

Matthew Dalby

List of Publications by Year in descending order

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Version: 2024-02-01

220
papers

17,275
citations

15880

67
h-index

17891

125
g-index

232
all docs

232
docs citations

232
times ranked

17362
citing authors

#	ARTICLE	IF	CITATIONS
1	An ossifying landscape: materials and growth factor strategies for osteogenic signalling and bone regeneration. <i>Current Opinion in Biotechnology</i> , 2022, 73, 355-363.	3.3	6
2	Materials-driven fibronectin assembly on nanoscale topography enhances mesenchymal stem cell adhesion, protecting cells from bacterial virulence factors and preventing biofilm formation. <i>Biomaterials</i> , 2022, 280, 121263.	5.7	21
3	The influence of nanotopography on cell behaviour through interactions with the extracellular matrix – A review. <i>Bioactive Materials</i> , 2022, 15, 145-159.	8.6	48
4	Current insights into the bone marrow niche: From biology in vivo to bioengineering ex vivo. <i>Biomaterials</i> , 2022, 286, 121568.	5.7	16
5	Cell-controlled dynamic surfaces for skeletal stem cell growth and differentiation. <i>Scientific Reports</i> , 2022, 12, 8165.	1.6	3
6	Living Biointerfaces for the Maintenance of Mesenchymal Stem Cell Phenotypes. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	4
7	Material-driven fibronectin and vitronectin assembly enhances BMP-2 presentation and osteogenesis. <i>Materials Today Bio</i> , 2022, 16, 100367.	2.6	5
8	A Metabolomics-Based Approach to Identify Lineage Guiding Molecules in Pericyte Cultures. <i>Methods in Molecular Biology</i> , 2021, 2235, 47-59.	0.4	0
9	You Talking to Me? Cadherin and Integrin Crosstalk in Biomaterial Design. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002048.	3.9	28
10	The use of nanovibration to discover specific and potent bioactive metabolites that stimulate osteogenic differentiation in mesenchymal stem cells. <i>Science Advances</i> , 2021, 7, .	4.7	22
11	A tough act to follow: collagen hydrogel modifications to improve mechanical and growth factor loading capabilities. <i>Materials Today Bio</i> , 2021, 10, 100098.	2.6	114
12	Populating preterm infants with probiotics. <i>Cell Reports Medicine</i> , 2021, 2, 100224.	3.3	2
13	A Hydrogel Platform that Incorporates Laminin Isoforms for Efficient Presentation of Growth Factors – Neural Growth and Osteogenesis. <i>Advanced Functional Materials</i> , 2021, 31, 2010225.	7.8	21
14	Biochemical and Biophysical Induced Barrierogenesis in the Blood–Brain Barrier: A Review of Barrierogenic Factors for Use in In Vitro Models. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000068.	1.7	2
15	Nanofibrous Gelatin-Based Biomaterial with Improved Biomimicry Using D-Periodic Self-Assembled Atelocollagen. <i>Biomimetics</i> , 2021, 6, 20.	1.5	5
16	Hydrogel Platforms: A Hydrogel Platform that Incorporates Laminin Isoforms for Efficient Presentation of Growth Factors – Neural Growth and Osteogenesis (Adv. Funct. Mater. 21/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170150.	7.8	3
17	Dynamically Modulated Core–Shell Microfibers to Study the Effect of Depth Sensing of Matrix Stiffness on Stem Cell Fate. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37997-38006.	4.0	10
18	Antibiotic-induced disturbances of the gut microbiota result in accelerated breast tumor growth. <i>IScience</i> , 2021, 24, 103012.	1.9	41

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19	Biophysical phenotyping of mesenchymal stem cells along the osteogenic differentiation pathway. <i>Cell Biology and Toxicology</i> , 2021, 37, 915-933.	2.4	8
20	Nanovibrational stimulation inhibits osteoclastogenesis and enhances osteogenesis in co-cultures. <i>Scientific Reports</i> , 2021, 11, 22741.	1.6	3
21	The Plot Thickens: The Emerging Role of Matrix Viscosity in Cell Mechanotransduction. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901259.	3.9	75
22	Customizable, engineered substrates for rapid screening of cellular cues. <i>Biofabrication</i> , 2020, 12, 025009.	3.7	14
23	Engineered Full-length Fibronectin-Hyaluronic Acid Hydrogels for Stem Cell Engineering. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000989.	3.9	28
24	Microbiota Supplementation with Bifidobacterium and Lactobacillus Modifies the Preterm Infant Gut Microbiota and Metabolome: An Observational Study. <i>Cell Reports Medicine</i> , 2020, 1, 100077.	3.3	119
25	Nanovibrational Stimulation of Mesenchymal Stem Cells Induces Therapeutic Reactive Oxygen Species and Inflammation for Three-Dimensional Bone Tissue Engineering. <i>ACS Nano</i> , 2020, 14, 10027-10044.	7.3	33
26	Engineered 3D hydrogels with full-length fibronectin that sequester and present growth factors. <i>Biomaterials</i> , 2020, 252, 120104.	5.7	64
27	Nanopatterned Titanium Implants Accelerate Bone Formation In Vivo. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33541-33549.	4.0	35
28	Chiral Tartaric Acid Improves Fracture Toughness of Bioactive Brushite-Collagen Bone Cements. <i>ACS Applied Bio Materials</i> , 2020, 3, 5056-5066.	2.3	4
29	The early life microbiota protects neonatal mice from pathological small intestinal epithelial cell shedding. <i>FASEB Journal</i> , 2020, 34, 7075-7088.	0.2	27
30	Plasma polymerised nanoscale coatings of controlled thickness for efficient solid-phase presentation of growth factors. <i>Materials Science and Engineering C</i> , 2020, 113, 110966.	3.8	17
31	Hurdles to uptake of mesenchymal stem cells and their progenitors in therapeutic products. <i>Biochemical Journal</i> , 2020, 477, 3349-3366.	1.7	11
32	Chondrobags: A high throughput alginate-fibronectin micromass platform for in vitro human cartilage formation. <i>Biofabrication</i> , 2020, 12, 045034.	3.7	10
33	Design, construction and characterisation of a novel nanovibrational bioreactor and cultureware for osteogenesis. <i>Scientific Reports</i> , 2019, 9, 12944.	1.6	17
34	High Efficiency BMP-2 Coatings: Nanoscale Coatings for Ultralow Dose BMP-2-Driven Regeneration of Critical-Sized Bone Defects (<i>Adv. Sci.</i> 2/2019). <i>Advanced Science</i> , 2019, 6, 1970009.	5.6	2
35	Mechanotransduction and Growth Factor Signaling in Hydrogel-Based Microenvironments. , 2019, , 87-87.		1
36	Tissue Engineering: Functionalization of PLLA with Polymer Brushes to Trigger the Assembly of Fibronectin into Nanonetworks (<i>Adv. Healthcare Mater.</i> 3/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970010.	3.9	5

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37	Nanoscale Coatings for Ultralow Dose BMP-Driven Regeneration of Critical-Sized Bone Defects. <i>Advanced Science</i> , 2019, 6, 1800361.	5.6	50
38	Multifunctional Coatings and Nanotopographies: Toward Cell Instructive and Antibacterial Implants. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801103.	3.9	172
39	Hybrid core-shell scaffolds for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2019, 14, 025008.	1.7	30
40	Functionalization of PLLA with Polymer Brushes to Trigger the Assembly of Fibronectin into Nanonetworks. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801469.	3.9	15
41	Engineered coatings for titanium implants to present ultra-low doses of BMP-7. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1812-1819.	2.6	29
42	Control of cell behaviour through nanovibrational stimulation: nanokicking. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170290.	1.6	23
43	Receptor control in mesenchymal stem cell engineering. <i>Nature Reviews Materials</i> , 2018, 3, .	23.3	96
44	The Prismatic Topography of <i>Pinctada maxima</i> Shell Retains Stem Cell Multipotency and Plasticity In Vitro. <i>Advanced Biology</i> , 2018, 2, 1800012.	3.0	6
45	Current approaches for modulation of the nanoscale interface in the regulation of cell behavior. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2455-2464.	1.7	22
46	Mesenchymal stem cell-derived extracellular vesicles may promote breast cancer cell dormancy. <i>Journal of Tissue Engineering</i> , 2018, 9, 204173141881009.	2.3	32
47	Biomimetic oyster shell-replicated topography alters the behaviour of human skeletal stem cells. <i>Journal of Tissue Engineering</i> , 2018, 9, 204173141879400.	2.3	17
48	Designing stem cell niches for differentiation and self-renewal. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180388.	1.5	107
49	Bacteria-Based Materials for Stem Cell Engineering. <i>Advanced Materials</i> , 2018, 30, e1804310.	11.1	52
50	Daytime variations in perioperative myocardial injury. <i>Lancet, The</i> , 2018, 391, 2105-2106.	6.3	1
51	Biogelx: Cell Culture on Self-Assembling Peptide Gels. <i>Methods in Molecular Biology</i> , 2018, 1777, 283-303.	0.4	13
52	Impact of surface topography and coating on osteogenesis and bacterial attachment on titanium implants. <i>Journal of Tissue Engineering</i> , 2018, 9, 204173141879069.	2.3	139
53	Osteoblast response to disordered nanotopography. <i>Journal of Tissue Engineering</i> , 2018, 9, 204173141878409.	2.3	31
54	Nanoparticle-antagomiR based targeting of miR-31 to induce osterix and osteocalcin expression in mesenchymal stem cells. <i>PLoS ONE</i> , 2018, 13, e0192562.	1.1	17

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55	Engineered microenvironments for synergistic VEGF & Integrin signalling during vascularization. <i>Biomaterials</i> , 2017, 126, 61-74.	5.7	61
56	Magnetically levitated mesenchymal stem cell spheroids cultured with a collagen gel maintain phenotype and quiescence. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141770442.	2.3	55
57	Cell migration on material-driven fibronectin microenvironments. <i>Biomaterials Science</i> , 2017, 5, 1326-1333.	2.6	23
58	Bone and cartilage differentiation of a single stem cell population driven by material interface. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141770561.	2.3	9
59	Confined Sandwichlike Microenvironments Tune Myogenic Differentiation. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1710-1718.	2.6	5
60	Stimulation of 3D osteogenesis by mesenchymal stem cells using a nanovibrational bioreactor. <i>Nature Biomedical Engineering</i> , 2017, 1, 758-770.	11.6	77
61	Development of a Virtual Cell Model to Predict Cell Response to Substrate Topography. <i>ACS Nano</i> , 2017, 11, 9084-9092.	7.3	33
62	Improving cartilage phenotype from differentiated pericytes in tunable peptide hydrogels. <i>Scientific Reports</i> , 2017, 7, 6895.	1.6	23
63	Towards the cell-instructive bactericidal substrate: exploring the combination of nanotopographical features and integrin selective synthetic ligands. <i>Scientific Reports</i> , 2017, 7, 16363.	1.6	28
64	Nacre Topography Produces Higher Crystallinity in Bone than Chemically Induced Osteogenesis. <i>ACS Nano</i> , 2017, 11, 6717-6727.	7.3	40
65	Nanotopography controls cell cycle changes involved with skeletal stem cell self-renewal and multipotency. <i>Biomaterials</i> , 2017, 116, 10-20.	5.7	49
66	Mesenchymal Stem Cell Fate: Applying Biomaterials for Control of Stem Cell Behavior. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 38.	2.0	60
67	Protein Adsorption as a Key Mediator in the Nanotopographical Control of Cell Behavior. <i>ACS Nano</i> , 2016, 10, 6638-6647.	7.3	105
68	Nanopit-induced osteoprogenitor cell differentiation: The effect of nanopit depth. <i>Journal of Tissue Engineering</i> , 2016, 7, 204173141665277.	2.3	20
69	Production of Nanoscale Vibration for Stimulation of Human Mesenchymal Stem Cells. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1478-1488.	0.5	11
70	Tunable Supramolecular Hydrogels for Selection of Lineage-Guiding Metabolites in Stem Cell Cultures. <i>CheM</i> , 2016, 1, 298-319.	5.8	170
71	Bioinspired Microenvironments: Material-Driven Fibronectin Assembly Promotes Maintenance of Mesenchymal Stem Cell Phenotypes (<i>Adv. Funct. Mater.</i> 36/2016). <i>Advanced Functional Materials</i> , 2016, 26, 6671-6671.	7.8	0
72	Synergistic growth factor microenvironments. <i>Chemical Communications</i> , 2016, 52, 13327-13336.	2.2	46

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73	Material-Driven Fibronectin Assembly Promotes Maintenance of Mesenchymal Stem Cell Phenotypes. <i>Advanced Functional Materials</i> , 2016, 26, 6563-6573.	7.8	23
74	Analysis of Osteoclastogenesis/Osteoblastogenesis on Nanotopographical Titania Surfaces. <i>Advanced Healthcare Materials</i> , 2016, 5, 947-955.	3.9	62
75	Thermoresponsive Polymer Micropatterns Fabricated by Dip-Pen Nanolithography for a Highly Controllable Substrate with Potential Cellular Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24844-24852.	4.0	10
76	Osteogenic and bactericidal surfaces from hydrothermal titania nanowires on titanium substrates. <i>Scientific Reports</i> , 2016, 6, 36857.	1.6	100
77	Influence of biomaterial nanotopography on the adhesive and elastic properties of <i>Staphylococcus aureus</i> cells. <i>RSC Advances</i> , 2016, 6, 89347-89355.	1.7	15
78	Material-driven fibronectin assembly for high-efficiency presentation of growth factors. <i>Science Advances</i> , 2016, 2, e1600188.	4.7	104
79	Living biointerfaces based on non-pathogenic bacteria support stem cell differentiation. <i>Scientific Reports</i> , 2016, 6, 21809.	1.6	19
80	Dynamic Surfaces for the Study of Mesenchymal Stem Cell Growth through Adhesion Regulation. <i>ACS Nano</i> , 2016, 10, 6667-6679.	7.3	93
81	A novel metabolomic approach used for the comparison of <i>Staphylococcus aureus</i> planktonic cells and biofilm samples. <i>Metabolomics</i> , 2016, 12, 75.	1.4	53
82	Lateral Chain Length in Polyalkyl Acrylates Determines the Mobility of Fibronectin at the Cell/Material Interface. <i>Langmuir</i> , 2016, 32, 800-809.	1.6	29
83	Use of nanoscale mechanical stimulation for control and manipulation of cell behaviour. <i>Acta Biomaterialia</i> , 2016, 34, 159-168.	4.1	26
84	A Novel Surgical Approach for the Reconstruction of Critical-Size Mandibular Defects Using Calcium Sulphate/Hydroxyapatite Cement, BMP-7 and Mesenchymal Stem Cells-Histological Assessment. <i>Journal of Biomaterials and Tissue Engineering</i> , 2016, 6, 1-11.	0.0	7
85	Using biomaterials to study stem cell mechanotransduction, growth and differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 528-539.	1.3	69
86	Sensing the Difference: The Influence of Anisotropic Cues on Cell Behavior. <i>Frontiers in Materials</i> , 2015, 2, .	1.2	32
87	Photoperiod Regulates Lean Mass Accretion, but Not Adiposity, in Growing F344 Rats Fed a High Fat Diet. <i>PLoS ONE</i> , 2015, 10, e0119763.	1.1	33
88	Nanoscale stimulation of osteoblastogenesis from mesenchymal stem cells: nanotopography and nanokicking. <i>Nanomedicine</i> , 2015, 10, 547-560.	1.7	27
89	Draft Genome Sequence of Isolate <i>Staphylococcus aureus</i> LHSKBclinical, Isolated from an Infected Hip. <i>Genome Announcements</i> , 2015, 3, .	0.8	2
90	Nanotopography and Plasma Treatment: Redesigning the Surface for Vascular Graft Endothelialisation. <i>European Journal of Vascular and Endovascular Surgery</i> , 2015, 49, 335-343.	0.8	33

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91	Comparison of human olfactory and skeletal MSCs using osteogenic nanotopography to demonstrate bone-specific bioactivity of the surfaces. <i>Acta Biomaterialia</i> , 2015, 13, 266-276.	4.1	21
92	Three-dimensional CaP/gelatin lattice scaffolds with integrated osteoinductive surface topographies for bone tissue engineering. <i>Biofabrication</i> , 2015, 7, 015005.	3.7	25
93	Serially coupling hydrophobic interaction and reversed-phase chromatography with simultaneous gradients provides greater coverage of the metabolome. <i>Metabolomics</i> , 2015, 11, 1465-1470.	1.4	35
94	Osteoclastogenesis/osteoblastogenesis using human bone marrow-derived cocultures on nanotopographical polymer surfaces. <i>Nanomedicine</i> , 2015, 10, 949-957.	1.7	20
95	Regulation of stem cell fate by nanomaterial substrates. <i>Nanomedicine</i> , 2015, 10, 829-847.	1.7	65
96	Special focus on nanoscale regeneration. <i>Nanomedicine</i> , 2015, 10, 677-680.	1.7	14
97	Adhesion and migration of cells responding to microtopography. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1659-1668.	2.1	30
98	Cell-Material Interactions. , 2014, , 217-251.		14
99	Nanotopology potentiates growth hormone signalling and osteogenesis of mesenchymal stem cells. <i>Growth Hormone and IGF Research</i> , 2014, 24, 245-250.	0.5	25
100	Osteogenic lineage restriction by osteoprogenitors cultured on nanometric grooved surfaces: The role of focal adhesion maturation. <i>Acta Biomaterialia</i> , 2014, 10, 651-660.	4.1	58
101	Harnessing nanotopography and integrin-matrix interactions to influence stem cell fate. <i>Nature Materials</i> , 2014, 13, 558-569.	13.3	921
102	The Use of Microarrays and Fluorescence In Situ Hybridization for the Study of Mechanotransduction from Topography. <i>Methods in Cell Biology</i> , 2014, 119, 293-309.	0.5	6
103	Nanotopography - potential relevance in the stem cell niche. <i>Biomaterials Science</i> , 2014, 2, 1574-1594.	2.6	47
104	Nanotopographical Induction of Osteogenesis through Adhesion, Bone Morphogenic Protein Cosignaling, and Regulation of MicroRNAs. <i>ACS Nano</i> , 2014, 8, 9941-9953.	7.3	129
105	Different types of soluble fermentable dietary fibre decrease food intake, body weight gain and adiposity in young adult male rats. <i>Nutrition and Metabolism</i> , 2014, 11, 36.	1.3	84
106	Nanotopographical Effects on Mesenchymal Stem Cell Morphology and Phenotype. <i>Journal of Cellular Biochemistry</i> , 2014, 115, 380-390.	1.2	100
107	Cell-Imprinted Substrates Act as an Artificial Niche for Skin Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13280-13292.	4.0	70
108	Luminal Surface Engineering, -Micro and Nanopatterning-: Potential for Self Endothelialising Vascular Grafts?. <i>European Journal of Vascular and Endovascular Surgery</i> , 2014, 47, 566-576.	0.8	48

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109	Topographically targeted osteogenesis of mesenchymal stem cells stimulated by inclusion bodies attached to polycaprolactone surfaces. <i>Nanomedicine</i> , 2014, 9, 207-220.	1.7	25
110	Scanning electron microscopical observation of an osteoblast/osteoclast co-culture on micropatterned orthopaedic ceramics. <i>Journal of Tissue Engineering</i> , 2014, 5, 204173141455211.	2.3	13
111	PS218. Plasma and Patterning: The New Focus for the Development of Nanocomposite Vascular Grafts. <i>Journal of Vascular Surgery</i> , 2014, 59, 85S.	0.6	0
112	Investigation of the limits of nanoscale filopodial interactions. <i>Journal of Tissue Engineering</i> , 2014, 5, 204173141453617.	2.3	62
113	Radiological Assessment of Bioengineered Bone in a Muscle Flap for the Reconstruction of Critical-Size Mandibular Defect. <i>PLoS ONE</i> , 2014, 9, e107403.	1.1	10
114	A genomics approach in determining nanotopographical effects on MSC phenotype. <i>Biomaterials</i> , 2013, 34, 2177-2184.	5.7	59
115	Nanotopographical Cues Augment Mesenchymal Differentiation of Human Embryonic Stem Cells. <i>Small</i> , 2013, 9, 2140-2151.	5.2	84
116	Label-Free Segmentation of Co-cultured Cells on a Nanotopographical Gradient. <i>Nano Letters</i> , 2013, 13, 570-576.	4.5	27
117	Cell Interactions at the Nanoscale: Piezoelectric Stimulation. <i>IEEE Transactions on Nanobioscience</i> , 2013, 12, 247-254.	2.2	16
118	Osteogenesis of Mesenchymal Stem Cells by Nanoscale Mechanotransduction. <i>ACS Nano</i> , 2013, 7, 2758-2767.	7.3	114
119	2D and 3D Nanopatterning of Titanium for Enhancing Osteoinduction of Stem Cells at Implant Surfaces. <i>Advanced Healthcare Materials</i> , 2013, 2, 1285-1293.	3.9	89
120	Titanium nanofeaturing for enhanced bioactivity of implanted orthopedic and dental devices. <i>Nanomedicine</i> , 2013, 8, 89-104.	1.7	38
121	Genomic analysis of the role of transcription factor C/EBP β in the regulation of cell behaviour on nanometric grooves. <i>Biomaterials</i> , 2013, 34, 1967-1979.	5.7	7
122	Research Highlights: Highlights from the latest articles in nanomedicine. <i>Nanomedicine</i> , 2013, 8, 1743-1745.	1.7	2
123	A nanostructured bacterial bioscaffold for the sustained bottom-up delivery of protein drugs. <i>Nanomedicine</i> , 2013, 8, 1587-1599.	1.7	26
124	Developments in stem cells: Implications for future joint replacements. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 275-283.	1.0	3
125	Assessment of cellular viability on calcium sulphate/hydroxyapatite injectable scaffolds. <i>Journal of Tissue Engineering</i> , 2013, 4, 204173141350964.	2.3	15
126	Metabolomics: a valuable tool for stem cell monitoring in regenerative medicine. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1713-1724.	1.5	27

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127	Biocompatible, Smooth, Plasma-Treated Nickel-Titanium Surface An Adequate Platform for Cell Growth. <i>Journal of Biomaterials Applications</i> , 2012, 26, 707-731.	1.2	14
128	Research Highlights. <i>Nanomedicine</i> , 2012, 7, 17-21.	1.7	0
129	Detection and identification of putative bacterial endosymbionts and endogenous viruses in tick cell lines. <i>Ticks and Tick-borne Diseases</i> , 2012, 3, 137-146.	1.1	34
130	Phosphatase responsive peptide surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 12229.	6.7	21
131	Surface mobility regulates skeletal stem cell differentiation. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 531.	0.6	39
132	Novel Anodization Technique Using a Block Copolymer Template for Nanopatterning of Titanium Implant Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6354-6361.	4.0	26
133	Using Nanotopography and Metabolomics to Identify Biochemical Effectors of Multipotency. <i>ACS Nano</i> , 2012, 6, 10239-10249.	7.3	114
134	2D-DIGE Proteomic Analysis of Mesenchymal Stem Cell Cultured on the Elasticity-tunable Hydrogels. <i>Cell Structure and Function</i> , 2012, 37, 127-139.	0.5	15
135	Optimizing the osteogenicity of nanotopography using block copolymer phase separation fabrication techniques. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1190-1197.	1.2	17
136	The role of microtopography in cellular mechanotransduction. <i>Biomaterials</i> , 2012, 33, 2835-2847.	5.7	139
137	Protein Expression of STRO-1 Cells in Response to Different Topographic Features. <i>Journal of Tissue Engineering</i> , 2011, 2011, 534603.	2.3	3
138	Grooved surface topography alters matrix-metalloproteinase production by human fibroblasts. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 035005.	1.7	15
139	Skeletal stem cell physiology on functionally distinct titania nanotopographies. <i>Biomaterials</i> , 2011, 32, 7403-7410.	5.7	112
140	Nanoscale surfaces for the long-term maintenance of mesenchymal stem cell phenotype and multipotency. <i>Nature Materials</i> , 2011, 10, 637-644.	13.3	710
141	Preventing and troubleshooting artefacts in saturation labelled fluorescence difference gel electrophoresis (saturation DiGE). <i>Proteomics</i> , 2011, 11, 4610-4621.	1.3	12
142	Biomimetic microtopography to enhance osteogenesis in vitro. <i>Acta Biomaterialia</i> , 2011, 7, 2919-2925.	4.1	89
143	Skeletal Stem Cells and Controlled Nanotopography. , 2011, , 247-258.		1
144	Using Immuno-Scanning Electron Microscopy for the Observation of Focal Adhesion-substratum interactions at the Nano- and Microscale in S-Phase Cells. <i>Methods in Molecular Biology</i> , 2011, 695, 53-60.	0.4	2

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145	Can common adhesion molecules and microtopography affect cellular elasticity? A combined atomic force microscopy and optical study. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 1043-1053.	1.6	27
146	Tailoring Cell Behavior on Polymers by the Incorporation of Titanium Doped Phosphate Glass Filler. <i>Advanced Engineering Materials</i> , 2010, 12, B298.	1.6	13
147	Nanotopographical modification: a regulator of cellular function through focal adhesions. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 619-633.	1.7	426
148	Effects of a surface topography composite with puerariae radix on human STRO-1-positive stem cells. <i>Acta Biomaterialia</i> , 2010, 6, 3694-3703.	4.1	19
149	Guest Editorial. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, i-iv.	1.0	0
150	Fluorescence two-dimensional difference gel electrophoresis for biomaterial applications. <i>Journal of the Royal Society Interface</i> , 2010, 7, S107-18.	1.5	28
151	<i>In Vitro</i> Biocompatibility and Mechanical Performance of Titanium Doped High Calcium Oxide Metaphosphate-Based Glasses. <i>Journal of Tissue Engineering</i> , 2010, 1, 390127.	2.3	14
152	Bioactive composites for bone tissue engineering. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 1359-1372.	1.0	51
153	Focal adhesions in osteoneogenesis. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 1441-1453.	1.0	85
154	Bioreactors for bone tissue engineering. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 1523-1532.	1.0	38
155	Nanotopographical Control of Stem Cell Differentiation. <i>Journal of Tissue Engineering</i> , 2010, 1, 120623.	2.3	276
156	Bone grafting, orthopaedic biomaterials, and the clinical need for bone engineering. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 1329-1343.	1.0	341
157	Relative influence of surface topography and surface chemistry on cell response to bone implant materials. Part 1: Physico-chemical effects. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 1471-1486.	1.0	76
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