Ignasi Puigdomenech

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7281553/publications.pdf

Version: 2024-02-01

39 papers	1,920 citations	471509 17 h-index	345221 36 g-index
44 all docs	44 docs citations	44 times ranked	2456 citing authors

#	Article	IF	Citations
1	Revised pourbaix diagrams for iron at 25â€“300 Â°C. Corrosion Science, 1996, 38, 2121-2135.	6.6	382
2	Revised Pourbaix diagrams for nickel at 25â€“300 Â°C. Corrosion Science, 1997, 39, 969-980.	6.6	276
3	Revised Pourbaix Diagrams for Copper at 25 to 300Â°C. Journal of the Electrochemical Society, 1997, 144, 3476-3483.	2.9	257
4	Revised pourbaix diagrams for chromium at 25â€“300 Â°C. Corrosion Science, 1997, 39, 43-57.	6.6	185
5	Revised pourbaix diagrams for zinc at 25â€“300 Â°C. Corrosion Science, 1997, 39, 107-114.	6.6	161
6	Pourbaix Diagrams for the Ternary System of Iron-Chromium-Nickel. Corrosion, 1999, 55, 1077-1087.	1.1	143
7	The kinetics of dissolution of UO2 under reducing conditions and the influence of an oxidized surface layer (UO2+x): Application of a continuous flow-through reactor. Geochimica Et Cosmochimica Acta, 1991, 55, 647-658.	3.9	116
8	Ground water chemistry and geochemical modeling of water-rock interactions at the Osamu Utsumi mine and the Morro do Ferro analogue study sites, PoÃ§os de Caldas, Minas Gerais, Brazil. Journal of Geochemical Exploration, 1992, 45, 249-287.	3.2	48
9	An unusual copper-uridine octamer: existence in solution and structural study in its auto-built zeolitic network in the solid state. Journal of the American Chemical Society, 1987, 109, 380-386.	13.7	29
10	Reduction of UO22+ by H2. Journal of Nuclear Materials, 2004, 334, 35-39.	2.7	27
11	Thermodynamic data of compounds and complexes of U, Np, Pu and Am with selected organic ligands. Comptes Rendus Chimie, 2007, 10, 948-958.	0.5	26
12	A tool to draw chemical equilibrium diagrams using SIT: Applications to geochemical systems and radionuclide solubility. Materials Research Society Symposia Proceedings, 2014, 1665, 111-116.	0.1	25
13	The Kinetics of Dissolution of UO₂(s) under Reducing Conditions. Radiochimica Acta, 1988, 44-45, 11-16.	1.2	22
14	On the hydration of the lutetium(III) Ion in water acetone mixtures. A 1h and 35Cl NMR study. Inorganica Chimica Acta, 1985, 109, 111-116.	2.4	21
15	The Occurrences of Ca2UO2(CO3)3 Complex in Fe(II) Containing Deep Groundwater at Forsmark, Eastern Sweden. Procedia Earth and Planetary Science, 2017, 17, 440-443.	0.6	21
16	A kinetic investigation of lanthanide(III) complex formation with picolinic acid. Inorganica Chimica Acta, 1987, 126, 131-135.	2.4	19
17	A Calorimetric Study of Copper(II) Chloride Complexes in Aqueous Solution.. Acta Chemica Scandinavica, 1982, 36a, 15-19.	0.7	17
18	Continuum-based DFN-consistent numerical framework for the simulation of oxygen infiltration into fractured crystalline rocks. Journal of Contaminant Hydrology, 2017, 200, 60-69.	3.3	15

#	Article	IF	Citations
19	Implications of Grain-Scale Mineralogical Heterogeneity for Radionuclide Transport in Fractured Media. Transport in Porous Media, 2017, 116, 73-90.	2.6	14
20	The kinetics of O2(aq) reduction by structural ferrous iron in naturally occurring ferrous silicate minerals. Applied Geochemistry, 2005, 20, 2003-2016.	3.0	13
21	Validation of the SKBU1 Uranium Thermodynamic Data Base for its use in Geochemical Calculations with EQ3/6. Materials Research Society Symposia Proceedings, 1988, 127, 887.	0.1	12
22	The OECD/NEA TDB review of selected organic ligands. Radiochimica Acta, 2005, 93, 719-725.	1.2	12
23	Modeling microbial sulfate reduction and the consequences for corrosion of copper canisters. Materials and Corrosion - Werkstoffe Und Korrosion, 2021, 72, 339-347.	1.5	12
24	Chemical weathering in a moraine at the ice sheet margin at Kangerlussuaq, western Greenland. Arctic, Antarctic, and Alpine Research, 2019, 51, 440-459.	1.1	11
25	Groundwater age dating in fractured rock using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si44.svg"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msup></mml:mrow></mml:math>He data. Journal of Hydrology X, 2019, 4, 100036.	1.6	8
26	Speciation of copper in high chloride concentrations, in the context of corrosion of copper canisters. Materials and Corrosion - Werkstoffe Und Korrosion, 2021, 72, 293-299.	1.5	8
27	The effect of pH on chlorite dissolution rates at 25Â°C. Materials Research Society Symposia Proceedings, 2002, 757, II3.16.1.	0.1	7
28	Transport of oxygen into granitic rocks: Role of physical and mineralogical heterogeneity. Journal of Contaminant Hydrology, 2019, 220, 108-118.	3.3	7
29	Comment on â€œNanometer-Scale Corrosion of Copper in De-Aerated Deionized Waterâ€•[J. Electrochem. Soc., 161, C107 (2014)]. Journal of the Electrochemical Society, 2016, 163, Y3-Y4.	2.9	5
30	The pulse radiolysis pH-jump in aqueous solutions: applications to lanthanide(III)-methyl red systems. Inorganica Chimica Acta, 1986, 121, 63-66.	2.4	4
31	Round Robin Test for Defining an Accurate Protocol to Measure the Pore Fluid pH of Low-pH Cementitious Materials. , 2013, , 251-259.		4
32	Methodology for Hydrogeochemical Sampling to Characterise Groundwaters in Crystalline Bedrock: Developments Made within the Swedish Radwaste Programme. Geofluids, 2020, 2020, 1-13.	0.7	4
33	Simulating Oxygen Intrusion into Highly Heterogeneous Fractured Media Using High Performance Computing. Mathematical Geosciences, 2018, 50, 549-567.	2.4	3
34	Corrections to the Uranium NEA-TDB review. Chemical Thermodynamics, 1995, 2, 347-374.	0.0	2
35	Protecting the redox stability of a deep repository: concepts, results and experience from the Ã„spÃ¶ hard rock laboratory. Geological Society Special Publication, 1999, 157, 85-99.	1.3	2
36	Hyperalkaline Cement Leachate-Rock Interaction and Radionuclide Transport in a Fractured Host Rock (HPF Project). Materials Research Society Symposia Proceedings, 2003, 807, 451.	0.1	1

#	Article	IF	Citations
37	Comment on â€œApplication of Analytical Diffusion Models to Outcrop Observations: Implications for Mass Transport by Fluid Flow Through Fracturesâ€•by Antonellini et al. (2017). Water Resources Research, 2018, 54, 9702-9705.	4.2	1
38	Redox properties of MX-80 and Montigel bentonite-water systems. Materials Research Society Symposia Proceedings, 2002, 757, II8.1.1.	0.1	0
39	Coupling Hydrological and Geochemical Simulations to Assess Spatial Heterogeneity and Chemical Evolution of Groundwaters at Two Candidate Repository Sites in Sweden. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	0