List of Publications by Year in descending order

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FUL RENIASH

#	Article	IF	CITATIONS
1	Self-Assembly and Mineralization of Peptide-Amphiphile Nanofibers. Science, 2001, 294, 1684-1688.	12.6	3,460
2	Selective Differentiation of Neural Progenitor Cells by High-Epitope Density Nanofibers. Science, 2004, 303, 1352-1355.	12.6	2,062
3	Peptide-amphiphile nanofibers: A versatile scaffold for the preparation of self-assembling materials. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5133-5138.	7.1	1,170
4	Amorphous calcium carbonate transforms into calcite during sea urchin larval spicule growth. Proceedings of the Royal Society B: Biological Sciences, 1997, 264, 461-465.	2.6	629
5	Transient amorphous calcium phosphate in forming enamel. Journal of Structural Biology, 2009, 166, 133-143.	2.8	375
6	Self-assembling peptide amphiphile nanofiber matrices for cell entrapment. Acta Biomaterialia, 2005, 1, 387-397.	8.3	285
7	Proteomic response to elevated <i>P</i> CO2 level in eastern oysters, <i>Crassostrea virginica</i> : evidence for oxidative stress. Journal of Experimental Biology, 2011, 214, 1836-1844.	1.7	251
8	Interactive effects of salinity and elevated CO2 levels on juvenile eastern oysters, <i>Crassostrea virginica</i> . Journal of Experimental Biology, 2012, 215, 29-43.	1.7	227
9	Bioinspired Synthesis of Mineralized Collagen Fibrils. Crystal Growth and Design, 2008, 8, 3084-3090.	3.0	205
10	The effect of recombinant mouse amelogenins on the formation and organization of hydroxyapatite crystals in vitro. Journal of Structural Biology, 2005, 149, 182-190.	2.8	188
11	Hierarchical self-assembly of amelogenin and the regulation of biomineralization at the nanoscale. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14097-14102.	7.1	175
12	Biominerals—hierarchical nanocomposites: the example of bone. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2011, 3, 47-69.	6.1	168
13	The hidden structure of human enamel. Nature Communications, 2019, 10, 4383.	12.8	134
14	Role of 20-kDa Amelogenin (P148) Phosphorylation in Calcium Phosphate Formation in Vitro. Journal of Biological Chemistry, 2009, 284, 18972-18979.	3.4	103
15	Primary Structure and Phosphorylation of Dentin Matrix Protein 1 (DMP1) and Dentin Phosphophoryn (DPP) Uniquely Determine Their Role in Biomineralization Biomacromolecules, 2011, 12, 2933-2945.	5.4	101
16	Nanoscale Confinement Controls the Crystallization of Calcium Phosphate: Relevance to Bone Formation. Chemistry - A European Journal, 2013, 19, 14918-14924.	3.3	95
17	Interactive effects of CO2 and trace metals on the proteasome activity and cellular stress response of marine bivalves Crassostrea virginica and Mercenaria mercenaria. Aquatic Toxicology, 2014, 149, 65-82.	4.0	83
18	Effects of phosphorylation on the self-assembly of native full-length porcine amelogenin and its regulation of calcium phosphate formation in vitro. Journal of Structural Biology, 2011, 173, 250-260.	2.8	70

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19	The role of poly(aspartic acid) in the precipitation of calcium phosphate in confinement. Journal of Materials Chemistry B, 2013, 1, 6586.	5.8	67
20	Probing the Organicâ^'Mineral Interface at the Molecular Level in Model Biominerals. Langmuir, 2008, 24, 2680-2687.	3.5	64
21	Assembling a lasing hybrid material with supramolecular polymers and nanocrystals. Nature Materials, 2003, 2, 689-694.	27.5	61
22	Environmental salinity modulates the effects of elevated CO2 levels on juvenile hard shell clams, Mercenaria mercenaria. Journal of Experimental Biology, 2013, 216, 2607-18.	1.7	57
23	Enamelin Is Critical for Ameloblast Integrity and Enamel Ultrastructure Formation. PLoS ONE, 2014, 9, e89303.	2.5	56
24	Biomineralization-related specialization of hemocytes and mantle tissues of the Pacific oysters <i>Crassostrea gigas</i> . Journal of Experimental Biology, 2017, 220, 3209-3221.	1.7	56
25	Phosphate induces formation of matrix vesicles during odontoblast-initiated mineralization in vitro. Matrix Biology, 2016, 52-54, 284-300.	3.6	52
26	Amelogenin-Collagen Interactions Regulate Calcium Phosphate Mineralization in Vitro. Journal of Biological Chemistry, 2010, 285, 19277-19287.	3.4	45
27	Conformational Changes in Salivary Proline-Rich Protein 1 upon Adsorption to Calcium Phosphate Crystals. Langmuir, 2007, 23, 11200-11205.	3.5	44
28	Design and evaluation of collagen-inspired mineral-hydrogel nanocomposites for bone regeneration. Acta Biomaterialia, 2020, 112, 262-273.	8.3	43
29	Hair keratin mutations in tooth enamel increase dental decay risk. Journal of Clinical Investigation, 2014, 124, 5219-5224.	8.2	43
30	Amelogenin phosphorylation regulates tooth enamel formation by stabilizing a transient amorphous mineral precursor. Journal of Biological Chemistry, 2020, 295, 1943-1959.	3.4	42
31	Possible role of DMP1 in dentin mineralization. Journal of Structural Biology, 2011, 174, 100-106.	2.8	41
32	Keratins as components of the enamel organic matrix. Matrix Biology, 2016, 52-54, 260-265.	3.6	31
33	CryoTEM study of effects of phosphorylation on the hierarchical assembly of porcine amelogenin and its regulation of mineralization in vitro. Journal of Structural Biology, 2013, 183, 250-257.	2.8	26
34	Osteoinductivity of calcium phosphate mediated by connexin 43. Biomaterials, 2013, 34, 3763-3774.	11.4	25
35	Effects of cadmium exposure on critical temperatures of aerobic metabolism in eastern oysters Crassostrea virginica (Gmelin, 1791). Aquatic Toxicology, 2015, 167, 77-89.	4.0	24
36	Accelerated enamel mineralization in Dspp mutant mice. Matrix Biology, 2016, 52-54, 246-259.	3.6	24

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37	Reactive oxygen species (ROS) generation as an underlying mechanism of inorganic phosphate (Pi)-induced mineralization of osteogenic cells. Free Radical Biology and Medicine, 2020, 153, 103-111.	2.9	24
38	Regulation of calcium phosphate formation by native amelogenins <i>in vitro</i> . Connective Tissue Research, 2014, 55, 21-24.	2.3	23
39	X-ray Linear Dichroism in Apatite. Journal of the American Chemical Society, 2018, 140, 11698-11704.	13.7	19
40	Effects of environmental hypercapnia and metal (Cd and Cu) exposure on acid-base and metal homeostasis of marine bivalves. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2015, 174-175, 1-12.	2.6	18
41	Localization of Phosphoproteins within the Barnacle Adhesive Interface. Biological Bulletin, 2016, 230, 233-242.	1.8	18
42	Relationships between dentin and enamel mineral at the dentino–enamel boundary: electron tomography and highâ€resolution transmission electron microscopy study. European Journal of Oral Sciences, 2011, 119, 120-124.	1.5	17
43	Protein Phosphorylation and Mineral Binding Affect the Secondary Structure of the Leucine-Rich Amelogenin Peptide. Frontiers in Physiology, 2017, 8, 450.	2.8	17
44	Synthesis of bone-like nanocomposites using multiphosphorylated peptides. Acta Biomaterialia, 2014, 10, 2241-2249.	8.3	16
45	Cryogenic Transmission Electron Microscopy Study of Amelogenin Self-Assembly at Different pH. Cells Tissues Organs, 2011, 194, 166-170.	2.3	15
46	Anisotropy of Chemical Bonds in Collagen Molecules Studied by X-ray Absorption Near-Edge Structure (XANES) Spectroscopy. ACS Chemical Biology, 2012, 7, 476-480.	3.4	15
47	Potential trade-offs between biomineralization and immunity revealed by shell properties and gene expression profiles of two closely related <i>Crassostrea</i> species. Journal of Experimental Biology, 2018, 221, .	1.7	15
48	Anticorrosive Self-Assembled Hybrid Alkylsilane Coatings for Resorbable Magnesium Metal Devices. ACS Biomaterials Science and Engineering, 2017, 3, 518-529.	5.2	14
49	Effect of the Periapical "Inflammatory Plug―on Dental Pulp Regeneration: A Histologic InÂVivo Study. Journal of Endodontics, 2020, 46, 51-56.	3.1	9
50	Role of the Mineral in the Self-Healing of Cracks in Human Enamel. ACS Nano, 2022, 16, 10273-10280.	14.6	9
51	Optimizing Immunostaining of Enamel Matrix: Application of Sudan Black B and Minimization of False Positives from Normal Sera and IgGs. Frontiers in Physiology, 2017, 8, 239.	2.8	8
52	Controlling magnesium corrosion and degradation-regulating mineralization using matrix GLA protein. Acta Biomaterialia, 2019, 98, 142-151.	8.3	8
53	Trps1 transcription factor represses phosphate-induced expression of SerpinB2 in osteogenic cells. Bone, 2020, 141, 115673.	2.9	8
54	Trafficking and secretion of keratin 75 by ameloblasts in vivo. Journal of Biological Chemistry, 2019, 294, 18475-18487.	3.4	7

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55	Porcine keratin 75 in developing enamel. Journal of Oral Biosciences, 2019, 61, 163-172.	2.2	5
56	Loss of biological control of enamel mineralization in amelogenin-phosphorylation-deficient mice. Journal of Structural Biology, 2022, 214, 107844.	2.8	4
57	The Role of Amelogenin in Dental Enamel Formation: A Universal Strategy for Protein-Mediated Biomineralization. , 2010, , 133-142.		3
58	Deficiency of Mineralization-Regulating Transcription Factor Trps1 Compromises Quality of Dental Tissues and Increases Susceptibility to Dental Caries. Frontiers in Dental Medicine, 2022, 3, .	1.4	3
59	<i>In vivo</i> study of selfâ€assembled alkylsilane coated degradable magnesium devices. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 342-351.	3.4	2
60	Co-option of Hair Follicle Keratins into Amelogenesis Is Associated with the Evolution of Prismatic Enamel: A Hypothesis. Frontiers in Physiology, 2017, 8, 823.	2.8	1
61	Immunofluorescence Procedure for Developing Enamel Tissues. Methods in Molecular Biology, 2019, 1922, 191-196.	0.9	1
62	Collagenous Mineralized Tissues: Composition, Structure, and Biomineralization. Biology of Extracellular Matrix, 2021, , 55-74.	0.3	0
63	The phosphorylation of serine55 in enamelin is essential for murine amelogenesis. Matrix Biology, 2022, 111, 245-263.	3.6	0