Patricia Rico

List of Publications by Year in descending order

38 papers	1,100 citations	394421 19 h-index	414414 32 g-index
44 all docs	44 docs citations	44 times ranked	1562 citing authors

#	Article	IF	Citations
1	Role of material-driven fibronectin fibrillogenesis in cell differentiation. Biomaterials, 2011, 32, 2099-2105.	11.4	122
2	Effect of nanoscale topography on fibronectin adsorption, focal adhesion size and matrix organisation. Colloids and Surfaces B: Biointerfaces, 2010, 77, 181-190.	5.0	108
3	Substrate-Induced Assembly of Fibronectin into Networks: Influence of Surface Chemistry and Effect on Osteoblast Adhesion. Tissue Engineering - Part A, 2009, 15, 3271-3281.	3.1	91
4	Role of Surface Chemistry in Protein Remodeling at the Cell-Material Interface. PLoS ONE, 2011, 6, e19610.	2.5	78
5	Engineered 3D hydrogels with full-length fibronectin that sequester and present growth factors. Biomaterials, 2020, 252, 120104.	11.4	64
6	Role of superhydrophobicity in the biological activity of fibronectin at the cellâ€“material interface. Soft Matter, 2011, 7, 10803.	2.7	58
7	Insights into the Selective Pressures Restricting Pelargonium Flower Break Virus Genome Variability: Evidence for Host Adaptation. Journal of Virology, 2006, 80, 8124-8132.	3.4	56
8	Subtle variations in polymer chemistry modulate substrate stiffness and fibronectin activity. Soft Matter, 2010, 6, 4748.	2.7	41
9	Effect of in situ formed hydroxyapatite on microstructure of freeze-gelled chitosan-based biocomposite scaffolds. European Polymer Journal, 2015, 68, 278-287.	5.4	34
10	Controlled wettability, same chemistry: biological activity of plasma-polymerized coatings. Soft Matter, 2012, 8, 5575.	2.7	30
11	Effect of topological cues on material-driven fibronectin fibrillogenesis and cell differentiation. Journal of Materials Science: Materials in Medicine, 2012, 23, 195-204.	3.6	30
12	Complete nucleotide sequence and genome organization of Pelargonium flower break virus. Archives of Virology, 2004, 149, 641-651.	2.1	25
13	Fibronectin Distribution on Demixed Nanoscale Topographies. International Journal of Artificial Organs, 2011, 34, 54-63.	1.4	25
14	Assessment of the parameters influencing the fiber characteristics of electrospun poly(ethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	5.4	24
15	Materialâ€Driven Fibronectin Assembly Promotes Maintenance of Mesenchymal Stem Cell Phenotypes. Advanced Functional Materials, 2016, 26, 6563-6573.	14.9	23
16	Zinc uptake promotes myoblast differentiation via Zip7 transporter and activation of Akt signalling transduction pathway. Scientific Reports, 2018, 8, 13642.	3.3	22
17	Fibrinogen Patterns and Activity on Substrates with Tailored Hydroxy Density. Macromolecular Bioscience, 2009, 9, 766-775.	4.1	21
18	Role of Material-Driven Fibronectin Fibrillogenesis in Protein Remodeling. BioResearch Open Access, 2013, 2, 364-373.	2.6	21

#	Article	IF	Citations
19	Development of a Ta/TaN/TaNx(Ag)y/TaN nanocomposite coating system and bio-response study for biomedical applications. Vacuum, 2017, 145, 55-67.	3.5	20
20	In Situ Hydroxyapatite Content Affects the Cell Differentiation on Porous Chitosan/Hydroxyapatite Scaffolds. Annals of Biomedical Engineering, 2016, 44, 1107-1119.	2.5	19
21	Borax-Loaded PLLA for Promotion of Myogenic Differentiation. Tissue Engineering - Part A, 2015, 21, 2662-2672.	3.1	17
22	Molecular assembly and biological activity of a recombinant fragment of fibronectin (FNIII7â€“10) on poly(ethyl acrylate). Colloids and Surfaces B: Biointerfaces, 2010, 78, 310-316.	5.0	16
23	Controlled Assembly of Fibronectin Nanofibrils Triggered by Random Copolymer Chemistry. ACS Applied Materials & Interfaces, 2015, 7, 18125-18135.	8.0	16
24	Living biointerfaces based on non-pathogenic bacteria to direct cell differentiation. Scientific Reports, 2014, 4, 5849.	3.3	15
25	Development of multilayer Hydroxyapatite - Ag/TiN-Ti coatings deposited by radio frequency magnetron sputtering with potential application in the biomedical field. Surface and Coatings Technology, 2019, 377, 124856.	4.8	14
26	Dorsal and Ventral Stimuli in Cellâ€“Material Interactions: Effect on Cell Morphology. Biointerphases, 2012, 7, 39.	1.6	13
27	Functional Living Biointerphases. Advanced Healthcare Materials, 2013, 2, 1213-1218.	7.6	12
28	Simultaneous Boron Ionâ€Channel/Growth Factor Receptor Activation for Enhanced Vascularization. Advanced Biology, 2019, 3, e1800220.	3.0	12
29	MC3T3-E1 Cell Response to Ti_{1â€“x}Ag_x and Ag-TiN_x Electrodes Deposited on Piezoelectric Poly(vinylidene fluoride) Substrates for Sensor Applications. ACS Applied Materials & Interfaces, 2016, 8, 4199-4207.	8.0	10
30	Borax-loaded injectable alginate hydrogels promote muscle regeneration in vivo after an injury. Materials Science and Engineering C, 2021, 123, 112003.	7.3	10
31	MC3T3-E1 cell response to microporous tantalum oxide surfaces enriched with Ca, P and Mg. Materials Science and Engineering C, 2021, 124, 112008.	7.3	10
32	Characterization of the subgenomic RNAs produced by Pelargonium flower break virus: Identification of two novel RNAs species. Virus Research, 2009, 142, 100-107.	2.2	9
33	Cell migration within confined sandwich-like nanoenvironments. Nanomedicine, 2015, 10, 815-828.	3.3	9
34	Borax induces osteogenesis by stimulating NaBC1 transporter via activation of BMP pathway. Communications Biology, 2020, 3, 717.	4.4	8
35	Zinc Maintains Embryonic Stem Cell Pluripotency and Multilineage Differentiation Potential via AKT Activation. Frontiers in Cell and Developmental Biology, 2019, 7, 180.	3.7	7
36	Lithium Directs Embryonic Stem Cell Differentiation Into Hemangioblastâ€Like Cells. Advanced Biology, 2021, 5, 2000569.	2.5	1

#	Article	IF	Citations
37	Bioinspired Microenvironments: Material-Driven Fibronectin Assembly Promotes Maintenance of Mesenchymal Stem Cell Phenotypes (Adv. Funct. Mater. 36/2016). Advanced Functional Materials, 2016, 26, 6671-6671.	14.9	0
38	Boron Ions: Simultaneous Boron Ionâ€Channel/Growth Factor Receptor Activation for Enhanced Vascularization (Adv. Biosys. 1/2019). Advanced Biology, 2019, 3, 1970014.	3.0	0