alzheimerâ€™s Disease. Biosensors, 2021, 11, 20.	4.7	12
44	Matrix Nanopatterning Regulates Mesenchymal Differentiation through Focal Adhesion Size and Distribution According to Cell Fate. Biomimetics, 2019, 4, 43.	3.3	10
45	The Janus Role of Adhesion in Chondrogenesis. International Journal of Molecular Sciences, 2020, 21, 5269.	4.1	10
46	Simple and Fast Method for Fabrication of Endoscopic Implantable Sensor Arrays. Sensors, 2014, 14, 11416-11426.	3.8	9
47	Multi-disciplinarity breeds diversity: the influence of innovation project characteristics on diversity creation in nanotechnology. Journal of Technology Transfer, 2018, 43, 458-481.	4.3	9
48	in vivo Monitoring with micro-implantable hypoxia sensor based on tissue acidosis. Talanta, 2021, 226, 122045.	5.5	9
49	An Electron Mobility Independent Pulse Skipping Regulator for a Programmable CMOS Charge Pump. , 0, , .		8
50	Adaptive Asymmetric Least Squares baseline estimation for analytical instruments. , 2014, , .		8
51	Horizontal transfer of the stemness-related markers EZH2 and GLI1 by neuroblastoma-derived extracellular vesicles in stromal cells. Translational Research, 2021, 237, 82-97.	5.0	8
52	Design of a brushless micro motor driver for a locomotive endoscopic capsule. , 2008, , .		6
53	Surface-Bound Molecular Gradients for the High-Throughput Screening of Cell Responses. Frontiers in Bioengineering and Biotechnology, 2015, 3, 132.	4.1	6
54	Digital Image Analysis Applied to Tumor Cell Proliferation, Aggressiveness, and Migration-Related Protein Synthesis in Neuroblastoma 3D Models. International Journal of Molecular Sciences, 2020, 21, 8676.	4.1	6

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55	A 60 µW low-power low-voltage power management unit for a self-powered system based on low-cost piezoelectric powering generators. , 2009, , .		5
56	Dielectrophoretic concentrator enhancement based on dielectric poles for continuously flowing samples. Electrophoresis, 2015, 36, 1405-1413.	2.4	5
57	Dendrimer-based Uneven Nanopatterns to Locally Control Surface Adhesiveness: A Method to Direct Chondrogenic Differentiation. Journal of Visualized Experiments, 2018, , .	0.3	5
58	Non-invasive monitoring of pH and oxygen using miniaturized electrochemical sensors in an animal model of acute hypoxia. Journal of Translational Medicine, 2021, 19, 53.	4.4	5
59	MCL-1 Inhibition Overcomes Anti-apoptotic Adaptation to Targeted Therapies in B-Cell Precursor Acute Lymphoblastic Leukemia. Frontiers in Cell and Developmental Biology, 2021, 9, 695225.	3.7	4
60	MEK and MCL-1 sequential inhibition synergize to enhance rhabdomyosarcoma treatment. Cell Death Discovery, 2022, 8, 172.	4.7	4
61	Personalized in vitro Extracellular Matrix Models of Collagen VI-Related Muscular Dystrophies. Frontiers in Bioengineering and Biotechnology, 2022, 10, 851825.	4.1	4
62	Layer-by-layer modification effects on a nanopore's inner surface of polycarbonate track-etched membranes. RSC Advances, 2020, 10, 35930-35940.	3.6	3
63	RGD-Dendrimer-Poly(L-lactic) Acid Nanopatterned Substrates for the Early Chondrogenesis of Human Mesenchymal Stromal Cells Derived from Osteoarthritic and Healthy Donors. Materials, 2020, 13, 2247.	2.9	3
64	Switched current interface circuit for capacitive micromachined accelerometer. , 0, , .		2
65	Effective and Versatile Strategy for the Total Solidâ€Phase Synthesis of Alkanethiols for Biological Applications. European Journal of Organic Chemistry, 2013, 2013, 1233-1239.	2.4	2
66	Molecular architecture for DNA wiring. Biosensors and Bioelectronics, 2018, 121, 54-61.	10.1	2
67	A microfluidic device for shape measurement in red blood cells (RBCs). , 2020, , .		2
68	Fetal ischemia monitoring with in vivo implanted electrochemical multiparametric microsensors. Journal of Biological Engineering, 2021, 15, 28.	4.7	2
69	Nanoscale ligand density modulates gap junction intercellular communication of cell condensates during chondrogenesis. Nanomedicine, 2022, 17, 775-791.	3.3	2
70	Soft Lithography and Variants. , 2011, , 57-68.		1
71	Immunochemical strategy for quantification of G-coupled olfactory receptor proteins on natural nanovesicles. Colloids and Surfaces B: Biointerfaces, 2016, 139, 269-276.	5.0	1
72	Slightly congested amino terminal dendrimers. The synthesis of amide-based stable structures on a large scale. Polymer Chemistry, 2021, 12, 5168-5177.	3.9	1

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73	Design of a step-up 400 mW@ 40 V charge-pump for microrobotics applications in a 100 V-0.7 /spl mu/m intelligent interface technology. , 2004, , .		0
74	A Proof-of-Concept of a Multi-harvesting Power Source in a Low-Voltage CMOS Technology. , 2012, , .		0
75	Visualized Multiprobe Electrical Impedance Measurements with STM Tips Using Shear Force Feedback Control. Sensors, 2016, 16, 757.	3.8	0
76	Miniaturized Electrochemical Sensors to Monitor Fetal Hypoxia and Acidosis in a Pregnant Sheep Model. Biomedicines, 2021, 9, 1344.	3.2	0