Nan E Hatch

List of Publications by Year
in descending order

52 papers	1,526 citations	411340 20 h-index	355658 38 g-index
54 all docs	54 docs citations	54 times ranked	2353 citing authors

#	Article	IF	Citations
1	IGFâ€1 TMJ injections enhance mandibular growth and bone quality in juvenile rats. Orthodontics and Craniofacial Research, 2022, 25, 183-191.	1.2	4
2	Control of Orthodontic Tooth Movement by Nitric Oxide Releasing Nanoparticles in Sprague-Dawley Rats. Frontiers in Materials, 2022, 9, .	1.2	2
3	Scaffold Pore Curvature Influences ÎœSC Fate through Differential Cellular Organization and YAP/TAZ Activity. International Journal of Molecular Sciences, 2022, 23, 4499.	1.8	19
4	Deletion of the Pyrophosphate Generating Enzyme ENPP1 Rescues Craniofacial Abnormalities in the TNAPâ^'/â^' Mouse Model of Hypophosphatasia and Reveals FGF23 as a Marker of Phenotype Severity. Frontiers in Dental Medicine, 2022, 3, .	0.5	5
5	Tissue Nonspecific Alkaline Phosphatase Function in Bone and Muscle Progenitor Cells: Control of Mitochondrial Respiration and ATP Production. International Journal of Molecular Sciences, 2021, 22, 1140.	1.8	16
6	Macropore design of tissue engineering scaffolds regulates mesenchymal stem cell differentiation fate. Biomaterials, 2021, 272, 120769.	5.7	54
7	Chondrocyte Tsc1 controls cranial base bone development by restraining the premature differentiation of synchondroses. Bone, 2021, 153, 116142.	1.4	3
8	Impact of pharmacologic inhibition of tooth movement on periodontal and tooth root tissues during orthodontic force application. Orthodontics and Craniofacial Research, 2020, 23, 35-43.	1.2	5
9	Genetic background dependent modifiers of craniosynostosis severity. Journal of Structural Biology, 2020, 212, 107629.	1.3	9
10	Cranial Neural Crest Cells and Their Role in the Pathogenesis of Craniofacial Anomalies and Coronal Craniosynostosis. Journal of Developmental Biology, 2020, 8, 18.	0.9	29
11	Viral delivery of tissue nonspecific alkaline phosphatase diminishes craniosynostosis in one of two FGFR2C342Y/+ mouse models of Crouzon syndrome. PLoS ONE, 2020, 15, e0234073.	1.1	6
12	Dental and craniofacial defects in the Crtap^{â^'/â^'} mouse model of osteogenesis imperfecta type VII. Developmental Dynamics, 2020, 249, 884-897.	0.8	18
13	Title is missing!. , 2020, 15, e0234073.		0
14	Title is missing!. , 2020, 15, e0234073.		0
15	Title is missing!. , 2020, 15, e0234073.		0
16	Title is missing!. , 2020, 15, e0234073.		0
17	Title is missing!. , 2020, 15, e0234073.		0
18	Title is missing!. , 2020, 15, e0234073.		0

#	Article	IF	Citations
19	Title is missing!. , 2020, 15, e0234073.		0
20	Tissue nonspecific alkaline phosphatase promotes calvarial progenitor cell cycle progression and cytokinesis via Erk1,2. Bone, 2019, 120, 125-136.	1.4	13
21	Microsphere controlled drug delivery for local control of tooth movement. European Journal of Orthodontics, 2019, 41, 1-8.	1.1	14
22	Pore size directs bone marrow stromal cell fate and tissue regeneration in nanofibrous macroporous scaffolds by mediating vascularization. Acta Biomaterialia, 2018, 82, 1-11.	4.1	150
23	ARQ 087 inhibits FGFR signaling and rescues aberrant cell proliferation and differentiation in experimental models of craniosynostoses and chondrodysplasias caused by activating mutations in FGFR1, FGFR2 and FGFR3. Bone, 2017, 105, 57-66.	1.4	17
24	Analysis of polycaprolactone scaffolds fabricated via precision extrusion deposition for control of craniofacial tissue mineralization. Orthodontics and Craniofacial Research, 2017, 20, 12-17.	1.2	27
25	Tissue Nonspecific Alkaline Phosphatase (TNAP) Regulates Cranial Base Growth and Synchondrosis Maturation. Frontiers in Physiology, 2017, 8, 161.	1.3	17
26	Postnatal Craniofacial Skeletal Development of Female C57BL/6NCrl Mice. Frontiers in Physiology, 2017, 8, 697.	1.3	38
27	Bone mineralizationâ€dependent craniosynostosis and craniofacial shape abnormalities in the mouse model of infantile hypophosphatasia. Developmental Dynamics, 2016, 245, 175-182.	0.8	7
28	The effects of tissueâ€nonâ€specific alkaline phosphatase gene therapy on craniosynostosis and craniofacial morphology in the FGFR2^{C342Y/+} mouse model of Crouzon craniosynostosis. Orthodontics and Craniofacial Research, 2015, 18, 196-206.	1.2	8
29	Improvement of the skeletal and dental hypophosphatasia phenotype in Alplâ^'/â^' mice by administration of soluble (non-targeted) chimeric alkaline phosphatase. Bone, 2015, 72, 137-147.	1.4	45
30	Enzyme replacement for craniofacial skeletal defects and craniosynostosis in murine hypophosphatasia. Bone, 2015, 78, 203-211.	1.4	26
31	Periodontal Defects in the A116T Knock-in Murine Model of Odontohypophosphatasia. Journal of Dental Research, 2015, 94, 706-714.	2.5	37
32	Locally limited inhibition of bone resorption and orthodontic relapse by recombinant osteoprotegerin protein. Orthodontics and Craniofacial Research, 2015, 18, 187-195.	1.2	27
33	Inhibition of osteoblast mineralization by phosphorylated phage-derived apatite-specific peptide. Biomaterials, 2015, 73, 120-130.	5.7	11
34	Tissue-nonspecific alkaline phosphatase deficiency causes abnormal craniofacial bone development in the Alplâ^'/â^' mouse model of infantile hypophosphatasia. Bone, 2014, 67, 81-94.	1.4	80
35	Further Analysis of the Crouzon Mouse: Effects of the FGFR2C342Y Mutation Are Cranial Boneâ€"Dependent. Calcified Tissue International, 2013, 92, 451-466.	1.5	48
36	Quantification of external root resorption by low- vs high-resolution cone-beam computed tomography and periapical radiography: A volumetric and linear analysis. American Journal of Orthodontics and Dentofacial Orthopedics, 2013, 143, 77-91.	0.8	54

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37	Craniosynostosis-Associated Fgfr2C342YMutant Bone Marrow Stromal Cells Exhibit Cell Autonomous Abnormalities in Osteoblast Differentiation and Bone Formation. BioMed Research International, 2013, 2013, 1-11.	0.9	18
38	Local Delivery of Recombinant Osteoprotegerin Enhances Postorthodontic Tooth Stability. Calcified Tissue International, 2012, 90, 330-342.	1.5	41
39	Ectonucleotide Pyrophosphatase/Phosphodiesterase-1 (ENPP1) Protein Regulates Osteoblast Differentiation. Journal of Biological Chemistry, 2011, 286, 39059-39071.	1.6	66
40	Self-ligating bracket claims. American Journal of Orthodontics and Dentofacial Orthopedics, 2010, 138, 128-131.	0.8	18
41	FGF2 promotes Msx2 stimulated PCâ€1 expression via Frs2/MAPK signaling. Journal of Cellular Biochemistry, 2010, 111, 1346-1358.	1.2	14
42	FGF Signaling in Craniofacial Biological Control and Pathological Craniofacial Development. Critical Reviews in Eukaryotic Gene Expression, 2010, 20, 295-311.	0.4	38
43	Identification and Functional Characterization of ERK/MAPK Phosphorylation Sites in the Runx2 Transcription Factor. Journal of Biological Chemistry, 2009, 284, 32533-32543.	1.6	206
44	Osteoblast Differentiation Stage-Specific Expression of the Pyrophosphate-Generating Enzyme PC-1. Cells Tissues Organs, 2009, 189, 65-69.	1.3	3
45	FGF2 Stimulation of the Pyrophosphate-Generating Enzyme, PC-1, in Pre-Osteoblast Cells Is Mediated by RUNX2. Journal of Bone and Mineral Research, 2009, 24, 652-662.	3.1	27
46	Crouzon Syndrome. , 2009, , 470-471.		0
47	FGF2 induced expression of the pyrophosphate generating enzyme, PC-1, is mediated by Runx2 and Msx2. Journal of Musculoskeletal Neuronal Interactions, 2008, 8, 318-20.	0.1	6
48	Potential role of PC-1 expression and pyrophosphate elaboration in the molecular etiology of the FGFR-associated craniosynostosis syndromes. Orthodontics and Craniofacial Research, 2007, 10, 53-58.	1.2	4
49	Intracellular Retention, Degradation, and Signaling of Glycosylation-deficient FGFR2 and Craniosynostosis Syndrome-associated FGFR2C278F. Journal of Biological Chemistry, 2006, 281, 27292-27305.	1.6	63
50	FGF2 Alters Expression of the Pyrophosphate/Phosphate Regulating Proteins, PC-1, ANK and TNAP, in the Calvarial Osteoblastic Cell Line, MC3T3E1(C4). Connective Tissue Research, 2005, 46, 184-192.	1.1	24
51	Glial Fibrillary Acidic Protein Transcriptional Regulation Is Independent of a TFIID-Binding Downstream Initiator Sequence. Journal of Neurochemistry, 2002, 63, 2003-2009.	2.1	6
52	The Human Integrin Î±8Î²1 Functions as a Receptor for Tenascin, Fibronectin, and Vitronectin. Journal of Biological Chemistry, 1995, 270, 23196-23202.	1.6	203