

# Marc D Mckee

## List of Publications by Year in descending order

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182  
papers

22,244  
citations

13098  
68  
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8629  
146  
g-index

192  
all docs

192  
docs citations

192  
times ranked

19669  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mineral tessellation in bone and the stenciling principle for extracellular matrix mineralization. Journal of Structural Biology, 2022, 214, 107823.	2.8	19
2	Technical note: Mapping of trabecular bone anisotropy and volume fraction in $\mu$ CT images of the human calcaneus. American Journal of Biological Anthropology, 2022, 177, 566-580.	1.1	2
3	Hierarchical organization of bone in three dimensions: A twist of twists. Journal of Structural Biology: X, 2022, 6, 100057.	1.3	13
4	Optimization of 3D network topology for bioinspired design of stiff and lightweight bone-like structures. Materials Science and Engineering C, 2021, 123, 112010.	7.3	8
5	Mechanisms of Interaction of Biomolecule Phosphate Side Chains with Calcite during Dissolution. Crystal Growth and Design, 2021, 21, 2898-2910.	3.0	0
6	Hypophosphatemic osteosclerosis, hyperostosis, and enthesopathy associated with novel homozygous mutations of DMP1 encoding dentin matrix protein 1 and SPP1 encoding osteopontin: The first digenic SIBLING protein osteopathy?. Bone, 2020, 132, 115190.	2.9	14
7	$\text{FAM20C}$ -Mediated Phosphorylation of $\text{MEPE}$ and Its Acidic Serine- and Aspartate-Rich Motif. JBMR Plus, 2020, 4, e10378.	2.7	7
8	Deep learning for 3D imaging and image analysis in biomineralization research. Journal of Structural Biology, 2020, 212, 107598.	2.8	14
9	Multiscale structural evolution of citrate-triggered intrafibrillar and interfibrillar mineralization in dense collagen gels. Journal of Structural Biology, 2020, 212, 107592.	2.8	17
10	Crossfibrillar mineral tessellation in normal and Hyp mouse bone as revealed by 3D FIB-SEM microscopy. Journal of Structural Biology, 2020, 212, 107603.	2.8	27
11	Genetic Ablation of Osteopontin in Osteomalacic $\text{Hyp}$ Mice Partially Rescues the Deficient Mineralization Without Correcting Hypophosphatemia. Journal of Bone and Mineral Research, 2020, 35, 2032-2048.	2.8	23
12	Nanostructure of mouse otoconia. Journal of Structural Biology, 2020, 210, 107489.	2.8	4
13	High strength brushite bioceramics obtained by selective regulation of crystal growth with chiral biomolecules. Acta Biomaterialia, 2020, 106, 351-359.	8.3	24
14	Luminal calcification and microvasculopathy in fetuin-A-deficient mice lead to multiple organ morbidity. PLoS ONE, 2020, 15, e0228503.	2.5	35
15	Biological stenciling of mineralization in the skeleton: Local enzymatic removal of inhibitors in the extracellular matrix. Bone, 2020, 138, 115447.	2.9	31
16	Polarized light through polycrystalline vaterite helicoids. Chemical Communications, 2020, 56, 7353-7356.	4.1	8
17	The role of extracellular matrix phosphorylation on energy dissipation in bone. ELife, 2020, 9, .	6.0	10
18	Title is missing!. , 2020, 15, e0228503.		0

#	ARTICLE	IF	CITATIONS
19	Title is missing!. , 2020, 15, e0228503.		0
20	Title is missing!. , 2020, 15, e0228503.		0
21	Title is missing!. , 2020, 15, e0228503.		0
22	A bilayered dense collagen/chitosan hydrogel to model the osteochondral interface. Emergent Materials, 2019, 2, 245-262.	5.7	14
23	Homochirality in biomineral suprastructures induced by assembly of single-enantiomer amino acids from a nonracemic mixture. Nature Communications, 2019, 10, 2318.	12.8	21
24	Chiral biomineralized structures and their biomimetic synthesis. Materials Horizons, 2019, 6, 1974-1990.	12.2	29
25	Dynamics of Structural Barriers and Innate Immune Components during Incubation of the Avian Egg: Critical Interplay between Autonomous Embryonic Development and Maternal Anticipation. Journal of Innate Immunity, 2019, 11, 111-124.	3.8	44
26	Bone toughness at the molecular scale: A model for fracture toughness using crosslinked osteopontin on synthetic and biogenic mineral substrates. Bone, 2018, 110, 304-311.	2.9	23
27	Nanostructure, osteopontin, and mechanical properties of calcitic avian eggshell. Science Advances, 2018, 4, eaar3219.	10.3	86
28	Defective Mineralization in X-Linked Hypophosphatemia Dental Pulp Cell Cultures. Journal of Dental Research, 2018, 97, 184-191.	5.2	22
29	Osteopontin as a novel substrate for the proprotein convertase 5/6 (PCSK5) in bone. Bone, 2018, 107, 45-55.	2.9	14
30	Chiral switching in biomineral suprastructures induced by homochiral <scp>l</scp> -amino acid. Science Advances, 2018, 4, eaas9819.	10.3	41
31	Modulation of calcium oxalate dihydrate growth by phosphorylated osteopontin peptides. Journal of Structural Biology, 2018, 204, 131-144.	2.8	17
32	Impaired mineral quality in dentin in X-linked hypophosphatemia. Connective Tissue Research, 2018, 59, 91-96.	2.3	32
33	Chiral acidic amino acids induce chiral hierarchical structure in calcium carbonate. Nature Communications, 2017, 8, 15066.	12.8	129
34	Mineralization-inhibiting effects of transglutaminase-crosslinked polymeric osteopontin. Bone, 2017, 101, 37-48.	2.9	31
35	Persistence of Vascular Calcification after Reversal of Uremia. American Journal of Pathology, 2017, 187, 332-338.	3.8	11
36	Tissue-specific mineralization defects in the periodontium of the Hyp mouse model of X-linked hypophosphatemia. Bone, 2017, 103, 334-346.	2.9	38

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37	Matrix Gla protein deficiency impairs nasal septum growth, causing midface hypoplasia. Journal of Biological Chemistry, 2017, 292, 11400-11412.	3.4	25
38	Osteopontin and the dento-osseous pathobiology of X-linked hypophosphatemia. Bone, 2017, 95, 151-161.	2.9	66
39	Collagen/chitosan composite scaffolds for bone and cartilage tissue engineering. , 2017, , 163-198.		10
40	Diagenesis-inspired reaction of magnesium ions with surface enamel mineral modifies properties of human teeth. Acta Biomaterialia, 2016, 37, 174-183.	8.3	30
41	Design and implementation of the 2012 Canadian shoulder course for senior orthopedic residents. Orthopaedics and Traumatology: Surgery and Research, 2016, 102, 885-890.	2.0	1
42	Expression and inactivation of osteopontin-degrading PHEX enzyme in squamous cell carcinoma. International Journal of Biochemistry and Cell Biology, 2016, 77, 155-164.	2.8	19
43	Letter to the Editor, concerning: "FGF23-regulated production of fetuin-A (AHSG) in osteocytes". Bone, 2016, 93, 223-224.	2.9	5
44	Craniofacial and Dental Defects in the <i>Col1a1</i> <sup>Jrt/+</sup> Mouse Model of Osteogenesis Imperfecta. Journal of Dental Research, 2016, 95, 761-768.	5.2	26
45	Mathematical model for bone mineralization. Frontiers in Cell and Developmental Biology, 2015, 3, 51.	3.7	19
46	The effect of SERPINF1 in-frame mutations in osteogenesis imperfecta type VI. Bone, 2015, 76, 115-120.	2.9	21
47	Extracellular matrix mineralization in murine MC3T3-E1 osteoblast cultures: An ultrastructural, compositional and comparative analysis with mouse bone. Bone, 2015, 71, 244-256.	2.9	86
48	Enamelin Is Critical for Ameloblast Integrity and Enamel Ultrastructure Formation. PLoS ONE, 2014, 9, e89303.	2.5	56
49	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
50	Increased Osteopontin Contributes to Inhibition of Bone Mineralization in FGF23-Deficient Mice. Journal of Bone and Mineral Research, 2014, 29, 693-704.	2.8	76
51	Effects of Full-Length Phosphorylated Osteopontin and Constituent Acidic Peptides and Amino Acids on Calcite Dissolution. Crystal Growth and Design, 2014, 14, 979-987.	3.0	9
52	Tooth root dentin mineralization defects in a mouse model of hypophosphatasia. Journal of Bone and Mineral Research, 2013, 28, 271-282.	2.8	85
53	Polyphosphates inhibit extracellular matrix mineralization in MC3T3-E1 osteoblast cultures. Bone, 2013, 53, 478-486.	2.9	54
54	Effect of Chitosan Incorporation and Scaffold Geometry on Chondrocyte Function in Dense Collagen Type I Hydrogels. Tissue Engineering - Part A, 2013, 19, 2553-2564.	3.1	29

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55	Compounded PHOSPHO1/ALPL Deficiencies Reduce Dentin Mineralization. Journal of Dental Research, 2013, 92, 721-727.	5.2	49
56	Extracellular matrix mineralization in periodontal tissues: Noncollagenous matrix proteins, enzymes, and relationship to hypophosphatasia and X-linked hypophosphatemia. Periodontology 2000, 2013, 63, 102-122.	13.4	54
57	Proteolytic processing of osteopontin by PHEX and accumulation of osteopontin fragments in Hyp mouse bone, the murine model of X-linked hypophosphatemia. Journal of Bone and Mineral Research, 2013, 28, 688-699.	2.8	119
58	Mineralization of Dense Collagen Hydrogel Scaffolds by Human Pulp Cells. Journal of Dental Research, 2013, 92, 648-654.	5.2	57
59	Local Regulation of Tooth Mineralization by Sphingomyelin Phosphodiesterase 3. Journal of Dental Research, 2013, 92, 358-364.	5.2	15
60	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
61	Critical role for $\alpha_2\beta_6$ integrin in enamel biomineralization. Journal of Cell Science, 2012, 126, 732-44.	2.0	31
62	Comparative Temporospatial Expression Profiling of Murine Amelotin Protein during Amelogenesis. Cells Tissues Organs, 2012, 195, 535-549.	2.3	56
63	ATP acts as a survival signal and prevents the mineralization of aortic valve. Journal of Molecular and Cellular Cardiology, 2012, 52, 1191-1202.	1.9	86
64	Intermittent injections of osteocalcin improve glucose metabolism and prevent type 2 diabetes in mice. Bone, 2012, 50, 568-575.	2.9	359
65	Cohesive behavior of soft biological adhesives: Experiments and modeling. Acta Biomaterialia, 2012, 8, 3349-3359.	8.3	54
66	Bone Matrix and Mineralization. , 2012, , 9-37.		20
67	The eggshell: structure, composition and mineralization. Frontiers in Bioscience - Landmark, 2012, 17, 1266.	3.0	315
68	Osteopontin and Wound Healing in Bone. Cells Tissues Organs, 2011, 194, 313-319.	2.3	80
69	Osteoid-Mimicking Dense Collagen/Chitosan Hybrid Gels. Biomacromolecules, 2011, 12, 2946-2956.	5.4	57
70	The Role of the Air-Liquid Interface in Protein-Mediated Biomineralization of Calcium Carbonate. Crystal Growth and Design, 2011, 11, 803-810.	3.0	9
71	483 Extracellular ATP prevents aortic valve mineralization by P2Y2 activation and PI3K/AKT survival pathway. Canadian Journal of Cardiology, 2011, 27, S236-S237.	1.7	0
72	Cell proliferation and apoptosis in enamelin null mice. European Journal of Oral Sciences, 2011, 119, 329-337.	1.5	18

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73	Depth of subchondral perforation influences the outcome of bone marrow stimulation cartilage repair. Journal of Orthopaedic Research, 2011, 29, 1178-1184.	2.3	136
74	Serum Protein Controlled Nanoparticle Synthesis. Advanced Functional Materials, 2011, 21, 2968-2977.	14.9	16
75	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. Journal of Bone and Mineral Research, 2011, 26, 286-297.	2.8	199
76	The biological function of DMP-1 in osteocyte maturation is mediated by its 57-kDa c-terminal fragment. Journal of Bone and Mineral Research, 2011, 26, 331-340.	2.8	120
77	Prevention of vascular calcification: is pyrophosphate therapy a solution?. Kidney International, 2011, 79, 490-493.	5.2	18
78	A cell-autonomous requirement for neutral sphingomyelinase 2 in bone mineralization. Journal of Cell Biology, 2011, 194, 277-289.	5.2	70
79	Enzyme Replacement Therapy Prevents Dental Defects in a Model of Hypophosphatasia. Journal of Dental Research, 2011, 90, 470-476.	5.2	106
80	The eggshell: structure and protective function. , 2011, , 151-182.		14
81	A cell-autonomous requirement for neutral sphingomyelinase 2 in bone mineralization. Journal of Experimental Medicine, 2011, 208, i25-i25.	8.5	0
82	Phosphorylation-dependent inhibition of mineralization by osteopontin ASARM peptides is regulated by PHEX cleavage. Journal of Bone and Mineral Research, 2010, 25, 695-705.	2.8	151
83	Molecular determinants of extracellular matrix mineralization in bone and blood vessels. Current Opinion in Nephrology and Hypertension, 2010, 19, 359-365.	2.0	97
84	Effects of Altered Bone Remodeling and Retention of Cement Lines on Bone Quality in Osteopetrotic Aged c-Src-Deficient Mice. Calcified Tissue International, 2010, 86, 172-183.	3.1	13
85	ASARM mineralization hypothesis: A bridge to progress. Journal of Bone and Mineral Research, 2010, 25, 1191-1192.	2.8	61
86	Collagen Biomineralization In Vivo by Sustained Release of Inorganic Phosphate Ions. Advanced Materials, 2010, 22, 1858-1862.	21.0	70
87	Phosphorylation-dependent mineral-type specificity for apatite-binding peptide sequences. Biomaterials, 2010, 31, 9422-9430.	11.4	55
88	Ultrastructural Analysis of Vascular Calcifications in Uremia. Journal of the American Society of Nephrology: JASN, 2010, 21, 689-696.	6.1	157
89	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
90	Inositol hexakisphosphate inhibits mineralization of MC3T3-E1 osteoblast cultures. Bone, 2010, 46, 1100-1107.	2.9	33

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91	Modulation of Calcium Oxalate Dihydrate Growth by Selective Crystal-face Binding of Phosphorylated Osteopontin and Polyaspartate Peptide Showing Occlusion by Sectoral (Compositional) Zoning. <i>Journal of Biological Chemistry</i> , 2009, 284, 23491-23501.	3.4	60
92	Avian Eggshell Structure and Osteopontin. <i>Cells Tissues Organs</i> , 2009, 189, 38-43.	2.3	37
93	Hand2 controls osteoblast differentiation in the branchial arch by inhibiting DNA binding of Runx2. <i>Development (Cambridge)</i> , 2009, 136, 615-625.	2.5	59
94	Fibrillin Assembly Requires Fibronectin. <i>Molecular Biology of the Cell</i> , 2009, 20, 846-858.	2.1	210
95	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
96	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
97	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
98	Ultrastructure of avian eggshell during resorption following egg fertilization. <i>Journal of Structural Biology</i> , 2009, 168, 527-538.	2.8	67
99	Enzyme Replacement Therapy for Murine Hypophosphatasia. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 777-787.	2.8	222
100	The importance of particle size and DNA condensation salt for calcium phosphate nanoparticle transfection. <i>Biomaterials</i> , 2008, 29, 3384-3392.	11.4	82
101	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
102	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
103	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
104	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
105	Intracellular precipitation of hydroxyapatite mineral and implications for pathologic calcification. <i>Journal of Structural Biology</i> , 2008, 162, 468-479.	2.8	52
106	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
107	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
108	Absence of $\alpha_2\beta_1$ Integrin Is Linked to Initiation and Progression of Periodontal Disease. <i>American Journal of Pathology</i> , 2008, 172, 1271-1286.	3.8	60

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109	Colloidal-gold Immunocytochemical Localization of Osteopontin in Avian Eggshell Gland and Eggshell. <i>Journal of Histochemistry and Cytochemistry</i> , 2008, 56, 467-476.	2.5	54
110	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
111	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
112	Matrix Gla Protein Inhibition of Tooth Mineralization. <i>Journal of Dental Research</i> , 2008, 87, 839-844.	5.2	44
113	Extracellular Matrix Proteins, Alkaline Phosphatase and Pyrophosphate as Molecular Determinants of Bone, Tooth, Kidney and Vascular Calcification. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
114	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
115	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
116	Osteopontin Upregulation and Polymerization by Transglutaminase 2 in Calcified Arteries of Matrix Gla Protein-deficient Mice. <i>Journal of Histochemistry and Cytochemistry</i> , 2007, 55, 375-386.	2.5	55
117	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
118	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
119	Hand transcription factors cooperatively regulate development of the distal midline mesenchyme. <i>Developmental Biology</i> , 2007, 310, 154-168.	2.0	64
120	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
121	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
122	Endocrine Regulation of Energy Metabolism by the Skeleton. <i>Cell</i> , 2007, 130, 456-469.	28.9	2,151
123	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
124	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
125	Smooth muscle cells deficient in osteopontin have enhanced susceptibility to calcification in vitro. <i>Cardiovascular Research</i> , 2005, 66, 324-333.	3.8	93
126	Transglutaminase Crosslinking of SIBLING Proteins in Teeth. <i>Journal of Dental Research</i> , 2005, 84, 607-612.	5.2	31



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127	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
128	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
129	Regression of Medial Elastocalcinosis in Rat Aorta. <i>Circulation</i> , 2005, 112, 1628-1635.	1.6	38
130	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
131	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
132	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
133	Torn ACL: a new bioengineered substitute brought from the laboratory to the knee joint. <i>Applied Bionics and Biomechanics</i> , 2004, 1, 115-121.	1.1	9
134	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
135	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
136	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
137	Intracolon 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
138	Inactivation of the Osteopontin Gene Enhances Vascular Calcification of Matrix Gla Proteinâ€“deficient Mice. <i>Journal of Experimental Medicine</i> , 2002, 196, 1047-1055.	8.5	301
139	Partial Rescue of the Hyp Phenotype by Osteoblast-Targeted PHEX (Phosphate-Regulating Gene with) Tj ETQq1 1 0.784314 rgBT /Overlock 2913-2925.	3.7	92
140	Osteopontin Expression and Regulation in the Testis, Efferent Ducts, and Epididymis of Rats During Postnatal Development Through to Adulthood1. <i>Biology of Reproduction</i> , 2002, 66, 1437-1448.	2.7	43
141	Osteopontin Inhibits Mineral Deposition and Promotes Regression of Ectopic Calcification. <i>American Journal of Pathology</i> , 2002, 161, 2035-2046.	3.8	366
142	Extracellular Matrix Proteins and the Dynamics of Dentin Formation. <i>Connective Tissue Research</i> , 2002, 43, 301-307.	2.3	81
143	Hydroxyapatite Formation and Its Interaction with Osteoblastic Cells. <i>Microscopy and Microanalysis</i> , 2002, 8, 166-167.	0.4	0
144	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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145	Tissue Transglutaminase and Its Substrates in Bone. Journal of Bone and Mineral Research, 2002, 17, 2161-2173.	2.8	111
146	Nanoforms: a new type of protein-associated mineralization. Geochimica Et Cosmochimica Acta, 2001, 65, 63-74.	3.9	57
147	Ovocalysin-32, a Novel Chicken Eggshell Matrix Protein. Journal of Biological Chemistry, 2001, 276, 39243-39252.	3.4	132
148	Osteomalacia in Hyp Mice Is Associated with Abnormal Phex Expression and with Altered Bone Matrix Protein Expression and Deposition <sup>&lt;sup&gt;1&lt;/sup&gt; . Endocrinology, 2001, 142, 926-939.</sup>	2.8	155
149	Role of physical forces in regulating the form and function of the periodontal ligament. Periodontology 2000, 2000, 24, 56-72.	13.4	191
150	Molecular and cellular biology of alveolar bone. Periodontology 2000, 2000, 24, 99-126.	13.4	192
151	Bone matrix proteins. , 2000, , 46-63.		5
152	Phosphate Regulation of Vascular Smooth Muscle Cell Calcification. Circulation Research, 2000, 87, E10-7.	4.5	1,192
153	Identification and localization of lysozyme as a component of eggshell membranes and eggshell matrix. Matrix Biology, 2000, 19, 443-453.	3.6	215
154	Osteopontin. Critical Reviews in Oral Biology and Medicine, 2000, 11, 279-303.	4.4	933
155	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
156	Calcification of Vascular Smooth Muscle Cell Cultures. Circulation Research, 1999, 84, 166-178.	4.5	423
157	Molecular Cloning and Ultrastructural Localization of the Core Protein of an Eggshell Matrix Proteoglycan, Ovocleidin-116. Journal of Biological Chemistry, 1999, 274, 32915-32923.	3.4	137
158	Extracellular matrix calcification: where is the action?. Nature Genetics, 1999, 21, 150-151.	21.4	131
159	Mice Lacking Osteopontin Show Normal Development and Bone Structure but Display Altered Osteoclast Formation In Vitro. Journal of Bone and Mineral Research, 1998, 13, 1101-1111.	2.8	380
160	Developmental appearance and distribution of bone sialoprotein and osteopontin in human and rat cementum. The Anatomical Record, 1998, 250, 13-33.	1.8	131
161	Morphological and immunocytochemical characterization of primary osteogenic cell cultures derived from fetal rat cranial tissue. The Anatomical Record, 1998, 252, 554-567.	1.8	36
162	Spontaneous calcification of arteries and cartilage in mice lacking matrix GLA protein. Nature, 1997, 386, 78-81.	27.8	1,895

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163	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
164	Osteopontin: An Interfacial Extracellular Matrix Protein in Mineralized Tissues. <i>Connective Tissue Research</i> , 1996, 35, 197-205.	2.3	156
165	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
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