Javier Ramon

List of Publications by Year
in descending order

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77 papers	2,719 citations	201385 27 h-index	182168 51 g-index
85 all docs	85 docs citations	85 times ranked	4009 citing authors

#	Article	IF	Citations
1	Dielectrophoretically Aligned Carbon Nanotubes to Control Electrical and Mechanical Properties of Hydrogels to Fabricate Contractile Muscle Myofibers. Advanced Materials, 2013, 25, 4028-4034.	11.1	236
2	Hybrid hydrogels containing vertically aligned carbon nanotubes with anisotropic electrical conductivity for muscle myofiber fabrication. Scientific Reports, 2014, 4, 4271.	1.6	213
3	Gelatin methacrylate as a promising hydrogel for 3D microscale organization and proliferation of dielectrophoretically patterned cells. Lab on A Chip, 2012, 12, 2959.	3.1	148
4	Hybrid hydrogel-aligned carbon nanotube scaffolds to enhance cardiac differentiation of embryoid bodies. Acta Biomaterialia, 2016, 31, 134-143.	4.1	145
5	Facile and green production of aqueous graphene dispersions for biomedical applications. Nanoscale, 2015, 7, 6436-6443.	2.8	114
6	Composite Biomaterials as Longâ€Lasting Scaffolds for 3D Bioprinting of Highly Aligned Muscle Tissue. Macromolecular Bioscience, 2018, 18, e1800167.	2.1	104
7	Muscle-on-a-chip with an on-site multiplexed biosensing system for in situ monitoring of secreted IL-6 and TNF-Î±. Lab on A Chip, 2019, 19, 2568-2580.	3.1	102
8	Part per trillion determination of atrazine in natural water samples by a surface plasmon resonance immunosensor. Analytical and Bioanalytical Chemistry, 2007, 388, 207-214.	1.9	97
9	Interdigitated array of Pt electrodes for electrical stimulation and engineering of aligned muscle tissue. Lab on A Chip, 2012, 12, 3491.	3.1	96
10	An impedimetric immunosensor based on interdigitated microelectrodes (IDÎ¼E) for the determination of atrazine residues in food samples. Biosensors and Bioelectronics, 2008, 23, 1367-1373.	5.3	86
11	Alginate gel microwell arrays using electrodeposition for three-dimensional cell culture. Lab on A Chip, 2013, 13, 3128.	3.1	71
12	Three-dimensional co-culture of C2C12/PC12 cells improves skeletal muscle tissue formation and function. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 582-595.	1.3	70
13	Cell pairing using a dielectrophoresis-based device with interdigitated array electrodes. Lab on A Chip, 2013, 13, 3650.	3.1	68
14	Electrically regulated differentiation of skeletal muscle cells on ultrathin graphene-based films. RSC Advances, 2014, 4, 9534.	1.7	57
15	Impedimetric immunosensor for atrazine detection using interdigitated Î¼-electrodes (IDÎ¼E's). Sensors and Actuators B: Chemical, 2007, 125, 526-537.	4.0	53
16	Three-dimensional interdigitated electrode array as a transducer for label-free biosensors. Biosensors and Bioelectronics, 2008, 24, 729-735.	5.3	51
17	Conductimetric immunosensor for atrazine detection based on antibodies labelled with gold nanoparticles. Sensors and Actuators B: Chemical, 2008, 134, 95-103.	4.0	50
18	Rapid and simple immunosensing system for simultaneous detection of tumor markers based on negative-dielectrophoretic manipulation of microparticles. Talanta, 2010, 81, 657-663.	2.9	47

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19	Competitive multi-immunosensing of pesticides based on the particle manipulation with negative dielectrophoresis. Biosensors and Bioelectronics, 2010, 25, 1928-1933.	5.3	40
20	Sequential Sonogashira and Suzuki Cross-Coupling Reactions in the Indole and Indazole Series. Synthesis, 2005, 2005, 771-780.	1.2	39
21	Sensitive and Spatially Multiplexed Detection System Based on Dielectrophoretic Manipulation of DNA-Encoded Particles Used as Immunoreactions Platform. Analytical Chemistry, 2011, 83, 1053-1060.	3.2	37
22	Carbon Nanotubes and Graphene-Based Nanomaterials for Stem Cell Differentiation and Tissue Regeneration. Journal of Nanoscience and Nanotechnology, 2016, 16, 8862-8880.	0.9	37
23	Detection of pesticide residues using an immunodevice based on negative dielectrophoresis. Biosensors and Bioelectronics, 2009, 24, 1592-1597.	5.3	36
24	A contactless electrical stimulator: application to fabricate functional skeletal muscle tissue. Biomedical Microdevices, 2013, 15, 109-115.	1.4	35
25	Facile and rapid generation of 3D chemical gradients within hydrogels for high-throughput drug screening applications. Biosensors and Bioelectronics, 2014, 59, 166-173.	5.3	35
26	Determination of atrazine residues in red wine samples. A conductimetric solution. Food Chemistry, 2010, 122, 888-894.	4.2	33
27	In Situ LSPR Sensing of Secreted Insulin in Organ-on-Chip. Biosensors, 2021, 11, 138.	2.3	30
28	Preparation of antibodies and development of a sensitive immunoassay with fluorescence detection for triazine herbicides. Analytical and Bioanalytical Chemistry, 2008, 391, 1801-1812.	1.9	29
29	Applications of Carbon Nanotubes in Stem Cell Research. Journal of Biomedical Nanotechnology, 2014, 10, 2539-2561.	0.5	29
30	Development of an Enzyme-Linked Immunosorbent Assay for the Determination of the Linear Alkylbenzene Sulfonates and Long-Chain Sulfophenyl Carboxylates Using Antibodies Generated by Pseudoheterologous Immunization. Analytical Chemistry, 2006, 78, 71-81.	3.2	28
31	Hydrogels containing metallic glass sub-micron wires for regulating skeletal muscle cell behaviour. Biomaterials Science, 2015, 3, 1449-1458.	2.6	27
32	High Protein Diet and Metabolic Plasticity in Non-Alcoholic Fatty Liver Disease: Myths and Truths. Nutrients, 2019, 11, 2985.	1.7	26
33	New volumetric CNT-doped gelatinâ€“cellulose scaffolds for skeletal muscle tissue engineering. Nanoscale Advances, 2020, 2, 2885-2896.	2.2	26
34	Characterisation of the interdigitated electrode array with tantalum silicide electrodes separated by insulating barriers. Electrochemistry Communications, 2008, 10, 1621-1624.	2.3	25
35	The Use of Microtechnology and Nanotechnology in Fabricating Vascularized Tissues. Journal of Nanoscience and Nanotechnology, 2014, 14, 487-500.	0.9	25
36	Bioengineered in vitro 3D model of myotonic dystrophy type 1 human skeletal muscle. Biofabrication, 2021, 13, 035035.	3.7	24

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37	Rapid and high-throughput formation of 3D embryoid bodies in hydrogels using the dielectrophoresis technique. Lab on A Chip, 2014, 14, 3690-3694.	3.1	22
38	Molecular Motor-Powered Shuttles along Multi-walled Carbon Nanotube Tracks. Nano Letters, 2014, 14, 876-881.	4.5	21
39	Intracellular Electrochemical Sensing. Electroanalysis, 2018, 30, 2195-2209.	1.5	21
40	Bioengineeredin vitroskeletal muscles as new tools for muscular dystrophies preclinical studies. Journal of Tissue Engineering, 2021, 12, 204173142098133.	2.3	21
41	Non-invasive measurement of glucose uptake of skeletal muscle tissue models using a glucose nanobiosensor. Biosensors and Bioelectronics, 2013, 50, 194-201.	5.3	20
42	Single frequency impedimetric immunosensor for atrazine detection. Sensors and Actuators B: Chemical, 2008, 129, 921-928.	4.0	18
43	Development of an Enzyme-Linked Immunosorbent Assay for Determination of the Miticide Bromopropylate. Journal of Agricultural and Food Chemistry, 2009, 57, 375-384.	2.4	17
44	Immunodevice for simultaneous detection of two relevant tumor markers based on separation of different microparticles by dielectrophoresis. Biosensors and Bioelectronics, 2011, 28, 443-449.	5.3	16
45	Al₂O₃microring resonators for the detection of a cancer biomarker in undiluted urine. Optics Express, 2019, 27, 18508.	1.7	16
46	Engineered Muscle Tissues for Disease Modeling and Drug Screening Applications. Current Pharmaceutical Design, 2017, 23, 2991-3004.	0.9	15
47	Evaluation of a Newly Developed Enzyme-Linked Immunosorbent Assay for Determination of Linear Alkyl Benzenesulfonates in Wastewater Treatment Plants. Environmental Science & Technology, 2006, 40, 5064-5070.	4.6	13
48	Microphysiological sensing platform for an in-situ detection of tissue-secreted cytokines. Biosensors and Bioelectronics: X, 2019, 2, 100025.	0.9	13
49	Cellulose-based scaffolds enhance pseudoislets formation and functionality. Biofabrication, 2021, 13, 035044.	3.7	13
50	Plasmonic nanocrystals on polycarbonate substrates for direct and label-free biodetection of Interleukin-6 in bioengineered 3D skeletal muscles. Nanophotonics, 2021, 10, 4477-4488.	2.9	10
51	The Synergy between Organ-on-a-Chip and Artificial Intelligence for the Study of NAFLD: From Basic Science to Clinical Research. Biomedicines, 2021, 9, 248.	1.4	9
52	Nanofiber composites in blood vessel tissue engineering. , 2017, , 483-506.		8
53	Collagenâ€Tannic Acid Spheroids for Î²â€Cell Encapsulation Fabricated Using a 3D Bioprinter. Advanced Materials Technologies, 2022, 7, .	3.0	8
54	Fatty Hepatocytes Induce Skeletal Muscle Atrophy In Vitro: A New 3D Platform to Study the Protective Effect of Albumin in Non-Alcoholic Fatty Liver. Biomedicines, 2022, 10, 958.	1.4	8

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55	Evaluation of Immunoassays as an Alternative for the Rapid Determination of Pesticides in Wine and Grape Samples. Journal of AOAC INTERNATIONAL, 2010, 93, 2-11.	0.7	7
56	Microtubule guiding in a multi-walled carbon nanotube circuit. Biomedical Microdevices, 2015, 17, 78.	1.4	7
57	Direct and Label-Free Monitoring of Albumin in 2D Fatty Liver Disease Model Using Plasmonic Nanogratings. Nanomaterials, 2020, 10, 2520.	1.9	7
58	Islet-on-a-chip for the study of pancreatic Î²-cell function. In Vitro Models, 2022, 1, 41-57.	1.0	7
59	Topography and Permeability Analyses of Vasculatureâ€onâ€aâ€Chip Using Scanning Probe Microscopies. Advanced Healthcare Materials, 2021, 10, e2101186.	3.9	6
60	Consequences of Lmna Exon 4 Mutations in Myoblast Function. Cells, 2020, 9, 1286.	1.8	6
61	Biosensors for Pharmaceuticals and Emerging Contaminants Based on Novel Micro and Nanotechnology Approaches. Handbook of Environmental Chemistry, 2009, , 47-68.	0.2	5
62	Assessment of analytical methods to determine pyrethroids content of bednets. Tropical Medicine and International Health, 2017, 22, 41-51.	1.0	4
63	Ammonium quantification (AQua) in human plasma by ¹ Hâ€NMR for staging of liver fibrosis in alcoholâ€related liver disease and nonâ€alcoholic fatty liver disease. NMR in Biomedicine, 2022, , e4745.	1.6	4
64	Scalable, Lithography-Free Plasmonic Metasurfaces by Nano-Patterned/Sculpted Thin Films for Biosensing. Frontiers in Sensors, 0, 3, .	1.7	4
65	Clinical/preclinical aspects of nanofiber composites. , 2017, , 507-528.		3
66	Disposable Polymeric Nanostructured Plasmonic Biosensors for Cell Culture Adhesion Monitoring. Frontiers in Bioengineering and Biotechnology, 2021, 9, 799325.	2.0	3
67	Al2O3 Microresonators for Passive and Active Sensing Applications. , 2018, , .		2
68	Dielectrophoretical fabrication of hybrid carbon nanotubes-hydrogel biomaterial for muscle tissue engineering applications. Materials Research Society Symposia Proceedings, 2014, 1621, 81-86.	0.1	1
69	Gradient Biomaterials as Tissue Scaffolds. , 2015, , 175-186.		1
70	Detection of Pesticide Residues Using Biosensors. , 2012, , 21-40.		1
71	High frequency response of a novel biosensor based on interdigitated Î¼-electrodes (IDÎ¼E's). , 2007, , .		0
72	Negative dielectrophoretic manipulation with microparticles for rapid immunosensing. , 2008, , .		0

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73	Rapid immunosensing based on accumulation of microparticles by negative dielectrophoresis. , 2009, , .		0
74	Interdigitated μ-electrodes for development of an impedimetric immunosensor for atrazine detection. , 2009, , .		0
75	Metallic glass nanofibers in future hydrogel-based scaffolds. , 2014, 2014, 5276-9.		0
76	Al<inf>2</inf>O<inf>3</inf> Microresonator Based Passive and Active Biosensors. , 2018, , .		0
77	3.2.2 Toward functional engineered tissues as biosensors using hydrogels and dielectrophoretic technique. , 2012, , .		0