

Pablo Cubillas

List of Publications by Year in descending order

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43
papers

1,912
citations

331670

21
h-index

265206

42
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47
all docs

47
docs citations

47
times ranked

2550
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology-dependent zeolite intergrowth structures leading to distinct internal and outer-surface molecular diffusion barriers. <i>Nature Materials</i> , 2009, 8, 959-965.	27.5	251
2	Experimental determination of the dissolution rates of calcite, aragonite, and bivalves. <i>Chemical Geology</i> , 2005, 216, 59-77.	3.3	144
3	Revelation of the Molecular Assembly of the Nanoporous Metal Organic Framework ZIF-8. <i>Journal of the American Chemical Society</i> , 2011, 133, 13304-13307.	13.7	142
4	Uptake of dissolved Cd by biogenic and abiogenic aragonite: a comparison with sorption onto calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3859-3869.	3.9	131
5	Removal of Cadmium from Wastewaters by Aragonite Shells and the Influence of Other Divalent Cations. <i>Environmental Science & Technology</i> , 2007, 41, 112-118.	10.0	114
6	How do mineral coatings affect dissolution rates? An experimental study of coupled CaCO ₃ dissolution–CdCO ₃ precipitation. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5459-5476.	3.9	109
7	Molecular Dynamic Simulations of Montmorillonite–Organic Interactions under Varying Salinity: An Insight into Enhanced Oil Recovery. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7282-7294.	3.1	100
8	The Porosity, Acidity, and Reactivity of Dealuminated Zeolite ZSM-5 at the Single Particle Level: The Influence of the Zeolite Architecture. <i>Chemistry - A European Journal</i> , 2011, 17, 13773-13781.	3.3	94
9	Predicting crystal growth via a unified kinetic three-dimensional partition model. <i>Nature</i> , 2017, 544, 456-459.	27.8	88
10	Crystal Growth Mechanisms and Morphological Control of the Prototypical Metal–Organic Framework MOF-5 Revealed by Atomic Force Microscopy. <i>Chemistry - A European Journal</i> , 2012, 18, 15406-15415.	3.3	75
11	Crystal growth of nanoporous metal organic frameworks. <i>Dalton Transactions</i> , 2012, 41, 3869-3878.	3.3	41
12	Geomechanical characterisation of organic-rich calcareous shale using AFM and nanoindentation. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 303-320.	5.4	40
13	Unstitching the Nanoscopic Mystery of Zeolite Crystal Formation. <i>Journal of the American Chemical Society</i> , 2010, 132, 13858-13868.	13.7	39
14	Predicting the elastic response of organic-rich shale using nanoscale measurements and homogenisation methods. <i>Geophysical Prospecting</i> , 2017, 65, 1597-1614.	1.9	38
15	Assessing Molecular Transport Properties of Nanoporous Materials by Interference Microscopy: Remarkable Effects of Composition and Microstructure on Diffusion in the Silicoaluminophosphate Zeotype STA-7. <i>Journal of the American Chemical Society</i> , 2010, 132, 11665-11670.	13.7	36
16	Multi-technique approach to the petrophysical characterization of Berea sandstone core plugs (Cleveland Quarries, USA). <i>Journal of Petroleum Science and Engineering</i> , 2017, 149, 436-455.	4.2	36
17	Synthesis and characterization of hierarchical porous materials incorporating a cubic mesoporous phase. <i>Journal of Materials Chemistry</i> , 2008, 18, 4985.	6.7	34
18	Growth Mechanism of Microporous Zincophosphate Sodalite Revealed by In Situ Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 2012, 134, 13066-13073.	13.7	28

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19	Spiral Growth on Nanoporous Silicoaluminophosphate STA-7 as Observed by Atomic Force Microscopy. <i>Crystal Growth and Design</i> , 2009, 9, 4041-4050.	3.0	24
20	AFM and HRSEM Investigation of Zeolite A Crystal Growth. Part 1: In the Absence of Organic Additives. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12567-12574.	3.1	24
21	Materials Discovery and Crystal Growth of Zeoliteâ€‘A Type Zeoliticâ€‘Imidazolate Frameworks Revealed by Atomic Force Microscopy. <i>Chemistry - A European Journal</i> , 2013, 19, 8236-8243.	3.3	24
22	Crystal growth of MOF-5 using secondary building units studied by in situ atomic force microscopy. <i>CrystEngComm</i> , 2014, 16, 9834-9841.	2.6	24
23	Unified Internal Architecture and Surface Barriers for Molecular Diffusion of Microporous Crystalline Aluminophosphates. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6790-6794.	13.8	23
24	Influence of Isomorphous Substituting Cobalt Ions on the Crystal Growth of the MOF-5 Framework Determined by Atomic Force Microscopy of Growing Coreâ€‘Shell Crystals. <i>Crystal Growth and Design</i> , 2013, 13, 4526-4532.	3.0	21
25	Friction characteristics of Cd-rich carbonate films on calcite surfaces: implications for compositional differentiation at the nanometer scale. <i>Geochemical Transactions</i> , 2009, 10, 7.	0.7	19
26	<i>CrystalGrower</i> : a generic computer program for Monte Carlo modelling of crystal growth. <i>Chemical Science</i> , 2021, 12, 1126-1146.	7.4	18
27	Growth Mechanisms in SAPO-34 Studied by White Light Interferometry and Atomic Force Microscopy. <i>Crystal Growth and Design</i> , 2010, 10, 2824-2828.	3.0	17
28	Effect of Diagenesis on Geomechanical Properties of Organicâ€‘Rich Calcareous Shale: A Multiscale Investigation. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021365.	3.4	16
29	In situ crystal growth of nanoporous zincophosphate observed by atomic force microscopy. <i>Chemical Communications</i> , 2010, 46, 1047.	4.1	15
30	Nanometre resolution using high-resolution scanning electron microscopy corroborated by atomic force microscopy. <i>Chemical Communications</i> , 2008, , 3894.	4.1	13
31	Crystal Growth Studies on Microporous Zincophosphate-Faujasite Using Atomic Force Microscopy. <i>Crystal Growth and Design</i> , 2011, 11, 3163-3171.	3.0	12
32	Assessment of the potential for in-plume sulphur dioxide gas-ash interactions to influence the respiratory toxicity of volcanic ash. <i>Environmental Research</i> , 2019, 179, 108798.	7.5	12
33	A New Framework to Quantify the Wetting Behaviour of Carbonate Rock Surfaces Based on the Relationship between Zeta Potential and Contact Angle. <i>Energies</i> , 2020, 13, 993.	3.1	12
34	Hierarchical porous materials: Internal structure revealed by argon ion-beam cross-section polishing, HRSEM and AFM. <i>Solid State Sciences</i> , 2011, 13, 745-749.	3.2	9
35	Properties of Ca-Rich and Mg-Rich Carbonate Films on Dolomite: Implications for Compositional Surface Mapping with Scanning Force Microscopy. <i>Langmuir</i> , 2010, 26, 4769-4775.	3.5	7
36	Atomic Force Microscopy and High Resolution Scanning Electron Microscopy Investigation of Zeolite A Crystal Growth. Part 2: In Presence of Organic Additives. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23092-23099.	3.1	7

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37	Nanoscale Electron Beam Damage Studied by Atomic Force Microscopy. Journal of Physical Chemistry C, 2009, 113, 18441-18443.	3.1	6
38	High-Resolution scanning electron and atomic force microscopies: observation of nanometer features on zeolite Surfaces. Studies in Surface Science and Catalysis, 2008, 174, 775-780.	1.5	4
39	Modelling crystal growth in zeolite A. Studies in Surface Science and Catalysis, 2008, 174, 705-708.	1.5	4
40	Strontium incorporation during calcite growth: Implications for chemical mapping using friction force microscopy. Chemical Geology, 2015, 411, 274-282.	3.3	4
41	Chemical Force Microscopy Study on the Interactions of COOH Functional Groups with Kaolinite Surfaces: Implications for Enhanced Oil Recovery. Minerals (Basel, Switzerland), 2017, 7, 250.	2.0	4
42	Geomechanical Characterisation of Posidonia Shale Using Nanomechanical Testing. , 2019, , .		1
43	Assessment of the elastic response of shale using multiscale mechanical testing and homogenisation. E3S Web of Conferences, 2020, 205, 04013.	0.5	0