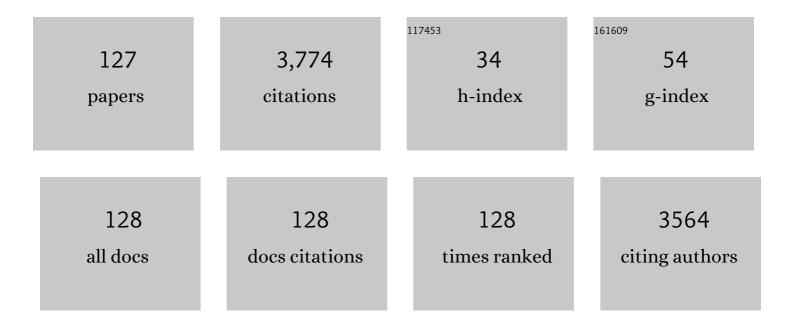
## Reiner Dohrmann

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Quantitative phase analysis of bentonites by the Rietveld method. Clays and Clay Minerals, 2008, 56, 272-282.	0.6	207
2	Moisture expansion as a deterioration factor for sandstone used in buildings. Environmental Earth Sciences, 2011, 63, 1545-1564.	1.3	139
3	Traditional and novel methods for estimating the layer charge of smectites. Applied Clay Science, 2006, 34, 2-13.	2.6	130
4	Description of X-ray powder pattern of turbostratically disordered layer structures with a Rietveld compatible approach. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.4	120
5	N2-BET specific surface area of bentonites. Journal of Colloid and Interface Science, 2010, 349, 275-282.	5.0	110
6	Three New, Quick CEC Methods for Determining the Amounts of Exchangeable Calcium Cations in Calcareous Clays. Clays and Clay Minerals, 2009, 57, 338-352.	0.6	88
7	Quantification of the mineralogical composition of clays using FTIR spectroscopy. Vibrational Spectroscopy, 2012, 59, 29-39.	1.2	85
8	Cation exchange capacity methodology II: A modified silver–thiourea method. Applied Clay Science, 2006, 34, 38-46.	2.6	84
9	Weathering of volcanic tuff rocks caused by moisture expansion. Environmental Earth Sciences, 2013, 69, 1203-1224.	1.3	83
10	The pH of aqueous bentonite suspensions. Clays and Clay Minerals, 2008, 56, 338-343.	0.6	76
11	Comparison of methods for the quantification of montmorillonite in bentonites. Applied Clay Science, 2002, 22, 145-151.	2.6	75
12	Chemical and Mineralogical Characterization of Blast-Furnace Sludge from an Abandoned Landfill. Environmental Science & Technology, 2004, 38, 5977-5984.	4.6	72
13	Stability of bentonites in salt solutionsII. Potassium chloride solution — Initial step of illitization?. Applied Clay Science, 2010, 49, 98-107.	2.6	68
14	Cation exchange capacity methodology I: An efficient model for the detection of incorrect cation exchange capacity and exchangeable cation results. Applied Clay Science, 2006, 34, 31-37.	2.6	67
15	Detachment of colloidal particles from bentonites in water. Applied Clay Science, 2008, 39, 50-59.	2.6	66
16	Influence of carbonate microfabrics on the failure strength of claystones. Engineering Geology, 2009, 107, 42-54.	2.9	62
17	The Fe-Mg-saponite solid solution series – a hydrothermal synthesis study. Clay Minerals, 2014, 49, 391-415.	0.2	62
18	Mineralogical characterization of individual growth structures of Mn-nodules with different Ni+Cu content from the central Pacific Ocean. American Mineralogist, 2015, 100, 2497-2508.	0.9	61

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19	Rietveld Refinement of Disordered Illite-Smectite Mixed-Layer Structures by a Recursive Algorithm. II: Powder-Pattern Refinement and Quantitative Phase Analysis. Clays and Clay Minerals, 2012, 60, 535-552.	0.6	60
20	Stability of bentonites in salt solutions   sodium chloride. Applied Clay Science, 2009, 45, 171-177.	2.6	56
21	Distinguishing between more and less suitable bentonites for storage of high-level radioactive waste. Clay Minerals, 2016, 51, 289-302.	0.2	54
22	Impact of natural organic matter coatings on the microbial reduction of iron oxides. Geochimica Et Cosmochimica Acta, 2018, 224, 223-248.	1.6	54
23	About differences of swelling pressure — dry density relations of compacted bentonites. Applied Clay Science, 2015, 107, 52-61.	2.6	52
24	About the possible upgrade of bentonite with respect to iodide retention capacity. Applied Clay Science, 2007, 35, 39-46.	2.6	45
25	Water-Uptake Capacity of Bentonites. Clays and Clay Minerals, 2010, 58, 37-43.	0.6	44
26	Microbial reduction of ferrihydrite-organic matter coprecipitates by Shewanella putrefaciens and Geobacter metallireducens in comparison to mediated electrochemical reduction. Chemical Geology, 2016, 447, 133-147.	1.4	43
27	A New Massive Deposit of Allophane Raw Material in Ecuador. Clays and Clay Minerals, 2009, 57, 72-81.	0.6	41
28	Microbial Community Dynamics in Soil Depth Profiles Over 120,000 Years of Ecosystem Development. Frontiers in Microbiology, 2017, 8, 874.	1.5	40
29	Quantification of Allophane from Ecuador. Clays and Clay Minerals, 2010, 58, 707-716.	0.6	39
30	Interlaboratory CEC and Exchangeable Cation Study of Bentonite Buffer Materials: I. Cu(II)-Triethylenetetramine Method. Clays and Clay Minerals, 2012, 60, 162-175.	0.6	39
31	Rietveld Refinement of Disordered Illite-Smectite Mixed-Layer Structures by a Recursive Algorithm. I: One-Dimensional Patterns. Clays and Clay Minerals, 2012, 60, 507-534.	0.6	39
32	Comparison of two procedures for particleâ€size analysis: Köhn pipette and Xâ€ray granulometry. Journal of Plant Nutrition and Soil Science, 2009, 172, 172-179.	1.1	38
33	Cation exchange capacity methodology III: Correct exchangeable calcium determination of calcareous clays using a new silver–thiourea method. Applied Clay Science, 2006, 34, 47-57.	2.6	37
34	Traffic-related distribution of antimony in roadside soils. Environmental Pollution, 2018, 237, 704-712.	3.7	37
35	Moisture expansion associated to secondary porosity: an example of the Loseros Tuff of Guanajuato, Mexico. Environmental Earth Sciences, 2013, 69, 1189-1201.	1.3	36
36	The variable charge of dioctahedral smectites. Journal of Colloid and Interface Science, 2013, 390, 225-233.	5.0	36

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37	Corrosion of high-level radioactive waste iron-canisters in contact with bentonite. Journal of Hazardous Materials, 2015, 285, 464-473.	6.5	35
38	Identification of a Crystalline Cyanide-Containing Compound in Blast Furnace Sludge Deposits. Journal of Environmental Quality, 2001, 30, 1927-1932.	1.0	34
39	Allophane compared with other sorbent minerals for the removal of fluoride from water with particular focus on a mineable Ecuadorian allophane. Applied Clay Science, 2010, 50, 25-33.	2.6	34
40	Variation of Preferred Orientation in Oriented Clay Mounts as a Result of Sample Preparation and Composition. Clays and Clay Minerals, 2009, 57, 686-694.	0.6	33
41	Characterization of chromium-containing wastes and soils affected by the production of chromium tanning agents. Journal of Soils and Sediments, 2013, 13, 1170-1179.	1.5	32
42	A novel nZVI–bentonite nanocomposite to remove trichloroethene (TCE) from solution. Chemosphere, 2021, 282, 131018.	4.2	31
43	Layer Charge Density of Smectites — Closing the Gap Between the Structural Formula Method and the Alkyl Ammonium Method. Clays and Clay Minerals, 2011, 59, 200-211.	0.6	30
44	Mineralogical investigations of the first package of the alternative buffer material test – I. Alteration of bentonites. Clay Minerals, 2013, 48, 199-213.	0.2	30
45	Microbial utilization of mineral-associated nitrogen in soils. Soil Biology and Biochemistry, 2017, 104, 185-196.	4.2	30
46	Effect of extensive drying on the cation exchange capacity of bentonites. Clay Minerals, 2010, 45, 441-448.	0.2	29
47	Mineralogical impact on long-term patterns of soil nitrogen and phosphorus enzyme activities. Soil Biology and Biochemistry, 2014, 68, 31-43.	4.2	29
48	Stability of bentonites in salt solutions III — Calcium hydroxide. Applied Clay Science, 2011, 51, 300-307.	2.6	28
49	A new method for identifying Wyoming bentonite by ATR-FTIR. Applied Clay Science, 2006, 33, 195-206.	2.6	27
50	Smectite stability in acid salt solutions and the fate of Eu, Th and U in solution. Clay Minerals, 2001, 36, 93-103.	0.2	26
51	Problems in CEC determination of calcareous clayey sediments using the ammonium acetate method. Journal of Plant Nutrition and Soil Science, 2006, 169, 330-334.	1.1	26
52	A comparative study of the luminescence characteristics of polymineral fine grains and coarse-grained K- and Na-rich feldspars. Radiation Measurements, 2012, 47, 903-908.	0.7	26
53	Hydro-mechanical, geochemical and mineralogical characteristics of the bentonite buffer in a heater experiment: The HE-B project at the Mont Terri Rock Laboratory. Physics and Chemistry of the Earth, 2007, 32, 730-740.	1.2	25
54	Influence of carbonate content and micro fabrics on the failure strength of the sandy facies of the Opalinus Clay from Mont Terri (Underground Rock Laboratory). Engineering Geology, 2013, 156, 111-118.	2.9	25

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55	Mineralogical investigations of the first package of the alternative buffer material test – II. Exchangeable cation population rearrangement. Clay Minerals, 2013, 48, 215-233.	0.2	25
56	Determination of Exchangeable Calcium of Calcareous and Gypsiferous Bentonites. Clays and Clay Minerals, 2010, 58, 79-88.	0.6	23
57	Organic matter dynamics along a salinity gradient in Siberian steppe soils. Biogeosciences, 2018, 15, 13-29.	1.3	23
58	Clay swelling mechanism in tuff stones: an example of the Hilbersdorf Tuff from Chemnitz, Germany. Environmental Earth Sciences, 2018, 77, 1.	1.3	22
59	Comparison of methods for distinguishing sodium carbonate activated from natural sodium bentonites. Applied Clay Science, 2013, 86, 23-37.	2.6	21
60	Deterioration of volcanic tuff rocks from Armenia: constraints on salt crystallization and hydric expansion. Environmental Earth Sciences, 2018, 77, 1.	1.3	21
61	Dioxins in Primary Kaolin and Secondary Kaolinitic Clays. Environmental Science & Technology, 2011, 45, 461-467.	4.6	20
62	Relating the Cation Exchange Properties of the Boom Clay (Belgium) to Mineralogy and Pore-Water Chemistry. Clays and Clay Minerals, 2018, 66, 449-465.	0.6	19
63	Review Article. What are the nature and formation conditions of hydroxyâ€interlayered minerals (HIMs) in soil?. Journal of Plant Nutrition and Soil Science, 2020, 183, 12-26.	1.1	19
64	Termination of swelling capacity of smectites by Cu <sub>trien</sub> exchange. Clay Minerals, 2011, 46, 411-420.	0.2	18
65	Joint clay–heavy–light mineral analysis: a tool to investigate the hydrographic–hydraulic regime of Late Cenozoic deltaic inland fans under changing climatic conditions (Cuvelai-Etosha Basin, Namibia). International Journal of Earth Sciences, 2013, 102, 265-304.	0.9	18
66	Density and porosity of bentonites. Journal of Porous Materials, 2013, 20, 191-208.	1.3	18
67	Altered volcanic ashes in Palaeocene and Eocene sediments of the Eureka Sound Group (Ellesmere) Tj ETQq1 1 164, 131-147.	0.784314 r 0.1	gBT /Overloci 18
68	Mercury in dumped blast furnace sludge. Chemosphere, 2014, 99, 248-253.	4.2	18
69	Kaolinization — a tool to unravel the formation and unroofing of the Pleystein pegmatite–aplite system (SE Germany). Ore Geology Reviews, 2015, 69, 33-56.	1.1	17
70	Supergene and hypogene alteration in the dual-use kaolin-bearing coal deposit Angren, SE Uzbekistan. International Journal of Coal Geology, 2008, 75, 225-240.	1.9	16
71	Cation Exchange and Mineral Reactions Observed in Mx 80 Buffer Samples of the Prototype Repository <l>in Situ</l> Experiment in Äspö, Sweden. Clays and Clay Minerals, 2014, 62, 357-373.	0.6	16
72	Disseminated and faultbound autohydrothermal ferroan saponite in Late Paleozoic andesites of the Saar-Nahe Basin, SW Germany: Implications for the economic geology of intermediate (sub)volcanic rocks. Applied Clay Science, 2011, 51, 226-240.	2.6	15

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73	Interlaboratory CEC and Exchangeable Cation Study of Bentonite Buffer Materials: II. Alternative Methods. Clays and Clay Minerals, 2012, 60, 176-185.	0.6	15
74	Porosity and distribution of water in perlite from the island of Milos, Greece. SpringerPlus, 2014, 3, 598.	1.2	15
75	Mineralogical, chemical and micromorphological studies of the argillic alteration zone of the epithermal gold deposit Ovacik, Western Turkey: Tools for applied and genetic economic geology. Journal of Geochemical Exploration, 2015, 148, 105-127.	1.5	15
76	Tetrahedral charge and Fe content in dioctahedral smectites. Clay Minerals, 2017, 52, 51-65.	0.2	15
77	Key parameters of volcanic tuffs used as building stone: a statistical approach. Environmental Earth Sciences, 2022, 81, 1.	1.3	15
78	Mechanisms of acid buffering and formation of secondary minerals in vitric Andosols. European Journal of Soil Science, 2007, 58, 431-444.	1.8	14
79	Electrical conductivity of bentonites. Applied Clay Science, 2015, 114, 375-385.	2.6	14
80	Crystal structure model development for soil clay minerals – II. Quantification and characterization of hydroxy-interlayered smectite (HIS) using the Rietveld refinement technique. Geoderma, 2019, 347, 1-12.	2.3	14
81	Characterization of the Second Parcel of the Alternative Buffer Material (ABM) Experiment — I Mineralogical Reactions. Clays and Clay Minerals, 2017, 65, 27-41.	0.6	13
82	Cement-bentonite-iron interactions on small scale tests for testing performance of bentonites as a barrier in high-level radioactive waste repository concepts. Applied Clay Science, 2017, 135, 427-436.	2.6	13
83	Characterization of the Second Package of the Alternative Buffer Material (ABM) Experiment — II Exchangeable Cation Population Rearrangement. Clays and Clay Minerals, 2017, 65, 104-121.	0.6	12
84	Crystal structure model development for soil clay minerals – I. Hydroxy-interlayered smectite (HIS) synthesized from bentonite. A multi-analytical study. Geoderma, 2019, 347, 135-149.	2.3	12
85	Assessing poorly crystalline and mineral-organic species by extracting Al, Fe, Mn, and Si using (citrate-) ascorbate and oxalate. Geoderma, 2021, 397, 115095.	2.3	12
86	Determining the extent of bentonite alteration at the bentonite/cement interface. Applied Clay Science, 2020, 186, 105446.	2.6	12
87	Effect of mineralogy on Co and Ni extraction from Brazilian limonitic laterites via bioleaching and chemical leaching. Minerals Engineering, 2022, 184, 107604.	1.8	12
88	Reactive transport modelling of groundwater-bentonite interaction: Effects on exchangeable cations in an alternative buffer material in-situ test. Applied Geochemistry, 2016, 73, 59-69.	1.4	11
89	Thermal expansion on volcanic tuff rocks used as building stones: examples from Mexico. Environmental Earth Sciences, 2018, 77, 1.	1.3	11
90	Using highâ€resolution XRF analyses as a sequence stratigraphic tool in a mudstoneâ€dominated succession (Early Cretaceous, Lower Saxony Basin, Northern Germany). Depositional Record, 2020, 6, 236-258.	0.8	11

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91	Comparison of the traditional Enslin-Neff method and the modified Dieng method for measuring water-uptake capacity. Clays and Clay Minerals, 2008, 56, 686-692.	0.6	10
92	Abrasivity by bentonite dispersions. Applied Clay Science, 2009, 46, 37-42.	2.6	10
93	Formation conditions and REY enrichment of the 2060ÂMa phosphorus mineralization at Schiel (South) Tj ETQq1	1,0.78431 1.7	l4rgBT /Ove
94	Comparison of Three Small-Scale Devices for the Investigation of the Electrical Conductivity/Resistivity of Swelling and Other Clays. Clays and Clay Minerals, 2014, 62, 1-12.	0.6	9
95	Origin of Bentonites and Detrital Zircons of the Paleocene Basilika Formation, Svalbard. Frontiers in Earth Science, 2016, 4, .	0.8	9
96	Comparison of the Critical Coagulation Concentrations of Allophane and Smectites. Colloids and Interfaces, 2018, 2, 12.	0.9	9
97	Paleontological, mineralogical and chemical studies of syngenetic and epigenetic Pb–Zn–Ba–P mineralizations at the stratotype of the K/P boundary (El Kef area, Tunisia). International Journal of Earth Sciences, 2011, 100, 805-846.	0.9	8
98	Mg and silica release in short-term dissolution tests in bentonites. Applied Clay Science, 2019, 172, 106-114.	2.6	8
99	Geochemical and mineralogical characterization of smectites from the Ventzia basin, western Macedonia, Greece. Clay Minerals, 2019, 54, 95-107.	0.2	8
100	Shelf life stability of diatomites. Applied Clay Science, 2008, 41, 158-164.	2.6	7
101	The acidity of surface groups of dioctahedral smectites. Clay Minerals, 2011, 46, 583-592.	0.2	7
102	Overview of the clay mineralogy studies presented at the â€~Clays in natural and engineered barriers for radioactive waste confinement' meeting, Montpellier, October 2012. Clay Minerals, 2013, 48, 149-152.	0.2	7
103	Interaction of Magnesium Cations with Dioctahedral Smectites under HLRW Repository Conditions. Clays and Clay Minerals, 2016, 64, 743-752.	0.6	7
104	Complexity of clay mineral formation during 120,000 years of soil development along the Franz Josef chronosequence, New Zealand. New Zealand Journal of Geology, and Geophysics, 2017, 60, 23-35.	1.0	7
105	SEM study of the early stages of Fe-bentonite corrosion—The role of naturally present reactive silica. Corrosion Science, 2020, 171, 108716.	3.0	7
106	Mineralogical Analysis of Bentonite from the ABM5 Heater Experiment at Äspö Hard Rock Laboratory, Sweden. Minerals (Basel, Switzerland), 2021, 11, 669.	0.8	7
107	Volatilization of elemental mercury from fresh blast furnace sludge mixed with basic oxygen furnace sludge under different temperatures. Environmental Sciences: Processes and Impacts, 2015, 17, 1915-1922.	1.7	6
108	Crystal-Chemical Composition of Dicoctahedral Smectites: An Energy-Based Assessment of Empirical Relations. ACS Earth and Space Chemistry, 2017, 1, 629-636.	1.2	6

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109	About the Corrosion Mechanism of Metal Iron in Contact with Bentonite. ACS Earth and Space Chemistry, 2020, 4, 711-721.	1.2	6
110	Water redistribution between bentonite and salt at elevated temperature. Applied Clay Science, 2009, 46, 245-250.	2.6	5
111	Clay mineralogy and rock strength of a mid-German diabase: implications for improved quality control. Clay Minerals, 2012, 47, 419-428.	0.2	5
112	Comparison of the dry densities of highly compacted bentonites. Clay Minerals, 2013, 48, 105-115.	0.2	5
113	Zn-rich smectite from the Silver Coin Mine, Nevada, USA. Clay Minerals, 2015, 50, 417-430.	0.2	5
114	Unusual illite–dioctahedral vermiculite interstratification with Reichweite 2 in clays from northern Hungary. European Journal of Mineralogy, 2018, 30, 747-757.	0.4	5
115	Structure, kinematics and composition of fluid-controlled brittle faults and veins in Lower Cretaceous claystones (Lower Saxony Basin, Northern Germany): Constraints from petrographic studies, microfabrics, stable isotopes and biomarker analyses. Chemical Geology, 2020, 540, 119501.	1.4	5
116	Characterisation of natural and remoulded OnsÃ,y clay with focus on the influence of mica. Engineering Geology, 2021, 295, 106378.	2.9	5
117	A combined IR and XRD study of natural well crystalline goethites (α-FeOOH). Acta Geochimica, 2022, 41, 794-810.	0.7	5
118	Synthesis of Zeolites from Fine-Grained Perlite and Their Application as Sorbents. Materials, 2022, 15, 4474.	1.3	5
119	A late-stage hydrothermal phosphate-bearing montmorillonite argillitization from the tourmaline-bearing pegmatite of Alto dos Quintos Mine, northeast Brazil. Clay Minerals, 2011, 46, 473-485.	0.2	4
120	Weathering of Fruchtschiefer building stones: mineral dissolution or rock disaggregation?. Environmental Earth Sciences, 2011, 63, 1665-1676.	1.3	4
121	Evolution of the pH value at the vicinity of the iron-bentonite interface. Applied Clay Science, 2021, 201, 105929.	2.6	4
122	Brilliant Blue sorption characteristics of clay-organic aggregate coatings from Bt horizons. Soil and Tillage Research, 2020, 201, 104635.	2.6	4
123	Overview of the clay-mineralogy studies presented at the â€~Clays in natural and engineered barriers for radioactive waste confinement' meeting, Brussels, March 2015. Clay Minerals, 2016, 51, 125-128.	0.2	3
124	Methods for Characterizing the Geochemical and Microbiological Conditions. , 2007, , 749-940.		2
125	Genetic implications of a retransported loess profile near CÃ <sup>3</sup> rdoba, Argentina. Journal of South American Earth Sciences, 2010, 29, 642-649.	0.6	1
126	Investigation of hydrated smectite microstructure through wet environmental transmission electron microscopy. Micron, 2020, 130, 102793.	1.1	1

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127	Obituary Chris Breen, 1955–2018. Clay Minerals, 2018, 53, 547-548.	0.2	Ο