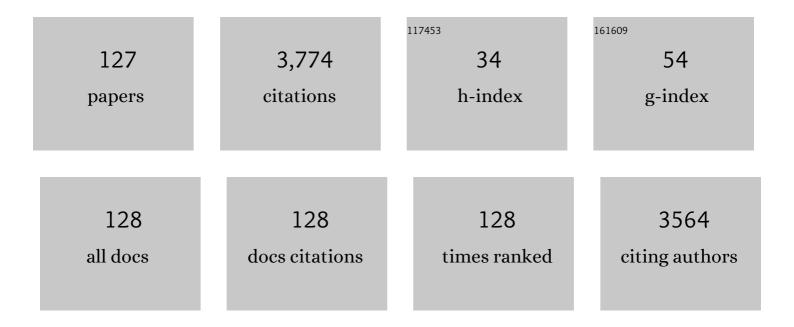
Reiner Dohrmann

List of Publications by Year in descending order

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REINED DOHDMANN

#	Article	IF	CITATIONS
1	Key parameters of volcanic tuffs used as building stone: a statistical approach. Environmental Earth Sciences, 2022, 81, 1.	1.3	15
2	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
3	A combined IR and XRD study of natural well crystalline goethites (α-FeOOH). Acta Geochimica, 2022, 41, 794-810.	0.7	5
4	Synthesis of Zeolites from Fine-Grained Perlite and Their Application as Sorbents. Materials, 2022, 15, 4474.	1.3	5
5	Evolution of the pH value at the vicinity of the iron-bentonite interface. Applied Clay Science, 2021, 201, 105929.	2.6	4
6	Mineralogical Analysis of Bentonite from the ABM5 Heater Experiment at Äspö Hard Rock Laboratory, Sweden. Minerals (Basel, Switzerland), 2021, 11, 669.	0.8	7
7	Characterisation of natural and remoulded OnsÃy clay with focus on the influence of mica. Engineering Geology, 2021, 295, 106378.	2.9	5
8	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
9	A novel nZVI–bentonite nanocomposite to remove trichloroethene (TCE) from solution. Chemosphere, 2021, 282, 131018.	4.2	31
10	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
11	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
12	Investigation of hydrated smectite microstructure through wet environmental transmission electron microscopy. Micron, 2020, 130, 102793.	1.1	1
13	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
14	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
15	About the Corrosion Mechanism of Metal Iron in Contact with Bentonite. ACS Earth and Space Chemistry, 2020, 4, 711-721.	1.2	6
16	Determining the extent of bentonite alteration at the bentonite/cement interface. Applied Clay Science, 2020, 186, 105446.	2.6	12
17	Brilliant Blue sorption characteristics of clay-organic aggregate coatings from Bt horizons. Soil and Tillage Research, 2020, 201, 104635.	2.6	4
18	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

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CITATIONS

19	Mg and silica release in short-term dissolution tests in bentonites. Applied Clay Science, 2019, 172, 106-114.	2.6	8
20	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
21	Geochemical and mineralogical characterization of smectites from the Ventzia basin, western Macedonia, Greece. Clay Minerals, 2019, 54, 95-107.	0.2	8
22	Formation conditions and REY enrichment of the 2060ÂMa phosphorus mineralization at Schiel (South) Tj ETQq	0 0 0 rgB1 1.7	[/Overloch
23	Clay swelling mechanism in tuff stones: an example of the Hilbersdorf Tuff from Chemnitz, Germany. Environmental Earth Sciences, 2018, 77, 1.	1.3	22
24	Impact of natural organic matter coatings on the microbial reduction of iron oxides. Geochimica Et Cosmochimica Acta, 2018, 224, 223-248.	1.6	54
25	Traffic-related distribution of antimony in roadside soils. Environmental Pollution, 2018, 237, 704-712.	3.7	37
26	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
27	Unusual illite–dioctahedral vermiculite interstratification with Reichweite 2 in clays from northern Hungary. European Journal of Mineralogy, 2018, 30, 747-757.	0.4	5
28	Deterioration of volcanic tuff rocks from Armenia: constraints on salt crystallization and hydric expansion. Environmental Earth Sciences, 2018, 77, 1.	1.3	21
29	Obituary Chris Breen, 1955–2018. Clay Minerals, 2018, 53, 547-548.	0.2	0
30	Comparison of the Critical Coagulation Concentrations of Allophane and Smectites. Colloids and Interfaces, 2018, 2, 12.	0.9	9
31	Organic matter dynamics along a salinity gradient in Siberian steppe soils. Biogeosciences, 2018, 15, 13-29.	1.3	23
32	Thermal expansion on volcanic tuff rocks used as building stones: examples from Mexico. Environmental Earth Sciences, 2018, 77, 1.	1.3	11
33	Tetrahedral charge and Fe content in dioctahedral smectites. Clay Minerals, 2017, 52, 51-65.	0.2	15
34	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
35	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
36	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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37	Microbial utilization of mineral-associated nitrogen in soils. Soil Biology and Biochemistry, 2017, 104, 185-196.	4.2	30
38	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
39	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
40	Microbial Community Dynamics in Soil Depth Profiles Over 120,000 Years of Ecosystem Development. Frontiers in Microbiology, 2017, 8, 874.	1.5	40
41	Origin of Bentonites and Detrital Zircons of the Paleocene Basilika Formation, Svalbard. Frontiers in Earth Science, 2016, 4, .	0.8	9
42	Interaction of Magnesium Cations with Dioctahedral Smectites under HLRW Repository Conditions. Clays and Clay Minerals, 2016, 64, 743-752.	0.6	7
43	Overview of the clay-mineralogy studies presented at the †Clays in natural and engineered barriers for radioactive waste confinement' meeting, Brussels, March 2015. Clay Minerals, 2016, 51, 125-128.	0.2	3
44	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
45	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
46	Distinguishing between more and less suitable bentonites for storage of high-level radioactive waste. Clay Minerals, 2016, 51, 289-302.	0.2	54
47	Zn-rich smectite from the Silver Coin Mine, Nevada, USA. Clay Minerals, 2015, 50, 417-430.	0.2	5
48	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
49	About differences of swelling pressure — dry density relations of compacted bentonites. Applied Clay Science, 2015, 107, 52-61.	2.6	52
50	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
51	Electrical conductivity of bentonites. Applied Clay Science, 2015, 114, 375-385.	2.6	14
52	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
53	Corrosion of high-level radioactive waste iron-canisters in contact with bentonite. Journal of Hazardous Materials, 2015, 285, 464-473.	6.5	35
54	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

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55	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
56	Porosity and distribution of water in perlite from the island of Milos, Greece. SpringerPlus, 2014, 3, 598.	1.2	15
57	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
58	The Fe-Mg-saponite solid solution series – a hydrothermal synthesis study. Clay Minerals, 2014, 49, 391-415.	0.2	62
59	Mineralogical impact on long-term patterns of soil nitrogen and phosphorus enzyme activities. Soil Biology and Biochemistry, 2014, 68, 31-43.	4.2	29
60	Mercury in dumped blast furnace sludge. Chemosphere, 2014, 99, 248-253.	4.2	18
61	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
62	Weathering of volcanic tuff rocks caused by moisture expansion. Environmental Earth Sciences, 2013, 69, 1203-1224.	1.3	83
63	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
64	Comparison of methods for distinguishing sodium carbonate activated from natural sodium bentonites. Applied Clay Science, 2013, 86, 23-37.	2.6	21
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	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
68	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
69	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
70	The variable charge of dioctahedral smectites. Journal of Colloid and Interface Science, 2013, 390, 225-233.	5.0	36
71	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
72	Comparison of the dry densities of highly compacted bentonites. Clay Minerals, 2013, 48, 105-115.	0.2	5

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73	Altered volcanic ashes in Palaeocene and Eocene sediments of the Eureka Sound Group (Ellesmere) Tj ETQq1 1 164, 131-147.	0.784314	rgBT /Overloc 18
74	Interlaboratory CEC and Exchangeable Cation Study of Bentonite Buffer Materials: II. Alternative Methods. Clays and Clay Minerals, 2012, 60, 176-185.	0.6	15
75	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
76	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
77	Clay mineralogy and rock strength of a mid-German diabase: implications for improved quality control. Clay Minerals, 2012, 47, 419-428.	0.2	5
78	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
79	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
80	Quantification of the mineralogical composition of clays using FTIR spectroscopy. Vibrational Spectroscopy, 2012, 59, 29-39.	1.2	85
81	Dioxins in Primary Kaolin and Secondary Kaolinitic Clays. Environmental Science & Technology, 2011, 45, 461-467.	4.6	20
82	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
83	The acidity of surface groups of dioctahedral smectites. Clay Minerals, 2011, 46, 583-592.	0.2	7
84	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
85	Stability of bentonites in salt solutions III — Calcium hydroxide. Applied Clay Science, 2011, 51, 300-307.	2.6	28
86	Termination of swelling capacity of smectites by Cu _{trien} exchange. Clay Minerals, 2011, 46, 411-420.	0.2	18
87	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
88	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
89	Moisture expansion as a deterioration factor for sandstone used in buildings. Environmental Earth Sciences, 2011, 63, 1545-1564.	1.3	139
90	Weathering of Fruchtschiefer building stones: mineral dissolution or rock disaggregation?. Environmental Earth Sciences, 2011, 63, 1665-1676.	1.3	4

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91	N2-BET specific surface area of bentonites. Journal of Colloid and Interface Science, 2010, 349, 275-282.	5.0	110
92	Water-Uptake Capacity of Bentonites. Clays and Clay Minerals, 2010, 58, 37-43.	0.6	44
93	Determination of Exchangeable Calcium of Calcareous and Gypsiferous Bentonites. Clays and Clay Minerals, 2010, 58, 79-88.	0.6	23
94	Effect of extensive drying on the cation exchange capacity of bentonites. Clay Minerals, 2010, 45, 441-448.	0.2	29
95	Genetic implications of a retransported loess profile near Córdoba, Argentina. Journal of South American Earth Sciences, 2010, 29, 642-649.	0.6	1
96	Stability of bentonites in salt solutionsII. Potassium chloride solution — Initial step of illitization?. Applied Clay Science, 2010, 49, 98-107.	2.6	68
97	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
98	Quantification of Allophane from Ecuador. Clays and Clay Minerals, 2010, 58, 707-716.	0.6	39
99	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
100	Influence of carbonate microfabrics on the failure strength of claystones. Engineering Geology, 2009, 107, 42-54.	2.9	62
101	Stability of bentonites in salt solutions sodium chloride. Applied Clay Science, 2009, 45, 171-177.	2.6	56
102	Abrasivity by bentonite dispersions. Applied Clay Science, 2009, 46, 37-42.	2.6	10
103	Water redistribution between bentonite and salt at elevated temperature. Applied Clay Science, 2009, 46, 245-250.	2.6	5
104	A New Massive Deposit of Allophane Raw Material in Ecuador. Clays and Clay Minerals, 2009, 57, 72-81.	0.6	41
105	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
106	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
107	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
108	Quantitative phase analysis of bentonites by the Rietveld method. Clays and Clay Minerals, 2008, 56, 272-282.	0.6	207

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109	The pH of aqueous bentonite suspensions. Clays and Clay Minerals, 2008, 56, 338-343.	0.6	76
110	Detachment of colloidal particles from bentonites in water. Applied Clay Science, 2008, 39, 50-59.	2.6	66
111	Shelf life stability of diatomites. Applied Clay Science, 2008, 41, 158-164.	2.6	7
112	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
113	About the possible upgrade of bentonite with respect to iodide retention capacity. Applied Clay Science, 2007, 35, 39-46.	2.6	45
114	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
115	Methods for Characterizing the Geochemical and Microbiological Conditions. , 2007, , 749-940.		2
116	Mechanisms of acid buffering and formation of secondary minerals in vitric Andosols. European Journal of Soil Science, 2007, 58, 431-444.	1.8	14
117	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
118	Traditional and novel methods for estimating the layer charge of smectites. Applied Clay Science, 2006, 34, 2-13.	2.6	130
119	Cation exchange capacity methodology II: A modified silver–thiourea method. Applied Clay Science, 2006, 34, 38-46.	2.6	84
120	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
121	A new method for identifying Wyoming bentonite by ATR-FTIR. Applied Clay Science, 2006, 33, 195-206.	2.6	27
122	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
123	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
124	Chemical and Mineralogical Characterization of Blast-Furnace Sludge from an Abandoned Landfill. Environmental Science & Technology, 2004, 38, 5977-5984.	4.6	72
125	Comparison of methods for the quantification of montmorillonite in bentonites. Applied Clay Science, 2002, 22, 145-151.	2.6	75
126	Identification of a Crystalline Cyanide-Containing Compound in Blast Furnace Sludge Deposits. Journal of Environmental Quality, 2001, 30, 1927-1932.	1.0	34

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127	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