G H Nancollas

List of Publications by Year
in descending order

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84	5,772	117625	76900
papers	citations	34 h-index	74 g-index

85	85	85	4145
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel insights into actions of bisphosphonates on bone: Differences in interactions with hydroxyapatite. Bone, 2006, 38, 617-627.	2.9	737
2	Crystallization of calcium phosphates. A constant composition study. Journal of the American Chemical Society, 1980, 102, 1553-1557.	13.7	393
3	Mineralization Kinetics: A Constant Composition Approach. Science, 1978, 200, 1059-1060.	12.6	367
4	The Role of Brushite and Octacalcium Phosphate in Apatite Formation. Critical Reviews in Oral Biology and Medicine, 1992, 3, 61-82.	4.4	296
5	Molecular modulation of calcium oxalate crystallization by osteopontin and citrate. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1811-1815.	7.1	258
6	Growth of calcium phosphate on hydroxyapatite crystals. Effect of supersaturation and ionic medium. The Journal of Physical Chemistry, 1974, 78, 2218-2225.	2.9	239
7	Crystal growth of calcium carbonate. A controlled composition kinetic study. The Journal of Physical Chemistry, 1982, 86, 103-107.	2.9	214
8	Crystal growth of calcium phosphates in the presence of magnesium ions. Langmuir, 1985, 1, 119-122.	3.5	211
9	The growth of hydroxyapatite crystals. Archives of Oral Biology, 1970, 15, 731-745.	1.8	197
10	Determination of interfacial tension from crystallization and dissolution data: a comparison with other methods. Advances in Colloid and Interface Science, 1999, 79, 229-279.	14.7	184
11	Salivary statherin. Dependence on sequence, charge, hydrogen bonding potency, and helical conformation for adsorption to hydroxyapatite and inhibition of mineralization. Journal of Biological Chemistry, 1992, 267, 5968-76.	3.4	157
12	Complexes in calcium phosphate solutions. The Journal of Physical Chemistry, 1968, 72, 208-211.	2.9	148
13	The influence of multidentate organic phosphonates on the crystal growth of hydroxyapatite. Calcified Tissue Research, 1973, 13, 295-303.	1.3	138
14	The kinetics of crystal growth. Quarterly Reviews of the Chemical Society, 1964, 18, 1.	2.4	137
15	Enamel Demineralization in Primary and Permanent Teeth. Journal of Dental Research, 2006, 85, 359-363.	5.2	112
16	Kinetics of crystallization of octacalcium phosphate. The Journal of Physical Chemistry, 1984, 88, 2478-2481.	2.9	100
17	The dual role of polyelectrolytes and proteins as mineralization promoters and inhibitors of calcium oxalate monohydrate. Calcified Tissue International, 1989, 45, 122-128.	3.1	96
18	Adsorption of human salivary mucins to hydroxyapatite. Archives of Oral Biology, 1985, 30, 423-427.	1.8	95

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19	Mechanism of Dissolution of Sparingly Soluble Electrolytes. Journal of the American Chemical Society, 2001, 123, 5437-5443.	13.7	88
20	The effects of human salivary cystatins and statherin on hydroxyapatite crystallization. Archives of Oral Biology, 1991, 36, 631-636.	1.8	85
21	Mineral phases of calcium phosphate. The Anatomical Record, 1989, 224, 234-241.	1.8	78
22	Physical and Chemical Considerations of the Role of Firmly and Loosely Bound Fluoride in Caries Prevention. Journal of Dental Research, 1990, 69, 587-594.	5.2	70
23	Influence of Organic Phosphonates on Hydroxyapatite Crystal Growth Kinetics. Langmuir, 1996, 12, 2853-2858.	3.5	69
24	Effect of Stannous and Fluoride Ions on the Rate of Crystal Growth of Hydroxyapatite. Journal of Dental Research, 1972, 51, 1443-1450.	5.2	67
25	Growth of calcium phosphates on hydroxyapatite crystals: The effect of magnesium. Archives of Oral Biology, 1975, 20, 803-808.	1.8	67
26	Hydroxyapatite Binding Domains in Salivary Proteins. Critical Reviews in Oral Biology and Medicine, 1993, 4, 371-378.	4.4	64
27	Adsorption and mineralization effects of citrate and phosphocitrate on hydroxyapatite. Calcified Tissue International, 1991, 49, 134-137.	3.1	62
28	Heterogeneous nucleation of calcium phosphates on solid surfaces in aqueous solution. , 1997, 35, 93-99.		54
29	Nucleation and Crystal Growth of Octacalcium Phosphate on Titanium Oxide Surfaces. Langmuir, 1997, 13, 861-865.	3.5	46
30	Degradation potential of plasma-sprayed hydroxyapatite-coated titanium implants. Journal of Biomedical Materials Research Part B, 1995, 29, 1499-1505.	3.1	44
31	Calculus Formation and Inhibition. Advances in Dental Research, 1994, 8, 307-311.	3.6	42
32	The influence of histatin-5 fragments on the mineralization of hydroxyapatite. Archives of Oral Biology, 1993, 38, 997-1002.	1.8	39
33	The precipitation of silver chloride from aqueous solutions. Part 3.â€”Temperature coefficients of growth and solution. Transactions of the Faraday Society, 1955, 51, 818-823.	0.9	36
34	The effect of pH and temperature on the crystal growth of hydroxyapatite. Archives of Oral Biology, 1972, 17, 1623-1627.	1.8	36
35	Hydroxyapatite mineralization and demineralization in the presence of synthetic phosphorylated pentapeptides. Archives of Oral Biology, 1994, 39, 715-721.	1.8	34
36	A scanning electron microscopic study of the growth of hydroxyapatite crystals. Calcified Tissue Research, 1972, 10, 91-102.	1.3	33

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37	Hydroxyapatite and Carbonated Apatite as Models for the Dissolution Behavior of Human Dental Enamel. Advances in Dental Research, 1987, 1, 314-321.	3.6	33
38	Phase Tranformation During Precipitation of Calcium Salts. , 1982, , 79-99.		32
39	Seeded Growth of Calcium Phosphates: Effect of Different Calcium Phosphate Seed Material. Journal of Dental Research, 1976, 55, 617-624.	5.2	31
40	Crystal growth in aqueous solution at elevated temperatures. Barium sulfate growth kinetics. The Journal of Physical Chemistry, 1983, 87, 4699-4703.	2.9	30
41	Analysis of Particle Size Distribution of Hydroxyapatite Crystallites in the Presence of Synthetic and Natural Polymers. Journal of Dental Research, 1990, 69, 1678-1685.	5.2	28
42	Dual roles of brushite crystals in calcium oxalate crystallization provide physicochemical mechanisms underlying renal stone formation. Kidney International, 2006, 70, 71-78.	5.2	27
43	The seeded growth of calcium phosphates. The kinetics of growth of dicalcium phosphate dihydrate on hydroxyapatite. Calcified Tissue Research, 1976, 21, 171-182.	1.3	26
44	Calcium Phosphatesâ€"Speciation, Solubility, and Kinetic Considerations. ACS Symposium Series, 1979, , 475-497.	0.5	25
45	Crystallization of magnesium oxalate in aqueous solution. Transactions of the Faraday Society, 1961, 57, 2272.	0.9	24
46	The Formation and Remineralization of Artificial White Spot Lesions: A Constant Composition Approach. Journal of Dental Research, 1984, 63, 864-867.	5.2	24
47	Calcium Phosphate Mineralization. Connective Tissue Research, 1989, 21, 239-246.	2.3	24
48	The Kinetics of Dissolution of Tooth Enamel â€" A Constant Composition Study. Journal of Dental Research, 1986, 65, 663-668.	5.2	23
49	Constant Composition Dissolution Kinetics Studies of Human Dentin. Journal of Dental Research, 1996, 75, 1019-1026.	5.2	22
50	The Relationship between Surface Free-Energy and Kinetics in the Mineralization and Demineralization of Dental Hard Tissue. Advances in Dental Research, 1997, 11, 566-575.	3.6	22
51	A rotating disc study of the dissolution of dental enamel. Calcified Tissue Research, 1973, 12, 193-208.	1.3	21
52	Kinetics of dissolution of magnesium fluoride in aqueous solution. Langmuir, 1985, 1, 573-576.	3.5	20
53	Dual constant composition kinetics characterization of apatitic surfaces. Journal of Biomedical Materials Research Part B, 1994, 28, 1411-1418.	3.1	20
54	Crystallization theory relating to urinary stone formation. World Journal of Urology, 1983, 1, 131-137.	2.2	19

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55	Physical Chemical Studies of Calcium Oxalate Crystallization. American Journal of Kidney Diseases, 1991, 17, 392-395.	1.9	19
56	The growth of calcium phosphates on natural enamel. Calcified Tissue Research, 1975, 19, 263-271.	1.3	18
57	Influence of Laser Irradiation on the Constant Composition Kinetics of Enamel Dissolution. Caries Research, 2005, 39, 387-392.	2.0	17
58	Enamel Apatite Nucleation and Crystal Growth. Journal of Dental Research, 1979, 58, 861-870.	5.2	16
59	Determination of Urinary Oxalate by Ion Chromatography. Analytical Letters, 1986, 19, 1487-1499.	1.8	15
60	CHAPTER 9. MECHANISMS OF GROWTH AND DISSOLUTION OF SPARINGLY SOLUBLE SALTS. , 1990, , 365-396.		15
61	The Kinetics of Mineralization of Human Dentin in vitro. Journal of Dental Research, 1981, 60, 1922-1928.	5.2	14
62	The Mineralization of Enamel Surfaces. A Constant Composition Kinetics Study. Journal of Dental Research, 1981, 60, 1783-1792.	5.2	14
63	Precipitation and Dissolution of Alkaline Earth Sulfates: Kinetics and Surface Energy. Reviews in Mineralogy and Geochemistry, 2000, 40, 277-301.	4.8	12
64	The Seeded Growth of Calcium Phosphates on Dentin and Predentin. Journal of Dental Research, 1977, 56, 1369-1375.	5.2	11
65	The Kinetics of Crystallization of Calcium Oxalate Trihydrate. Journal of Urology, 1984, 132, 158-163.	0.4	11
66	The Influence of High- and Low-molecular-weight Inhibitors on Dissolution Kinetics of Hydroxyapatite and Human Enamel in Lactate Buffers: A Constant Composition Study. Journal of Dental Research, 1988, 67, 1493-1498.	5.2	9
67	In vitro System for Calcium Stone Formation: The Constant Composition Model. Contributions To Nephrology, 1987, 58, 49-58.	1.1	8
68	Triamterene and renal stone formation: The influence of triamterene and triamterene stones on calcium oxalate crystallization. Calcified Tissue International, 1987, 40, 79-84.	3.1	8
69	Crystallization in Bile. Hepatology, 1984, 4, 169S-172S.	7.3	6
70	Influence of natural and synthetic inhibitors on the crystallization of calcium oxalate hydrates. World Journal of Urology, 1992, 10, 216.	2.2	6
71	Mineralization Reactions Involving Calcium Carbonates and Phosphates. , 1983, , 155-169.		6
72	The Control of Mineralization on Natural and Implant Surfaces. Materials Research Society Symposia Proceedings, 1999, 599, 99.	0.1	5

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73	The Remineralization of Fluoride-treated Bovine Enamel Surfaces. Journal of Dental Research, 1982, 61, 1094-1098.	5.2	4
74	A kinetic and morphological study of mineralization of bovine tooth enamel surfaces. Archives of Oral Biology, 1980, 25, 95-101.	1.8	3
75	Urinary Stone Analysis by Small-Spot Electron Spectroscopy for Chemical Analysis (ESCA). Applied Spectroscopy, 1990, 44, 1015-1019.	2.2	3
76	Aspects of Calcium Phosphate Crystallization under Urinary Conditions. Fortschritte Der Urologie Und Nephrologie, 1984, , 198-208.	0.1	3
77	The nucleation and growth of calcium phosphate crystals at protein and phosphatidylserine liposome surfaces. Scanning Microscopy, 1996, 10, 499-507; discussion 508.	0.3	3
78	Physical Chemical Studies of Mineralization and Demineralization of Apatites. , 1991, , 273-280.		1
79	The formation of stone minerals. Fortschritte Der Urologie Und Nephrologie, 1982, , 98-107.	0.1	1
80	Dual Constant Composition Kinetics Studies of the Demineralization of Ceramic Plasma Coated Apatite Surfaces. Materials Research Society Symposia Proceedings, 1991, 252, 17.	0.1	0
81	The Influence of Molecular Structure on Apatite Adsorption. Materials Research Society Symposia Proceedings, 1991, 252, 55.	0.1	0
82	The Influence of Some Phosphonic Acids on the Crystal Growth of Calcium Fluoride. , 1995, , 121-129.		0
83	5. Precipitation and Dissolution of Alkaline Earth Sulfates: Kinetics and Surface Energy. , 2001, , 277-302.		0
84	Mineralization Inhibitors and Promoters. , 1989, , 83-90.		0