Steven J Brookes

List of Publications by Year in descending order

62 papers	3,028 citations	172207 29 h-index	161609 54 g-index
62 all docs	62 docs citations	62 times ranked	2985 citing authors

#	Article	IF	Citations
1	Self-assembling Peptide Scaffolds Promote Enamel Remineralization. Journal of Dental Research, 2007, 86, 426-430.	2.5	293
2	The developing enamel matrix: nature and function. European Journal of Oral Sciences, 1998, 106, 282-291.	0.7	227
3	Biochemistry and molecular biology of amelogenin proteins of developing dental enamel. Archives of Oral Biology, 1995, 40, 1-14.	0.8	202
4	Amelogenesis Imperfecta; Genes, Proteins, and Pathways. Frontiers in Physiology, 2017, 8, 435.	1.3	190
5	The Effect of Fluoride on the Developing Tooth. Caries Research, 2004, 38, 268-276.	0.9	149
6	Treatment of early caries lesions using biomimetic self-assembling peptides â€“ a clinical safety trial. British Dental Journal, 2013, 215, E6-E6.	0.3	149
7	An in vitro study of the use of photodynamic therapy for the treatment of natural oral plaque biofilms formed in vivo. Journal of Photochemistry and Photobiology B: Biology, 1999, 50, 1-7.	1.7	120
8	Enamel Defects Reflect Perinatal Exposure to Bisphenol A. American Journal of Pathology, 2013, 183, 108-118.	1.9	106
9	Deletion of ameloblastin exon 6 is associated with amelogenesis imperfecta. Human Molecular Genetics, 2014, 23, 5317-5324.	1.4	101
10	Identification of Mutations in SLC24A4, Encoding a Potassium-Dependent Sodium/Calcium Exchanger, as a Cause of Amelogenesis Imperfecta. American Journal of Human Genetics, 2013, 92, 307-312.	2.6	99
11	Hydrostatic pressure modulates proteoglycan metabolism in chondrocytes seeded in agarose. Arthritis and Rheumatism, 2003, 48, 2865-2872.	6.7	92
12	In vitro Studies of the Penetration of Adhesive Resins into Artificial Cariesâ€“Like Lesions. Caries Research, 2001, 35, 136-141.	0.9	87
13	Mutations in C4orf26, Encoding a Peptide with InÂVitro Hydroxyapatite Crystal Nucleation and Growth Activity, Cause Amelogenesis Imperfecta. American Journal of Human Genetics, 2012, 91, 565-571.	2.6	85
14	Binding of Matrix Proteins to Developing Enamel Crystals: An Atomic Force Microscopy Study. Langmuir, 2001, 17, 2508-2513.	1.6	77
15	Physico-chemical properties of crystal surfaces in matrixâ€“mineral interactions during mammalian biomineralisation. Current Opinion in Colloid and Interface Science, 2002, 7, 124-132.	3.4	75
16	The cell adhesion molecule nectin-1 is critical for normal enamel formation in mice. Human Molecular Genetics, 2008, 17, 3509-3520.	1.4	62
17	Spectrum of PEX1 and PEX6 variants in Heimler syndrome. European Journal of Human Genetics, 2016, 24, 1565-1571.	1.4	49
18	A missense mutation in ITGB6 causes pitted hypomineralized amelogenesis imperfecta. Human Molecular Genetics, 2014, 23, 2189-2197.	1.4	46

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19	A mutation in the mouse Amelx tri-tyrosyl domain results in impaired secretion of amelogenin and phenocopies human X-linked amelogenesis imperfecta. Human Molecular Genetics, 2010, 19, 1230-1247.	1.4	42
20	Ameloblastin expression and putative autoregulation in mesenchymal cells suggest a role in early bone formation and repair. Bone, 2011, 48, 406-413.	1.4	41
21	Deletion of amelotin exons 3â€“6 is associated with amelogenesis imperfecta. Human Molecular Genetics, 2016, 25, 3578-3587.	1.4	40
22	Determination of protein regions responsible for interactions of amelogenin with CD63 and LAMP1. Biochemical Journal, 2007, 408, 347-354.	1.7	39
23	Adaptor protein complex 2â€“mediated, clathrin-dependent endocytosis, and related gene activities, are a prominent feature during maturation stage amelogenesis. Journal of Bone and Mineral Research, 2013, 28, 672-687.	3.1	39
24	Copper ions inhibit the demineralisation of human enamel. Archives of Oral Biology, 2003, 48, 25-30.	0.8	35
25	Uptake and metabolism of albumin by rodent incisor enamel In vivo and postmortem: Implications for control of mineralization by albumin. Calcified Tissue International, 1994, 55, 467-472.	1.5	34
26	The chemical composition of tooth enamel in junctional epidermolysis bullosa. Archives of Oral Biology, 2000, 45, 377-386.	0.8	34
27	Enamel Maturation. Novartis Foundation Symposium, 1997, 205, 156-174.	1.2	34
28	Endoplasmic reticulum stress in amelogenesis imperfecta and phenotypic rescue using 4-phenylbutyrate. Human Molecular Genetics, 2014, 23, 2468-2480.	1.4	30
29	Amelin extracellular processing and aggregation during rat incisor amelogenesis. Archives of Oral Biology, 2001, 46, 201-208.	0.8	29
30	Surface chemistry of enamel apatite during maturation in relation to pH: implications for protein removal and crystal growth. Archives of Oral Biology, 2005, 50, 267-270.	0.8	28
31	Plaque biofilms: The effect of chemical environment on natural human plaque biofilm architecture. Archives of Oral Biology, 2006, 51, 1006-1014.	0.8	27
32	Tracking Endogenous Amelogenin and Ameloblastin In Vivo. PLoS ONE, 2014, 9, e99626.	1.1	23
33	The Effect of Glycosylaminoglycans on the Mineralization of Sheep Periodontal LigamentIn Vitro. Connective Tissue Research, 1995, 33, 23-29.	1.1	22
34	Effect of Experimental Fluorosis on the Surface Topography of Developing Enamel Crystals. Caries Research, 2001, 35, 50-56.	0.9	22
35	Defects in the acid phosphatase ACPT cause recessive hypoplastic amelogenesis imperfecta. European Journal of Human Genetics, 2017, 25, 1015-1019.	1.4	22
36	Is the 32â€kDa fragment the functional enamelin unit in all species?. European Journal of Oral Sciences, 2011, 119, 345-350.	0.7	21

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37	Use of Self-Assembled Monolayers as Substrates for Atomic Force Imaging of Hydroxyapatite Crystals from Mammalian Skeletal Tissues. Langmuir, 1999, 15, 8178-8183.	1.6	20
38	Fluoride reduces the expression of enamel proteins and cytokines in an ameloblast-derived cell line. Archives of Oral Biology, 2011, 56, 324-330.	0.8	18
39	Amelogenesis imperfecta caused by N-terminal enamelin point mutations in mice and men is driven by endoplasmic reticulum stress. Human Molecular Genetics, 2017, 26, 1863-1876.	1.4	18
40	New missense variants in RELT causing hypomineralised amelogenesis imperfecta. Clinical Genetics, 2020, 97, 688-695.	1.0	18
41	Intracellular nanosphere subunit assembly as revealed by amelogenin molecular cross-linking studies. European Journal of Oral Sciences, 2006, 114, 280-284.	0.7	17
42	EMD in periodontal regenerative surgery modulates cytokine profiles: A randomised controlled clinical trial. Scientific Reports, 2016, 6, 23060.	1.6	17
43	The Importance of Serine Phosphorylation of Ameloblastin on Enamel Formation. Journal of Dental Research, 2016, 95, 1408-1414.	2.5	16
44	A Fourth KLK4 Mutation Is Associated with Enamel Hypomineralisation and Structural Abnormalities. Frontiers in Physiology, 2017, 8, 333.	1.3	15
45	Preparative SDS PAGE as an Alternative to His-Tag Purification of Recombinant Amelogenin. Frontiers in Physiology, 2017, 8, 424.	1.3	14
46	The Unfolded Protein Response in Amelogenesis and Enamel Pathologies. Frontiers in Physiology, 2017, 8, 653.	1.3	13
47	Spatially related amelogenin interactions in developing rat enamel as revealed by molecular cross-linking studies. Archives of Oral Biology, 2000, 45, 937-943.	0.8	11
48	Enamel Research: Priorities and Future Directions. Frontiers in Physiology, 2017, 8, 513.	1.3	11
49	The Potential Use of Enamel Matrix Derivative for In Situ Anterior Cruciate Ligament Tissue Engineering: A Translational In Vitro Investigation. Tissue Engineering, 2007, 13, 2041-2051.	4.9	10
50	Enamel matrix derivative stimulates expression and secretion of resistin in mesenchymal cells. European Journal of Oral Sciences, 2011, 119, 366-372.	0.7	10
51	Enamel matrix derivative enhances tissue formation around scaffolds used for tissue engineering of ligaments. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, 96-104.	1.3	9
52	The Structure and Composition of Deciduous Enamel Affected by Local Hypoplastic Autosomal Dominant Amelogenesis Imperfecta Resulting from an <i>ENAM</i> Mutation. Cells Tissues Organs, 2010, 191, 301-306.	1.3	9
53	Subfractions of enamel matrix derivative differentially influence cytokine secretion from human oral fibroblasts. Journal of Tissue Engineering, 2015, 6, 204173141557585.	2.3	9
54	Human osteoblastic cells discriminate between 20â€kDa amelogenin isoforms. European Journal of Oral Sciences, 2011, 119, 357-365.	0.7	7

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55	Evidence for direct amelogenin-target cell interactions using dynamic force spectroscopy. European Journal of Oral Sciences, 2006, 114, 219-224.	0.7	5
56	Using ImageJ (Fiji) to Analyze and Present X-Ray CT Images of Enamel. Methods in Molecular Biology, 2019, 1922, 267-291.	0.4	5
57	The Control of Ingress of Albumin into Developing Enamel from Adjacent Dentine of the Rat Incisor. Connective Tissue Research, 1995, 33, 151-155.	1.1	2
58	Cellular uptake and processing of enamel matrix derivative by human periodontal ligament fibroblasts. Archives of Oral Biology, 2013, 58, 348-354.	0.8	1
59	Novel methodology for determining the effect of adsorbates on human enamel acid dissolution. Archives of Oral Biology, 2018, 85, 46-50.	0.8	1
60	Purification of Developing Enamel Matrix Proteins Using Preparative SDS-PAGE. Methods in Molecular Biology, 2019, 1922, 251-265.	0.4	1
61	Editorial: Tooth Enamel: Frontiers in Mineral Chemistry and Biochemistry, Integrative Cell Biology and Genetics. Frontiers in Physiology, 2018, 9, 1153.	1.3	0
62	Initiation and Modulation of Crystal Growth in Skeletal Tissues. , 2003, , .		0