

G H Nancollas

List of Publications by Year in descending order

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84
papers

5,772
citations

117625

34
h-index

76900

74
g-index

85
all docs

85
docs citations

85
times ranked

4145
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel insights into actions of bisphosphonates on bone: Differences in interactions with hydroxyapatite. <i>Bone</i> , 2006, 38, 617-627.	2.9	737
2	Dual roles of brushite crystals in calcium oxalate crystallization provide physicochemical mechanisms underlying renal stone formation. <i>Kidney International</i> , 2006, 70, 71-78.	5.2	27
3	Enamel Demineralization in Primary and Permanent Teeth. <i>Journal of Dental Research</i> , 2006, 85, 359-363.	5.2	112
4	Influence of Laser Irradiation on the Constant Composition Kinetics of Enamel Dissolution. <i>Caries Research</i> , 2005, 39, 387-392.	2.0	17
5	Molecular modulation of calcium oxalate crystallization by osteopontin and citrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1811-1815.	7.1	258
6	Mechanism of Dissolution of Sparingly Soluble Electrolytes. <i>Journal of the American Chemical Society</i> , 2001, 123, 5437-5443.	13.7	88
7	5. Precipitation and Dissolution of Alkaline Earth Sulfates: Kinetics and Surface Energy. , 2001, , 277-302.		0
8	Precipitation and Dissolution of Alkaline Earth Sulfates: Kinetics and Surface Energy. <i>Reviews in Mineralogy and Geochemistry</i> , 2000, 40, 277-301.	4.8	12
9	Determination of interfacial tension from crystallization and dissolution data: a comparison with other methods. <i>Advances in Colloid and Interface Science</i> , 1999, 79, 229-279.	14.7	184
10	The Control of Mineralization on Natural and Implant Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 1999, 599, 99.	0.1	5
11	The Relationship between Surface Free-Energy and Kinetics in the Mineralization and Demineralization of Dental Hard Tissue. <i>Advances in Dental Research</i> , 1997, 11, 566-575.	3.6	22
12	Nucleation and Crystal Growth of Octacalcium Phosphate on Titanium Oxide Surfaces. <i>Langmuir</i> , 1997, 13, 861-865.	3.5	46
13	Heterogeneous nucleation of calcium phosphates on solid surfaces in aqueous solution. , 1997, 35, 93-99.		54
14	Influence of Organic Phosphonates on Hydroxyapatite Crystal Growth Kinetics. <i>Langmuir</i> , 1996, 12, 2853-2858.	3.5	69
15	Constant Composition Dissolution Kinetics Studies of Human Dentin. <i>Journal of Dental Research</i> , 1996, 75, 1019-1026.	5.2	22
16	The nucleation and growth of calcium phosphate crystals at protein and phosphatidylserine liposome surfaces. <i>Scanning Microscopy</i> , 1996, 10, 499-507; discussion 508.	0.3	3
17	Degradation potential of plasma-sprayed hydroxyapatite-coated titanium implants. <i>Journal of Biomedical Materials Research Part B</i> , 1995, 29, 1499-1505.	3.1	44
18	The Influence of Some Phosphonic Acids on the Crystal Growth of Calcium Fluoride. , 1995, , 121-129.		0

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19	Calculus Formation and Inhibition. <i>Advances in Dental Research</i> , 1994, 8, 307-311.	3.6	42
20	Dual constant composition kinetics characterization of apatitic surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 1994, 28, 1411-1418.	3.1	20
21	Hydroxyapatite mineralization and demineralization in the presence of synthetic phosphorylated pentapeptides. <i>Archives of Oral Biology</i> , 1994, 39, 715-721.	1.8	34
22	The influence of histatin-5 fragments on the mineralization of hydroxyapatite. <i>Archives of Oral Biology</i> , 1993, 38, 997-1002.	1.8	39
23	Hydroxyapatite Binding Domains in Salivary Proteins. <i>Critical Reviews in Oral Biology and Medicine</i> , 1993, 4, 371-378.	4.4	64
24	The Role of Brushite and Octacalcium Phosphate in Apatite Formation. <i>Critical Reviews in Oral Biology and Medicine</i> , 1992, 3, 61-82.	4.4	296
25	Influence of natural and synthetic inhibitors on the crystallization of calcium oxalate hydrates. <i>World Journal of Urology</i> , 1992, 10, 216.	2.2	6
26	Salivary statherin. Dependence on sequence, charge, hydrogen bonding potency, and helical conformation for adsorption to hydroxyapatite and inhibition of mineralization. <i>Journal of Biological Chemistry</i> , 1992, 267, 5968-76.	3.4	157
27	Physical Chemical Studies of Calcium Oxalate Crystallization. <i>American Journal of Kidney Diseases</i> , 1991, 17, 392-395.	1.9	19
28	The effects of human salivary cystatins and statherin on hydroxyapatite crystallization. <i>Archives of Oral Biology</i> , 1991, 36, 631-636.	1.8	85
29	Dual Constant Composition Kinetics Studies of the Demineralization of Ceramic Plasma Coated Apatite Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 1991, 252, 17.	0.1	0
30	The Influence of Molecular Structure on Apatite Adsorption. <i>Materials Research Society Symposia Proceedings</i> , 1991, 252, 55.	0.1	0
31	Adsorption and mineralization effects of citrate and phosphocitrate on hydroxyapatite. <i>Calcified Tissue International</i> , 1991, 49, 134-137.	3.1	62
32	Physical Chemical Studies of Mineralization and Demineralization of Apatites. , 1991, , 273-280.		1
33	CHAPTER 9. MECHANISMS OF GROWTH AND DISSOLUTION OF SPARINGLY SOLUBLE SALTS. , 1990, , 365-396.		15
34	Physical and Chemical Considerations of the Role of Firmly and Loosely Bound Fluoride in Caries Prevention. <i>Journal of Dental Research</i> , 1990, 69, 587-594.	5.2	70
35	Analysis of Particle Size Distribution of Hydroxyapatite Crystallites in the Presence of Synthetic and Natural Polymers. <i>Journal of Dental Research</i> , 1990, 69, 1678-1685.	5.2	28
36	Urinary Stone Analysis by Small-Spot Electron Spectroscopy for Chemical Analysis (ESCA). <i>Applied Spectroscopy</i> , 1990, 44, 1015-1019.	2.2	3

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37	Calcium Phosphate Mineralization. <i>Connective Tissue Research</i> , 1989, 21, 239-246.	2.3	24
38	The dual role of polyelectrolytes and proteins as mineralization promoters and inhibitors of calcium oxalate monohydrate. <i>Calcified Tissue International</i> , 1989, 45, 122-128.	3.1	96
39	Mineral phases of calcium phosphate. <i>The Anatomical Record</i> , 1989, 224, 234-241.	1.8	78
40	Mineralization Inhibitors and Promoters. , 1989, , 83-90.		0
41	The Influence of High- and Low-molecular-weight Inhibitors on Dissolution Kinetics of Hydroxyapatite and Human Enamel in Lactate Buffers: A Constant Composition Study. <i>Journal of Dental Research</i> , 1988, 67, 1493-1498.	5.2	9
42	Hydroxyapatite and Carbonated Apatite as Models for the Dissolution Behavior of Human Dental Enamel. <i>Advances in Dental Research</i> , 1987, 1, 314-321.	3.6	33
43	In vitro System for Calcium Stone Formation: The Constant Composition Model. <i>Contributions To Nephrology</i> , 1987, 58, 49-58.	1.1	8
44	Triamterene and renal stone formation: The influence of triamterene and triamterene stones on calcium oxalate crystallization. <i>Calcified Tissue International</i> , 1987, 40, 79-84.	3.1	8
45	Determination of Urinary Oxalate by Ion Chromatography. <i>Analytical Letters</i> , 1986, 19, 1487-1499.	1.8	15
46	The Kinetics of Dissolution of Tooth Enamel – A Constant Composition Study. <i>Journal of Dental Research</i> , 1986, 65, 663-668.	5.2	23
47	Kinetics of dissolution of magnesium fluoride in aqueous solution. <i>Langmuir</i> , 1985, 1, 573-576.	3.5	20
48	Crystal growth of calcium phosphates in the presence of magnesium ions. <i>Langmuir</i> , 1985, 1, 119-122.	3.5	211
49	Adsorption of human salivary mucins to hydroxyapatite. <i>Archives of Oral Biology</i> , 1985, 30, 423-427.	1.8	95
50	The Formation and Remineralization of Artificial White Spot Lesions: A Constant Composition Approach. <i>Journal of Dental Research</i> , 1984, 63, 864-867.	5.2	24
51	Kinetics of crystallization of octacalcium phosphate. <i>The Journal of Physical Chemistry</i> , 1984, 88, 2478-2481.	2.9	100
52	Crystallization in Bile. <i>Hepatology</i> , 1984, 4, 169S-172S.	7.3	6
53	The Kinetics of Crystallization of Calcium Oxalate Trihydrate. <i>Journal of Urology</i> , 1984, 132, 158-163.	0.4	11
54	Aspects of Calcium Phosphate Crystallization under Urinary Conditions. <i>Fortschritte Der Urologie Und Nephrologie</i> , 1984, , 198-208.	0.1	3

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55	Crystallization theory relating to urinary stone formation. World Journal of Urology, 1983, 1, 131-137.	2.2	19
56	Crystal growth in aqueous solution at elevated temperatures. Barium sulfate growth kinetics. The Journal of Physical Chemistry, 1983, 87, 4699-4703.	2.9	30
57	Mineralization Reactions Involving Calcium Carbonates and Phosphates. , 1983, , 155-169.		6
58	The Remineralization of Fluoride-treated Bovine Enamel Surfaces. Journal of Dental Research, 1982, 61, 1094-1098.	5.2	4
59	Crystal growth of calcium carbonate. A controlled composition kinetic study. The Journal of Physical Chemistry, 1982, 86, 103-107.	2.9	214
60	Phase Transformation During Precipitation of Calcium Salts. , 1982, , 79-99.		32
61	The formation of stone minerals. Fortschritte Der Urologie Und Nephrologie, 1982, , 98-107.	0.1	1
62	The Kinetics of Mineralization of Human Dentin in vitro. Journal of Dental Research, 1981, 60, 1922-1928.	5.2	14
63	The Mineralization of Enamel Surfaces. A Constant Composition Kinetics Study. Journal of Dental Research, 1981, 60, 1783-1792.	5.2	14
64	Crystallization of calcium phosphates. A constant composition study. Journal of the American Chemical Society, 1980, 102, 1553-1557.	13.7	393
65	A kinetic and morphological study of mineralization of bovine tooth enamel surfaces. Archives of Oral Biology, 1980, 25, 95-101.	1.8	3
66	Calcium Phosphates—Speciation, Solubility, and Kinetic Considerations. ACS Symposium Series, 1979, , 475-497.	0.5	25
67	Enamel Apatite Nucleation and Crystal Growth. Journal of Dental Research, 1979, 58, 861-870.	5.2	16
68	Mineralization Kinetics: A Constant Composition Approach. Science, 1978, 200, 1059-1060.	12.6	367
69	The Seeded Growth of Calcium Phosphates on Dentin and Predentin. Journal of Dental Research, 1977, 56, 1369-1375.	5.2	11
70	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
71	Seeded Growth of Calcium Phosphates: Effect of Different Calcium Phosphate Seed Material. Journal of Dental Research, 1976, 55, 617-624.	5.2	31
72	The growth of calcium phosphates on natural enamel. Calcified Tissue Research, 1975, 19, 263-271.	1.3	18

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73	Growth of calcium phosphates on hydroxyapatite crystals: The effect of magnesium. Archives of Oral Biology, 1975, 20, 803-808.	1.8	67
74	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
75	A rotating disc study of the dissolution of dental enamel. Calcified Tissue Research, 1973, 12, 193-208.	1.3	21
76	The influence of multidentate organic phosphonates on the crystal growth of hydroxyapatite. Calcified Tissue Research, 1973, 13, 295-303.	1.3	138
77	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
78	The effect of pH and temperature on the crystal growth of hydroxyapatite. Archives of Oral Biology, 1972, 17, 1623-1627.	1.8	36
79	A scanning electron microscopic study of the growth of hydroxyapatite crystals. Calcified Tissue Research, 1972, 10, 91-102.	1.3	33
80	The growth of hydroxyapatite crystals. Archives of Oral Biology, 1970, 15, 731-745.	1.8	197
81	Complexes in calcium phosphate solutions. The Journal of Physical Chemistry, 1968, 72, 208-211.	2.9	148
82	The kinetics of crystal growth. Quarterly Reviews of the Chemical Society, 1964, 18, 1.	2.4	137
83	Crystallization of magnesium oxalate in aqueous solution. Transactions of the Faraday Society, 1961, 57, 2272.	0.9	24
84	The precipitation of silver chloride from aqueous solutions. Part 3. "Temperature coefficients of growth and solution. Transactions of the Faraday Society, 1955, 51, 818-823.	0.9	36