Ana Ruiz

List of Publications by Year
in descending order

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38 papers	1,112 citations	430874 18 h-index	414414 32 g-index
38 all docs	38 docs citations	38 times ranked	1989 citing authors

#	Article	IF	Citations
1	Microglia convert aggregated amyloid-Î² into neurotoxic forms through the shedding of microvesicles. Cell Death and Differentiation, 2014, 21, 582-593.	11.2	219
2	Inactivation of Bacteria and Biomolecules by Lowâ€Pressure Plasma Discharges. Plasma Processes and Polymers, 2010, 7, 327-352.	3.0	137
3	Micro-stamped surfaces for the patterned growth of neural stem cells. Biomaterials, 2008, 29, 4766-4774.	11.4	95
4	Surface activation by Pt-nanoclusters on titania for gas sensing applications. Materials Science and Engineering C, 2002, 19, 105-109.	7.3	82
5	Study of the influence of Nb content and sintering temperature on TiO2 sensing films. Thin Solid Films, 2003, 436, 90-94.	1.8	64
6	Fabrication and Characterization of Plasma Processed Surfaces with Tuned Wettability. Langmuir, 2007, 23, 12984-12989.	3.5	46
7	Indentation size effects of ferritic/martensitic steels: A comparative experimental and modelling study. Materials and Design, 2018, 145, 168-180.	7.0	44
8	Testing AÎ² toxicity on primary CNS cultures using drug-screening microfluidic chips. Lab on A Chip, 2014, 14, 2860-2866.	6.0	39
9	Fabrication and characterization of protein arrays for stem cell patterning. Soft Matter, 2009, 5, 1406.	2.7	30
10	High temperature nano-indentation of tungsten: Modelling and experimental validation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 106-113.	5.6	30
11	Neural stem cells from human cord blood on bioengineered surfacesâ€"Novel approach to multiparameter bio-tests. Toxicology, 2010, 270, 35-42.	4.2	26
12	Overflow Microfluidic Networks: Application to the Biochemical Analysis of Brain Cell Interactions in Complex Neuroinflammatory Scenarios. Analytical Chemistry, 2012, 84, 9833-9840.	6.5	25
13	Controlled micropatterning of biomolecules for cell culturing. Microelectronic Engineering, 2007, 84, 1733-1736.	2.4	24
14	Microcontact printing and microspotting as methods for direct protein patterning on plasma deposited polyethylene oxide: application to stem cell patterning. Biomedical Microdevices, 2013, 15, 495-507.	2.8	24
15	Improvement of the gas sensor response via silicon Î¼-preconcentrator. Sensors and Actuators B: Chemical, 2007, 127, 288-294.	7.8	23
16	Stressâ^'strain curves and derived mechanical parameters of P91 steel from spherical nanoindentation at a range of temperatures. Materials and Design, 2020, 194, 108950.	7.0	21
17	Surface properties of differently prepared ultrananocrystalline diamond surfaces. Diamond and Related Materials, 2009, 18, 745-749.	3.9	20
18	Nanosized Nb-TiO/sub 2/ gas sensors derived from alkoxides hydrolization. IEEE Sensors Journal, 2003, 3, 189-194.	4.7	19

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19	Overflow Microfluidic Networks for Open and Closed Cell Cultures on Chip. Analytical Chemistry, 2010, 82, 3936-3942.	6.5	18
20	Round Robin into Best Practices for the Determination of Indentation Size Effects. Nanomaterials, 2020, 10, 130.	4.1	18
21	Atomic force microscopy indentation of fluorocarbon thin films fabricated by plasma enhanced chemical deposition at low radio frequency power. Thin Solid Films, 2009, 517, 3310-3314.	1.8	17
22	Large-area protein nano-arrays patterned by soft lithography. Nanotechnology, 2007, 18, 505306.	2.6	14
23	Characterization of a Lowâ€pressure Inductively Coupled Plasma Discharge Sustained in Ar/O₂/N₂ Ternary Mixtures and Evaluation of its Effect on Erosion of Biological Samples. Plasma Processes and Polymers, 2011, 8, 1137-1145.	3.0	14
24	Impact of hydrogen on the high cycle fatigue behaviour of Inconel 718 in asymmetric pushâ€“pull mode at room temperature. International Journal of Fatigue, 2015, 70, 137-145.	5.7	14
25	Stem-cell culture on patterned bio-functional surfaces. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 1649-1657.	3.5	11
26	Surface Functionalization for Protein and Cell Patterning. , 2009, 117, 109-130.		6
27	Quantification of protein immobilization on substrates for cellular microarray applications. Journal of Biomedical Materials Research - Part A, 2011, 98A, 245-256.	4.0	6
28	Corrosion and microstructural analysis data for AISI 316L and AISI 347H stainless steels after exposure to a supercritical water environment. Data in Brief, 2016, 7, 1341-1348.	1.0	6
29	Depth-Sensing Hardness Measurements to Probe Hardening Behaviour and Dynamic Strain Ageing Effects of Iron during Tensile Pre-Deformation. Nanomaterials, 2021, 11, 71.	4.1	6
30	Largeâ€Area, Nanoimprintâ€Assisted Microcontact Stripping for the Fabrication of Microarrays of Fouling/Nonfouling Nanostructures. Small, 2009, 5, 1133-1137.	10.0	3
31	Neural Stem Cell Fate Control on Micropatterned Substrates. Neuromethods, 2017, , 19-44.	0.3	3
32	A methodology to investigate heterogeneous oxidation of thermally aged crossâ€linked polyethylene by ToFâ€SIMS. Surface and Interface Analysis, 2020, 52, 1178-1184.	1.8	3
33	Elimination of Pathogenic Biological Residuals by Means of Low-Pressure Inductively Coupled Plasma Discharge. , 0, , 193-199.		3
34	Microsystems for the agrofood field. Journal of Physics: Conference Series, 2005, 10, 267-272.	0.4	2
35	Silicon μ-preconcentrator for improved gas detection. , 2007, , .		0
36	Biofunctionalized Surfaces Controlling Stem Cell Fate Decisions. , 2011, , 267-302.		0

#	Article	IF	Citations
37	Impact of High-Pressure Gaseous Hydrogen on the Fatigue Behaviour of Austenitic Steel A-286 under Asymmetric Loading Conditions. Key Engineering Materials, 0, 664, 156-167.	0.4	0
38	Novel Fabrication Routes of Metallic Micromembranes for In Situ Mechanical Testing. Metals, 2022, 12, 468.	2.3	0