Paul Wersin

List of Publications by Year
in descending order

39 papers	2,151 citations	394286 19 h-index	289141 40 g-index
40 all docs	40 docs citations	40 times ranked	1835 citing authors

#	Article	IF	Citations
1	Gas-bentonite interactions: Towards a better understanding of gas dynamics in Engineered Barrier Systems. Applied Geochemistry, 2022, 138, 105205.	1.4	2
2	Porewater chemistry of Opalinus Clay revisited: Findings from 25 years of data collection at the Mont Terri Rock Laboratory. Applied Geochemistry, 2022, 138, 105234.	1.4	16
3	Editorial for Special Issue â€œClay Mineral Transformations after Bentonite/Clayrocks and Heater/Water Interactions from Lab and Large-Scale Testsâ€• Minerals (Basel, Switzerland), 2022, 12, 569.	0.8	1
4	Molecular dynamics data for modelling the microstructural behaviour of compacted sodium bentonites. Applied Clay Science, 2021, 201, 105932.	2.6	7
5	Interaction of Corroding Iron with Eight Bentonites in the Alternative Buffer Materials Field Experiment (ABM2). Minerals (Basel, Switzerland), 2021, 11, 907.	0.8	11
6	Modelling of solute transport and microbial activity in diffusion cells simulating a bentonite barrier of a spent nuclear fuel repository. Applied Clay Science, 2021, 211, 106193.	2.6	3
7	Coupling of chemical and hydromechanical properties in bentonite: A new reactive transport model. Applied Clay Science, 2021, 214, 106274.	2.6	2
8	Comparison of models to evaluate microbial sulphide generation and transport in the near field of a SF/HLW repository in Opalinus Clay. Journal of Contaminant Hydrology, 2020, 228, 103561.	1.6	8
9	Eighteen years of steelâ€“bentonite interaction in the FEBEX in situ test at the Grimsel Test Site in Switzerland. Clays and Clay Minerals, 2019, 67, 111-131.	0.6	21
10	On-line monitoring of the gas composition in the Full-scale Emplacement experiment at Mont Terri (Switzerland). Applied Geochemistry, 2019, 100, 234-243.	1.4	14
11	Reactive transport calculations to evaluate sulphide fluxes in the near-field of a SF/HLW repository in the Opalinus Clay. Applied Geochemistry, 2019, 100, 169-180.	1.4	7
12	Multicomponent diffusion in a 280â€¯m thick argillaceous rock sequence. Applied Geochemistry, 2018, 95, 110-123.	1.4	22
13	Exploring diffusion and sorption processes at the Mont Terri rock laboratory (Switzerland): lessons learned from 20 years of field research. Swiss Journal of Geosciences Supplement, 2018, , 393-405.	0.0	4
14	Diffusive transport and reaction in clay rocks: A storage (nuclear waste, CO2, H2), energy (shale gas) and water quality issue. Advances in Water Resources, 2017, 106, 39-59.	1.7	56
15	Exploring diffusion and sorption processes at the Mont Terri rock laboratory (Switzerland): lessons learned from 20Âyears of field research. Swiss Journal of Geosciences, 2017, 110, 391-403.	0.5	19
16	Constraining porewater chemistry in a 250 m thick argillaceous rock sequence. Chemical Geology, 2016, 434, 43-61.	1.4	30
17	Porewater chemistry in compacted bentonite: Application to the engineered buffer barrier at the Olkiluoto site. Applied Geochemistry, 2016, 74, 165-175.	1.4	17
18	Interaction of Corroding Iron with Bentonite in the ABM1 Experiment at Ã„spÃ¶, Sweden: A Microscopic Approach. Clays and Clay Minerals, 2015, 63, 51-68.	0.6	24

#	Article	IF	Citations
19	Pore-water squeezing from indurated shales. Chemical Geology, 2015, 400, 106-121.	1.4	46
20	Reactive transport modelling of ironâ€“bentonite interaction within the KBS-3H disposal concept: the Olkiluoto site as a case study. Geological Society Special Publication, 2014, 400, 237-250.	0.8	10
21	Anisotropic diffusion at the field scale in a 4-year multi-tracer diffusion and retention experiment â€“ I: Insights from the experimental data. Geochimica Et Cosmochimica Acta, 2014, 125, 373-393.	1.6	40
22	Modeling of Cs+ diffusion and retention in the DI-A2 experiment (Mont Terri). Uncertainties in sorption and diffusion parameters. Applied Geochemistry, 2013, 33, 191-198.	1.4	11
23	Biogeochemical processes in a clay formation in situ experiment: Part F â€“ Reactive transport modelling. Applied Geochemistry, 2011, 26, 1009-1022.	1.4	20
24	Sealing ability of Wyoming bentonite pellets foreseen as buffer material â€“ Laboratory results. Physics and Chemistry of the Earth, 2008, 33, S472-S475.	1.2	79
25	Proton and Trivalent Metal Cation Binding by Dissolved Organic Matter in the Opalinus Clay and the Callovo-Oxfordian Formation. Environmental Science & Technology, 2008, 42, 5985-5991.	4.6	17
26	Isolation and characterization of dissolved organic matter from the Callovoâ€“Oxfordian formation. Applied Geochemistry, 2007, 22, 1537-1548.	1.4	63
27	Characterization of dissolved organic matter in anoxic rock extracts and in situ pore water of the Opalinus Clay. Applied Geochemistry, 2007, 22, 2926-2939.	1.4	70
28	Multicomponent Diffusion Modeling in Clay Systems with Application to the Diffusion of Tritium, Iodide, and Sodium in Opalinus Clay. Environmental Science & Technology, 2007, 41, 5002-5007.	4.6	217
29	Impact of iron released from steel components on the performance of the bentonite buffer: a preliminary assessment within the framework of the KBS-3H disposal concept. Materials Research Society Symposia Proceedings, 2006, 932, 1.	0.1	17
30	Geochemical modelling of bentonite porewater in high-level waste repositories. Journal of Contaminant Hydrology, 2003, 61, 405-422.	1.6	60
31	Assessment of Redox Conditions in the Near Field of Nuclear Waste Repositories: Application to the Swiss high-level and intermediate level waste disposal concept. Materials Research Society Symposia Proceedings, 2003, 807, 415.	0.1	4
32	The Acid/Base Chemistry of Montmorillonite. Radiochimica Acta, 1994, 66-67, 157-162.	0.5	118
33	A surface complexation model of the carbonate mineral-aqueous solution interface. Geochimica Et Cosmochimica Acta, 1993, 57, 3505-3518.	1.6	482
34	Isotopic composition of siderite as an indicator of depositional environment. Geology, 1992, 20, 817.	2.0	115
35	On the influence of carbonate in mineral dissolution: II. The solubility of FeCO3 (s) at 25Â°C and 1 atm total pressure. Geochimica Et Cosmochimica Acta, 1992, 56, 1149-1155.	1.6	113
36	On the influence of carbonate in mineral dissolution: I. The thermodynamics and kinetics of hematite dissolution in bicarbonate solutions at. Geochimica Et Cosmochimica Acta, 1992, 56, 1139-1147.	1.6	93

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37	Early diagenetic influences on iron transformations in a freshwater lake sediment. Chemical Geology, 1991, 90, 233-252.	1.4	143
38	Surface charge of MnCO3and FeCO3. Geochimica Et Cosmochimica Acta, 1990, 54, 2329-2336.	1.6	86
39	From adsorption to precipitation: Sorption of Mn2+ on FeCO3(s). Geochimica Et Cosmochimica Acta, 1989, 53, 2787-2796.	1.6	82