

Ilaria Mannelli

List of Publications by Year in descending order

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32
papers

1,063
citations

394421

19
h-index

477307

29
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33
all docs

33
docs citations

33
times ranked

1615
citing authors

#	ARTICLE	IF	CITATIONS
1	Quartz crystal microbalance (QCM) affinity biosensor for genetically modified organisms (GMOs) detection. <i>Biosensors and Bioelectronics</i> , 2003, 18, 129-140.	10.1	210
2	Direct immobilisation of DNA probes for the development of affinity biosensors. <i>Bioelectrochemistry</i> , 2005, 66, 129-138.	4.6	97
3	Biosensors for pharmaceuticals based on novel technology. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 541-553.	11.4	66
4	Fluorocarbon Coatings Via Plasma Enhanced Chemical Vapor Deposition of 1H,1H,2H,2H-perfluorodecyl Acrylate - 2, Morphology, Wettability and Antifouling Characterization. <i>Plasma Processes and Polymers</i> , 2010, 7, 926-938.	3.0	60
5	Detection of β -thalassemia by a DNA piezoelectric biosensor coupled with polymerase chain reaction. <i>Analytica Chimica Acta</i> , 2003, 481, 55-64.	5.4	56
6	Recent advances in analytical and bioanalysis applications of noble metal nanorods. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2451-2469.	3.7	55
7	Surface plasmon resonance imaging (SPRI) system and real-time monitoring of DNA biochip for human genetic mutation diagnosis of DNA amplified samples. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 583-591.	7.8	53
8	DNA immobilisation procedures for surface plasmon resonance imaging (SPRI) based microarray systems. <i>Biosensors and Bioelectronics</i> , 2007, 22, 803-809.	10.1	47
9	pH-Dependent Immobilization of Proteins on Surfaces Functionalized by Plasma-Enhanced Chemical Vapor Deposition of Poly(acrylic acid)- and Poly(ethylene oxide)-like Films. <i>Langmuir</i> , 2008, 24, 7251-7261.	3.5	46
10	Protein Nanopatterns for Improved Immunodetection Sensitivity. <i>Analytical Chemistry</i> , 2008, 80, 7336-7340.	6.5	36
11	Use of Nanopatterned Surfaces To Enhance Immunoreaction Efficiency. <i>Analytical Chemistry</i> , 2008, 80, 1418-1424.	6.5	34
12	Fabrication and characterization of protein arrays for stem cell patterning. <i>Soft Matter</i> , 2009, 5, 1406.	2.7	30
13	Poly(<i>N</i> -isopropylacrylamide) Grafted on Plasma-Activated Poly(ethylene oxide): Thermal Response and Interaction With Proteins. <i>Langmuir</i> , 2008, 24, 6166-6175.	3.5	29
14	Ultrasensitive interferometric on-chip microscopy of transparent objects. <i>Science Advances</i> , 2016, 2, e1600077.	10.3	27
15	Microcontact printing and microspotting as methods for direct protein patterning on plasma deposited polyethylene oxide: application to stem cell patterning. <i>Biomedical Microdevices</i> , 2013, 15, 495-507.	2.8	24
16	Bulk acoustic wave affinity biosensor for genetically modified organisms detection. <i>IEEE Sensors Journal</i> , 2003, 3, 369-375.	4.7	23
17	Detection of highly repeated sequences in non-amplified genomic DNA by bulk acoustic wave (BAW) affinity biosensor. <i>Analytica Chimica Acta</i> , 2004, 526, 19-25.	5.4	23
18	Tailoring plasmonic response by Langmuir-Blodgett gold nanoparticle templating for the fabrication of SERS substrates. <i>Applied Surface Science</i> , 2018, 447, 416-422.	6.1	22

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19	Functionalized Surfaces with Tailored Wettability Determine Influenza A Infectivity. ACS Applied Materials & Interfaces, 2016, 8, 15058-15066.	8.0	21
20	Surface plasmon resonance imaging as a multidimensional surface characterization instrumentâ€”Application to biochip genotyping. Analytica Chimica Acta, 2006, 573-574, 333-340.	5.4	18
21	Large-scale Fabrication of Bi-functional Nanostructured Polymer Surfaces for Selective Biomolecular Adhesion. Small, 2008, 4, 1919-1924.	10.0	18
22	Sensitivity Enhancement of Surface Plasmon Resonance Imaging by Nanoarrayed Organothiols. Advanced Materials, 2008, 20, 2352-2358.	21.0	17
23	Effects of fullerene on lipid bilayers displaying different liquid ordering: a coarse-grained molecular dynamics study. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2872-2882.	2.4	15
24	Lipid Vesicle Interaction with Hydrophobic Surfaces: A Coarse-Grained Molecular Dynamics Study. Langmuir, 2016, 32, 12632-12640.	3.5	11
25	Assessing the optimal conditions for surface-mediated disinfection of Influenza A virus solutions. Environmental Chemistry, 2017, 14, 319.	1.5	8
26	Phase transition of pNIPAM grafted on plasma-activated PEO monitored in-situ by quartz crystal microbalance. Journal of Physics: Conference Series, 2008, 100, 012033.	0.4	6
27	Direct and Fast Assessment of Antimicrobial Surface Activity Using Molecular Dynamics Simulation and Time-Lapse Imaging. Analytical Chemistry, 2020, 92, 6795-6800.	6.5	5
28	Formation of Viscoelastic Protein Droplets on a Chemically Functionalized Surface. Journal of Physical Chemistry B, 2007, 111, 8713-8716.	2.6	4
29	Label-free, scalable and point-of-care imaging platform for rapid analysis of biomarker. , 2019, , .		1
30	Bioadhesive nanoareas in antifouling matrix for highly efficient affinity sensors. Proceedings of SPIE, 2008, , .	0.8	0
31	The Next Generation CCD or CMOS Lens-free Microscopy for Bio-medical and Material Processing Analysis. , 2014, , .		0
32	Microbalance sensor applications using the piezoelectric crystal material GaPO. , 2004, , .		0