Charles Sfeir

List of Publications by Year
in descending order

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35 papers	2,283 citations	304602 22 h-index	360920 35 g-index
36 all docs	36 docs citations	36 times ranked	3284 citing authors

#	Article	IF	Citations
1	Magnesium ion stimulation of bone marrow stromal cells enhances osteogenic activity, simulating the effect of magnesium alloy degradation. Acta Biomaterialia, 2014, 10, 2834-2842.	4.1	440
2	In vivo study of magnesium plate and screw degradation and bone fracture healing. Acta Biomaterialia, 2015, 18, 262-269.	4.1	280
3	Prevention of inflammation-mediated bone loss in murine and canine periodontal disease via recruitment of regulatory lymphocytes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18525-18530.	3.3	169
4	Porous magnesium/PLGA composite scaffolds for enhanced bone regeneration following tooth extraction. Acta Biomaterialia, 2015, 11, 543-553.	4.1	161
5	Phosphophoryn Regulates the Gene Expression and Differentiation of NIH3T3, MC3T3-E1, and Human Mesenchymal Stem Cells via the Integrin/MAPK Signaling Pathway. Journal of Biological Chemistry, 2004, 279, 53323-53330.	1.6	136
6	Biodegradable Mg corrosion and osteoblast cell culture studies. Materials Science and Engineering C, 2009, 29, 1814-1821.	3.8	117
7	Primary Structure and Phosphorylation of Dentin Matrix Protein 1 (DMP1) and Dentin Phosphophoryn (DPP) Uniquely Determine Their Role in Biomineralization.. Biomacromolecules, 2011, 12, 2933-2945.	2.6	101
8	The role of magnesium ions in bone regeneration involves the canonical Wnt signaling pathway. Acta Biomaterialia, 2019, 98, 246-255.	4.1	101
9	Role of magnesium ions on osteogenic response in bone marrow stromal cells. Connective Tissue Research, 2014, 55, 155-159.	1.1	82
10	Extracellular Matrix-mediated Signaling by Dentin Phosphophoryn Involves Activation of the Smad Pathway Independent of Bone Morphogenetic Protein. Journal of Biological Chemistry, 2006, 281, 5341-5347.	1.6	63
11	Phosphorylation of the Proteins of the Extracellular Matrix of Mineralized Tissues By Casein Kinase-Like Activity. Critical Reviews in Oral Biology and Medicine, 1997, 8, 360-379.	4.4	56
12	Fracture Healing Using Degradable Magnesium Fixation Plates and Screws. Journal of Oral and Maxillofacial Surgery, 2015, 73, 295-305.	0.5	55
13	Dentin Matrix Protein 1 (DMP1) Signals via Cell Surface Integrin. Journal of Biological Chemistry, 2011, 286, 29462-29469.	1.6	54
14	Design and evaluation of collagen-inspired mineral-hydrogel nanocomposites for bone regeneration. Acta Biomaterialia, 2020, 112, 262-273.	4.1	43
15	Casein kinase localization in the endoplasmic reticulum of the ros 17/2.8 cell line. Journal of Bone and Mineral Research, 1995, 10, 607-615.	3.1	42
16	Poly(Glycerol Sebacate) Elastomer: A Novel Material for Mechanically Loaded Bone Regeneration. Tissue Engineering - Part A, 2014, 20, 45-53.	1.6	40
17	RANKL Triggers Treg-Mediated Immunoregulation in Inflammatory Osteolysis. Journal of Dental Research, 2018, 97, 917-927.	2.5	39
18	Regeneration of Periosteum by Human Bone Marrow Stromal Cell Sheets. Journal of Oral and Maxillofacial Surgery, 2014, 72, 1078-1083.	0.5	34

#	Article	IF	Citations
19	Properties of the (DSS) n triplet repeat domain of rat dentin phosphophoryn. European Journal of Oral Sciences, 1998, 106, 234-238.	0.7	32
20	An in vivo model to assess magnesium alloys and their biological effect on human bone marrow stromal cells. Acta Biomaterialia, 2015, 28, 234-239.	4.1	29
21	Infection Control Measures in Private Dental Clinics in Lebanon. International Journal of Dentistry, 2017, 2017, 1-11.	0.5	28
22	In vivo quantification of hydrogen gas concentration in bone marrow surrounding magnesium fracture fixation hardware using an electrochemical hydrogen gas sensor. Acta Biomaterialia, 2018, 73, 559-566.	4.1	23
23	The Membrane Associated Kinases which Phosphorylate Bone and Dentin Extracellular Matrix Phosphoproteins are Isoforms of Cytosolic CKII. Connective Tissue Research, 1996, 35, 215-222.	1.1	22
24	Aquaporin 5 Interacts with Fluoride and Possibly Protects against Caries. PLoS ONE, 2015, 10, e0143068.	1.1	22
25	Expression of Phosphophoryn Is Sufficient for the Induction of Matrix Mineralization by Mammalian Cells. Journal of Biological Chemistry, 2011, 286, 20228-20238.	1.6	20
26	Synthesis of bone-like nanocomposites using multiphosphorylated peptides. Acta Biomaterialia, 2014, 10, 2241-2249.	4.1	16
27	Local Sustained Delivery of Antiâ€“IL-17A Antibodies Limits Inflammatory Bone Loss in Murine Experimental Periodontitis. Journal of Immunology, 2021, 206, 2386-2392.	0.4	13
28	Effect of the Periapical â€œInflammatory Plugâ€•on Dental Pulp Regeneration: A Histologic InÂVivo Study. Journal of Endodontics, 2020, 46, 51-56.	1.4	9
29	Controlling magnesium corrosion and degradation-regulating mineralization using matrix GLA protein. Acta Biomaterialia, 2019, 98, 142-151.	4.1	8
30	Vasoactive Intestinal Peptide Immunoregulatory Role at the Periapex: Associative and Mechanistic Evidences from Human and Experimental Periapical Lesions. Journal of Endodontics, 2019, 45, 1228-1236.	1.4	8
31	Translating Dental, Oral, and Craniofacial Regenerative Medicine Innovations to the Clinic through Interdisciplinary Commercial Translation Architecture. Journal of Dental Research, 2021, 100, 1039-1046.	2.5	6
32	Local induction of regulatory T cells prevents inflammatory bone loss in ligature-induced experimental periodontitis in mice. Scientific Reports, 2022, 12, 5032.	1.6	6
33	Dental, Oral, and Craniofacial Regenerative Medicine: Transforming Biotechnologies for Innovating Patient Care. Journal of Dental Research, 2018, 97, 361-363.	2.5	4
34	Bottom-Up Self-assembled Hydrogel-Mineral Composites Regenerate Rabbit Ulna Defect without Added Growth Factors. ACS Applied Bio Materials, 2020, 3, 5652-5663.	2.3	3
35	Sterilization and Biologic Monitoring in Private Dental Clinics in Lebanon. Journal of Contemporary Dental Practice, 2018, 19, 853-861.	0.2	1