

Christian B Koch

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

2,448
citations

26
h-index

49
g-index

60
ext. papers

2,629
ext. citations

4.4
avg, IF

4.61
L-index

#	Paper	IF	Citations
58	Magnetic properties of hematite nanoparticles. <i>Physical Review B</i> , 2000 , 61, 6826-6838	3.3	298
57	Abiotic Nitrate Reduction to Ammonium: Key Role of Green Rust. <i>Environmental Science & Technology</i> , 1996 , 30, 2053-2056	10.3	257
56	Magnetic dynamics of weakly and strongly interacting hematite nanoparticles. <i>Physical Review B</i> , 2000 , 62, 1124-1135	3.3	183
55	Quantitative characterization of gold nanoparticles by field-flow fractionation coupled online with light scattering detection and inductively coupled plasma mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 2461-8	7.8	155
54	Kinetics of nitrate reduction by green rusts Effects of interlayer anion and Fe(II):Fe(III) ratio. <i>Applied Clay Science</i> , 2001 , 18, 81-91	5.2	148
53	Genotype-specific spatial distribution of starch molecules in the starch granule: a combined CLSM and SEM approach. <i>Biomacromolecules</i> , 2006 , 7, 2310-20	6.9	118
52	Mobilization of arsenic and iron from Red River floodplain sediments, Vietnam. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 3367-3381	5.5	102
51	Poly l-lactide-layered double hydroxide nanocomposites via in situ polymerization of l-lactide. <i>Polymer Degradation and Stability</i> , 2010 , 95, 2563-2573	4.7	74
50	Synthesis and characterization of pyroaurite. <i>Applied Clay Science</i> , 1995 , 10, 5-19	5.2	73
49	Sorption and desorption of arsenic to ferrihydrite in a sand filter. <i>Environmental Science & Technology</i> , 2005 , 39, 8045-51	10.3	68
48	Melt processing of poly(L-lactic acid) in the presence of organomodified anionic or cationic clays. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 112-125	2.9	61
47	Conditions for biological precipitation of iron by <i>Gallionella ferruginea</i> in a slightly polluted ground water. <i>Applied Geochemistry</i> , 2001 , 16, 1129-1137	3.5	59
46	Vivianite precipitation and phosphate sorption following iron reduction in anoxic soils. <i>Journal of Environmental Quality</i> , 2012 , 41, 938-49	3.4	49
45	Synthesis and Characterization of Cobalt(II)-Iron(III) Hydroxide Carbonate, a Layered Double Hydroxide Belonging to the Pyroaurite Group. <i>Journal of Solid State Chemistry</i> , 1994 , 113, 46-53	3.3	46
44	Movement of pendimethalin, ioxynil and soil particles to field drainage tiles. <i>Pest Management Science</i> , 2003 , 59, 85-96	4.6	44
43	Synthesis and Properties of Hexacyanoferrate Interlayered in Hydrotalcite. I. Hexacyanoferrate(II). <i>Clays and Clay Minerals</i> , 1994 , 42, 170-179	2.1	43
42	Vibrational, X-ray absorption, and Mössbauer spectra of sulfate minerals from the weathered massive sulfide deposit at Iron Mountain, California. <i>Chemical Geology</i> , 2011 , 284, 296-305	4.2	41

41	Effects of Thermal Treatment on Mineralogy and Heavy Metal Behavior in Iron Oxide Stabilized Air Pollution Control Residues. <i>Environmental Science & Technology</i> , 2000 , 34, 4620-4627	10.3	40
40	Composite films of arabinoxylan and fibrous sepiolite: morphological, mechanical, and barrier properties. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3378-86	9.5	36
39	Arsenic in Holocene aquifers of the Red River floodplain, Vietnam: Effects of sediment-water interactions, sediment burial age and groundwater residence time. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 225, 192-209	5.5	35
38	Effects of temperature on rates and mineral products of microbial Fe(II) oxidation by <i>Leptothrix cholodnii</i> at microaerobic conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 108, 107-124	5.5	34
37	Efficient dechlorination of carbon tetrachloride by hydrophobic green rust intercalated with dodecanoate anions. <i>Environmental Science & Technology</i> , 2012 , 46, 3390-7	10.3	33
36	Properties of Water-Dispersible Colloids from Macropore Deposits and Bulk Horizons of an Agrudalf. <i>Soil Science Society of America Journal</i> , 2004 , 68, 1844-1852	2.5	33
35	Hygroscopic growth and CCN activity of HULIS from different environments. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		28
34	Intercalation of linear C ₉ -16 carboxylates in layered Fe(II)-hydroxides (green rust) via ion exchange. <i>Applied Clay Science</i> , 2010 , 48, 334-341	5.2	28
33	Low-temperature magnetic anisotropy in micas and chlorite. <i>Tectonophysics</i> , 2014 , 629, 63-74	3.1	27
32	Multiproxy analysis of a new terrestrial and a marine Cretaceous-Paleogene (K-Pg) boundary site from New Zealand. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 657-672	5.5	25
31	Iron oxides and smectites in sediments from the Atlantis II Deep, Red Sea. <i>European Journal of Mineralogy</i> , 1998 , 10, 953-968	2.2	22
30	Inhibition of microbial trichloroethylene dechlorination [corrected] by Fe (III) reduction depends on Fe mineralogy: a batch study using the bioaugmentation culture KB-1. <i>Water Research</i> , 2013 , 47, 2543-54	12.5	20
29	Magnetic anisotropy in clinopyroxene and orthopyroxene single crystals. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 1431-1451	3.6	20
28	One-pot synthesis and characterization of Fe(II)-hydroxide (green rust) intercalated with C ₉ -14 linear alkyl carboxylates. <i>Applied Clay Science</i> , 2010 , 50, 512-519	5.2	20
27	Nano particles as the primary cause for long-term sunlight suppression at high southern latitudes following the Chicxulub impact: Evidence from ejecta deposits in Belize and Mexico. <i>Gondwana Research</i> , 2015 , 27, 1079-1088	5.1	19
26	Oxidation of Dodecanoate Intercalated Iron(II)-Iron(III) Layered Double Hydroxide to Form 2D Iron(III) (Hydr)oxide Layers. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 5718-5727	2.3	19
25	Magnetic anisotropy in natural amphibole crystals. <i>American Mineralogist</i> , 2015 , 100, 1940-1951	2.9	18
24	Synthesis and characterization of laurate-intercalated Mg-Al layered double hydroxide prepared by coprecipitation. <i>Applied Clay Science</i> , 2012 , 65-66, 143-151	5.2	13

23	Thermodynamic properties of feroxyhyte (β -FeOOH). <i>Clays and Clay Minerals</i> , 2008 , 56, 526-530	2.1	13
22	Degradation of l-poly lactide during melt processing with layered double hydroxides. <i>Polymer Degradation and Stability</i> , 2012 , 97, 2002-2009	4.7	12
21	A contribution to the crystal chemistry of the voltaite group: solid solutions, Mössbauer and infrared spectra, and anomalous anisotropy. <i>Mineralogy and Petrology</i> , 2013 , 107, 221-233	1.6	11
20	The standard Gibbs energy of formation of Fe(II)Fe(III) hydroxide sulfate green rust. <i>Clays and Clay Minerals</i> , 2008 , 56, 633-644	2.1	11
19	Si-Associated Goethite in Hydrothermal Sediments of the Atlantis II and Thetis Deeps, Red Sea. <i>Clays and Clay Minerals</i> , 2004 , 52, 115-129	2.1	11
18	WEATHERING INTENSITY CONTROLLING SUSTAINABILITY OF ULTISOLS UNDER SHIFTING CULTIVATION IN THE CHITTAGONG HILL TRACTS OF BANGLADESH. <i>Soil Science</i> , 2004 , 169, 663-674	0.9	11
17	Interactions between goethite particles subjected to heat treatment. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 135215	1.8	10
16	Thermal behavior of chlorites of the clinocllore-chamosite solid solution series: Oxidation of structural iron, hydrogen release and dehydroxylation. <i>Applied Clay Science</i> , 2016 , 132-133, 626-634	5.2	10
15	Characteristics and genesis of pisolitic soil layers in a tropical moist semi-deciduous forest of Ghana. <i>Geoderma</i> , 2007 , 141, 130-138	6.7	9
14	Lepidocrocite in hydrothermal sediments of the Atlantis II and Thetis Deeps, red sea. <i>Clays and Clay Minerals</i> , 2002 , 50, 186-197	2.1	9
13	Thermodynamic properties of tooeleite, $\text{Fe}^{3+}(\text{As}^{3+}\text{O}_3)_4(\text{SO}_4)(\text{OH})_4 \cdot 4\text{H}_2\text{O}$. <i>Chemie Der Erde</i> , 2016 , 76, 419-428	4.3	9
12	Investigation of a Monturaqui Impactite by Means of Bi-Modal X-ray and Neutron Tomography. <i>Journal of Imaging</i> , 2018 , 4, 72	3.1	7
11	Magnetic titanium-pillared clays (Ti-M-PILC): Magnetic studies and Mössbauer spectroscopy. <i>Clays and Clay Minerals</i> , 2009 , 57, 433-443	2.1	7
10	Double bonus: surfactant-assisted biomass pelleting benefits both the pelleting process and subsequent enzymatic saccharification of the pretreated pellets. <i>Green Chemistry</i> , 2021 , 23, 1050-1061	1.0	6
9	Kinetics of solution crystal growth of strengite, $\text{FePO}_4 \cdot 2\text{H}_2\text{O}$. <i>Journal of Crystal Growth</i> , 2018 , 482, 9-14	1.6	5
8	Groundwater transport of Cu in laterites in Zambia. <i>Applied Geochemistry</i> , 2015 , 56, 94-102	3.5	4
7	Composition of characteristic soils on the raised atoll Bellona, Solomon Islands. <i>Geoderma</i> , 2012 , 170, 186-194	6.7	4
6	Iron(IV) in layered Cobalt-Iron Oxide Formed by Electrochemical Oxidation. <i>Inorganic Chemistry</i> , 1994 , 33, 5363-5365	5.1	4

5	Crystal chemistry, Mössbauer spectroscopy, and thermodynamic properties of botryogen. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2016 , 193, 147-159	1	2
4	The Role of the Nature of Pillars in the Structural and Magnetic Properties of Magnetic Pillared Clays. <i>Clays and Clay Minerals</i> , 2011 , 59, 547-559	2.1	1
3	A high temperature Mössbauer study of nanocrystalline Fe _{73.5} Cu ₁ Nb ₃ B ₇ Si _{15.5} . <i>Physica Scripta</i> , 1995 , 52, 113-115	2.6	1
2	Comprehensive Geophysical Study at Wabar Crater, Rub Al-Khali Desert, Saudi Arabia. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001432	3.1	0
1	Provenance of pottery determined by soil physicochemical and chemometric methods: A case study from Frederiksgave, Ghana. <i>Geografisk Tidsskrift</i> , 2009 , 109, 69-79	1.5	