

Josep Samitier

List of Publications by Year in descending order

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Version: 2024-02-01

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	MEK and MCL-1 sequential inhibition synergize to enhance rhabdomyosarcoma treatment. <i>Cell Death Discovery</i> , 2022, 8, 172.	4.7	4
2	Personalized in vitro Extracellular Matrix Models of Collagen VI-Related Muscular Dystrophies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 851825.	4.1	4
3	Nanoscale ligand density modulates gap junction intercellular communication of cell condensates during chondrogenesis. <i>Nanomedicine</i> , 2022, 17, 775-791.	3.3	2
4	Commercialized diagnostic technologies to combat SARS-CoV2: Advantages and disadvantages. <i>Talanta</i> , 2021, 225, 121898.	5.5	43
5	Kynurenic Acid Electrochemical Immunosensor: Blood-Based Diagnosis of Alzheimer's Disease. <i>Biosensors</i> , 2021, 11, 20.	4.7	12
6	Slightly congested amino terminal dendrimers. The synthesis of amide-based stable structures on a large scale. <i>Polymer Chemistry</i> , 2021, 12, 5168-5177.	3.9	1
7	Non-invasive monitoring of pH and oxygen using miniaturized electrochemical sensors in an animal model of acute hypoxia. <i>Journal of Translational Medicine</i> , 2021, 19, 53.	4.4	5
8	Rapid Manufacturing of Multilayered Microfluidic Devices for Organ on a Chip Applications. <i>Sensors</i> , 2021, 21, 1382.	3.8	22
9	in vivo Monitoring with micro-implantable hypoxia sensor based on tissue acidosis. <i>Talanta</i> , 2021, 226, 122045.	5.5	9
10	Versatile Vessel-on-a-Chip Platform for Studying Key Features of Blood Vascular Tumors. <i>Bioengineering</i> , 2021, 8, 81.	3.5	14
11	A microphysiological system combining electrospun fibers and electrical stimulation for the maturation of highly anisotropic cardiac tissue. <i>Biofabrication</i> , 2021, 13, 035047.	7.1	16
12	Combining microfluidics with machine learning algorithms for RBC classification in rare hereditary hemolytic anemia. <i>Scientific Reports</i> , 2021, 11, 13553.	3.3	33
13	ER+ Breast Cancer Strongly Depends on MCL-1 and BCL-xL Anti-Apoptotic Proteins. <i>Cells</i> , 2021, 10, 1659.	4.1	16
14	A new BiofilmChip device for testing biofilm formation and antibiotic susceptibility. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 62.	6.4	26
15	Miniaturized Electrochemical Sensors to Monitor Fetal Hypoxia and Acidosis in a Pregnant Sheep Model. <i>Biomedicines</i> , 2021, 9, 1344.	3.2	0
16	MCL-1 Inhibition Overcomes Anti-apoptotic Adaptation to Targeted Therapies in B-Cell Precursor Acute Lymphoblastic Leukemia. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 695225.	3.7	4
17	Horizontal transfer of the stemness-related markers EZH2 and GLI1 by neuroblastoma-derived extracellular vesicles in stromal cells. <i>Translational Research</i> , 2021, 237, 82-97.	5.0	8
18	Fetal ischemia monitoring with in vivo implanted electrochemical multiparametric microsensors. <i>Journal of Biological Engineering</i> , 2021, 15, 28.	4.7	2

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19	Digital Image Analysis Applied to Tumor Cell Proliferation, Aggressiveness, and Migration-Related Protein Synthesis in Neuroblastoma 3D Models. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8676.	4.1	6
20	A microfluidic device for shape measurement in red blood cells (RBCs). , 2020, , .		2
21	The Janus Role of Adhesion in Chondrogenesis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5269.	4.1	10
22	Layer-by-layer modification effects on a nanopore's inner surface of polycarbonate track-etched membranes. <i>RSC Advances</i> , 2020, 10, 35930-35940.	3.6	3
23	Sequential combinations of chemotherapeutic agents with BH3 mimetics to treat rhabdomyosarcoma and avoid resistance. <i>Cell Death and Disease</i> , 2020, 11, 634.	6.3	17
24	RGD-Dendrimer-Poly(L-lactic) Acid Nanopatterned Substrates for the Early Chondrogenesis of Human Mesenchymal Stromal Cells Derived from Osteoarthritic and Healthy Donors. <i>Materials</i> , 2020, 13, 2247.	2.9	3
25	Sensor-Integrated Microfluidic Approaches for Liquid Biopsies Applications in Early Detection of Cancer. <i>Sensors</i> , 2020, 20, 1317.	3.8	40
26	Micro-needle implantable electrochemical oxygen sensor: ex-vivo and in-vivo studies. <i>Biosensors and Bioelectronics</i> , 2020, 153, 112028.	10.1	43
27	Neuromuscular Activity Induces Paracrine Signaling and Triggers Axonal Regrowth after Injury in Microfluidic Lab-On-Chip Devices. <i>Cells</i> , 2020, 9, 302.	4.1	18
28	A three-dimensional bioprinted model to evaluate the effect of stiffness on neuroblastoma cell cluster dynamics and behavior. <i>Scientific Reports</i> , 2020, 10, 6370.	3.3	36
29	Matrix Nanopatterning Regulates Mesenchymal Differentiation through Focal Adhesion Size and Distribution According to Cell Fate. <i>Biomimetics</i> , 2019, 4, 43.	3.3	10
30	Engineered Macroscale Cardiac Constructs Elicit Human Myocardial Tissue-like Functionality. <i>Stem Cell Reports</i> , 2019, 13, 207-220.	4.8	47
31	Dendrimer-based Uneven Nanopatterns to Locally Control Surface Adhesiveness: A Method to Direct Chondrogenic Differentiation. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	5
32	Involvement of Cellular Prion Protein in β -Synuclein Transport in Neurons. <i>Molecular Neurobiology</i> , 2018, 55, 1847-1860.	4.0	55
33	Multi-disciplinarity breeds diversity: the influence of innovation project characteristics on diversity creation in nanotechnology. <i>Journal of Technology Transfer</i> , 2018, 43, 458-481.	4.3	9
34	Nanopatterns of Surface-Bound EphrinB1 Produce Multivalent Ligand- β Receptor Interactions That Tune EphB2 Receptor Clustering. <i>Nano Letters</i> , 2018, 18, 629-637.	9.1	27
35	Photothermally Controlled Methotrexate Release System Using β -Cyclodextrin and Gold Nanoparticles. <i>Nanomaterials</i> , 2018, 8, 985.	4.1	18
36	Long distance electron transfer through the aqueous solution between redox partner proteins. <i>Nature Communications</i> , 2018, 9, 5157.	12.8	30

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37	Blood-Based Cancer Biomarkers in Liquid Biopsy: A Promising Non-Invasive Alternative to Tissue Biopsy. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2877.	4.1	275
38	Producing 3D Biomimetic Nanomaterials for Musculoskeletal System Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 128.	4.1	20
39	Molecular architecture for DNA wiring. <i>Biosensors and Bioelectronics</i> , 2018, 121, 54-61.	10.1	2
40	Composite Biomaterials as Long-Lasting Scaffolds for 3D Bioprinting of Highly Aligned Muscle Tissue. <i>Macromolecular Bioscience</i> , 2018, 18, e1800167.	4.1	104
41	Directed Flow of Micromotors through Alignment Interactions with Micropatterned Ratchets. <i>ACS Nano</i> , 2018, 12, 7282-7291.	14.6	55
42	Highly Anisotropic Suspended Planar Array Chips with Multidimensional Sub-Micrometric Biomolecular Patterns. <i>Advanced Functional Materials</i> , 2017, 27, 1605912.	14.9	13
43	Tailoring RGD local surface density at the nanoscale toward adult stem cell chondrogenic commitment. <i>Nano Research</i> , 2017, 10, 1959-1971.	10.4	17
44	An Interplay between Matrix Anisotropy and Actomyosin Contractility Regulates 3D-Directed Cell Migration. <i>Advanced Functional Materials</i> , 2017, 27, 1702322.	14.9	22
45	Tumour-vessel-on-a-chip models for drug delivery. <i>Lab on A Chip</i> , 2017, 17, 3760-3771.	6.0	68
46	Visualized Multiprobe Electrical Impedance Measurements with STM Tips Using Shear Force Feedback Control. <i>Sensors</i> , 2016, 16, 757.	3.8	0
47	Mimicking the Kidney: A Key Role in Organ-on-Chip Development. <i>Micromachines</i> , 2016, 7, 126.	2.9	32
48	Combined Dielectrophoresis and Impedance Systems for Bacteria Analysis in Microfluidic On-Chip Platforms. <i>Sensors</i> , 2016, 16, 1514.	3.8	38
49	Motion in microfluidic ratchets. <i>Lab on A Chip</i> , 2016, 16, 4477-4481.	6.0	16
50	Immunochemical strategy for quantification of G-coupled olfactory receptor proteins on natural nanovesicles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 269-276.	5.0	1
51	Multiple biomarkers biosensor with just-in-time functionalization: Application to prostate cancer detection. <i>Biosensors and Bioelectronics</i> , 2016, 77, 1192-1200.	10.1	27
52	Combined dielectrophoretic and impedance system for on-chip controlled bacteria concentration: Application to <i>Escherichia coli</i> . <i>Electrophoresis</i> , 2015, 36, 1130-1141.	2.4	21
53	Surface-Bound Molecular Gradients for the High-Throughput Screening of Cell Responses. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 132.	4.1	6
54	Dielectrophoretic concentrator enhancement based on dielectric poles for continuously flowing samples. <i>Electrophoresis</i> , 2015, 36, 1405-1413.	2.4	5

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55	Label-free electrochemical DNA sensor using click-functionalized PEDOT electrodes. Biosensors and Bioelectronics, 2015, 74, 751-756.	10.1	52
56	Simple and Fast Method for Fabrication of Endoscopic Implantable Sensor Arrays. Sensors, 2014, 14, 11416-11426.	3.8	9
57	Design of a Customized Multipurpose Nano-Enabled Implantable System for In-Vivo Theranostics. Sensors, 2014, 14, 19275-19306.	3.8	14
58	Miniaturizable Ion-Selective Arrays Based on Highly Stable Polymer Membranes for Biomedical Applications. Sensors, 2014, 14, 11844-11854.	3.8	24
59	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
60	Adaptive Asymmetric Least Squares baseline estimation for analytical instruments. , 2014, , .		8
61	Cells as Active Particles in Asymmetric Potentials: Motility under External Gradients. Biophysical Journal, 2014, 107, 1513-1522.	0.5	36
62	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
63	Effective and Versatile Strategy for the Total Solid-Phase Synthesis of Alkanethiols for Biological Applications. European Journal of Organic Chemistry, 2013, 2013, 1233-1239.	2.4	2
64	A Proof-of-Concept of a Multi-harvesting Power Source in a Low-Voltage CMOS Technology. , 2012, , .		0
65	Optical Gratings Coated with Thin Si3N4 Layer for Efficient Immunosensing by Optical Waveguide Lightmode Spectroscopy. Biosensors, 2012, 2, 114-126.	4.7	25
66	Soft Lithography and Variants. , 2011, , 57-68.		1
67	Integrated electrochemical DNA biosensors for lab-on-a-chip devices. Electrophoresis, 2009, 30, 3386-3397.	2.4	93
68	A 60 mW low-power low-voltage power management unit for a self-powered system based on low-cost piezoelectric powering generators. , 2009, , .		5
69	Power-Conditioning Circuitry for a Self-Powered System Based on Micro PZT Generators in a 0.13- μ m Low-Voltage Low-Power Technology. IEEE Transactions on Industrial Electronics, 2008, 55, 3249-3257.	7.9	62
70	Design of a brushless micro motor driver for a locomotive endoscopic capsule. , 2008, , .		6
71	Forced Soft Lithography (FSL): Production of Micro- and Nanostructures in Thin Freestanding Sheets of Chitosan Biopolymer. Advanced Materials, 2007, 19, 3696-3701.	21.0	13
72	Low cost micro-Coulter counter with hydrodynamic focusing. Microfluidics and Nanofluidics, 2007, 3, 171-176.	2.2	74

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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 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
75	Switched current interface circuit for capacitive micromachined accelerometer. , 0, , .		2
76	An Electron Mobility Independent Pulse Skipping Regulator for a Programmable CMOS Charge Pump. , 0, , .		8