Bart Baeyens

List of Publications by Year
in descending order

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32 papers	2,797 citations	257450 24 h-index	377865 34 g-index
34 all docs	34 docs citations	34 times ranked	1606 citing authors

#	Article	IF	Citations
1	Thallium adsorption onto phyllosilicate minerals. Environmental Sciences: Processes and Impacts, 2022, 24, 1343-1359.	3.5	4
2	Zn uptake by illite and argillaceous rocks. Geochimica Et Cosmochimica Acta, 2021, 312, 180-193.	3.9	4
3	Adsorption of barium and radium on montmorillonite: A comparative experimental and modelling study. Applied Geochemistry, 2021, 135, 105117.	3.0	14
4	Thallium sorption and speciation in soils: Role of micaceous clay minerals and manganese oxides. Geochimica Et Cosmochimica Acta, 2020, 288, 83-100.	3.9	36
5	Thallium Adsorption onto Illite. Environmental Science & Technology, 2018, 52, 571-580.	10.0	98
6	Predicting the uptake of Cs, Co, Ni, Eu, Th and U on argillaceous rocks using sorption models for illite. Applied Geochemistry, 2015, 59, 189-199.	3.0	50
7	Fe(II) Uptake on Natural Montmorillonites. I. Macroscopic and Spectroscopic Characterization. Environmental Science & Technology, 2014, 48, 8688-8697.	10.0	41
8	Fe(II) Uptake on Natural Montmorillonites. II. Surface Complexation Modeling. Environmental Science & Technology, 2014, 48, 8698-8705.	10.0	33
9	Competitive Fe(II)â€“Zn(II) Uptake on a Synthetic Montmorillonite. Environmental Science & Technology, 2014, 48, 190-198.	10.0	18
10	Fe(II) Sorption on a Synthetic Montmorillonite. A Combined Macroscopic and Spectroscopic Study. Environmental Science & Technology, 2013, 47, 6978-6986.	10.0	30
11	Redox Properties of Structural Fe in Clay Minerals. 1. Electrochemical Quantification of Electron-Donating and -Accepting Capacities of Smectites. Environmental Science & Technology, 2012, 46, 9360-9368.	10.0	125
12	The influence of Fe(II) competition on the sorption and migration of Ni(II) in MX-80 bentonite. Applied Geochemistry, 2011, 26, 1414-1422.	3.0	11
13	Predictive sorption modelling of Ni(II), Co(II), Eu(IIII), Th(IV) and U(VI) on MX-80 bentonite and Opalinus Clay: A â€œbottom-upâ€•approach. Applied Clay Science, 2011, 52, 27-33.	5.2	65
14	Investigation of the different binding edge sites for Zn on montmorillonite using P-EXAFS â€“ The strong/weak site concept in the 2SPNE SC/CE sorption model. Geochimica Et Cosmochimica Acta, 2011, 75, 5154-5168.	3.9	49
15	A Spectroscopic Characterization and Quantification of M(III)/Clay Mineral Outer-Sphere Complexes. Environmental Science & Technology, 2008, 42, 7601-7606.	10.0	25
16	Identification of Neoformed Ni-Phyllosilicates Upon Ni Uptake in Montmorillonite: A Transmission Electron Microscopy and Extended X-Ray Absorption Fine Structure Study. Clays and Clay Minerals, 2006, 54, 209-219.	1.3	15
17	Modelling the sorption of Mn(II), Co(II), Ni(II), Zn(II), Cd(II), Eu(III), Am(III), Sn(IV), Th(IV), Np(V) and U(VI) on montmorillonite: Linear free energy relationships and estimates of surface binding constants for some selected heavy metals and actinides. Geochimica Et Cosmochimica Acta, 2005, 69, 875-892.	3.9	245
18	Experimental measurements and modeling of sorption competition on montmorillonite. Geochimica Et Cosmochimica Acta, 2005, 69, 4187-4197.	3.9	89

#	Article	IF	Citations
19	Cation exchange capacity measurements on illite using the sodium and cesium isotope dilution technique: effects of the index cation, electrolyte concentration and competition: modeling. Clays and Clay Minerals, 2004, 52, 421-431.	1.3	67
20	Porewater chemistry in compacted re-saturated MX-80 bentonite. Journal of Contaminant Hydrology, 2003, 61, 329-338.	3.3	157
21	Structural evidence for the sorption of Ni(II) atoms on the edges of montmorillonite clay minerals: a polarized X-ray absorption fine structure study. Geochimica Et Cosmochimica Acta, 2003, 67, 1-15.	3.9	109
22	Neoformation of Ni phyllosilicate upon Ni uptake on montmorillonite: A kinetics study by powder and polarized extended X-ray absorption fine structure spectroscopy. Geochimica Et Cosmochimica Acta, 2002, 66, 2335-2347.	3.9	93
23	Th Uptake on Montmorillonite: A Powder and Polarized Extended X-Ray Absorption Fine Structure (EXAFS) Study. Journal of Colloid and Interface Science, 2002, 249, 8-21.	9.4	51
24	Ni clay neoformation on montmorillonite surface. Journal of Synchrotron Radiation, 2001, 8, 533-535.	2.4	18
25	A generalised sorption model for the concentration dependent uptake of caesium by argillaceous rocks. Journal of Contaminant Hydrology, 2000, 42, 141-163.	3.3	213
26	Modelling the sorption of Zn and Ni on Ca-montmorillonite. Geochimica Et Cosmochimica Acta, 1999, 63, 325-336.	3.9	116
27	Experimental and modelling studies of caesium sorption on illite. Geochimica Et Cosmochimica Acta, 1999, 63, 3217-3227.	3.9	267
28	A Physicochemical Characterisation and Geochemical Modelling Approach for Determining Porewater Chemistries in Argillaceous Rocks. Geochimica Et Cosmochimica Acta, 1998, 62, 783-795.	3.9	93
29	N₂-BET Surface Area Measurements on Crushed and Intact Minerals and Rocks: A Proposal for Estimating Sorption Transfer Factors. Nuclear Technology, 1998, 122, 250-253.	1.2	10
30	A mechanistic description of Ni and Zn sorption on Na-montmorillonite Part II: modelling. Journal of Contaminant Hydrology, 1997, 27, 223-248.	3.3	278
31	A mechanistic description of Ni and Zn sorption on Na-montmorillonite Part I: Titration and sorption measurements. Journal of Contaminant Hydrology, 1997, 27, 199-222.	3.3	330
32	A General Application of Surface Complexation to Modeling Radionuclide Sorption in Natural Systems. Journal of Colloid and Interface Science, 1993, 158, 364-371.	9.4	24