Manuel Prieto

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1307169/publications.pdf

Version: 2024-02-01

76	2,858	159585	182427
papers	citations	30	51
		h-index	g-index

77	77	77	2386
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluid supersaturation and crystallization in porous media. Geological Magazine, 1995, 132, 1-13.	1.5	163
2	Experimental determination of the dissolution rates of calcite, aragonite, and bivalves. Chemical Geology, 2005, 216, 59-77.	3.3	144
3	Nucleation, growth, and zoning phenomena in crystallizing (Ba,Sr)CO3, Ba(SO4,CrO4), (Ba,Sr)SO4, and (Cd,Ca)CO3 solid solutions from aqueous solutions. Geochimica Et Cosmochimica Acta, 1997, 61, 3383-3397.	3.9	143
4	Uptake of dissolved Cd by biogenic and abiogenic aragonite: a comparison with sorption onto calcite. Geochimica Et Cosmochimica Acta, 2003, 67, 3859-3869.	3.9	131
5	Experimentally produced oscillatory zoning in the (Ba, Sr)SO4 solid solution. Nature, 1992, 358, 743-745.	27.8	129
6	The role of sulfate groups in controlling CaCO3 polymorphism. Geochimica Et Cosmochimica Acta, 2010, 74, 6064-6076.	3.9	125
7	Removal of Cadmium from Wastewaters by Aragonite Shells and the Influence of Other Divalent Cations. Environmental Science & Technology, 2007, 41, 112-118.	10.0	114
8	How do mineral coatings affect dissolution rates? An experimental study of coupled CaCO3 dissolutionâ€"CdCO3 precipitation. Geochimica Et Cosmochimica Acta, 2005, 69, 5459-5476.	3.9	109
9	Thermodynamics of Solid Solution-Aqueous Solution Systems. Reviews in Mineralogy and Geochemistry, 2009, 70, 47-85.	4.8	109
10	Crystallization of solid solutions from aqueous solutions in a porous medium: zoning in (Ba,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	1.5	108
11	Direct calculation of thermodynamic properties of the barite/celestite solid solution from molecular principles. Physics and Chemistry of Minerals, 2000, 27, 291-300.	0.8	78
12	In situ AFM observations of the interaction between calcite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mo		

#	Article	IF	Citations
19	Environmental Remediation by Crystallization of Solid Solutions. Elements, 2013, 9, 195-201.	0.5	46
20	Factors controlling the kinetics of crystallization: supersaturation evolution in a porous medium. Application to barite crystallization. Geological Magazine, 1990, 127, 485-495.	1.5	45
21	Nanoscale phenomena during the growth of solid solutions on calcite {101Â¯4} surfaces. Chemical Geology, 2006, 225, 322-335.	3.3	44
22	Nucleation and supersaturation in porous media (revisited). Mineralogical Magazine, 2014, 78, 1437-1447.	1.4	42
23	Crystallization behavior of solid solutions from aqueous solutions: An environmental perspective. Progress in Crystal Growth and Characterization of Materials, 2016, 62, 29-68.	4.0	42
24	Co-crystallization of Co(II) with calcite: Implications for the mobility of cobalt in aqueous environments. Chemical Geology, 2008, 254, 87-100.	3.3	37
25	Concentric zoning patterns in crystallizing (Cd,Ca)CO3 solid solutions from aqueous solutions. Mineralogical Magazine, 1999, 63, 331-343.	1.4	36
26	Sorption of chromate ions diffusing through barite-hydrogel composites: implications for the fate and transport of chromium in the environment. Geochimica Et Cosmochimica Acta, 2002, 66, 783-795.	3.9	36
27	Spatial and evolutionary aspects of nucleation in diffusing-reacting systems. Journal of Crystal Growth, 1991, 108, 770-778.	1.5	35
28	Title is missing!. Aquatic Geochemistry, 2000, 6, 133-146.	1.3	35
29	Supersaturation evolution and first precipitate location in crystal growth in gels; application to barium and strontium carbonates. Journal of Crystal Growth, 1989, 98, 447-460.	1.5	34
30	Characterization and Crystallization of Ba(SO4,SeO4) Solid Solution. Crystal Growth and Design, 2005, 5, 1371-1378.	3.0	33
31	Miscibility in the CaSO4Â·2H2Oâ€“CaSeO4Â·2H2O system: Implications for the crystallisation and dehydration behaviour. Chemical Geology, 2006, 225, 256-265.	3.3	33
32	Precipitation and mixing properties of the â€œdisorderedâ€•(Mn,Ca)CO3 solid solution. Geochimica Et Cosmochimica Acta, 2009, 73, 6147-6161.	3.9	32
33	Bis(thiourea)cadmium Halides. Acta Crystallographica Section C: Crystal Structure Communications, 1998, 54, 1225-1229.	0.4	31
34	In situ atomic force microscope observations of a dissolutionâ€“crystallisation reaction: the phosgeniteâ€“cerussite transformation. Geochimica Et Cosmochimica Acta, 2000, 64, 215-221.	3.9	31
35	Growth of calcite crystals with non-singular faces. Journal of Crystal Growth, 1981, 52, 864-867.	1.5	27
36	Metastability in drowning-out crystallisation: precipitation of highly soluble sulphates. Journal of Crystal Growth, 2001, 222, 317-327.	1.5	26

#	Article	IF	Citations
37	Crystallisation of Ba(SO4, CrO4) solid solutions from aqueous solutions. Journal of Crystal Growth, 1999, 200, 227-235.	1.5	25
38	Interaction of gypsum with As(V)-bearing aqueous solutions: Surface precipitation of guerinite, sainfeldite, and Ca2NaH(AsO4)2{middle dot}6H2O, a synthetic arsenate. American Mineralogist, 2008, 93, 928-939.	1.9	25
39	In situ AFM study of the interaction between calcite {101Â¯4} surfaces and supersaturated Mn2+â€“CO32â¯ aqueous solutions. Journal of Crystal Growth, 2009, 311, 4730-4739.	1.5	24
40	Interaction of gypsum with lead in aqueous solutions. Applied Geochemistry, 2010, 25, 1008-1016.	3.0	22
41	Kinetics of the solvent-mediated transformation of hydromagnesite into magnesite at different temperatures. Mineralogical Magazine, 2014, 78, 1363-1372.	1.4	22
42	Mass-transfer and supersaturation in crystal growth in gels. Journal of Crystal Growth, 1988, 92, 61-68.	1.5	21
43	Nucleation of solid solutions crystallizing from aqueous solutions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 615-632.	3.4	21
44	2. Thermodynamics of Solid Solution- Aqueous Solution Systems. , 2009, , 47-86.		21
45	Interaction of phosphate-bearing solutions with gypsum: Epitaxy and induced twinning of brushite (CaHPO4{middle dot}2H2O) on the gypsum cleavage surface. American Mineralogist, 2009, 94, 313-322.	1.9	21
46	AFM study of the epitaxial growth of brushite (CaHPO4{middle dot}2H2O) on gypsum cleavage surfaces. American Mineralogist, 2010, 95, 1747-1757.	1.9	19
47	Effect of ferrous iron on the nucleation and growth of CaCO₃in slightly basic aqueous solutions. CrystEngComm, 2017, 19, 447-460.	2.6	19
48	Mixing Properties and Crystallization Behaviour of the Scheeliteâ¯Powellite Solid Solution. Crystal Growth and Design, 2007, 7, 545-552.	3.0	16
49	Reaction pathways and textural aspects of the replacement of anhydrite by calcite at 25 Â°C. American Mineralogist, 2017, 102, 1270-1278.	1.9	16
50	Comment: Supersaturation in binary solid solution-Aqueous solution systems: (Comment on) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 232 Numerische Mathematik, 2007, 307, 1034-1045.	1.4	15
51	Thermodynamic properties of the (Ba,Pb)SO4 solid solution under ambient conditions: Implications for the behavior of Pb and Ra in the environment. Geochimica Et Cosmochimica Acta, 2013, 105, 31-43.	3.9	15
52	Fourier transform Raman spectroscopic study of Ba(SO4)x(CrO4)1â¯x solid solution. Journal of Raman Spectroscopy, 1999, 30, 105-114.	2.5	12
53	Crystallization of zoned (Ba,Pb)SO4 single crystals from aqueous solutions in silica gel. Journal of Crystal Growth, 2008, 310, 4616-4622.	1.5	12
54	Crystallization of the (Cd,Ca)CO3 solid solution in double diffusion systems: the partitioning behaviour of Cd2+ in calcite at different supersaturation rates. Mineralogical Magazine, 2008, 72, 433-436.	1.4	12

#	Article	IF	Citations
55	Ontogeny of baryte crystals grown in a porous medium. Mineralogical Magazine, 1992, 56, 587-598.	1.4	11
56	Topotaxy relationships in the transformation phosgenite-cerussite. Journal of Crystal Growth, 1996, 158, 340-345.	1.5	11
57	Crystallization Behaviour of Iron-Hydroxide Sulphates by Aging under Ambient Temperature Conditions. Minerals (Basel, Switzerland), 2019, 9, 27.	2.0	11
58	Solid solutions: from theory to experiment. Chemical Geology, 2006, 225, 173-175.	3.3	10
59	The Link between Brushite and Gypsum: Miscibility, Dehydration, and Crystallochemical Behavior in the CaHPO₄Â·2H₂Oâ€“CaSO₄Â·2H₂O System. Crystal Growth and Design, 2012, 12, 445-455.	3.0	10
60	Epitactic Overgrowths of Calcite (CaCO₃) on Anhydrite (CaSO₄) Cleavage Surfaces. Crystal Growth and Design, 2018, 18, 1666-1675.	3.0	10
61	Structure and crystallization behavior of the (Ba,Sr)HAsO₄Â·H₂O solid-solution in aqueous environments. American Mineralogist, 2004, 89, 601-609.	1.9	9
62	Crystal structure of barium selenate, BaSeO4. Zeitschrift Fur Kristallographie - New Crystal Structures, 2005, 220, 5-6.	0.3	9
63	Crystallization behaviour of the (Mn,Ca)CO₃ solid solution in silica gel: nucleation, growth and zoning phenomena. Mineralogical Magazine, 2009, 73, 269-284.	1.4	9
64	Formation of primary fluid inclusions under influence of the hydrodynamic environment. European Journal of Mineralogy, 1996, 8, 987-996.	1.3	9
65	Growth of Î²-LiNaSO4 and Li2SO4 Â· H2O: epitaxy and intergrowth phenomena. Journal of Crystal Growth, 1995, 148, 283-288.	1.5	7
66	Dehydration behaviour of the Ca(SO₄,HPO₄).2H₂O solid solution. Mineralogical Magazine, 2008, 72, 277-281.	1.4	7
67	Dissolutionâ€“Recrystallization of (Mg,Fe)CO₃ during Hydrothermal Cycles: Fe^{II}/Fe^{III} Conundrums in the Carbonation of Ferromagnesian Minerals. Crystal Growth and Design, 2017, 17, 4170-4182.	3.0	6
68	Interaction of Nonideal, Multicomponent Solid Solutions With Water: A Simple Algorithm to Estimate Final Equilibrium States. Geochemistry, Geophysics, Geosystems, 2018, 19, 1348-1359.	2.5	6
69	Dissolution and Sorption Processes on the Surface of Calcite in the Presence of High Co2+ Concentration. Minerals (Basel, Switzerland), 2017, 7, 23.	2.0	5
70	Development of Compositional Patterns during the Growth of Solid Solutions from Aqueous Solutions: A Cellular Automaton Simulation. Crystal Growth and Design, 2014, 14, 2782-2793.	3.0	4
71	Crystallization of Î²â€³-LiNH4SO4 and (NH4)2SO4 in gels: growth morphology and epitaxy phenomena. Journal of Crystal Growth, 1997, 177, 102-110.	1.5	3
72	FT-Raman spectra of cisâ€“bis(thiourea)selenium(II) chloride and bromide. Journal of Molecular Structure, 1999, 510, 107-112.	3.6	3

#	Article	IF	Citations
73	Epitaxial Overgrowth of LiKSO4 on Î²â€“K2SO4 Single Crystals. Crystal Research and Technology, 1995, 30, 775-783.	1.3	2
74	Uptake of Cd from seawater by calcite. Mineralogical Magazine, 2008, 72, 389-392.	1.4	1
75	Crystal structure of dicalcium sodium monohydrogen diarsenate hexahydrate, Ca2Na[HAsO4][AsO4] Â· 6H2O. Zeitschrift Fur Kristallographie - New Crystal Structures, 2006, 221, 241-242.	0.3	0
76	Biomineralization and biomimetic materials: Preface. European Journal of Mineralogy, 2014, 26, 455-456.	1.3	0