

Jordi Bruno

List of Publications by Year in descending order

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66
papers

2,381
citations

218677

26
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214800

47
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66
all docs

66
docs citations

66
times ranked

1866
citing authors

#	ARTICLE	IF	CITATIONS
1	Plutonium retention in the isosaccharinate " cement system. Applied Geochemistry, 2021, 126, 104862.	3.0	15
2	Redox behavior and solubility of plutonium under alkaline, reducing conditions. Radiochimica Acta, 2018, 106, 259-279.	1.2	21
3	Thermodynamic description of the plutonium " d-isosaccharinic acid system I: Solubility, complexation and redox behavior. Applied Geochemistry, 2018, 98, 247-264.	3.0	18
4	The in-diffusion of ¹³³ Ba in granitic rock cubes from the Olkiluoto and Grimsel in-situ test sites. Applied Geochemistry, 2018, 92, 188-195.	3.0	9
5	Thermodynamic model of Ni(II) solubility, hydrolysis and complex formation with ISA. Radiochimica Acta, 2018, 106, 31-45.	1.2	12
6	Thermodynamic description of the plutonium " d-isosaccharinic acid system ii: Formation of quaternary Ca(II)"Pu(IV)"OH"ISA complexes. Applied Geochemistry, 2018, 98, 351-366.	3.0	16
7	Atmospheric dispersion modelling of a natural CO ₂ degassing pool from Campo de Calatrava (northeast Spain) natural analogue. Implications for carbon storage risk assessment. International Journal of Greenhouse Gas Control, 2016, 47, 38-47.	4.6	8
8	Assessment of the evolution of the redox conditions in a low and intermediate level nuclear waste repository (SFR1, Sweden). Applied Geochemistry, 2014, 49, 192-205.	3.0	40
9	Redox processes in the safety case of deep geological repositories of radioactive wastes. Contribution of the European RECOSY Collaborative Project. Applied Geochemistry, 2014, 49, 206-217.	3.0	11
10	Fe(III) mobilisation by carbonate in low temperature environments: Study of the solubility of ferrihydrite in carbonate media and the formation of Fe(III) carbonate complexes. Applied Geochemistry, 2014, 49, 57-67.	3.0	8
11	The long-term effect of hydrogen on the UO ₂ spent fuel stability under anoxic conditions: Findings from the Cigar Lake Natural Analogue study. Applied Geochemistry, 2014, 49, 178-183.	3.0	10
12	From aqueous solution to solid solutions: A process oriented review of the work performed within the FUNMIG project. Applied Geochemistry, 2012, 27, 444-452.	3.0	3
13	Quantitative assessment of radionuclide retention in the Quaternary sediments/granite interface of the Fennoscandian shield (Sweden). Applied Geochemistry, 2011, 26, 679-687.	3.0	4
14	Spent Fuel Waste Disposal: Analyses of Model Uncertainty in the MICADO Project. Energy Procedia, 2011, 7, 487-494.	1.8	7
15	Denitrification in presence of acetate and glucose for bioremediation of nitrate-contaminated groundwater. Environmental Technology (United Kingdom), 2010, 31, 799-814.	2.2	48
16	Sorption of Th(IV) onto Iron Corrosion Products: EXAFS Study. Environmental Science & Technology, 2009, 43, 2825-2830.	10.0	32
17	Modelling the radionuclide transfer from bedrock to surface systems at Forsmark site (Sweden). Radioprotection, 2009, 44, 333-338.	1.0	1
18	Geochemical modelling of the weathering zone of the " Mina Fe-U deposit (Spain): A natural analogue for nuclear spent fuel alteration and stability processes in radwaste disposal. Applied Geochemistry, 2008, 23, 807-821.	3.0	8

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19	Study of the interaction between U(VI) and the anoxic corrosion products of carbon steel. <i>Applied Geochemistry</i> , 2008, 23, 1094-1100.	3.0	27
20	A spectroscopic study of uranium(VI) interaction with magnetite. <i>Applied Surface Science</i> , 2007, 253, 8794-8797.	6.1	44
21	Interaction of uranium with in situ anoxically generated magnetite on steel. <i>Journal of Hazardous Materials</i> , 2007, 147, 726-731.	12.4	36
22	Spent Nuclear Fuel. <i>Elements</i> , 2006, 2, 343-349.	0.5	232
23	The use of a high-FeO olivine rock as a redox buffer in a nuclear waste repository. <i>Journal of Contaminant Hydrology</i> , 2006, 83, 42-52.	3.3	4
24	Radiolytic modelling of spent fuel oxidative dissolution mechanism. Calibration against UO ₂ dynamic leaching experiments. <i>Journal of Nuclear Materials</i> , 2005, 346, 40-47.	2.7	26
25	The oxidative dissolution of unirradiated UO ₂ by hydrogen peroxide as a function of pH. <i>Journal of Nuclear Materials</i> , 2005, 345, 225-231.	2.7	55
26	Oxidation and dissolution of UO ₂ in bicarbonate media: Implications for the spent nuclear fuel oxidative dissolution mechanism. <i>Journal of Nuclear Materials</i> , 2005, 345, 232-238.	2.7	30
27	The dissolution of high-FeO olivine rock from the Lovasjärvi intrusion (SE-Finland) at 25°C as a function of pH. <i>Applied Geochemistry</i> , 2005, 20, 1284-1291.	3.0	12
28	Modelling near- and far-field processes in nuclear waste management. <i>Geological Society Special Publication</i> , 2004, 236, 515-528.	1.3	2
29	Evidence of Uranium and Associated Trace Element Mobilization and Retention Processes at Oklo (Gabon), a Naturally Radioactive Site. <i>Environmental Science & Technology</i> , 2004, 38, 3310-3315.	10.0	6
30	Geochemical model of the granite-bentonite groundwater interaction at Åspå HRL (LOT experiment). <i>Applied Clay Science</i> , 2003, 23, 219-228.	5.2	22
31	DFT Studies of Uranyl Acetate, Carbonate, and Malonate, Complexes in Solution. <i>Inorganic Chemistry</i> , 2003, 42, 6136-6141.	4.0	49
32	The applicability and limitations of thermodynamic geochemical models to simulate trace element behaviour in natural waters. Lessons learned from natural analogue studies. <i>Chemical Geology</i> , 2002, 190, 371-393.	3.3	39
33	The uranium ore from Mina Fe (Salamanca, Spain) as a natural analogue of processes in a spent fuel repository. <i>Chemical Geology</i> , 2002, 190, 395-415.	3.3	33
34	Experimental study and modeling of the sorption of uranium(VI) onto olivine-rock. <i>Applied Geochemistry</i> , 2002, 17, 399-408.	3.0	36
35	Experimental determination and chemical modelling of radiolytic processes at the spent fuel/water interface. <i>Radiochimica Acta</i> , 2000, 88, 513-520.	1.2	14
36	Experimental study and modeling of uranium (VI) transport through ferrous olivine rock columns. <i>Radiochimica Acta</i> , 2000, 88, 665-674.	1.2	21

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37	Determination and uncertainties of radioelement solubility limits to be used by SKB in the SR 97™ performance assessment exercise. <i>Radiochimica Acta</i> , 2000, 88, 823-828.	1.2	3
38	Reply to W. Hummel™s comment on and correction to "On the influence of carbonate in mineral dissolution: I. The thermodynamics and kinetics of hematite dissolution in bicarbonate solutions at T = 25°C" by J. Bruno, W. Stumm, P. Wersin, and F. Brandberg. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 2173-2176.	3.9	18
39	The thermodynamics and kinetics of uranophane dissolution in bicarbonate test solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 603-608.	3.9	34
40	The oxidative dissolution mechanism of uranium dioxide. I. The effect of temperature in hydrogen carbonate medium. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3097-3103.	3.9	126
41	The role of pe, pH, and carbonate on the solubility of UO ₂ and uraninite under nominally reducing conditions. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 2223-2231.	3.9	110
42	Estimation of the concentrations of trace metals in natural systems. <i>Chemical Geology</i> , 1998, 151, 277-291.	3.3	19
43	Characterization and dissolution behavior of a becquerelite from Shinkolobwe, Zaire. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3879-3884.	3.9	24
44	Development and application of a model for the long-term alteration of UO ₂ spent nuclear fuel Test of equilibrium and kinetic mass transfer models in the Cigar Lake ore deposit. <i>Journal of Contaminant Hydrology</i> , 1997, 26, 19-26.	3.3	10
45	Modelling of the migration of trace elements along groundwater flowpaths by using a steady state approach application to the site at El Berrocal (Spain). <i>Journal of Contaminant Hydrology</i> , 1997, 26, 35-43.	3.3	1
46	The dissolution of biotite and chlorite at 25°C in the near-neutral pH region. <i>Journal of Contaminant Hydrology</i> , 1996, 21, 201-213.	3.3	83
47	A kinetic model for the stability of spent fuel matrix under oxidic conditions. <i>Journal of Nuclear Materials</i> , 1996, 238, 110-120.	2.7	18
48	Dissolution of irradiated fuel: a radiolytic mass balance study. <i>Journal of Nuclear Materials</i> , 1995, 227, 76-82.	2.7	59
49	Experimental study and modeling of the U(VI)-Fe(OH) ₃ surface precipitation/coprecipitation equilibria. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 4113-4123.	3.9	114
50	On the influence of carbonate on mineral dissolution: III. The solubility of microcrystalline ThO ₂ in CO ₂ -H ₂ O media. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 613-623.	3.9	117
51	On the influence of carbonate in mineral dissolution: II. The solubility of FeCO ₃ (s) at 25°C and 1 atm total pressure. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 1149-1155.	3.9	113
52	On the influence of carbonate in mineral dissolution: I. The thermodynamics and kinetics of hematite dissolution in bicarbonate solutions at. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 1139-1147.	3.9	93
53	The solubility of (UO ₂) ₃ (PO ₄) ₂ · 4H ₂ O(s) and the formation of U(VI) phosphate complexes: Their influence in uranium speciation in natural waters. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 4135-4145.	3.9	183
54	Testing models of trace element geochemistry at Poços de Caldas. <i>Journal of Geochemical Exploration</i> , 1992, 45, 451-470.	3.2	17

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55	Static and dynamic SIMFUEL dissolution studies under oxic conditions. Journal of Nuclear Materials, 1992, 190, 61-69.	2.7	16
56	The kinetics of dissolution of UO ₂ under reducing conditions and the influence of an oxidized surface layer (UO _{2+x}): Application of a continuous flow-through reactor. Geochimica Et Cosmochimica Acta, 1991, 55, 647-658.	3.9	116
57	Fission Product Release from Spent UO ₂ Fuel Under Uranium-Saturated Oxic Conditions. Nuclear Technology, 1990, 92, 204-213.	1.2	4
58	The influence of dissolved carbon dioxide on trace metal speciation in seawater. Marine Chemistry, 1990, 30, 231-240.	2.3	21
59	On the UO ₂ (2+)/U(4+) Redox Potential.. Acta Chemica Scandinavica, 1990, 44, 896-901.	0.7	8
60	Authors' November 1990. Nuclear Technology, 1990, 92, 153-158.	1.2	0
61	Studies of metal carbonate equilibria. 20. Formation of tetra(carbonato)uranium(IV) ion, U(CO ₃) ₄ ⁴⁻ , in hydrogen carbonate solutions. Inorganica Chimica Acta, 1989, 158, 221-226.	2.4	25
62	Uranium in pore waters from North Atlantic (GME and Southern Nares Abyssal Plain) sediments. Nature, 1988, 331, 155-157.	27.8	29
63	Preliminary study of spent UO ₂ fuel corrosion in the presence of bentonite. Journal of Nuclear Materials, 1988, 160, 218-223.	2.7	6
64	Studies on metal carbonate complexes. 19. Complex formation in the Th(IV)-H ₂ O-CO ₂ (g) system. Inorganica Chimica Acta, 1987, 140, 299-301.	2.4	6
65	The corrosion of spent UO ₂ fuel in synthetic groundwater. Journal of Nuclear Materials, 1986, 138, 1-15.	2.7	45
66	Potentiometric techniques applied to the modelling of actinide migration in natural water systems. Toxicological and Environmental Chemistry, 1985, 10, 257-264.	1.2	4