

Jill Dill Pasteris

List of Publications by Year in descending order

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68
papers

4,498
citations

126907

33
h-index

102487

66
g-index

71
all docs

71
docs citations

71
times ranked

4834
citing authors

#	ARTICLE	IF	CITATIONS
1	A mineralogical perspective on the apatite in bone. <i>Materials Science and Engineering C</i> , 2005, 25, 131-143.	7.3	709
2	Lack of OH in nanocrystalline apatite as a function of degree of atomic order: implications for bone and biomaterials. <i>Biomaterials</i> , 2004, 25, 229-238.	11.4	333
3	Functional Grading of Mineral and Collagen in the Attachment of Tendon to Bone. <i>Biophysical Journal</i> , 2009, 97, 976-985.	0.5	290
4	Necessary, but Not Sufficient: Raman Identification of Disordered Carbon as a Signature of Ancient Life. <i>Astrobiology</i> , 2003, 3, 727-738.	3.0	197
5	Amorphous intergranular phases control the properties of rodent tooth enamel. <i>Science</i> , 2015, 347, 746-750.	12.6	184
6	Mineral Distributions at the Developing Tendon Enthesis. <i>PLoS ONE</i> , 2012, 7, e48630.	2.5	168
7	Development of a laser Raman spectrometer for deep-ocean science. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 739-753.	1.4	142
8	The Tendon-to-Bone Transition of the Rotator Cuff: A Preliminary Raman Spectroscopic Study Documenting the Gradual Mineralization across the Insertion in Rat Tissue Samples. <i>Applied Spectroscopy</i> , 2008, 62, 1285-1294.	2.2	128
9	The nanometre-scale physiology of bone: steric modelling and scanning transmission electron microscopy of collagen's mineral structure. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1774-1786.	3.4	125
10	Raman spectroscopic and laser scanning confocal microscopic analysis of sulfur in living sulfur-precipitating marine bacteria. <i>Chemical Geology</i> , 2001, 180, 3-18.	3.3	122
11	Raman intensities and detection limits of geochemically relevant gas mixtures for a laser Raman microprobe. <i>Analytical Chemistry</i> , 1987, 59, 2165-2170.	6.5	118
12	Practical aspects of quantitative laser Raman microprobe spectroscopy for the study of fluid inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 979-988.	3.9	112
13	Limitations to Quantitative Analysis of Fluid Inclusions in Geological Samples by Laser Raman Microprobe Spectroscopy. <i>Applied Spectroscopy</i> , 1986, 40, 144-151.	2.2	105
14	High-density volatiles in the system C-O-H-N for the calibration of a laser Raman microprobe. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 535-543.	3.9	78
15	Protein-free formation of bone-like apatite: New insights into the key role of carbonation. <i>Biomaterials</i> , 2017, 127, 75-88.	11.4	77
16	Extremely acid Permian lakes and ground waters in North America. <i>Nature</i> , 1998, 392, 911-914.	27.8	75
17	Analysis of individual fluid inclusions by Fourier transform infrared and Raman microspectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 519-533.	3.9	73
18	Raman Spectroscopy in the Deep Ocean: Successes and Challenges. <i>Applied Spectroscopy</i> , 2004, 58, 195A-208A.	2.2	73

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19	Characterization of CO ₂ -CH ₄ -H ₂ O fluid inclusions by microthermometry and laser Raman microprobe spectroscopy: Inferences for clathrate and fluid equilibria. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 1651-1664.	3.9	71
20	Molecular water in nominally unhydrated carbonated hydroxylapatite: The key to a better understanding of bone mineral. <i>American Mineralogist</i> , 2014, 99, 16-27.	1.9	71
21	Formation and Aggregation of Lead Phosphate Particles: Implications for Lead Immobilization in Water Supply Systems. <i>Environmental Science & Technology</i> , 2018, 52, 12612-12623.	10.0	67
22	Fluid-Deposited Graphitic Inclusions in Quartz: Comparison Between KTB (German Continental) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 <i>Cosmochimica Acta</i> , 1998, 62, 109-122.	3.9	55
23	Structural Water in Carbonated Hydroxylapatite and Fluorapatite: Confirmation by Solid State ² H NMR. <i>Calcified Tissue International</i> , 2012, 90, 60-67.	3.1	55
24	Allometry of the Tendon Enthesis: Mechanisms of Load Transfer Between Tendon and Bone. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 111005.	1.3	52
25	The multiscale structural and mechanical effects of mouse supraspinatus muscle unloading on the mature entheses. <i>Acta Biomaterialia</i> , 2019, 83, 302-313.	8.3	52
26	Occurrence of graphite in serpentinized olivines in kimberlite. <i>Geology</i> , 1981, 9, 356.	4.4	41
27	Interpretation of the sulfide assemblages in a suite of xenoliths from Kilbourne Hole, New Mexico. <i>Special Paper of the Geological Society of America</i> , 1987, , 25-46.	0.5	41
28	Chemistry of bone mineral, based on the hypermineralized rostrum of the beaked whale <i>Mesoplodon densirostris</i> . <i>American Mineralogist</i> , 2014, 99, 645-653.	1.9	41
29	A mineralogical view of apatitic biomaterials. <i>American Mineralogist</i> , 2016, 101, 2594-2610.	1.9	40
30	Experimental fluoridation of nanocrystalline apatite. <i>American Mineralogist</i> , 2009, 94, 53-63.	1.9	37
31	Zambales ophiolite, Philippines. <i>Contributions To Mineralogy and Petrology</i> , 1989, 103, 64-77.	3.1	36
32	Immobilization of Lead with Nanocrystalline Carbonated Apatite Present in Fish Bone. <i>Environmental Engineering Science</i> , 2008, 25, 725-736.	1.6	36
33	The Ability of Phosphate To Prevent Lead Release from Pipe Scale When Switching from Free Chlorine to Monochloramine. <i>Environmental Science & Technology</i> , 2020, 54, 879-888.	10.0	36
34	Sensitivity of Micro-Raman Spectrum to Crystallite Size of Electro-spray-Deposited and Post-Annealed Films of Iron-Oxide Nanoparticle Suspensions. <i>Applied Spectroscopy</i> , 2009, 63, 627-635.	2.2	35
35	Theoretical and practical aspects of differential partitioning of gases by clathrate hydrates in fluid inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 631-639.	3.9	33
36	Applications of the laser Raman microprobe RAMANOR U-1000 to hydrothermal ore deposits; Carlin as an example. <i>Economic Geology</i> , 1986, 81, 915-930.	3.8	32

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37	The significance of groundmass ilmenite and megacryst ilmenite in kimberlites. <i>Contributions To Mineralogy and Petrology</i> , 1981, 75, 315-325.	3.1	31
38	Tracing the pathway of compositional changes in bone mineral with age: Preliminary study of bioapatite aging in hypermineralized dolphin's bulla. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2331-2339.	2.4	31
39	Understanding the Mineralogical Composition of Ancient Greek Pottery through Raman Microprobe Spectroscopy. <i>Applied Spectroscopy</i> , 2002, 56, 1320-1328.	2.2	29
40	Welcome to Raman Spectroscopy: Successes, Challenges, and Pitfalls. <i>Elements</i> , 2020, 16, 87-92.	0.5	29
41	Impact of orthophosphate on lead release from pipe scale in high pH, low alkalinity water. <i>Water Research</i> , 2020, 177, 115764.	11.3	27
42	Long Bone Structure and Strength Depend on BMP2 from Osteoblasts and Osteocytes, but Not Vascular Endothelial Cells. <i>PLoS ONE</i> , 2014, 9, e96862.	2.5	26
43	Tunability of collagen matrix mechanical properties via multiple modes of mineralization. <i>Interface Focus</i> , 2016, 6, 20150070.	3.0	24
44	The structure and solubility of carbonated hydroxyl and chloro lead apatites. <i>Polyhedron</i> , 2010, 29, 2364-2372.	2.2	23
45	Variability in the Raman Spectrum of Unpolished Growth and Fracture Surfaces of Pyrite Due to Laser Heating and Crystal Orientation. <i>Applied Spectroscopy</i> , 2018, 72, 37-47.	2.2	23
46	Secondary graphitization in mantle-derived rocks. <i>Geology</i> , 1988, 16, 804.	4.4	22
47	With a Grain of Salt: What Halite Has to Offer to Discussions on the Origin of Life. <i>Astrobiology</i> , 2006, 6, 625-643.	3.0	22
48	Dehydration and Rehydration of Carbonated Fluor- and Hydroxylapatite. <i>Minerals (Basel)</i> , 2020, 10, 302	2.0	22
49	Synthesis, structure, and solubility of carbonated barium chlor- and hydroxylapatites. <i>Polyhedron</i> , 2012, 44, 143-149.	2.2	21
50	Hypermineralized Whale Rostrum as the Exemplar for Bone Mineral. <i>Connective Tissue Research</i> , 2013, 54, 167-175.	2.3	20
51	Heterogeneous Lead Phosphate Nucleation at Organic-Water Interfaces: Implications for Lead Immobilization. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 869-877.	2.7	16
52	Laser Raman spectroscopy used to study the ocean at 3600-m depth. <i>Eos</i> , 2002, 83, 469.	0.1	12
53	Structural effects on incorporated water in carbonated apatites. <i>American Mineralogist</i> , 2015, 100, 274-280.	1.9	11
54	A mineralogical study in contrasts: highly mineralized whale rostrum and human enamel. <i>Scientific Reports</i> , 2015, 5, 16511.	3.3	10

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55	Quantitative Analysis of Mixed Volatile Fluids by Raman Microprobe Spectroscopy: A Cautionary Note on Spectral Resolution and Peak Shape. <i>Applied Spectroscopy</i> , 1993, 47, 816-820.	2.2	9
56	Synthesis and structure of carbonated barium and lead fluorapatites: Effect of cation size on A-type carbonate substitution. <i>American Mineralogist</i> , 2014, 99, 2176-2186.	1.9	9
57	Geoscience Meets Biology: Raman Spectroscopy in Geobiology and Biomineralization. <i>Elements</i> , 2020, 16, 111-116.	0.5	9
58	A-type substitution in carbonated strontium fluor-, chlor- and hydroxylapatites. <i>Mineralogical Magazine</i> , 2015, 79, 399-412.	1.4	6
59	Impact of iron-rich scale in service lines on lead release to water. <i>AWWA Water Science</i> , 2020, 2, e1188.	2.1	6
60	Kimberlites: Strange bodies?. <i>Eos</i> , 1981, 62, 713-716.	0.1	4
61	Worth a Closer Look: Raman Spectra of Lead-Pipe Scale. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1047.	2.0	4
62	Erratum to <i>Geochim. Cosmochim.</i> . <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 215.	3.9	2
63	Heterogeneous bioapatite carbonation in western painted turtles is unchanged after anoxia. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2019, 233, 74-83.	1.8	2
64	Adaptation of SGE-USGS heating-freezing stage for operation down to -196 degrees C. <i>Economic Geology</i> , 1983, 78, 164-169.	3.8	2
65	The Nano-Physiology of Mineralized Tissues. , 2009, , .		1
66	Recent Advances In The Analysis And Interpretation Of C-O-H-N Fluids By Application Of Laser Raman Microspectroscopy. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1990, 48, 276-277.	0.0	1
67	Enlightening Points. <i>Science News</i> , 1994, 146, 19.	0.1	0
68	Hypermineralized whale rostrum as the exemplar for bone mineral. <i>Connective Tissue Research</i> , 2013, , 130125073616004.	2.3	0