

# Manuel Prieto

## List of Publications by Year in descending order

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76  
papers

2,858  
citations

159585

30  
h-index

182427

51  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2386  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallization Behaviour of Iron-Hydroxide Sulphates by Aging under Ambient Temperature Conditions. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 27.	2.0	11
2	Epitactic Overgrowths of Calcite (CaCO <sub>3</sub> ) on Anhydrite (CaSO <sub>4</sub> ) Cleavage Surfaces. <i>Crystal Growth and Design</i> , 2018, 18, 1666-1675.	3.0	10
3	Interaction of Nonideal, Multicomponent Solid Solutions With Water: A Simple Algorithm to Estimate Final Equilibrium States. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1348-1359.	2.5	6
4	Effect of ferrous iron on the nucleation and growth of CaCO <sub>3</sub> in slightly basic aqueous solutions. <i>CrystEngComm</i> , 2017, 19, 447-460.	2.6	19
5	Reaction pathways and textural aspects of the replacement of anhydrite by calcite at 25 Å°C. <i>American Mineralogist</i> , 2017, 102, 1270-1278.	1.9	16
6	Dissolutionâ€“Recrystallization of (Mg,Fe)CO <sub>3</sub> during Hydrothermal Cycles: Fe <sup>II</sup> /Fe <sup>III</sup> Conundrums in the Carbonation of Ferromagnesian Minerals. <i>Crystal Growth and Design</i> , 2017, 17, 4170-4182.	3.0	6
7	Dissolution and Sorption Processes on the Surface of Calcite in the Presence of High Co <sup>2+</sup> Concentration. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 23.	2.0	5
8	Crystallization behavior of solid solutions from aqueous solutions: An environmental perspective. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2016, 62, 29-68.	4.0	42
9	Thermal Stability of Ettringite Exposed to Atmosphere: Implications for the Uptake of Harmful Ions by Cement. <i>Environmental Science &amp; Technology</i> , 2015, 49, 7957-7964.	10.0	52
10	Development of Compositional Patterns during the Growth of Solid Solutions from Aqueous Solutions: A Cellular Automaton Simulation. <i>Crystal Growth and Design</i> , 2014, 14, 2782-2793.	3.0	4
11	Biom mineralization and biomimetic materials: Preface. <i>European Journal of Mineralogy</i> , 2014, 26, 455-456.	1.3	0
12	Nucleation and supersaturation in porous media (revisited). <i>Mineralogical Magazine</i> , 2014, 78, 1437-1447.	1.4	42
13	Kinetics of the solvent-mediated transformation of hydromagnesite into magnesite at different temperatures. <i>Mineralogical Magazine</i> , 2014, 78, 1363-1372.	1.4	22
14	Environmental Remediation by Crystallization of Solid Solutions. <i>Elements</i> , 2013, 9, 195-201.	0.5	46
15	Thermodynamic properties of the (Ba,Pb)SO <sub>4</sub> solid solution under ambient conditions: Implications for the behavior of Pb and Ra in the environment. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 105, 31-43.	3.9	15
16	The Link between Brushite and Gypsum: Miscibility, Dehydration, and Crystallochemical Behavior in the CaHPO <sub>4</sub> ·2H <sub>2</sub> Oâ€“CaSO <sub>4</sub> ·2H <sub>2</sub> O System. <i>Crystal Growth and Design</i> , 2012, 12, 445-455.	3.0	10
17	lâ€“STAL, a model for interpretation of Mg/Ca, Sr/Ca and Ba/Ca variations in speleothems and its forward and inverse application on seasonal to millennial scales. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	56
18	AFM study of the epitaxial growth of brushite (CaHPO <sub>4</sub> ·2H <sub>2</sub> O) on gypsum cleavage surfaces. <i>American Mineralogist</i> , 2010, 95, 1747-1757.	1.9	19

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19	Kinetics of crystal nucleation in ionic solutions: Electrostatics and hydration forces. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 469-481.	3.9	46
20	The role of sulfate groups in controlling CaCO <sub>3</sub> polymorphism. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6064-6076.	3.9	125
21	Interaction of gypsum with lead in aqueous solutions. <i>Applied Geochemistry</i> , 2010, 25, 1008-1016.	3.0	22
22	2. Thermodynamics of Solid Solution- Aqueous Solution Systems. , 2009, , 47-86.		21
23	Interaction of phosphate-bearing solutions with gypsum: Epitaxy and induced twinning of brushite (CaHPO <sub>4</sub> ·2H <sub>2</sub> O) on the gypsum cleavage surface. <i>American Mineralogist</i> , 2009, 94, 313-322.	1.9	21
24	In situ AFM study of the interaction between calcite {101 $\bar{1}$ 4} surfaces and supersaturated Mn <sup>2+</sup> ·CO <sub>3</sub> <sup>2-</sup> aqueous solutions. <i>Journal of Crystal Growth</i> , 2009, 311, 4730-4739.	1.5	24
25	Precipitation and mixing properties of the disordered (Mn,Ca)CO <sub>3</sub> solid solution. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6147-6161.	3.9	32
26	Crystallization behaviour of the (Mn,Ca)CO <sub>3</sub> solid solution in silica gel: nucleation, growth and zoning phenomena. <i>Mineralogical Magazine</i> , 2009, 73, 269-284.	1.4	9
27	Thermodynamics of Solid Solution-Aqueous Solution Systems. <i>Reviews in Mineralogy and Geochemistry</i> , 2009, 70, 47-85.	4.8	109
28	Crystallization of zoned (Ba,Pb)SO <sub>4</sub> single crystals from aqueous solutions in silica gel. <i>Journal of Crystal Growth</i> , 2008, 310, 4616-4622.	1.5	12
29	Interaction of gypsum with As(V)-bearing aqueous solutions: Surface precipitation of guerinite, sainfeldite, and Ca <sub>2</sub> NaH(AsO <sub>4</sub> ) <sub>2</sub> ·6H <sub>2</sub> O, a synthetic arsenate. <i>American Mineralogist</i> , 2008, 93, 928-939.	1.9	25
30	Co-crystallization of Co(II) with calcite: Implications for the mobility of cobalt in aqueous environments. <i>Chemical Geology</i> , 2008, 254, 87-100.	3.3	37
31	Dehydration behaviour of the Ca(SO <sub>4</sub> ·HPO <sub>4</sub> ) <sub>2</sub> ·2H <sub>2</sub> O solid solution. <i>Mineralogical Magazine</i> , 2008, 72, 277-281.	1.4	7
32	Uptake of Cd from seawater by calcite. <i>Mineralogical Magazine</i> , 2008, 72, 389-392.	1.4	1
33	Crystallization of the (Cd,Ca)CO <sub>3</sub> solid solution in double diffusion systems: the partitioning behaviour of Cd <sup>2+</sup> in calcite at different supersaturation rates. <i>Mineralogical Magazine</i> , 2008, 72, 433-436.	1.4	12
34	Comment: Supersaturation in binary solid solution-Aqueous solution systems: (Comment on) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 152 Numerische Mathematik, 2007, 307, 1034-1045.	1.4	15
35	Mixing Properties and Crystallization Behaviour of the Scheelite~Powellite Solid Solution. <i>Crystal Growth and Design</i> , 2007, 7, 545-552.	3.0	16
36	Removal of Cadmium from Wastewaters by Aragonite Shells and the Influence of Other Divalent Cations. <i>Environmental Science &amp; Technology</i> , 2007, 41, 112-118.	10.0	114

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37	Oriented Overgrowth of Pharmacolite ( $\text{CaHAsO}_4 \cdot 2\text{H}_2\text{O}$ ) on Gypsum ( $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ ). <i>Crystal Growth and Design</i> , 2007, 7, 2756-2763. In situ AFM observations of the interaction between calcite <small>xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"&gt;&lt;mml:mrow&gt;&lt;mml:mo</small>	3.0	47
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55	Concentric zoning patterns in crystallizing (Cd,Ca)CO <sub>3</sub> solid solutions from aqueous solutions. <i>Mineralogical Magazine</i> , 1999, 63, 331-343.	1.4	36
56	FT-Raman spectra of cis-bis(thiourea)selenium(II) chloride and bromide. <i>Journal of Molecular Structure</i> , 1999, 510, 107-112.	3.6	3
57	Crystallisation of Ba(SO <sub>4</sub> , CrO <sub>4</sub> ) solid solutions from aqueous solutions. <i>Journal of Crystal Growth</i> , 1999, 200, 227-235.	1.5	25
58	Fourier transform Raman spectroscopic study of Ba(SO <sub>4</sub> ) <sub>x</sub> (CrO <sub>4</sub> ) <sub>1-x</sub> solid solution. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 105-114.	2.5	12
59	Microtopography of the barite (001) face during growth. <i>Journal of Crystal Growth</i> , 1998, 187, 119-125.	1.5	57
60	Bis(thiourea)cadmium Halides. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1998, 54, 1225-1229.	0.4	31
61	Nucleation, growth, and zoning phenomena in crystallizing (Ba,Sr)CO <sub>3</sub> , Ba(SO <sub>4</sub> ,CrO <sub>4</sub> ), (Ba,Sr)SO <sub>4</sub> , and (Cd,Ca)CO <sub>3</sub> solid solutions from aqueous solutions. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3383-3397.	3.9	143
62	Crystallization of LiNH <sub>4</sub> SO <sub>4</sub> and (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> in gels: growth morphology and epitaxy phenomena. <i>Journal of Crystal Growth</i> , 1997, 177, 102-110.	1.5	3
63	Topotaxy relationships in the transformation phosgenite-cerussite. <i>Journal of Crystal Growth</i> , 1996, 158, 340-345.	1.5	11
64	Formation of primary fluid inclusions under influence of the hydrodynamic environment. <i>European Journal of Mineralogy</i> , 1996, 8, 987-996.	1.3	9
65	Epitaxial Overgrowth of LiKSO <sub>4</sub> on K <sub>2</sub> SO <sub>4</sub> Single Crystals. <i>Crystal Research and Technology</i> , 1995, 30, 775-783.	1.3	2
66	Growth of LiNaSO <sub>4</sub> and Li <sub>2</sub> SO <sub>4</sub> · H <sub>2</sub> O: epitaxy and intergrowth phenomena. <i>Journal of Crystal Growth</i> , 1995, 148, 283-288.	1.5	7
67	Fluid supersaturation and crystallization in porous media. <i>Geological Magazine</i> , 1995, 132, 1-13.	1.5	163
68	Metastability in diffusing-reacting systems. <i>Journal of Crystal Growth</i> , 1994, 142, 225-235.	1.5	48
69	Crystallization of solid solutions from aqueous solutions in a porous medium: zoning in (Ba, Sr)SO <sub>4</sub> . <i>Journal of Crystal Growth</i> , 1993, 115, 108-118.	1.5	108
70	Ontogeny of baryte crystals grown in a porous medium. <i>Mineralogical Magazine</i> , 1992, 56, 587-598.	1.4	11
71	Experimentally produced oscillatory zoning in the (Ba, Sr)SO <sub>4</sub> solid solution. <i>Nature</i> , 1992, 358, 743-745.	27.8	129
72	Spatial and evolutionary aspects of nucleation in diffusing-reacting systems. <i>Journal of Crystal Growth</i> , 1991, 108, 770-778.	1.5	35

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73	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
74	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
75	Mass-transfer and supersaturation in crystal growth in gels. Journal of Crystal Growth, 1988, 92, 61-68.	1.5	21
76	Growth of calcite crystals with non-singular faces. Journal of Crystal Growth, 1981, 52, 864-867.	1.5	27