

Lourdes Basabe-Desmonts

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,825
citations

394421

19
h-index

168389

53
g-index

66
all docs

66
docs citations

66
times ranked

4588
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of fluorescent materials for chemical sensing. <i>Chemical Society Reviews</i> , 2007, 36, 993.	38.1	909
2	Review on microfluidic paper-based analytical devices towards commercialisation. <i>Analytica Chimica Acta</i> , 2018, 1001, 1-17.	5.4	379
3	Stand-alone self-powered integrated microfluidic blood analysis system (SIMBAS). <i>Lab on A Chip</i> , 2011, 11, 845-850.	6.0	304
4	A Simple Approach to Sensor Discovery and Fabrication on Self-Assembled Monolayers on Glass. <i>Journal of the American Chemical Society</i> , 2004, 126, 7293-7299.	13.7	165
5	Hierarchical Self-Assembly of Gold Nanoparticles into Patterned Plasmonic Nanostructures. <i>ACS Nano</i> , 2014, 8, 10694-10703.	14.6	137
6	A combinatorial approach to surface-confined cation sensors in water. <i>Journal of Materials Chemistry</i> , 2005, 15, 2772.	6.7	58
7	Self-Assembled Monolayers of a Multifunctional Organic Radical. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2215-2219.	13.8	56
8	High efficiency amine functionalization of cycloolefin polymer surfaces for biodiagnostics. <i>Journal of Materials Chemistry</i> , 2010, 20, 4116.	6.7	51
9	TiO ₂ Nanotubes Alginate Hydrogel Scaffold for Rapid Sensing of Sweat Biomarkers: Lactate and Glucose. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37734-37745.	8.0	50
10	Single-Step Separation of Platelets from Whole Blood Coupled with Digital Quantification by Interfacial Platelet Cytometry (iPC). <i>Langmuir</i> , 2010, 26, 14700-14706.	3.5	42
11	Microfluidic device to study arterial shear-mediated platelet-surface interactions in whole blood: reduced sample volumes and well-characterised protein surfaces. <i>Biomedical Microdevices</i> , 2010, 12, 987-1000.	2.8	41
12	Cross-Reactive Sensor Array for Metal Ion Sensing Based on Fluorescent SAMs. <i>Sensors</i> , 2007, 7, 1731-1746.	3.8	31
13	Microfluidics and materials for smart water monitoring: A review. <i>Analytica Chimica Acta</i> , 2021, 1186, 338392.	5.4	30
14	Manipulation of fluid flow direction in microfluidic paper-based analytical devices with an ionogel negative passive pump. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 114-123.	7.8	28
15	Liquid recirculation in microfluidic channels by the interplay of capillary and centrifugal forces. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 695-703.	2.2	27
16	Driving flows in microfluidic paper-based analytical devices with a cholinium based poly(ionic liquid) hydrogel. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 372-378.	7.8	27
17	Integrated system investigating shear-mediated platelet interactions with von Willebrand factor using microliters of whole blood. <i>Analytical Biochemistry</i> , 2010, 405, 174-183.	2.4	25
18	Fluorescent sensor array in a microfluidic chip. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 307-315.	3.7	24

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19	Shear-Mediated Platelet Adhesion Analysis in Less Than 100 μ L of Blood: Toward a POC Platelet Diagnostic. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 826-830.	4.2	20
20	Tunable Superparamagnetic Ring (tSPRing) for Droplet Manipulation. <i>Advanced Functional Materials</i> , 2021, 31, 2100178.	14.9	19
21	Tunable Nanoparticle and Cell Assembly Using Combined Self-Powered Microfluidics and Microcontact Printing. <i>Advanced Functional Materials</i> , 2016, 26, 8053-8061.	14.9	18
22	Individual Platelet Adhesion Assay: Measuring Platelet Function and Antiplatelet Therapies in Whole Blood via Digital Quantification of Cell Adhesion. <i>Analytical Chemistry</i> , 2013, 85, 6497-6504.	6.5	17
23	Self-Powered Microfluidic Device for Rapid Assay of Antiplatelet Drugs. <i>Langmuir</i> , 2016, 32, 2820-2828.	3.5	17
24	Combinatorial Fabrication of Fluorescent Patterns with Metal Ions Using Soft Lithography. <i>Advanced Materials</i> , 2006, 18, 1028-1032.	21.0	16
25	Fabrication and Visualization of Metal-Ion Patterns on Glass by Dip-Pen Nanolithography. <i>ChemPhysChem</i> , 2008, 9, 1680-1687.	2.1	16
26	Extracellular matrix protein microarray-based biosensor with single cell resolution: Integrin profiling and characterization of cell-biomaterial interactions. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126954.	7.8	16
27	Alginate Bead Biosystem for the Determination of Lactate in Sweat Using Image Analysis. <i>Biosensors</i> , 2021, 11, 379.	4.7	16
28	Microtechnologies for Cell Microenvironment Control and Monitoring. <i>Micromachines</i> , 2017, 8, 166.	2.9	14
29	Optical Single Cell Resolution Cytotoxicity Biosensor Based on Single Cell Adhesion Dot Arrays. <i>Analytical Chemistry</i> , 2020, 92, 9658-9665.	6.5	14
30	Modular micropumps fabricated by 3D printed technologies for polymeric microfluidic device applications. <i>Sensors and Actuators B: Chemical</i> , 2021, 342, 129991.	7.8	14
31	Biomolecule storage on non-modified thermoplastic microfluidic chip by ink-jet printing of ionogels. <i>Biomicrofluidics</i> , 2015, 9, 044124.	2.4	14
32	Assaying the efficacy of dual-antiplatelet therapy: use of a controlled-shear-rate microfluidic device with a well-defined collagen surface to track dynamic platelet adhesion. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4823-4834.	3.7	13
33	Selective Ultrasensitive Optical Fiber Nanosensors Based on Plasmon Resonance Energy Transfer. <i>ACS Sensors</i> , 2020, 5, 2018-2024.	7.8	13
34	Low-cost origami fabrication of 3D self-aligned hybrid microfluidic structures. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	12
35	Type 1 Diabetes Mellitus reversal via implantation of magnetically purified microencapsulated pseudoislets. <i>International Journal of Pharmaceutics</i> , 2019, 560, 65-77.	5.2	12
36	Reactive deposition of nano-films in deep polymeric microcavities. <i>Lab on A Chip</i> , 2012, 12, 4877.	6.0	11

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37	Naked eye Y amelogenin gene fragment detection using DNAzymes on a paper-based device. <i>Analytica Chimica Acta</i> , 2020, 1123, 1-8.	5.4	11
38	Microfluidic chip with pillar arrays for controlled production and observation of lipid membrane nanotubes. <i>Lab on A Chip</i> , 2020, 20, 2748-2755.	6.0	11
39	Combinatorial Method for Surface-Confined Sensor Design and Fabrication. , 2005, , 169-188.		11
40	Wearable biosensors and sample handling strategies. , 2020, , 65-88.		10
41	High-Resolution 3D Printing Fabrication of a Microfluidic Platform for Blood Plasma Separation. <i>Polymers</i> , 2022, 14, 2537.	4.5	10
42	New trends in bioanalytical microdevices to assess platelet function. <i>Expert Review of Molecular Diagnostics</i> , 2010, 10, 869-874.	3.1	9
43	From particle to platelet: Optimization of a stable, high brightness fluorescent nanoparticle based cell detection platform. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 540-549.	3.3	9
44	Cytochrome c detection by plasmonic nanospectroscopy on optical fiber facets. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129358.	7.8	9
45	Paper based microfluidic platform for single-step detection of mesenchymal stromal cells secreted VEGF. <i>Analytica Chimica Acta</i> , 2022, 1199, 339588.	5.4	9
46	Magneto Twister: Magneto Deformation of the Water-Air Interface by a Superhydrophobic Magnetic Nanoparticle Layer. <i>Langmuir</i> , 2022, 38, 3360-3369.	3.5	9
47	Protein pattern transfer for biosensor applications. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1295-1300.	10.1	8
48	Novel disposable biochip platform employing supercritical angle fluorescence for enhanced fluorescence collection. <i>Biomedical Microdevices</i> , 2011, 13, 759-767.	2.8	8
49	Large-Volume Self-Powered Disposable Microfluidics by the Integration of Modular Polymer Micropumps with Plastic Microfluidic Cartridges. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22485-22491.	3.7	8
50	Ionogel-based hybrid polymer-paper handheld platform for nitrite and nitrate determination in water samples. <i>Analytica Chimica Acta</i> , 2022, 1205, 339753.	5.4	8
51	Advances in Microtechnology for Improved Cytotoxicity Assessment. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	5
52	An electroactive and thermo-responsive material for the capture and release of cells. <i>Biosensors and Bioelectronics</i> , 2021, 191, 113405.	10.1	4
53	Predicting Dimensions in Microfluidic Paper Based Analytical Devices. <i>Sensors</i> , 2021, 21, 101.	3.8	4
54	A method for the controllable fabrication of optical fiber-based localized surface plasmon resonance sensors. <i>Scientific Reports</i> , 2022, 12, .	3.3	4

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55	Combinatorial Libraries of Fluorescent Monolayers on Glass. , 2009, , 81-115.		2
56	Liquid recirculation in microfluidic channels by the interplay of capillary and centrifugal forces. , 2009, , .		1
57	Thin film diffusion barrier formation in PDMS microcavities. , 2009, , .		1
58	Continuous monitoring of cell transfection efficiency with micropatterned substrates. Biotechnology and Bioengineering, 2021, 118, 2626-2636.	3.3	1
59	Underwater Magneto Driven Air De-bubbler. Journal of Materials Chemistry A, 0, , .	10.3	1
60	Whole-Blood Diagnostic Sensing System Based on Populational Platelet Rolling Behavior. ECS Transactions, 2009, 19, 73-77.	0.5	0
61	Diagnosi azkarrera bideratutako gailu mikro-fluidikoen garapen eta azterketa. Ekaia (journal), 0, , 115-126.	0.0	0
62	Ionogel based material for the colorimetric detection of δ^9 -tetrahydrocannabinol. , 2021, , .		0
63	Combinatorial Method for Surface-Confined Sensor Design and Fabrication. , 2005, , 169-188.		0