Joost te Riet

List of Publications by Year in descending order

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34 papers	2,842 citations	331642 21 h-index	377849 34 g-index
36 all docs	36 docs citations	36 times ranked	5039 citing authors

#	Article	IF	Citations
1	Physical limits of cell migration: Control by ECM space and nuclear deformation and tuning by proteolysis and traction force. Journal of Cell Biology, 2013, 201, 1069-1084.	5.2	1,123
2	The threshold at which substrate nanogroove dimensions may influence fibroblast alignment and adhesion. Biomaterials, 2007, 28, 3944-3951.	11.4	311
3	The influence of nanoscale grooved substrates on osteoblast behavior and extracellular matrix deposition. Biomaterials, 2010, 31, 3307-3316.	11.4	200
4	Probing the compressibility of tumor cell nuclei by combined atomic forceâ€“confocal microscopy. Physical Biology, 2013, 10, 065002.	1.8	120
5	Interlaboratory round robin on cantilever calibration for AFM force spectroscopy. Ultramicroscopy, 2011, 111, 1659-1669.	1.9	110
6	The osteogenic effect of electrosprayed nanoscale collagen/calcium phosphate coatings on titanium. Biomaterials, 2010, 31, 2461-2469.	11.4	106
7	Actin-binding proteins differentially regulate endothelial cell stiffness, ICAM-1 function and neutrophil transmigration. Journal of Cell Science, 2014, 127, 4470-82.	2.0	89
8	Mast cells and dendritic cells form synapses that facilitate antigen transfer for T cell activation. Journal of Cell Biology, 2015, 210, 851-864.	5.2	74
9	Geometry sensing by dendritic cells dictates spatial organization and PGE2-induced dissolution of podosomes. Cellular and Molecular Life Sciences, 2012, 69, 1889-1901.	5.4	72
10	The interaction between nanoscale surface features and mechanical loading and its effect on osteoblast-like cells behavior. Biomaterials, 2010, 31, 7758-7765.	11.4	66
11	Cell migration through three-dimensional confining pores: speed accelerations by deformation and recoil of the nucleus. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180225.	4.0	62
12	Manufacturing substrate nano-grooves for studying cell alignment and adhesion. Microelectronic Engineering, 2008, 85, 1362-1366.	2.4	44
13	Dynamic coupling of ALCAM to the actin cortex strengthens cell adhesion to CD6. Journal of Cell Science, 2014, 127, 1595-606.	2.0	39
14	Distinct kinetic and mechanical properties govern ALCAM-mediated interactions as shown by single-molecule force spectroscopy. Journal of Cell Science, 2007, 120, 3965-3976.	2.0	38
15	Semaphorin 7A Promotes Chemokine-Driven Dendritic Cell Migration. Journal of Immunology, 2016, 196, 459-468.	0.8	35
16	Syntenin-1 and Ezrin Proteins Link Activated Leukocyte Cell Adhesion Molecule to the Actin Cytoskeleton. Journal of Biological Chemistry, 2014, 289, 13445-13460.	3.4	34
17	Evaluation of a Bayesian penalized likelihood reconstruction algorithm for low-count clinical 18F-FDG PET/CT. EJNMMI Physics, 2019, 6, 32.	2.7	30
18	Molecular Friction as a Tool to Identify Functionalized Alkanethiols. Langmuir, 2010, 26, 6357-6366.	3.5	27

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19	Increased acellular and cellular surface mineralization induced by nanogrooves in combination with a calcium-phosphate coating. Acta Biomaterialia, 2016, 31, 368-377.	8.3	27
20	Actin-binding proteins differentially regulate endothelial cell stiffness, ICAM-1 function and neutrophil transmigration. Journal of Cell Science, 2014, 127, 4985-4985.	2.0	25
21	Enzymatic pH control for biomimetic deposition of calcium phosphate coatings. Acta Biomaterialia, 2014, 10, 931-939.	8.3	21
22	Bone marrow-derived mesenchymal cells feature selective migration behavior on submicro- and nano-dimensional multi-patterned substrates. Acta Biomaterialia, 2015, 16, 117-125.	8.3	21
23	Regulation of Periodontal Ligament Cell Behavior by Cyclic Mechanical Loading and Substrate Nanotexture. Journal of Periodontology, 2013, 84, 1504-1513.	3.4	20
24	N-glycan mediated adhesion strengthening during pathogen-receptor binding revealed by cell-cell force spectroscopy. Scientific Reports, 2017, 7, 6713.	3.3	19
25	Influence of nanostructural environment and fluid flow on osteoblast-like cell behavior: A model for cell-mechanics studies. Acta Biomaterialia, 2013, 9, 6653-6662.	8.3	18
26	Substrate Nanotexture and Hypergravity Through Centrifugation Enhance Initial Osteoblastogenesis. Tissue Engineering - Part A, 2013, 19, 114-124.	3.1	16
27	AFM force spectroscopy reveals how subtle structural differences affect the interaction strength betweenCandida albicansand DC-SIGN. Journal of Molecular Recognition, 2015, 28, 687-698.	2.1	15
28	Nanogrooved Surface-Patterns induce cellular organization and axonal outgrowth in neuron-like PC12-Cells. Hearing Research, 2015, 320, 11-17.	2.0	15
29	Residual stress evaluation within hydroxyapatite coatings of different micrometer thicknesses. Surface and Coatings Technology, 2015, 266, 177-182.	4.8	13
30	Biophysical Characterization of CD6â€"TCR/CD3 Interplay in T Cells. Frontiers in Immunology, 2018, 9, 2333.	4.8	12
31	AFM topography and friction studies of hydrogen-bonded bilayers of functionalized alkanethiols. Soft Matter, 2010, 6, 3450.	2.7	8
32	Nanometer-grooved topography stimulates trabecular bone regeneration around a concave implant in a rat femoral medulla model. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 2283-2290.	3.3	7
33	Nanostructured substrate conformation can decrease osteoblast-like cell dysfunction in simulated microgravity conditions. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 978-988.	2.7	5
34	A Radially Organized Multipatterned Device as a Diagnostic Tool for the Screening of Topographies in Tissue Engineering Biomaterials. Tissue Engineering - Part C: Methods, 2016, 22, 914-922.	2.1	5