Yiwen Hu

List of Publications by Year
in descending order

25 papers	2,901 citations	361413 20 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	3994 citing authors

#	Article	IF	Citations
1	Impact of Order and Disorder in RGD Nanopatterns on Cell Adhesion. Nano Letters, 2009, 9, 1111-1116.	9.1	501
2	Cellâ€“Material Interactions Revealed Via Material Techniques of Surface Patterning. Advanced Materials, 2013, 25, 5257-5286.	21.0	424
3	Matrix Stiffness and Nanoscale Spatial Organization of Cell-Adhesive Ligands Direct Stem Cell Fate. Nano Letters, 2015, 15, 4720-4729.	9.1	275
4	Effect of cell anisotropy on differentiation of stem cells on micropatterned surfaces through the controlled single cell adhesion. Biomaterials, 2011, 32, 8048-8057.	11.4	264
5	Effect of RGD nanospacing on differentiation of stem cells. Biomaterials, 2013, 34, 2865-2874.	11.4	175
6	Fabrication of RGD Micro/Nanopattern and Corresponding Study of Stem Cell Differentiation. Nano Letters, 2015, 15, 1457-1467.	9.1	170
7	Effects of immobilizing sites of RGD peptides in amphiphilic block copolymers on efficacy of cell adhesion. Biomaterials, 2010, 31, 7873-7882.	11.4	157
8	Interplay of Matrix Stiffness and Cellâ€“Cell Contact in Regulating Differentiation of Stem Cells. ACS Applied Materials & Interfaces, 2016, 8, 21903-21913.	8.0	111
9	Effects of surface molecular chirality on adhesion and differentiation of stem cells. Biomaterials, 2013, 34, 9001-9009.	11.4	110
10	Strategy of Metalâ€“Polymer Composite Stent To Accelerate Biodegradation of Iron-Based Biomaterials. ACS Applied Materials & Interfaces, 2018, 10, 182-192.	8.0	100
11	Subcellular cell geometry on micropillars regulates stem cell differentiation. Biomaterials, 2016, 111, 27-39.	11.4	88
12	Design and synthesis of a potent peptide containing both specific and non-specific cell-adhesion motifs. Biomaterials, 2010, 31, 4809-4817.	11.4	75
13	Effects of cellâ€“cell contact and oxygen tension on chondrogenic differentiation of stem cells. Biomaterials, 2015, 64, 21-32.	11.4	71
14	Effects of Nanoscale Spatial Arrangement of Arginineâ€“Glycineâ€“Aspartate Peptides on Dedifferentiation of Chondrocytes. Nano Letters, 2015, 15, 7755-7765.	9.1	62
15	Nonmonotonic Self-Deformation of Cell Nuclei on Topological Surfaces with Micropillar Array. ACS Applied Materials & Interfaces, 2017, 9, 18521-18530.	8.0	53
16	Biomaterialâ€“Related Cell Microenvironment in Tissue Engineering and Regenerative Medicine. Engineering, 2022, 13, 31-45.	6.7	42
17	Effects of Microstripe Geometry on Guided Cell Migration. ACS Applied Materials & Interfaces, 2020, 12, 27971-27983.	8.0	40
18	Critical Areas of Proliferation of Single Cells on Micropatterned Surfaces and Corresponding Cell Type Dependence. ACS Applied Materials & Interfaces, 2019, 11, 15366-15380.	8.0	37

#	Article	IF	Citations
19	Cell orientation on a stripe-micropatterned surface. Science Bulletin, 2009, 54, 3154-3159.	1.7	35
20	Exploration of possible cell chirality using material techniques of surface patterning. Acta Biomaterialia, 2021, 126, 92-108.	8.3	32
21	Cell Type and Nuclear Size Dependence of the Nuclear Deformation of Cells on a Micropillar Array. Langmuir, 2019, 35, 7469-7477.	3.5	20
22	Coordination Insertion Mechanism of <scp>Ringâ€Opening</scp> Polymerization of Lactide Catalyzed by Stannous Octoate^{â€}. Chinese Journal of Chemistry, 2021, 39, 1965-1974.	4.9	20
23	Sugarâ€fiber Imprinting to Generate Microgrooves on Polymeric Film Surfaces for Contact Guidance of Cells. Chinese Journal of Chemistry, 2012, 30, 2292-2296.	4.9	15
24	Leftâ€Right Symmetry or Asymmetry of Cells on Stripeâ€Like Micropatterned Material Surfaces. Chinese Journal of Chemistry, 2018, 36, 605-611.	4.9	13
25	Physical modification of the interior surfaces of PLGA porous scaffolds using sugar fibers as template. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 447-459.	3.5	11