

Paul Wersin

List of Publications by Year in descending order

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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	A surface complexation model of the carbonate mineral-aqueous solution interface. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 3505-3518.	1.6	482
2	Multicomponent Diffusion Modeling in Clay Systems with Application to the Diffusion of Tritium, Iodide, and Sodium in Opalinus Clay. <i>Environmental Science & Technology</i> , 2007, 41, 5002-5007.	4.6	217
3	Early diagenetic influences on iron transformations in a freshwater lake sediment. <i>Chemical Geology</i> , 1991, 90, 233-252.	1.4	143
4	The Acid/Base Chemistry of Montmorillonite. <i>Radiochimica Acta</i> , 1994, 66-67, 157-162.	0.5	118
5	Isotopic composition of siderite as an indicator of depositional environment. <i>Geology</i> , 1992, 20, 817.	2.0	115
6	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.	1.6	113
7	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.	1.6	93
8	Surface charge of MnCO ₃ and FeCO ₃ . <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 2329-2336.	1.6	86
9	From adsorption to precipitation: Sorption of Mn ²⁺ on FeCO ₃ (s). <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 2787-2796.	1.6	82
10	Sealing ability of Wyoming bentonite pellets foreseen as buffer material – Laboratory results. <i>Physics and Chemistry of the Earth</i> , 2008, 33, S472-S475.	1.2	79
11	Characterization of dissolved organic matter in anoxic rock extracts and in situ pore water of the Opalinus Clay. <i>Applied Geochemistry</i> , 2007, 22, 2926-2939.	1.4	70
12	Isolation and characterization of dissolved organic matter from the Callovian-Oxfordian formation. <i>Applied Geochemistry</i> , 2007, 22, 1537-1548.	1.4	63
13	Geochemical modelling of bentonite porewater in high-level waste repositories. <i>Journal of Contaminant Hydrology</i> , 2003, 61, 405-422.	1.6	60
14	Diffusive transport and reaction in clay rocks: A storage (nuclear waste, CO ₂ , H ₂), energy (shale gas) and water quality issue. <i>Advances in Water Resources</i> , 2017, 106, 39-59.	1.7	56
15	Pore-water squeezing from indurated shales. <i>Chemical Geology</i> , 2015, 400, 106-121.	1.4	46
16	Anisotropic diffusion at the field scale in a 4-year multi-tracer diffusion and retention experiment – I: Insights from the experimental data. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 373-393.	1.6	40
17	Constraining porewater chemistry in a 250 m thick argillaceous rock sequence. <i>Chemical Geology</i> , 2016, 434, 43-61.	1.4	30
18	Interaction of Corroding Iron with Bentonite in the ABM1 Experiment at Åspö, Sweden: A Microscopic Approach. <i>Clays and Clay Minerals</i> , 2015, 63, 51-68.	0.6	24

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19	Multicomponent diffusion in a 280â€m thick argillaceous rock sequence. <i>Applied Geochemistry</i> , 2018, 95, 110-123.	1.4	22
20	Eighteen years of steelâ€“bentonite interaction in the FEBEX in situ test at the Grimsel Test Site in Switzerland. <i>Clays and Clay Minerals</i> , 2019, 67, 111-131.	0.6	21
21	Biogeochemical processes in a clay formation in situ experiment: Part F â€“ Reactive transport modelling. <i>Applied Geochemistry</i> , 2011, 26, 1009-1022.	1.4	20
22	Exploring diffusion and sorption processes at the Mont Terri rock laboratory (Switzerland): lessons learned from 20 years of field research. <i>Swiss Journal of Geosciences</i> , 2017, 110, 391-403.	0.5	19
23	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. <i>Materials Research Society Symposia Proceedings</i> , 2006, 932, 1.	0.1	17
24	Proton and Trivalent Metal Cation Binding by Dissolved Organic Matter in the Opalinus Clay and the Callovo-Oxfordian Formation. <i>Environmental Science & Technology</i> , 2008, 42, 5985-5991.	4.6	17
25	Porewater chemistry in compacted bentonite: Application to the engineered buffer barrier at the Olkiluoto site. <i>Applied Geochemistry</i> , 2016, 74, 165-175.	1.4	17
26	Porewater chemistry of Opalinus Clay revisited: Findings from 25 years of data collection at the Mont Terri Rock Laboratory. <i>Applied Geochemistry</i> , 2022, 138, 105234.	1.4	16
27	On-line monitoring of the gas composition in the Full-scale Emplacement experiment at Mont Terri (Switzerland). <i>Applied Geochemistry</i> , 2019, 100, 234-243.	1.4	14
28	Modeling of Cs+ diffusion and retention in the DI-A2 experiment (Mont Terri). Uncertainties in sorption and diffusion parameters. <i>Applied Geochemistry</i> , 2013, 33, 191-198.	1.4	11
29	Interaction of Corroding Iron with Eight Bentonites in the Alternative Buffer Materials Field Experiment (ABM2). <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 907.	0.8	11
30	Reactive transport modelling of ironâ€“bentonite interaction within the KBS-3H disposal concept: the Olkiluoto site as a case study. <i>Geological Society Special Publication</i> , 2014, 400, 237-250.	0.8	10
31	Comparison of models to evaluate microbial sulphide generation and transport in the near field of a SF/HLW repository in Opalinus Clay. <i>Journal of Contaminant Hydrology</i> , 2020, 228, 103561.	1.6	8
32	Reactive transport calculations to evaluate sulphide fluxes in the near-field of a SF/HLW repository in the Opalinus Clay. <i>Applied Geochemistry</i> , 2019, 100, 169-180.	1.4	7
33	Molecular dynamics data for modelling the microstructural behaviour of compacted sodium bentonites. <i>Applied Clay Science</i> , 2021, 201, 105932.	2.6	7
34	Assessment of Redox Conditions in the Near Field of Nuclear Waste Repositories: Application to the Swiss high-level and intermediate level waste disposal concept. <i>Materials Research Society Symposia Proceedings</i> , 2003, 807, 415.	0.1	4
35	Exploring diffusion and sorption processes at the Mont Terri rock laboratory (Switzerland): lessons learned from 20 years of field research. <i>Swiss Journal of Geosciences Supplement</i> , 2018, , 393-405.	0.0	4
36	Modelling of solute transport and microbial activity in diffusion cells simulating a bentonite barrier of a spent nuclear fuel repository. <i>Applied Clay Science</i> , 2021, 211, 106193.	2.6	3

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37	Coupling of chemical and hydromechanical properties in bentonite: A new reactive transport model. Applied Clay Science, 2021, 214, 106274.	2.6	2
38	Gas-bentonite interactions: Towards a better understanding of gas dynamics in Engineered Barrier Systems. Applied Geochemistry, 2022, 138, 105205.	1.4	2
39	Editorial for Special Issue "Clay Mineral Transformations after Bentonite/Clayrocks and Heater/Water Interactions from Lab and Large-Scale Tests". Minerals (Basel, Switzerland), 2022, 12, 569.	0.8	1