

Sandra Rother

List of Publications by Year in descending order

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31
papers

892
citations

394286

19
h-index

454834

30
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all docs

33
docs citations

33
times ranked

1278
citing authors

#	ARTICLE	IF	CITATIONS
1	Covalent linkage of sulfated hyaluronan to the collagen scaffold Mucograft® enhances scaffold stability and reduces proinflammatory macrophage activation in vivo. <i>Bioactive Materials</i> , 2022, 8, 420-434.	8.6	15
2	Chemical Modification of Hyaluronan and Their Biomedical Applications. <i>Frontiers in Chemistry</i> , 2022, 10, 830671.	1.8	30
3	Hyaluronan/Collagen Hydrogels with Sulfated Glycosaminoglycans Maintain VEGF ¹⁶⁵ Activity and Fine-Tune Endothelial Cell Response. <i>ACS Applied Bio Materials</i> , 2021, 4, 494-506.	2.3	9
4	Genome-wide screens uncover KDM2B as a modifier of protein binding to heparan sulfate. <i>Nature Chemical Biology</i> , 2021, 17, 684-692.	3.9	14
5	Collagen/hyaluronan based hydrogels releasing sulfated hyaluronan improve dermal wound healing in diabetic mice via reducing inflammatory macrophage activity. <i>Bioactive Materials</i> , 2021, 6, 4342-4359.	8.6	57
6	Artificial Extracellular Matrices Containing Bioactive Glass Nanoparticles Promote Osteogenic Differentiation in Human Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12819.	1.8	8
7	A Versatile Macromer-Based Glycosaminoglycan (sHA3) Decorated Biomaterial for Pro-Osteogenic Scavenging of Wnt Antagonists. <i>Pharmaceutics</i> , 2020, 12, 1037.	2.0	3
8	Mono(2-ethylhexyl) phthalate (MEHP) and mono(2-ethyl-5-oxohexyl) phthalate (MEOHP) but not di(2-ethylhexyl) phthalate (DEHP) bind productively to the peroxisome proliferator-activated receptor β . <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 75-85.	0.7	26
9	Hyaluronan/collagen hydrogel matrices containing high-sulfated hyaluronan microgels for regulating transforming growth factor- β 1. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 65.	1.7	13
10	Sulfated hyaluronan-containing artificial extracellular matrices promote proliferation of keratinocytes and melanotic phenotype of melanocytes from the outer root sheath of hair follicles. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1640-1653.	2.1	7
11	Increased pore size of scaffolds improves coating efficiency with sulfated hyaluronan and mineralization capacity of osteoblasts. <i>Biomaterials Research</i> , 2019, 23, 26.	3.2	32
12	Dual Action of Sulfated Hyaluronan on Angiogenic Processes in Relation to Vascular Endothelial Growth Factor-A. <i>Scientific Reports</i> , 2019, 9, 18143.	1.6	28
13	Hyaluronan/collagen hydrogels containing sulfated hyaluronan improve wound healing by sustained release of heparin-binding EGF-like growth factor. <i>Acta Biomaterialia</i> , 2019, 86, 135-147.	4.1	113
14	Transferrin receptor 2 controls bone mass and pathological bone formation via BMP and Wnt signalling. <i>Nature Metabolism</i> , 2019, 1, 111-124.	5.1	59
15	Sulfation degree not origin of chondroitin sulfate derivatives modulates keratinocyte response. <i>Carbohydrate Polymers</i> , 2018, 191, 53-64.	5.1	19
16	Nanofibrous artificial skin substitute composed of mPEG-PCL grafted gelatin/hyaluronan/chondroitin sulfate/sericin for 2nd degree burn care: in vitro and in vivo study. <i>RSC Advances</i> , 2018, 8, 16420-16432.	1.7	36
17	Role of WNT5A receptors FZD5 and RYK in prostate cancer cells. <i>Oncotarget</i> , 2018, 9, 27293-27304.	0.8	27
18	Sulfated Hyaluronan Alters Endothelial Cell Activation in Vitro by Controlling the Biological Activity of the Angiogenic Factors Vascular Endothelial Growth Factor-A and Tissue Inhibitor of Metalloproteinase-3. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9539-9550.	4.0	23

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19	Biomimetic electrospun scaffolds from main extracellular matrix components for skin tissue engineering application – The role of chondroitin sulfate and sulfated hyaluronan. <i>Materials Science and Engineering C</i> , 2017, 79, 15-22.	3.8	60
20	Sulfated Hyaluronan Derivatives Modulate TGF- β 1:Receptor Complex Formation: Possible Consequences for TGF- β 1 Signaling. <i>Scientific Reports</i> , 2017, 7, 1210.	1.6	30
21	Evaluation of cell-surface interaction using a 3D spheroid cell culture model on artificial extracellular matrices. <i>Materials Science and Engineering C</i> , 2017, 73, 310-318.	3.8	18
22	Hyaluronan/Collagen Hydrogels with Sulfated Hyaluronan for Improved Repair of Vascularized Tissue Tune the Binding of Proteins and Promote Endothelial Cell Growth. <i>Macromolecular Bioscience</i> , 2017, 17, 1700154.	2.1	26
23	Reciprocal influence of hMSCs/HaCaT cultivated on electrospun scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 128.	1.7	5
24	Macromol. Biosci. 11/2017. <i>Macromolecular Bioscience</i> , 2017, 17, .	2.1	0
25	Sulfated hyaluronan improves bone regeneration of diabetic rats by binding sclerostin and enhancing osteoblast function. <i>Biomaterials</i> , 2016, 96, 11-23.	5.7	55
26	Structural and functional insights into the interaction of sulfated glycosaminoglycans with tissue inhibitor of metalloproteinase-3 – A possible regulatory role on extracellular matrix homeostasis. <i>Acta Biomaterialia</i> , 2016, 45, 143-154.	4.1	31
27	Sulfated Hyaluronan Alters the Interaction Profile of TIMP-3 with the Endocytic Receptor LRP-1 Clusters II and IV and Increases the Extracellular TIMP-3 Level of Human Bone Marrow Stromal Cells. <i>Biomacromolecules</i> , 2016, 17, 3252-3261.	2.6	20
28	Quantification of the glycation compound 6-(3-hydroxy-4-oxo-2-methyl-4(1H)-pyridin-1-yl)-l-norleucine (maltosine) in model systems and food samples. <i>European Food Research and Technology</i> , 2016, 242, 547-557.	1.6	14
29	Bioinspired Collagen/Glycosaminoglycan-Based Cellular Microenvironments for Tuning Osteoclastogenesis. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23787-23797.	4.0	42
30	Glycosaminoglycan derivatives: promising candidates for the design of functional biomaterials. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 232.	1.7	53
31	Sulfated Hyaluronan Influences the Formation of Artificial Extracellular Matrices and the Adhesion of Osteogenic Cells. <i>Macromolecular Bioscience</i> , 2014, 14, 1783-1794.	2.1	19