

Christian Adam

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,433
citations

257450

24
h-index

214800

47
g-index

72
all docs

72
docs citations

72
times ranked

1932
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of thermochemical treatment of sewage sludge ash with sodium sulphate in laboratory-scale and pilot-scale experiments. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 1997-2006.	3.5	7
2	Thermal treatment of sewage sludge for phosphorus fertilizer production: a model experiment. <i>Journal of Plant Nutrition</i> , 2022, 45, 1123-1133.	1.9	6
3	Future nutrient recovery from sewage sludge regarding three different scenarios - German case study. <i>Journal of Cleaner Production</i> , 2022, 333, 130130.	9.3	20
4	Waste-derived fertilizers can increase phosphorus uptake by sugarcane and availability in a tropical soil. <i>Journal of Plant Nutrition and Soil Science</i> , 2022, 185, 391-402.	1.9	6
5	Understanding scandium leaching from bauxite residues of different geological backgrounds using statistical design of experiments. <i>Journal of Geochemical Exploration</i> , 2022, 240, 107041.	3.2	4
6	Microspectroscopy reveals dust-derived apatite grains in acidic, highly-weathered Hawaiian soils. <i>Geoderma</i> , 2021, 381, 114681.	5.1	22
7	Recycling of blast-furnace sludge by thermochemical treatment with spent iron(II) chloride solution from steel pickling. <i>Journal of Hazardous Materials</i> , 2021, 402, 123511.	12.4	22
8	Environmental Evaluation of Gypsum Plasterboard Recycling. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 101.	2.0	21
9	Investigation of scandium in bauxite residues of different origin. <i>Applied Geochemistry</i> , 2021, 126, 104898.	3.0	20
10	In situ synchrotron XRD measurements during solidification of a melt in the CaO-SiO ₂ system using an aerodynamic levitation system. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 264003.	1.8	1
11	Crystalline phase analysis and phosphorus availability after thermochemical treatment of sewage sludge ash with sodium and potassium sulfates for fertilizer production. <i>Journal of Material Cycles and Waste Management</i> , 2021, 23, 2242-2254.	3.0	7
12	Synthesis and characterisation of alites from reduced basic oxygen furnace slags. <i>Cement and Concrete Research</i> , 2021, 147, 106518.	11.0	4
13	Uranium and thorium species in phosphate rock and sewage sludge ash based phosphorus fertilizers. <i>Journal of Hazardous Materials</i> , 2020, 382, 121100.	12.4	25
14	Inventory of Polish municipal sewage sludge ash (SSA) – Mass flows, chemical composition, and phosphorus recovery potential. <i>Waste Management</i> , 2020, 116, 31-39.	7.4	24
15	Soybean Fertilized by P-Phases from Bagasse-Based Materials: P-Extraction Procedures, Diffusive Gradients in Thin Films (DGT), and X-ray Diffraction Analysis (XRD). <i>Agronomy</i> , 2020, 10, 895.	3.0	5
16	Thermochemical Treatment of Sewage Sludge Ash (SSA) – Potential and Perspective in Poland. <i>Energies</i> , 2020, 13, 5461.	3.1	18
17	Chromium (VI) in phosphorus fertilizers determined with the diffusive gradients in thin-films (DGT) technique. <i>Environmental Science and Pollution Research</i> , 2020, 27, 24320-24328.	5.3	15
18	Effects of a nitrification inhibitor on nitrogen species in the soil and the yield and phosphorus uptake of maize. <i>Science of the Total Environment</i> , 2020, 715, 136895.	8.0	13

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19	Thermodynamic properties of calcium alkali phosphates Ca(Na,K)PO ₄ . Journal of Materials Science, 2020, 55, 8477-8490.	3.7	5
20	Circular economy model framework in the European water and wastewater sector. Journal of Material Cycles and Waste Management, 2020, 22, 682-697.	3.0	156
21	Agronomic performance of P recycling fertilizers and methods to predict it: a review. Nutrient Cycling in Agroecosystems, 2019, 115, 1-39.	2.2	85
22	Combining diffusive gradients in thin films (DGT) and spectroscopic techniques for the determination of phosphorus species in soils. Analytica Chimica Acta, 2019, 1057, 80-87.	5.4	11
23	Influence of wood ash pre-treatment on leaching behaviour, liming and fertilising potential. Waste Management, 2019, 83, 113-122.	7.4	18
24	Performance of secondary P-fertilizers in pot experiments analyzed by phosphorus X-ray absorption near-edge structure (XANES) spectroscopy. Ambio, 2018, 47, 62-72.	5.5	36
25	Air and chlorine gas corrosion of different silicon carbides analyzed by nano-Fourier-transform infrared (nano-FTIR) spectroscopy. Corrosion Science, 2018, 131, 324-329.	6.6	6
26	Combined disc pelletisation and thermal treatment of MSWI fly ash. Waste Management, 2018, 73, 381-391.	7.4	45
27	Fate of heavy metals and polycyclic aromatic hydrocarbons (PAH) in sewage sludge carbonisates and ashes – A risk assessment to a thermochemical phosphorus-recycling process. Waste Management, 2018, 78, 576-587.	7.4	10
28	Effect of various types of thermochemical processing of sewage sludges on phosphorus speciation, solubility, and fertilization performance. Waste Management, 2017, 62, 194-203.	7.4	66
29	Characterization of phosphorus compounds in soils by deep ultraviolet (DUV) Raman microspectroscopy. Journal of Raman Spectroscopy, 2017, 48, 867-871.	2.5	14
30	Phosphorus in recycling fertilizers - analytical challenges. Environmental Research, 2017, 155, 353-358.	7.5	33
31	Recycling oriented comparison of mercury distribution in new and spent fluorescent lamps and their potential risk. Chemosphere, 2017, 169, 618-626.	8.2	23
32	Phosphorus availability of sewage sludge-based fertilizers determined by the diffusive gradients in thin films (DGT) technique. Journal of Plant Nutrition and Soil Science, 2017, 180, 594-601.	1.9	31
33	Nanocrystalline and stacking-disordered β -cristobalite AlPO ₄ chemically stabilized at room temperature: synthesis, physical characterization, and X-ray powder diffraction data. Powder Diffraction, 2017, 32, S193-S200.	0.2	0
34	Determination of chromium (VI) in primary and secondary fertilizer and their respective precursors. Chemosphere, 2017, 182, 48-53.	8.2	22
35	Chemical state of mercury and selenium in sewage sludge ash based P-fertilizers. Journal of Hazardous Materials, 2016, 313, 179-184.	12.4	19
36	Microspectroscopy – Promising Techniques to Characterize Phosphorus in Soil. Communications in Soil Science and Plant Analysis, 2016, 47, 2088-2102.	1.4	13

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37	Thermochemical treatment of sewage sludge ash with sodium additives under reducing conditions analyzed by thermogravimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 1045-1051.	3.6	17
38	Phosphorus recovery from the wastewater stream—necessity and possibilities. <i>Desalination and Water Treatment</i> , 2016, 57, 15619-15627.	1.0	9
39	Optimized elemental analysis of fluorescence lamp shredder waste. <i>Talanta</i> , 2016, 147, 615-620.	5.5	16
40	Sewage sludge ash — A promising secondary phosphorus source for fertilizer production. <i>Science of the Total Environment</i> , 2016, 542, 1136-1143.	8.0	246
41	Nanocrystalline and stacking-disordered α -cristobalite AlPO_4 : the now deciphered main constituent of a municipal sewage sludge ash from a full-scale incineration facility. <i>Powder Diffraction</i> , 2015, 30, S31-S35.	0.2	4
42	Thermal Treatment of Chromium(III) Oxide with Carbonates Analyzed by Far-Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2015, 69, 1210-1214.	2.2	4
43	Recovery potential of German sewage sludge ash. <i>Waste Management</i> , 2015, 45, 400-406.	7.4	117
44	Chemical State of Chromium, Sulfur, and Iron in Sewage Sludge Ash based Phosphorus Fertilizers. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2376-2380.	6.7	27
45	Thermochemical treatment of sewage sludge ash with sodium salt additives for phosphorus fertilizer production — Analysis of underlying chemical reactions. <i>Waste Management</i> , 2015, 45, 385-390.	7.4	55
46	Complete Survey of German Sewage Sludge Ash. <i>Environmental Science & Technology</i> , 2014, 48, 11811-11818.	10.0	112
47	Chemical state of chromium in sewage sludge ash based phosphorus-fertilisers. <i>Chemosphere</i> , 2014, 103, 250-255.	8.2	33
48	Heavy Metal Removal from Sewage Sludge Ash by Thermochemical Treatment with Polyvinylchloride. <i>Environmental Science & Technology</i> , 2013, 47, 563-567.	10.0	71
49	Determination of Phosphate Phases in Sewage Sludge Ash-Based Fertilizers by Raman Microspectroscopy. <i>Applied Spectroscopy</i> , 2013, 67, 1101-1105.	2.2	13
50	Determination of Phosphorus Fertilizer Soil Reactions by Raman and Synchrotron Infrared Microspectroscopy. <i>Applied Spectroscopy</i> , 2013, 67, 1165-1170.	2.2	21
51	Evidence of formation of the tridymite form of AlPO_4 in some municipal sewage sludge ashes. <i>Powder Diffraction</i> , 2013, 28, S425-S435.	0.2	5
52	Resources from Waste. <i>Chemie-Ingenieur-Technik</i> , 2012, 84, 999-1004.	0.8	9
53	Heavy Metal Removal from Sewage Sludge Ash by Thermochemical Treatment with Gaseous Hydrochloric acid. <i>Environmental Science & Technology</i> , 2011, 45, 7445-7450.	10.0	98
54	Spectroscopic Investigation in the Mid- and Far-Infrared Regions of Phosphorus Fertilizers Derived from Thermochemically Treated Sewage Sludge Ash. <i>Applied Spectroscopy</i> , 2011, 65, 265-271.	2.2	19

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55	Heavy metal removal from sewage sludge ash analyzed by thermogravimetry. Journal of Thermal Analysis and Calorimetry, 2011, 103, 243-248.	3.6	15
56	Recovery of Chromium from AOD-Converter Slags. Steel Research International, 2010, 81, 1078-1083.	1.8	27
57	Chemical reactions during the preparation of P and NPK fertilizers from thermochemically treated sewage sludge ashes. Soil Science and Plant Nutrition, 2010, 56, 627-635.	1.9	28
58	Thermochemical treatment of sewage sludge ashes for phosphorus recovery. Waste Management, 2009, 29, 1122-1128.	7.4	308
59	Reaction sequences in the thermo-chemical treatment of sewage sludge ashes revealed by X-ray powder diffraction – A contribution to the European project SUSAN. , 2009, , 459-464.		2
60	Reaction sequences in the thermochemical treatment of sewage sludge ashes revealed by X-ray powder diffraction – A contribution to the European project SUSAN. Zeitschrift für Kristallographie, Supplement, 2009, 2009, 459-464.	0.5	33
61	Recovery of nutrients from sewage sludge – Results of the European research-project SUSAN. Water Practice and Technology, 2008, 3, .	2.0	3
62	Thermal Treatment of Municipal Sewage Sludge Aiming at Marketable P-Fertilisers. Materials Transactions, 2007, 48, 3056-3061.	1.2	47
63	Enhanced post-denitrification without addition of an external carbon source in membrane bioreactors. Water Research, 2005, 39, 3360-3368.	11.3	84
64	Membranbelebungsverfahren mit vermehrter biologischer Phosphorelimination (EBPR). Chemie-Ingenieur-Technik, 2003, 75, 628-632.	0.8	0
65	Enhanced biological phosphorus removal process implemented in membrane bioreactors to improve phosphorous recovery and recycling. Water Science and Technology, 2003, 48, 87-94.	2.5	28
66	Cost effective and advanced phosphorus removal in membrane bioreactors for a decentralised wastewater technology. Water Science and Technology, 2003, 47, 133-139.	2.5	18
67	Membrane bioreactor configurations for enhanced biological phosphorus removal. Water Science and Technology: Water Supply, 2003, 3, 237-244.	2.1	10
68	Enhanced biological phosphorus removal in membrane bioreactors. Water Science and Technology, 2002, 46, 281-286.	2.5	38
69	Process configurations adapted to membrane bioreactors for enhanced biological phosphorous and nitrogen removal. Desalination, 2002, 149, 217-224.	8.2	65
70	Use of nutrients from wastewater for the fertilizer industry - approaches towards the implementation of the circular economy (CE). , 0, 186, 1-9.		6