John D Bartlett

List of Publications by Year in descending order

112 papers	5,875 citations	70961 41 h-index	76769 74 g-index
114 all docs	114 docs citations	114 times ranked	3556 citing authors

#	Article	IF	Citations
1	Bioengineered Teeth from Cultured Rat Tooth Bud Cells. Journal of Dental Research, 2004, 83, 523-528.	2.5	351
2	Dentin sialoprotein, dentin phosphoprotein, enamelysin and ameloblastin, tooth- specific molecules that are distinctively expressed during murine dental differentiation. European Journal of Oral Sciences, 1998, 106, 963-970.	0.7	254
3	Enamelysin (Matrix Metalloproteinase 20)-deficient Mice Display an Amelogenesis Imperfecta Phenotype. Journal of Biological Chemistry, 2002, 277, 49598-49604.	1.6	228
4	MMP-20 mutation in autosomal recessive pigmented hypomaturation amelogenesis imperfecta. Journal of Medical Genetics, 2005, 42, 271-275.	1.5	212
5	Functions of KLK4 and MMP-20 in dental enamel formation. Biological Chemistry, 2008, 389, 695-700.	1.2	207
6	Molecular cloning and mRNA tissue distribution of a novel matrix metalloproteinase isolated from porcine enamel organ. Gene, 1996, 183, 123-128.	1.0	203
7	Identification and Structural and Functional Characterization of Human Enamelysin (MMP-20)â€,â€¡. Biochemistry, 1997, 36, 15101-15108.	1.2	199
8	Characterization of Recombinant Pig Enamelysin Activity and Cleavage of Recombinant Pig and Mouse Amelogenins. Journal of Dental Research, 1999, 78, 743-750.	2.5	188
9	Fluoride induces oxidative damage and SIRT1/autophagy through ROS-mediated JNK signaling. Free Radical Biology and Medicine, 2015, 89, 369-378.	1.3	178
10	Purification, Characterization, and Cloning of Enamel Matrix Serine Proteinase 1. Journal of Dental Research, 1998, 77, 377-386.	2.5	160
11	Fluoride Induces Endoplasmic Reticulum Stress in Ameloblasts Responsible for Dental Enamel Formation. Journal of Biological Chemistry, 2005, 280, 23194-23202.	1.6	147
12	Dental Enamel Development: Proteinases and Their Enamel Matrix Substrates. ISRN Dentistry, 2013, 2013, 1-24.	1.5	146
13	Proteinâ€“Protein Interactions of the Developing Enamel Matrix. Current Topics in Developmental Biology, 2006, 74, 57-115.	1.0	136
14	Enamelysin and kallikrein-4 mRNA expression in developing mouse molars. European Journal of Oral Sciences, 2002, 110, 307-315.	0.7	121
15	Enamelysin (Matrix Metalloproteinase-20): Localization in the Developing Tooth and Effects of pH and Calcium on Amelogenin Hydrolysis. Journal of Dental Research, 1998, 77, 1580-1588.	2.5	107
16	Decreased Mineral Content in MMP-20 Null Mouse Enamel is Prominent During the Maturation Stage. Journal of Dental Research, 2004, 83, 909-913.	2.5	103
17	Fluoride Induces Endoplasmic Reticulum Stress and Inhibits Protein Synthesis and Secretion. Environmental Health Perspectives, 2008, 116, 1142-1146.	2.8	103
18	Cloning, cDNA Sequence, and Alternative Splicing of Porcine Amelogenin mRNAs. Journal of Dental Research, 1996, 75, 1735-1741.	2.5	97

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19	Mmp-20 and Klk4 Cleavage Site Preferences for Amelogenin Sequences. Journal of Dental Research, 2009, 88, 823-828.	2.5	92
20	Bisphosphonates inhibit stromelysin-1 (MMP-3), matrix metalloelastase (MMP-12), collagenase-3 (MMP-13) and enamelysin (MMP-20), but not urokinase-type plasminogen activator, and diminish invasion and migration of human malignant and endothelial cell lines. Anti-Cancer Drugs, 2002, 13, 245-254.	0.7	91
21	Porcine kallikrein-4 activation, glycosylation, activity, and expression in prokaryotic and eukaryotic hosts. European Journal of Oral Sciences, 2002, 110, 358-365.	0.7	89
22	Mineral Acquisition Rates in Developing Enamel on Maxillary and Mandibular Incisors of Rats and Mice: Implications to Extracellular Acid Loading as Apatite Crystals Mature. Journal of Bone and Mineral Research, 2004, 20, 240-249.	3.1	80
23	Human and Mouse Enamel Phenotypes Resulting from Mutation or Altered Expression of <i>AMEL, ENAM</i>, <i>MMP20</i> and <i>KLK4</i>. Cells Tissues Organs, 2009, 189, 224-229.	1.3	80
24	Mutational analysis of candidate genes in 24 amelogenesis imperfecta families. European Journal of Oral Sciences, 2006, 114, 3-12.	0.7	78
25	Enamelysin mRNA Displays a Developmental Defined Pattern of Expression and Encodes a Protein which Degrades Amelogenin. Connective Tissue Research, 1998, 39, 101-109.	1.1	73
26	Premature Stop Codon inMMP20Causing Amelogenesis Imperfecta. Journal of Dental Research, 2008, 87, 56-59.	2.5	68
27	Sirtuin1 and autophagy protect cells from fluoride-induced cell stress. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 245-255.	1.8	67
28	Immunohistochemical Detection and Distribution of Enamelysin (MMP-20) in Human Odontogenic Tumors. Journal of Dental Research, 2000, 79, 1608-1613.	2.5	57
29	Mutational spectrum ofFAM83H: the C-terminal portion is required for tooth enamel calcification. Human Mutation, 2008, 29, E95-E99.	1.1	57
30	Enamel proteins and proteases in Mmp20 and Klk4 null and doubleâ€null mice. European Journal of Oral Sciences, 2011, 119, 206-216.	0.7	57
31	Cleavage Site Specificity of MMP-20 for Secretory-stage Ameloblastin. Journal of Dental Research, 2010, 89, 785-790.	2.5	54
32	Effect of Kallikrein 4 Loss on Enamel Mineralization. Journal of Biological Chemistry, 2011, 286, 18149-18160.	1.6	54
33	Localization of EMSP1 Expression During Tooth Formation and Cloning of Mouse cDNA. Journal of Dental Research, 2000, 79, 70-76.	2.5	53
34	Mutations in RELT cause autosomal recessive amelogenesis imperfecta. Clinical Genetics, 2019, 95, 375-383.	1.0	49
35	The Acid Test of Fluoride: How pH Modulates Toxicity. PLoS ONE, 2010, 5, e10895.	1.1	49
36	Novel KLK4 and MMP20 Mutations Discovered by Whole-exome Sequencing. Journal of Dental Research, 2013, 92, 266-271.	2.5	47

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37	Fluoride Affects Enamel Protein Content via TGF-Î²1-mediated KLK4 Inhibition. Journal of Dental Research, 2014, 93, 1022-1027.	2.5	47
38	Targeted p120-Catenin Ablation Disrupts Dental Enamel Development. PLoS ONE, 2010, 5, e12703.	1.1	45
39	Inhibition of matrix metalloproteinase-9 activity by doxycycline ameliorates RANK ligand-induced osteoclast differentiation in vitro and in vivo. Experimental Cell Research, 2011, 317, 1454-1464.	1.2	45
40	Developmental analysis and computer modelling of bioengineered teeth. Archives of Oral Biology, 2005, 50, 259-265.	0.8	44
41	Fluorosis: A New Model and New Insights. Journal of Dental Research, 2005, 84, 832-836.	2.5	44
42	A developmental comparison of matrix metalloproteinase-20 and amelogenin null mouse enamel. European Journal of Oral Sciences, 2006, 114, 18-23.	0.7	44
43	Regulation and Interactions of MT1-MMP and MMP-20 in Human Odontoblasts and Pulp Tissuein vitro. Journal of Dental Research, 2002, 81, 354-359.	2.5	40
44	Gelatinase A (MMP-2) in Developing Tooth Tissues and Amelogenin Hydrolysis. Journal of Dental Research, 2001, 80, 1660-1664.	2.5	39
45	MMP-20 Is Predominately a Tooth-Specific Enzyme with a Deep Catalytic Pocket that Hydrolyzes Type V Collagenâ€. Biochemistry, 2006, 45, 3863-3874.	1.2	39
46	Modulation of Cell-Cell Junctional Complexes by Matrix Metalloproteinases. Journal of Dental Research, 2013, 92, 10-17.	2.5	39
47	Expression and Regulation of MMP-20 in Human Tongue Carcinoma Cells. Journal of Dental Research, 2001, 80, 1884-1889.	2.5	38
48	Relationships between protein and mineral during enamel development in normal and genetically altered mice. European Journal of Oral Sciences, 2011, 119, 125-135.	0.7	37
49	Transforming growth factorâ€Î²1 expression is upâ€regulated in maturationâ€stage enamel organ and may induce ameloblast apoptosis. European Journal of Oral Sciences, 2009, 117, 105-112.	0.7	36
50	Comparison of two mouse ameloblast-like cell lines for enamel-specific gene expression. Frontiers in Physiology, 2014, 5, 277.	1.3	36
51	MMP20, KLK4, and MMP20/KLK4 double null mice define roles for matrix proteases during dental enamel formation. Molecular Genetics & Genomic Medicine, 2016, 4, 178-196.	0.6	36
52	Kallikreinâ€related peptidase 4, matrix metalloproteinase 20, and the maturation of murine and porcine enamel. European Journal of Oral Sciences, 2011, 119, 217-225.	0.7	35
53	Expression and localization of membrane type 1 matrix metalloproteinase in tooth tissues. Matrix Biology, 1998, 17, 501-511.	1.5	34
54	Matrix metalloproteinase 20 promotes a smooth enamel surface, a strong dentinoâ€“enamel junction, and a decussating enamel rod pattern. European Journal of Oral Sciences, 2011, 119, 199-205.	0.7	32

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55	Cloning, Characterization, and Expression Analysis of Mouse Enamelysin. Journal of Dental Research, 2000, 79, 1697-1703.	2.5	29
56	Delayed Tooth Eruption in Membrane Type-1 Matrix Metalloproteinase Deficient Mice. Connective Tissue Research, 2003, 44, 300-304.	1.1	28
57	Why Does Enamel in <i>Klk4</i>-Null Mice Break above the Dentino-Enamel Junction?. Cells Tissues Organs, 2011, 194, 211-215.	1.3	28
58	Sirt1 overexpression suppresses fluoride-induced p53 acetylation to alleviate fluoride toxicity in ameloblasts responsible for enamel formation. Archives of Toxicology, 2018, 92, 1283-1293.	1.9	28
59	Formation of the dentino-enamel interface in enamelysin (MMP-20)-deficient mouse incisors. European Journal of Oral Sciences, 2006, 114, 24-29.	0.7	27
60	DPPI May Activate KLK4 during Enamel Formation. Journal of Dental Research, 2009, 88, 323-327.	2.5	27
61	Stress Response Pathways in Ameloblasts: Implications for Amelogenesis and Dental Fluorosis. Cells, 2012, 1, 631-645.	1.8	27
62	Origin, Splicing, and Expression of Rodent Amelogenin Exon 8. Journal of Dental Research, 2006, 85, 894-899.	2.5	26
63	Kallikrein-related peptidase-4 (KLK4): role in enamel formation and revelations from ablated mice. Frontiers in Physiology, 2014, 5, 240.	1.3	26
64	MMP20 and KLK4 activation and inactivation interactions in vitro. Archives of Oral Biology, 2013, 58, 1569-1577.	0.8	25
65	Betaâ€catenin is essential for ameloblast movement during enamel development. European Journal of Oral Sciences, 2016, 124, 221-227.	0.7	25
66	Expression of collagen XVIII and MMP-20 in developing teeth and odontogenic tumors. Matrix Biology, 2004, 23, 153-161.	1.5	23
67	MMP20 Cleaves E-Cadherin and Influences Ameloblast Development. Cells Tissues Organs, 2011, 194, 222-226.	1.3	23
68	Assessment of Dental Fluorosis in Mmp20+/â^' Mice. Journal of Dental Research, 2011, 90, 788-792.	2.5	22
69	MMP20 Modulates Cadherin Expression in Ameloblasts as Enamel Develops. Journal of Dental Research, 2013, 92, 1123-1128.	2.5	22
70	Matrix Metalloproteinase-20 Over-Expression Is Detrimental to Enamel Development: A Mus musculus Model. PLoS ONE, 2014, 9, e86774.	1.1	22
71	Uncoupling protein-2 is an antioxidant that is up-regulated in the enamel organ of fluoride-treated rats. Connective Tissue Research, 2014, 55, 25-28.	1.1	21
72	ATG7 is essential for secretion of iron from ameloblasts and normal growth of murine incisors during aging. Autophagy, 2020, 16, 1851-1857.	4.3	20

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73	New Perspectives on Amelotin and Amelogenesis. Journal of Dental Research, 2015, 94, 642-644.	2.5	18
74	Transcription Factor FoxO1 Is Essential for Enamel Biomineralization. PLoS ONE, 2012, 7, e30357.	1.1	18
75	How fluoride protects dental enamel from demineralization. Journal of International Society of Preventive and Community Dentistry, 2020, 10, 134.	0.4	18
76	Isolation, Characterization, and Chromosomal Location of the Mouse Enamelysin Gene. Genomics, 1999, 62, 308-311.	1.3	17
77	A genetic model for the secretory stage of dental enamel formation. Journal of Structural Biology, 2021, 213, 107805.	1.3	17
78	Two expressed human genes sustain slightly more DNA damage after alkylating agent treatment than an inactive gene. Mutation Research DNA Repair, 1991, 255, 247-256.	3.8	15
79	M180 Amelogenin Processed by MMP20 is Sufficient for Decussating Murine Enamel. Journal of Dental Research, 2013, 92, 1118-1122.	2.5	15
80	Amelogenin- and Enamelysin (Mmp-20)-Deficient Mice Display Altered Birefringence in the Secretory-Stage Enamel Organic Extracellular Matrix. Connective Tissue Research, 2007, 48, 39-45.	1.1	14
81	Kallikrein 4 Is a Secreted Protein. Cancer Research, 2004, 64, 8481-8483.	0.4	13
82	Lysosomal Protease Expression in Mature Enamel. Cells Tissues Organs, 2009, 189, 111-114.	1.3	13
83	Fluoride Does Not Inhibit Enamel Protease Activity. Journal of Dental Research, 2011, 90, 489-494.	2.5	13
84	ADAM10 is Expressed by Ameloblasts, Cleaves the RELT TNF Receptor Extracellular Domain and Facilitates Enamel Development. Scientific Reports, 2019, 9, 14086.	1.6	13
85	MDM2-Mediated p21 Proteasomal Degradation Promotes Fluoride Toxicity in Ameloblasts. Cells, 2019, 8, 436.	1.8	13
86	Histone acetyltransferase promotes fluoride toxicity in LS8 cells. Chemosphere, 2020, 247, 125825.	4.2	13
87	Curcumin suppresses cell growth and attenuates fluoride-mediated Caspase-3 activation in ameloblast-like LS8 cells. Environmental Pollution, 2021, 273, 116495.	3.7	13
88	Delayed tooth eruption in membrane type-1 matrix metalloproteinase deficient mice. Connective Tissue Research, 2003, 44 Suppl 1, 300-4.	1.1	13
89	XBP1 May Determine the Size of the Ameloblast Endoplasmic Reticulum. Journal of Dental Research, 2008, 87, 1058-1062.	2.5	12
90	4-phenylbutyrate Mitigates Fluoride-Induced Cytotoxicity in ALC Cells. Frontiers in Physiology, 2017, 8, 302.	1.3	11

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91	MMP20-generated amelogenin cleavage products prevent formation of fan-shaped enamel malformations. Scientific Reports, 2021, 11, 10570.	1.6	11
92	Altered Ion-responsive Gene Expression in Mmp20 Null Mice. Journal of Dental Research, 2010, 89, 1421-1426.	2.5	9
93	Murine matrix metalloproteinase-20 overexpression stimulates cell invasion into the enamel layer via enhanced Wnt signaling. Scientific Reports, 2016, 6, 29492.	1.6	9
94	Dental malformations associated with biallelic MMP20 mutations. Molecular Genetics & Genomic Medicine, 2020, 8, e1307.	0.6	9
95	E-Cadherin Can Replace N-Cadherin during Secretory-Stage Enamel Development. PLoS ONE, 2014, 9, e102153.	1.1	9
96	Delayed Tooth Eruption in Membrane Type-1 Matrix Metalloproteinase Deficient Mice. Connective Tissue Research, 2003, 44, 300-304.	1.1	8
97	One-step sandwich enzyme immunoassay using monoclonal antibodies for detection of human enamelysin (MMP-20). European Journal of Oral Sciences, 2000, 108, 530-537.	0.7	7
98	Appropriate real-time PCR reference genes for fluoride treatment studies performed in vitro or in vivo. Archives of Oral Biology, 2016, 62, 33-42.	0.8	7
99	The Use of Mouse Models to Investigate Shear Bond Strength in Amelogenesis Imperfecta. Journal of Dental Research, 2011, 90, 1352-1357.	2.5	6
100	Measurement of Fluoride-Induced Endoplasmic Reticulum Stress Using Gaussia Luciferase. Methods in Enzymology, 2011, 491, 111-125.	0.4	6
101	O6-methylguanine-DNA methyltransferase activities from exponentially growing human T lymphocytes: similar activities in controls and Alzheimer's disease patients. Mutagenesis, 1990, 5, 169-172.	1.0	5
102	Growth of Porcine Enamel-, Dentin-, and Cementum-Derived Cells in Collagen-Glycosaminoglycan Matrices in Vitro: Expression of Î±-Smooth Muscle Actin and Contraction. Tissue Engineering, 2003, 9, 175-186.	4.9	4
103	Enamelysin. , 2004, , 561-564.		4
104	Role of N-Cadherin in Intercellular Adhesion, Tissue Development, Cytoskeleton Formation, and Signaling. , 2012, , 396-401.		1
105	Shear bond strength of dentin and deproteinized enamel of amelogenesis imperfecta mouse incisors. Pediatric Dentistry (discontinued), 2014, 36, 130-6.	0.4	1
106	Making the Cut in Dental Enamelâ€"The Discovery of Enamelysin (MMP-20). Journal of Dental Research, 2005, 84, 986-988.	2.5	0
107	Matrix Metalloproteinase-20/Enamelysin. , 2013, , 835-840.		0
108	Activation of the critical enamel protease kallikrein-4. , 2010, , 413-415.		0

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109	The human genetics of amelogenesis imperfecta. , 2010, , 375-381.		0
110	A stress-based mechanism to explain dental fluorosis. , 2010, , 421-423.		0
111	A Potential Mechanism for the Development of Dental Fluorosis. , 2012, , 408-412.		0
112	Matrix Metalloproteinase-20 and Ameloblast Cell Movement in Rows. , 2012, , 367-372.		0