

# Marc D Mckee

## List of Publications by Year in descending order

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182  
papers

22,244  
citations

13099

68  
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8630

146  
g-index

192  
all docs

192  
docs citations

192  
times ranked

19669  
citing authors

#	ARTICLE	IF	CITATIONS
1	Endocrine Regulation of Energy Metabolism by the Skeleton. <i>Cell</i> , 2007, 130, 456-469.	28.9	2,151
2	Spontaneous calcification of arteries and cartilage in mice lacking matrix GLA protein. <i>Nature</i> , 1997, 386, 78-81.	27.8	1,895
3	Bisphosphonate-Associated Osteonecrosis of the Jaw: Report of a Task Force of the American Society for Bone and Mineral Research. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 1479-1491.	2.8	1,397
4	Phosphate Regulation of Vascular Smooth Muscle Cell Calcification. <i>Circulation Research</i> , 2000, 87, E10-7.	4.5	1,192
5	Osteopontin. <i>Critical Reviews in Oral Biology and Medicine</i> , 2000, 11, 279-303.	4.4	933
6	Unique coexpression in osteoblasts of broadly expressed genes accounts for the spatial restriction of ECM mineralization to bone. <i>Genes and Development</i> , 2005, 19, 1093-1104.	5.9	535
7	Extracellular matrix mineralization is regulated locally; different roles of two gla-containing proteins. <i>Journal of Cell Biology</i> , 2004, 165, 625-630.	5.2	448
8	Calcification of Vascular Smooth Muscle Cell Cultures. <i>Circulation Research</i> , 1999, 84, 166-178.	4.5	423
9	Mice Lacking Osteopontin Show Normal Development and Bone Structure but Display Altered Osteoclast Formation In Vitro. <i>Journal of Bone and Mineral Research</i> , 1998, 13, 1101-1111.	2.8	380
10	Osteopontin Inhibits Mineral Deposition and Promotes Regression of Ectopic Calcification. <i>American Journal of Pathology</i> , 2002, 161, 2035-2046.	3.8	366
11	Oral Bisphosphonate-Induced Osteonecrosis: Risk Factors, Prediction of Risk Using Serum CTX Testing, Prevention, and Treatment. <i>Journal of Oral and Maxillofacial Surgery</i> , 2008, 66, 1320-1321.	1.2	365
12	Intermittent injections of osteocalcin improve glucose metabolism and prevent type 2 diabetes in mice. <i>Bone</i> , 2012, 50, 568-575.	2.9	359
13	Tissue engineering of cartilage using an injectable and adhesive chitosan-based cell-delivery vehicle. <i>Osteoarthritis and Cartilage</i> , 2005, 13, 318-329.	1.3	323
14	Osteopontin at mineralized tissue interfaces in bone, teeth, and osseointegrated implants: Ultrastructural distribution and implications for mineralized tissue formation, turnover, and repair. <i>Microscopy Research and Technique</i> , 1996, 33, 141-164.	2.2	318
15	The eggshell: structure, composition and mineralization. <i>Frontiers in Bioscience - Landmark</i> , 2012, 17, 1266.	3.0	315
16	Pyrophosphate Inhibits Mineralization of Osteoblast Cultures by Binding to Mineral, Up-regulating Osteopontin, and Inhibiting Alkaline Phosphatase Activity. <i>Journal of Biological Chemistry</i> , 2007, 282, 15872-15883.	3.4	313
17	Inactivation of the Osteopontin Gene Enhances Vascular Calcification of Matrix Gla Protein-deficient Mice. <i>Journal of Experimental Medicine</i> , 2002, 196, 1047-1055.	8.5	301
18	Osteopontin Deficiency Increases Mineral Content and Mineral Crystallinity in Mouse Bone. <i>Calcified Tissue International</i> , 2002, 71, 145-154.	3.1	278

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19	In vitro osteogenesis assays: Influence of the primary cell source on alkaline phosphatase activity and mineralization. <i>Pathologie Et Biologie</i> , 2009, 57, 318-323.	2.2	261
20	Drilling and microfracture lead to different bone structure and necrosis during bone marrow stimulation for cartilage repair. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1432-1438.	2.3	224
21	Enzyme Replacement Therapy for Murine Hypophosphatasia. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 777-787.	2.8	222
22	Identification and localization of lysozyme as a component of eggshell membranes and eggshell matrix. <i>Matrix Biology</i> , 2000, 19, 443-453.	3.6	215
23	Fibrillin Assembly Requires Fibronectin. <i>Molecular Biology of the Cell</i> , 2009, 20, 846-858.	2.1	210
24	Chitosan-glycerol phosphate/blood implants elicit hyaline cartilage repair integrated with porous subchondral bone in microdrilled rabbit defects. <i>Osteoarthritis and Cartilage</i> , 2007, 15, 78-89.	1.3	207
25	Loss of skeletal mineralization by the simultaneous ablation of PHOSPHO1 and alkaline phosphatase function: A unified model of the mechanisms of initiation of skeletal calcification. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 286-297.	2.8	199
26	Molecular and cellular biology of alveolar bone. <i>Periodontology 2000</i> , 2000, 24, 99-126.	13.4	192
27	Role of physical forces in regulating the form and function of the periodontal ligament. <i>Periodontology 2000</i> , 2000, 24, 56-72.	13.4	191
28	Ultrastructural immunolocalization of noncollagenous (osteopontin and osteocalcin) and plasma (albumin and $\beta$ 2HS-glycoprotein) proteins in rat bone. <i>Journal of Bone and Mineral Research</i> , 1993, 8, 485-496.	2.8	179
29	MEPE-ASARM Peptides Control Extracellular Matrix Mineralization by Binding to Hydroxyapatite: An Inhibition Regulated by PHEX Cleavage of ASARM. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1638-1649.	2.8	174
30	Mineral chaperones: a role for fetuin-A and osteopontin in the inhibition and regression of pathologic calcification. <i>Journal of Molecular Medicine</i> , 2008, 86, 379-389.	3.9	165
31	Ultrastructural Analysis of Vascular Calcifications in Uremia. <i>Journal of the American Society of Nephrology: JASN</i> , 2010, 21, 689-696.	6.1	157
32	Osteopontin: An Interfacial Extracellular Matrix Protein in Mineralized Tissues. <i>Connective Tissue Research</i> , 1996, 35, 197-205.	2.3	156
33	Osteomalacia in Hyp Mice Is Associated with Abnormal PheX Expression and with Altered Bone Matrix Protein Expression and Deposition. <i>Endocrinology</i> , 2001, 142, 926-939.	2.8	155
34	Enamel Defects and Ameloblast-specific Expression in Enam Knock-out/lacZ Knock-in Mice. <i>Journal of Biological Chemistry</i> , 2008, 283, 10858-10871.	3.4	152
35	Phosphorylation-dependent inhibition of mineralization by osteopontin ASARM peptides is regulated by PHEX cleavage. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 695-705.	2.8	151
36	Molecular Cloning and Ultrastructural Localization of the Core Protein of an Eggshell Matrix Proteoglycan, Ovocleidin-116. <i>Journal of Biological Chemistry</i> , 1999, 274, 32915-32923.	3.4	137

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37	Depth of subchondral perforation influences the outcome of bone marrow stimulation cartilage repair. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1178-1184.	2.3	136
38	Extracellular matrix in tooth cementum and mantle dentin: Localization of osteopontin and other noncollagenous proteins, plasma proteins, and glycoconjugates by electron microscopy. <i>The Anatomical Record</i> , 1996, 245, 293-312.	1.8	134
39	Ovocalyxin-32, a Novel Chicken Eggshell Matrix Protein. <i>Journal of Biological Chemistry</i> , 2001, 276, 39243-39252.	3.4	132
40	Developmental appearance and distribution of bone sialoprotein and osteopontin in human and rat cementum. <i>The Anatomical Record</i> , 1998, 250, 13-33.	1.8	131
41	Extracellular matrix calcification: where is the action?. <i>Nature Genetics</i> , 1999, 21, 150-151.	21.4	131
42	Chiral acidic amino acids induce chiral hierarchical structure in calcium carbonate. <i>Nature Communications</i> , 2017, 8, 15066.	12.8	129
43	The biological function of DMP-1 in osteocyte maturation is mediated by its 57-kDa c-terminal fragment. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 331-340.	2.8	120
44	Proteolytic processing of osteopontin by PHEX and accumulation of osteopontin fragments in Hyp mouse bone, the murine model of X-linked hypophosphatemia. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 688-699.	2.8	119
45	Secretion of osteopontin by macrophages and its accumulation at tissue surfaces during wound healing in mineralized tissues: A potential requirement for macrophage adhesion and phagocytosis. <i>The Anatomical Record</i> , 1996, 245, 394-409.	1.8	114
46	Rescue of odontogenesis in Dmp1-deficient mice by targeted re-expression of DMP1 reveals roles for DMP1 in early odontogenesis and dentin apposition in vivo. <i>Developmental Biology</i> , 2007, 303, 191-201.	2.0	112
47	Osteopontin and the Bone Remodeling Sequence. <i>Annals of the New York Academy of Sciences</i> , 1995, 760, 177-189.	3.8	111
48	Tissue Transglutaminase and Its Substrates in Bone. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 2161-2173.	2.8	111
49	Enzyme Replacement Therapy Prevents Dental Defects in a Model of Hypophosphatasia. <i>Journal of Dental Research</i> , 2011, 90, 470-476.	5.2	106
50	Cloning of Ovocalyxin-36, a Novel Chicken Eggshell Protein Related to Lipopolysaccharide-binding Proteins, Bactericidal Permeability-increasing Proteins, and Plunc Family Proteins. <i>Journal of Biological Chemistry</i> , 2007, 282, 5273-5286.	3.4	101
51	Renal Calcification in Mice Homozygous for the Disrupted Type IIa Na/Pi Cotransporter Gene <i>&lt;i&gt;Npt2&lt;/i&gt;</i> . <i>Journal of Bone and Mineral Research</i> , 2003, 18, 644-657.	2.8	100
52	Aged bovine chondrocytes display a diminished capacity to produce a collagen-rich, mechanically functional cartilage extracellular matrix. <i>Journal of Orthopaedic Research</i> , 2005, 23, 1354-1362.	2.3	100
53	Molecular determinants of extracellular matrix mineralization in bone and blood vessels. <i>Current Opinion in Nephrology and Hypertension</i> , 2010, 19, 359-365.	2.0	97
54	Smooth muscle cells deficient in osteopontin have enhanced susceptibility to calcification in vitro. <i>Cardiovascular Research</i> , 2005, 66, 324-333.	3.8	93

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55	Partial Rescue of the Hyp Phenotype by Osteoblast-Targeted PHEX (Phosphate-Regulating Gene with Homology to Endothelial TGF- $\beta$ Type II Receptor) in Mice. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 2913-2925.	0.784314	92
56	Nonlinear Tensile Properties of Bovine Articular Cartilage and Their Variation With Age and Depth. <i>Journal of Biomechanical Engineering</i> , 2004, 126, 129-137.	1.3	88
57	Hierarchies of Extracellular Matrix and Mineral Organization in Bone of the Craniofacial Complex and Skeleton. <i>Cells Tissues Organs</i> , 2005, 181, 176-188.	2.3	86
58	Proteoglycan desulfation determines the efficiency of chondrocyte autophagy and the extent of FGF signaling during endochondral ossification. <i>Genes and Development</i> , 2008, 22, 2645-2650.	5.9	86
59	ATP acts as a survival signal and prevents the mineralization of aortic valve. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 1191-1202.	1.9	86
60	Extracellular matrix mineralization in murine MC3T3-E1 osteoblast cultures: An ultrastructural, compositional and comparative analysis with mouse bone. <i>Bone</i> , 2015, 71, 244-256.	2.9	86
61	Nanostructure, osteopontin, and mechanical properties of calcitic avian eggshell. <i>Science Advances</i> , 2018, 4, eaar3219.	10.3	86
62	Tooth root dentin mineralization defects in a mouse model of hypophosphatasia. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 271-282.	2.8	85
63	The importance of particle size and DNA condensation salt for calcium phosphate nanoparticle transfection. <i>Biomaterials</i> , 2008, 29, 3384-3392.	11.4	82
64	Extracellular Matrix Proteins and the Dynamics of Dentin Formation. <i>Connective Tissue Research</i> , 2002, 43, 301-307.	2.3	81
65	Ultrastructural matrix-mineral relationships in avian eggshell, and effects of osteopontin on calcite growth in vitro. <i>Journal of Structural Biology</i> , 2008, 163, 84-99.	2.8	81
66	Osteopontin and Wound Healing in Bone. <i>Cells Tissues Organs</i> , 2011, 194, 313-319.	2.3	80
67	Ultrastructural characterization and immunolocalization of osteopontin in rat calvarial osteoblast primary cultures. <i>Journal of Bone and Mineral Research</i> , 1996, 11, 214-231.		77
68	Cyclic Induction and Rapid Movement of Sequential Waves of New Smooth-Ended Ameloblast Modulation Bands in Rat Incisors as Visualized By Polychrome Fluorescent Labeling and Gbha-Staining of Maturing Enamel. <i>Advances in Dental Research</i> , 1987, 1, 162-175.	3.6	76
69	Increased Osteopontin Contributes to Inhibition of Bone Mineralization in FGF23-Deficient Mice. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 693-704.	2.8	76
70	Collagen Biomineralization In Vivo by Sustained Release of Inorganic Phosphate Ions. <i>Advanced Materials</i> , 2010, 22, 1858-1862.	21.0	70
71	A cell-autonomous requirement for neutral sphingomyelinase 2 in bone mineralization. <i>Journal of Cell Biology</i> , 2011, 194, 277-289.	5.2	70
72	Disulfide-linked heterodimeric clusterin is a component of the chicken eggshell matrix and egg white. <i>Matrix Biology</i> , 2003, 22, 397-407.	3.6	69

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73	Ultrastructure of avian eggshell during resorption following egg fertilization. Journal of Structural Biology, 2009, 168, 527-538.	2.8	67
74	Osteopontin and the dento-osseous pathobiology of X-linked hypophosphatemia. Bone, 2017, 95, 151-161.	2.9	66
75	Hand transcription factors cooperatively regulate development of the distal midline mesenchyme. Developmental Biology, 2007, 310, 154-168.	2.0	64
76	ASARM mineralization hypothesis: A bridge to progress. Journal of Bone and Mineral Research, 2010, 25, 1191-1192.	2.8	61
77	MEPE-Derived ASARM Peptide Inhibits Odontogenic Differentiation of Dental Pulp Stem Cells and Impairs Mineralization in Tooth Models of X-Linked Hypophosphatemia. PLoS ONE, 2013, 8, e56749.	2.5	61
78	Absence of $\alpha$ 26 Integrin Is Linked to Initiation and Progression of Periodontal Disease. American Journal of Pathology, 2008, 172, 1271-1286.	3.8	60
79	Modulation of Calcium Oxalate Dihydrate Growth by Selective Crystal-face Binding of Phosphorylated Osteopontin and Polyaspartate Peptide Showing Occlusion by Sectoral (Compositional) Zoning. Journal of Biological Chemistry, 2009, 284, 23491-23501.	3.4	60
80	Hand2 controls osteoblast differentiation in the branchial arch by inhibiting DNA binding of Runx2. Development (Cambridge), 2009, 136, 615-625.	2.5	59
81	Mature Full-thickness Articular Cartilage Explants Attached to Bone are Physiologically Stable over Long-term Culture in Serum-free Media. Connective Tissue Research, 1999, 40, 259-272.	2.3	58
82	Nanoforms: a new type of protein-associated mineralization. Geochimica Et Cosmochimica Acta, 2001, 65, 63-74.	3.9	57
83	Osteoid-Mimicking Dense Collagen/Chitosan Hybrid Gels. Biomacromolecules, 2011, 12, 2946-2956.	5.4	57
84	Mineralization of Dense Collagen Hydrogel Scaffolds by Human Pulp Cells. Journal of Dental Research, 2013, 92, 648-654.	5.2	57
85	An <i>In Vitro</i> Assessment of a Cell-Containing Collagenous Extracellular Matrix-like Scaffold for Bone Tissue Engineering. Tissue Engineering - Part A, 2010, 16, 781-793.	3.1	56
86	Comparative Temporospatial Expression Profiling of Murine Amelotin Protein during Amelogenesis. Cells Tissues Organs, 2012, 195, 535-549.	2.3	56
87	Enamelin Is Critical for Ameloblast Integrity and Enamel Ultrastructure Formation. PLoS ONE, 2014, 9, e89303.	2.5	56
88	Osteopontin Upregulation and Polymerization by Transglutaminase 2 in Calcified Arteries of Matrix Gla Protein-deficient Mice. Journal of Histochemistry and Cytochemistry, 2007, 55, 375-386.	2.5	55
89	Phosphorylation-dependent mineral-type specificity for apatite-binding peptide sequences. Biomaterials, 2010, 31, 9422-9430.	11.4	55
90	Colloidal-gold Immunocytochemical Localization of Osteopontin in Avian Eggshell Gland and Eggshell. Journal of Histochemistry and Cytochemistry, 2008, 56, 467-476.	2.5	54

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91	Cohesive behavior of soft biological adhesives: Experiments and modeling. <i>Acta Biomaterialia</i> , 2012, 8, 3349-3359.	8.3	54
92	Polyphosphates inhibit extracellular matrix mineralization in MC3T3-E1 osteoblast cultures. <i>Bone</i> , 2013, 53, 478-486.	2.9	54
93	Extracellular matrix mineralization in periodontal tissues: Noncollagenous matrix proteins, enzymes, and relationship to hypophosphatasia and X-linked hypophosphatemia. <i>Periodontology 2000</i> , 2013, 63, 102-122.	13.4	54
94	Effect of chitosan particles and dexamethasone on human bone marrow stromal cell osteogenesis and angiogenic factor secretion. <i>Bone</i> , 2009, 45, 617-626.	2.9	53
95	Intracellular precipitation of hydroxyapatite mineral and implications for pathologic calcification. <i>Journal of Structural Biology</i> , 2008, 162, 468-479.	2.8	52
96	Compounded PHOSPHO1/ALPL Deficiencies Reduce Dentin Mineralization. <i>Journal of Dental Research</i> , 2013, 92, 721-727.	5.2	49
97	Cartilage abnormalities are associated with abnormal Phex expression and with altered matrix protein and MMP-9 localization in Hyp mice. <i>Bone</i> , 2004, 34, 638-647.	2.9	46
98	Penetration of various molecular-weight proteins into the enamel organ and enamel of the rat incisor. <i>Archives of Oral Biology</i> , 1986, 31, 287-296.	1.8	45
99	Matrix Gla Protein Inhibition of Tooth Mineralization. <i>Journal of Dental Research</i> , 2008, 87, 839-844.	5.2	44
100	Dynamics of Structural Barriers and Innate Immune Components during Incubation of the Avian Egg: Critical Interplay between Autonomous Embryonic Development and Maternal Anticipation. <i>Journal of Innate Immunity</i> , 2019, 11, 111-124.	3.8	44
101	Osteopontin Expression and Regulation in the Testis, Efferent Ducts, and Epididymis of Rats During Postnatal Development Through to Adulthood <sup>1</sup> . <i>Biology of Reproduction</i> , 2002, 66, 1437-1448.	2.7	43
102	Osteopontin functions as an opsonin and facilitates phagocytosis by macrophages of hydroxyapatite-coated microspheres: Implications for bone wound healing. <i>Bone</i> , 2008, 43, 708-716.	2.9	42
103	Chiral switching in biomineral suprastructures induced by homochiral $\alpha$ -amino acid. <i>Science Advances</i> , 2018, 4, eaas9819.	10.3	41
104	Effects of fixation and demineralization on the retention of bone phosphoprotein and other matrix components as evaluated by biochemical analyses and quantitative immunocytochemistry. <i>Journal of Bone and Mineral Research</i> , 1991, 6, 937-945.	2.8	40
105	Regression of Medial Elastocalcinosis in Rat Aorta. <i>Circulation</i> , 2005, 112, 1628-1635.	1.6	38
106	Tissue-specific mineralization defects in the periodontium of the Hyp mouse model of X-linked hypophosphatemia. <i>Bone</i> , 2017, 103, 334-346.	2.9	38
107	Avian Eggshell Structure and Osteopontin. <i>Cells Tissues Organs</i> , 2009, 189, 38-43.	2.3	37
108	Morphological and immunocytochemical characterization of primary osteogenic cell cultures derived from fetal rat cranial tissue. <i>The Anatomical Record</i> , 1998, 252, 554-567.	1.8	36



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109	Phenotypic Modulation of Vascular Smooth Muscle Cells During Medial Arterial Calcification: a Role for Endothelin?. <i>Journal of Cardiovascular Pharmacology</i> , 2004, 44, S147-S150.	1.9	36
110	Luminal calcification and microvasculopathy in fetuin-A-deficient mice lead to multiple organ morbidity. <i>PLoS ONE</i> , 2020, 15, e0228503.	2.5	35
111	Inositol hexakisphosphate inhibits mineralization of MC3T3-E1 osteoblast cultures. <i>Bone</i> , 2010, 46, 1100-1107.	2.9	33
112	Impaired mineral quality in dentin in X-linked hypophosphatemia. <i>Connective Tissue Research</i> , 2018, 59, 91-96.	2.3	32
113	Transglutaminase Crosslinking of SIBLING Proteins in Teeth. <i>Journal of Dental Research</i> , 2005, 84, 607-612.	5.2	31
114	Critical role for $\alpha_2\beta_6$ integrin in enamel biomineralization. <i>Journal of Cell Science</i> , 2012, 126, 732-44.	2.0	31
115	Mineralization-inhibiting effects of transglutaminase-crosslinked polymeric osteopontin. <i>Bone</i> , 2017, 101, 37-48.	2.9	31
116	Biological stenciling of mineralization in the skeleton: Local enzymatic removal of inhibitors in the extracellular matrix. <i>Bone</i> , 2020, 138, 115447.	2.9	31
117	Diagenesis-inspired reaction of magnesium ions with surface enamel mineral modifies properties of human teeth. <i>Acta Biomaterialia</i> , 2016, 37, 174-183.	8.3	30
118	Effect of Chitosan Incorporation and Scaffold Geometry on Chondrocyte Function in Dense Collagen Type I Hydrogels. <i>Tissue Engineering - Part A</i> , 2013, 19, 2553-2564.	3.1	29
119	Chiral biomineralized structures and their biomimetic synthesis. <i>Materials Horizons</i> , 2019, 6, 1974-1990.	12.2	29
120	Bone acidic glycoprotein-75 self-associates to form macromolecular complexes in vitro and in vivo with the potential to sequester phosphate ions. <i>Journal of Cellular Biochemistry</i> , 1997, 64, 547-564.	2.6	28
121	Crossfibrillar mineral tessellation in normal and Hyp mouse bone as revealed by 3D FIB-SEM microscopy. <i>Journal of Structural Biology</i> , 2020, 212, 107603.	2.8	27
122	Effects of CO <sub>2</sub> Laser Irradiation in vivo on Rat Alveolar Bone and Incisor Enamel, Dentin, and Pulp. <i>Journal of Dental Research</i> , 1993, 72, 1406-1417.	5.2	26
123	Craniofacial and Dental Defects in the <i>Col1a1<sup>Jrt/+</sup></i> Mouse Model of Osteogenesis Imperfecta. <i>Journal of Dental Research</i> , 2016, 95, 761-768.	5.2	26
124	Matrix Gla protein deficiency impairs nasal septum growth, causing midface hypoplasia. <i>Journal of Biological Chemistry</i> , 2017, 292, 11400-11412.	3.4	25
125	Distinct effects of amlodipine treatment on vascular elastocalcinosis and stiffness in a rat model of isolated systolic hypertension. <i>Journal of Hypertension</i> , 2007, 25, 1879-1886.	0.5	24
126	Osteopontin deposition in remodeling bone: An osteoblast mediated event. <i>Journal of Bone and Mineral Research</i> , 1996, 11, 873-874.	2.8	24



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127	High strength brushite bioceramics obtained by selective regulation of crystal growth with chiral biomolecules. <i>Acta Biomaterialia</i> , 2020, 106, 351-359.	8.3	24
128	Intracolonial plasticity for bone, smooth muscle, and adipocyte lineages in bone marrow stroma fibroblastoid cells. <i>Experimental Cell Research</i> , 2003, 290, 346-357.	2.6	23
129	Bone toughness at the molecular scale: A model for fracture toughness using crosslinked osteopontin on synthetic and biogenic mineral substrates. <i>Bone</i> , 2018, 110, 304-311.	2.9	23
130	Genetic Ablation of Osteopontin in Osteomalacic <i>Hyp</i> Mice Partially Rescues the Deficient Mineralization Without Correcting Hypophosphatemia. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 2032-2048.	2.8	23
131	Defective Mineralization in X-Linked Hypophosphatemia Dental Pulp Cell Cultures. <i>Journal of Dental Research</i> , 2018, 97, 184-191.	5.2	22
132	Extracellular vesicles of calcifying turkey leg tendon characterized by immunocytochemistry and high voltage electron microscopic tomography and 3-D graphic image reconstruction. <i>Bone and Mineral</i> , 1992, 17, 237-241.	1.9	21
133	Calcium oxalate crystals in fetal bovine serum: Implications for cell culture, phagocytosis and biomineralization studies in vitro. <i>Journal of Cellular Biochemistry</i> , 2008, 103, 1379-1393.	2.6	21
134	The effect of SERPINF1 in-frame mutations in osteogenesis imperfecta type VI. <i>Bone</i> , 2015, 76, 115-120.	2.9	21
135	Homochirality in biomineral suprastructures induced by assembly of single-enantiomer amino acids from a nonracemic mixture. <i>Nature Communications</i> , 2019, 10, 2318.	12.8	21
136	Bone Matrix and Mineralization. , 2012, , 9-37.		20
137	Mathematical model for bone mineralization. <i>Frontiers in Cell and Developmental Biology</i> , 2015, 3, 51.	3.7	19
138	Expression and inactivation of osteopontin-degrading PHEX enzyme in squamous cell carcinoma. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 77, 155-164.	2.8	19
139	Mineral tessellation in bone and the stenciling principle for extracellular matrix mineralization. <i>Journal of Structural Biology</i> , 2022, 214, 107823.	2.8	19
140	Cell proliferation and apoptosis in enamel null mice. <i>European Journal of Oral Sciences</i> , 2011, 119, 329-337.	1.5	18
141	Prevention of vascular calcification: is pyrophosphate therapy a solution?. <i>Kidney International</i> , 2011, 79, 490-493.	5.2	18
142	Modulation of calcium oxalate dihydrate growth by phosphorylated osteopontin peptides. <i>Journal of Structural Biology</i> , 2018, 204, 131-144.	2.8	17
143	Multiscale structural evolution of citrate-triggered intrafibrillar and interfibrillar mineralization in dense collagen gels. <i>Journal of Structural Biology</i> , 2020, 212, 107592.	2.8	17
144	Serum Protein Controlled Nanoparticle Synthesis. <i>Advanced Functional Materials</i> , 2011, 21, 2968-2977.	14.9	16

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145	Effects of various agents on staining of the maturation pattern at the surface of rat incisor enamel. Archives of Oral Biology, 1986, 31, 577-585.	1.8	15
146	A radioautographic study of the effects of vinblastine on the fate of injected <sup>45</sup> calcium and [125I]-insulin in the rat incisor. Archives of Oral Biology, 1987, 32, 433-437.	1.8	15
147	Local Regulation of Tooth Mineralization by Sphingomyelin Phosphodiesterase 3. Journal of Dental Research, 2013, 92, 358-364.	5.2	15
148	Constitutive Nuclear Expression of Dentin Matrix Protein 1 Fails to Rescue the Dmp1-null Phenotype. Journal of Biological Chemistry, 2014, 289, 21533-21543.	3.4	15
149	The eggshell: structure and protective function. , 2011, , 151-182.		14
150	Osteopontin as a novel substrate for the proprotein convertase 5/6 (PCSK5) in bone. Bone, 2018, 107, 45-55.	2.9	14
151	A bilayered dense collagen/chitosan hydrogel to model the osteochondral interface. Emergent Materials, 2019, 2, 245-262.	5.7	14
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