

Sharon L Hyzy

List of Publications by Year in descending order

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51
papers

3,553
citations

186209

28
h-index

182361

51
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51
all docs

51
docs citations

51
times ranked

5196
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the wettability of dental implant surfaces II: Biological and clinical aspects. <i>Acta Biomaterialia</i> , 2014, 10, 2907-2918.	4.1	607
2	Titanium surface characteristics, including topography and wettability, alter macrophage activation. <i>Acta Biomaterialia</i> , 2016, 31, 425-434.	4.1	471
3	Direct and indirect effects of microstructured titanium substrates on the induction of mesenchymal stem cell differentiation towards the osteoblast lineage. <i>Biomaterials</i> , 2010, 31, 2728-2735.	5.7	265
4	Osteoblasts exhibit a more differentiated phenotype and increased bone morphogenetic protein production on titanium alloy substrates than on poly-ether-ether-ketone. <i>Spine Journal</i> , 2012, 12, 265-272.	0.6	168
5	Substrate Stiffness Controls Osteoblastic and Chondrocytic Differentiation of Mesenchymal Stem Cells without Exogenous Stimuli. <i>PLoS ONE</i> , 2017, 12, e0170312.	1.1	157
6	Differential responses of osteoblast lineage cells to nanotopographically-modified, microroughened titanium–aluminum–vanadium alloy surfaces. <i>Biomaterials</i> , 2012, 33, 8986-8994.	5.7	141
7	Mediation of osteogenic differentiation of human mesenchymal stem cells on titanium surfaces by a Wnt-integrin feedback loop. <i>Biomaterials</i> , 2011, 32, 6399-6411.	5.7	128
8	Implant Materials Generate Different Peri-implant Inflammatory Factors. <i>Spine</i> , 2015, 40, 399-404.	1.0	127
9	Rough titanium alloys regulate osteoblast production of angiogenic factors. <i>Spine Journal</i> , 2013, 13, 1563-1570.	0.6	112
10	Role of integrin subunits in mesenchymal stem cell differentiation and osteoblast maturation on graphitic carbon-coated microstructured surfaces. <i>Biomaterials</i> , 2015, 51, 69-79.	5.7	86
11	Osteoblast maturation and new bone formation in response to titanium implant surface features are reduced with age. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 1773-1783.	3.1	71
12	Dental implant surface chemistry and energy alter macrophage activation <i>in vitro</i> . <i>Clinical Oral Implants Research</i> , 2017, 28, 414-423.	1.9	70
13	Intact amino acid uptake by northern hardwood and conifer trees. <i>Oecologia</i> , 2009, 160, 129-138.	0.9	69
14	Role of non-canonical Wnt signaling in osteoblast maturation on microstructured titanium surfaces. <i>Acta Biomaterialia</i> , 2011, 7, 2740-2750.	4.1	68
15	Osteoblast Lineage Cells Can Discriminate Microscale Topographic Features on Titanium–Aluminum–Vanadium Surfaces. <i>Annals of Biomedical Engineering</i> , 2014, 42, 2551-2561.	1.3	67
16	The roles of Wnt signaling modulators Dickkopf-1 (Dkk1) and Dickkopf-2 (Dkk2) and cell maturation state in osteogenesis on microstructured titanium surfaces. <i>Biomaterials</i> , 2010, 31, 2015-2024.	5.7	61
17	Novel hydrophilic nanostructured microtexture on direct metal laser sintered Ti-6Al-4V surfaces enhances osteoblast response <i>in vitro</i> and osseointegration in a rabbit model. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2086-2098.	2.1	59
18	Selective enrichment of microRNAs in extracellular matrix vesicles produced by growth plate chondrocytes. <i>Bone</i> , 2016, 88, 47-55.	1.4	48

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19	BMP2 induces osteoblast apoptosis in a maturation state and noggin-dependent manner. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 3236-3245.	1.2	44
20	The dependence of MG63 osteoblast responses to (meth)acrylate-based networks on chemical structure and stiffness. <i>Biomaterials</i> , 2010, 31, 6131-6141.	5.7	40
21	Disruption of Pdia3 gene results in bone abnormality and affects 1 α ,25-dihydroxy-vitamin D3-induced rapid activation of PKC. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010, 121, 257-260.	1.2	40
22	Laser Sintered Porous Ti-6Al-4V Implants Stimulate Vertical Bone Growth. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2025-2035.	1.3	37
23	Microstructured titanium regulates interleukin production by osteoblasts, an effect modulated by exogenous BMP-2. <i>Acta Biomaterialia</i> , 2013, 9, 5821-5829.	4.1	35
24	Coordinated regulation of mesenchymal stem cell differentiation on microstructured titanium surfaces by endogenous bone morphogenetic proteins. <i>Bone</i> , 2015, 73, 208-216.	1.4	34
25	Hydrogels derived from cartilage matrices promote induction of human mesenchymal stem cell chondrogenic differentiation. <i>Acta Biomaterialia</i> , 2016, 43, 139-149.	4.1	34
26	Comparable responses of osteoblast lineage cells to microstructured hydrophilic titanium-zirconium and microstructured hydrophilic titanium. <i>Clinical Oral Implants Research</i> , 2017, 28, e51-e59.	1.9	34
27	Signaling components of the 1 α ,25(OH)2D3-dependent Pdia3 receptor complex are required for Wnt5a calcium-dependent signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2365-2375.	1.9	30
28	Spag17 Deficiency Results in Skeletal Malformations and Bone Abnormalities. <i>PLoS ONE</i> , 2015, 10, e0125936.	1.1	30
29	24R,25-Dihydroxyvitamin D3 Protects against Articular Cartilage Damage following Anterior Cruciate Ligament Transection in Male Rats. <i>PLoS ONE</i> , 2016, 11, e0161782.	1.1	30
30	Characterization of osteoarthritic human knees indicates potential sex differences. <i>Biology of Sex Differences</i> , 2016, 7, 27.	1.8	30
31	MicroRNA Contents in Matrix Vesicles Produced by Growth Plate Chondrocytes are Cell Maturation Dependent. <i>Scientific Reports</i> , 2018, 8, 3609.	1.6	27
32	VEGF-A regulates angiogenesis during osseointegration of Ti implants via paracrine/autocrine regulation of osteoblast response to hierarchical microstructure of the surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 423-433.	2.1	25
33	Sex dependent regulation of osteoblast response to implant surface properties by systemic hormones. <i>Biology of Sex Differences</i> , 2010, 1, 4.	1.8	24
34	Osteogenic Differentiation of Stem Cells Alters Vitamin D Receptor Expression. <i>Stem Cells and Development</i> , 2012, 21, 1726-1735.	1.1	24
35	Role of integrin β 1 signaling in myoblast differentiation on aligned polydioxanone scaffolds. <i>Acta Biomaterialia</i> , 2016, 39, 44-54.	4.1	24
36	Bone Morphogenetic Protein 2 Alters Osteogenesis and Anti-Inflammatory Profiles of Mesenchymal Stem Cells Induced by Microtextured Titanium <i>In Vitro</i> . <i>Tissue Engineering - Part A</i> , 2017, 23, 1132-1141.	1.6	24

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37	Role of Wnt11 during Osteogenic Differentiation of Human Mesenchymal Stem Cells on Microstructured Titanium Surfaces. <i>Scientific Reports</i> , 2018, 8, 8588.	1.6	24
38	Superposition of nanostructures on microrough titanium-aluminum-vanadium alloy surfaces results in an altered integrin expression profile in osteoblasts. <i>Connective Tissue Research</i> , 2014, 55, 164-168.	1.1	20
39	Osteoblast maturation on microtextured titanium involves paracrine regulation of bone morphogenetic protein signaling. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1721-1731.	2.1	20
40	Chaperone Properties of Pdia3 Participate in Rapid Membrane Actions of 1,25-Dihydroxyvitamin D ₃ . <i>Molecular Endocrinology</i> , 2013, 27, 1065-1077.	3.7	18
41	Surface modification of bulk titanium substrates for biomedical applications via low-temperature microwave hydrothermal oxidation. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 782-796.	2.1	16
42	Endogenous Regeneration of Critical-Size Chondral Defects in Immunocompromised Rat Xiphoid Cartilage Using Decellularized Human Bone Matrix Scaffolds. <i>Tissue Engineering - Part A</i> , 2012, 18, 2332-2342.	1.6	15
43	Inhibition of angiogenesis impairs bone healing in an <i>in vivo</i> murine rapid resynostosis model. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2742-2749.	2.1	15
44	Regulation of Osteoblast Differentiation by Acid-Etched and/or Grit-Blasted Titanium Substrate Topography Is Enhanced by 1,25(OH) ₂ D ₃ in a Sex-Dependent Manner. <i>BioMed Research International</i> , 2015, 2015, 1-9.	0.9	13
45	Regeneration of bone marrow after tibial ablation in immunocompromised rats is age dependent. <i>Bone</i> , 2010, 46, 396-401.	1.4	11
46	Osteogenic Embryoid Body-Derived Material Induces Bone Formation In Vivo. <i>Scientific Reports</i> , 2015, 5, 9960.	1.6	11
47	Differential spatial regulation of BMP molecules is associated with single-suture craniosynostosis. <i>Journal of Neurosurgery: Pediatrics</i> , 2016, 18, 83-91.	0.8	11
48	Effects of Tunable Keratin Hydrogel Erosion on Recombinant Human Bone Morphogenetic Protein 2 Release, Bioactivity, and Bone Induction. <i>Tissue Engineering - Part A</i> , 2018, 24, 1616-1630.	1.6	11
49	Effects of low-frequency ultrasound treatment of titanium surface roughness on osteoblast phenotype and maturation. <i>Clinical Oral Implants Research</i> , 2017, 28, e151-e158.	1.9	10
50	Characterization of Distinct Classes of Differential Gene Expression in Osteoblast Cultures from Non-Syndromic Craniosynostosis Bone. <i>Journal of Genomics</i> , 2014, 2, 121-130.	0.6	9
51	Microencapsulated rabbit adipose stem cells initiate tissue regeneration in a rabbit ear defect model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1742-1753.	1.3	8