Gunvor Marie Kirkelund

List of Publications by Year
in descending order

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54 papers	1,360 citations	257429 24 h-index	361001 35 g-index
56 all docs	56 docs citations	56 times ranked	1047 citing authors

#	Article	IF	Citations
1	Extracting phosphorous from incinerated sewage sludge ash rich in iron or aluminum. Chemosphere, 2013, 91, 963-969.	8.2	131
2	Investigations of Cu, Pb and Zn partitioning by sequential extraction in harbour sediments after electrodialytic remediation. Chemosphere, 2010, 79, 997-1002.	8.2	64
3	Electrodialytic Removal of Cu, Zn, Pb, and Cd from Harbor Sediment:Â Influence of Changing Experimental Conditions. Environmental Science & Technology, 2005, 39, 2906-2911.	10.0	61
4	Electrodialytic removal of heavy metals and chloride from municipal solid waste incineration fly ash and air pollution control residue in suspension â€“ test of a new two compartment experimental cell. Electrochimica Acta, 2015, 181, 73-81.	5.2	48
5	Comparison of different MSWI fly ash treatment processes on the thermal behavior of As, Cr, Pb and Zn in the ash. Waste Management, 2017, 68, 240-251.	7.4	46
6	Test of experimental set-ups for electrodialytic removal of Cu, Zn, Pb and Cd from different contaminated harbour sediments. Engineering Geology, 2005, 77, 349-357.	6.3	44
7	Phosphorous recovery from sewage sludge ash suspended in water in a two-compartment electrodialytic cell. Waste Management, 2016, 51, 142-148.	7.4	44
8	Colour, compressive strength and workability of mortars with an iron rich sewage sludge ash. Construction and Building Materials, 2017, 157, 1199-1205.	7.2	42
9	Sewage sludge ash as resource for phosphorous and material for clay brick manufacturing. Construction and Building Materials, 2020, 249, 118684.	7.2	41
10	Electrodialytic remediation of municipal solid waste incineration fly ash as pre-treatment before geopolymerisation with coal fly ash. Journal of Hazardous Materials, 2021, 412, 125220.	12.4	40
11	The use of desorbing agents in electrodialytic remediation of harbour sediment. Science of the Total Environment, 2006, 357, 25-37.	8.0	39
12	Ammonium citrate as enhancement for electrodialytic soil remediation and investigation of soil solution during the process. Chemosphere, 2015, 119, 889-895.	8.2	39
13	Acidification of Harbor Sediment and Removal of Heavy Metals Induced by Water Splitting in Electrodialytic Remediation. Separation Science and Technology, 2005, 40, 2245-2264.	2.5	38
14	Multivariate methods for evaluating the efficiency of electrodialytic removal of heavy metals from polluted harbour sediments. Journal of Hazardous Materials, 2015, 283, 712-720.	12.4	37
15	Impact of production parameters on physiochemical characteristics of wood ash for possible utilisation in cement-based materials. Resources, Conservation and Recycling, 2019, 145, 230-240.	10.8	37
16	Characterization of sewage sludge ash and its effect on moisture physics of mortar. Journal of Building Engineering, 2019, 21, 396-403.	3.4	37
17	Electrokinetics applied in remediation of subsurface soil contaminated with chlorinated ethenes â€“ A review. Chemosphere, 2019, 235, 113-125.	8.2	35
18	Electrodialytic remediation of harbour sediment in suspensionâ€”Evaluation of effects induced by changes in stirring velocity and current density on heavy metal removal and pH. Journal of Hazardous Materials, 2009, 169, 685-690.	12.4	34

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19	Electrodialytic Separation of Phosphorus and Heavy Metals from Two Types of Sewage Sludge Ash. Separation Science and Technology, 2014, 49, 1910-1920.	2.5	32
20	Test of electrodialytic upgrading of MSWI APC residue in pilot scale: focus on reduced metal and salt leaching. Journal of Applied Electrochemistry, 2010, 40, 1049-1060.	2.9	30
21	Comparison of two- and three-compartment cells for electrodialytic removal of heavy metals from contaminated material suspensions. Journal of Hazardous Materials, 2019, 367, 68-76.	12.4	29
22	Electrodialytic remediation of suspended soil â€“ Comparison of two different soil fractions. Journal of Hazardous Materials, 2012, 203-204, 229-235.	12.4	28
23	Electrodialytic treatment for metal removal from sewage sludge ash from fluidized bed combustion. Journal of Hazardous Materials, 2010, 176, 1073-1078.	12.4	27
24	Electrodialytically treated MSWI fly ash use in clay bricks. Construction and Building Materials, 2020, 254, 119286.	7.2	27
25	Electrodialytic extraction of Cr from water-washed MSWI fly ash by changing pH and redox conditions. Waste Management, 2018, 71, 215-223.	7.4	25
26	Electrodialytic treatment of Greenlandic municipal solid waste incineration fly ash. Waste Management, 2018, 80, 241-251.	7.4	24
27	Effect of pulse current on acidification and removal of Cu, Cd, and As during suspended electrodialytic soil remediation. Electrochimica Acta, 2013, 107, 187-193.	5.2	21
28	Electrodialytic upgrading of three different municipal solid waste incineration residue types with focus on Cr, Pb, Zn, Mn, Mo, Sb, Se, V, Cl and SO4. Electrochimica Acta, 2015, 181, 167-178.	5.2	21
29	Electrodialytic removal of Cd from biomass combustion fly ash suspensions. Journal of Hazardous Materials, 2013, 250-251, 212-219.	12.4	19
30	Wood ash used as partly sand and/or cement replacement in mortar. International Journal of Sustainable Development and Planning, 2016, 11, 781-791.	0.7	17
31	Utilisation of Electrodialytically Treated Sewage Sludge Ash in Mortar. Waste and Biomass Valorization, 2018, 9, 2503-2515.	3.4	16
32	Improving the energy efficiency of an electrodialytic process to extract phosphorus from municipal solid waste digestate through different strategies. Applied Energy, 2019, 247, 182-189.	10.1	16
33	Impact of electrodialytic remediation of MSWI fly ash on hydration and mechanical properties of blends with Portland cement. Construction and Building Materials, 2021, 309, 125193.	7.2	16
34	Valorisation of ferric sewage sludge ashes: Potential as a phosphorus source. Waste Management, 2016, 52, 193-201.	7.4	15
35	The influence of electrodialytic remediation on dioxin (PCDD/PCDF) levels in fly ash and air pollution control residues. Chemosphere, 2016, 148, 380-387.	8.2	15
36	Electrodialytic extraction of Cd and Cu from sediment from Sisimiut Harbour, Greenland. Journal of Hazardous Materials, 2007, 140, 271-279.	12.4	14

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37	Screening of heavy metal containing waste types for use as raw material in Arctic clay-based bricks. Environmental Science and Pollution Research, 2018, 25, 32831-32843.	5.3	14
38	Testing new strategies to improve the recovery of phosphorus from anaerobically digested organic fraction of municipal solid waste. Journal of Chemical Technology and Biotechnology, 2020, 95, 439-449.	3.2	13
39	Electrodialytic remediation of fly ash from co-combustion of wood and straw. Electrochimica Acta, 2015, 181, 208-216.	5.2	12
40	Electrodialytic Remediation of Different Heavy Metal-Polluted Soils in Suspension. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	10
41	Leaching Properties of Estuarine Harbor Sediment before and after Electrodialytic Remediation. Environmental Engineering Science, 2007, 24, 424-433.	1.6	9
42	Screening of untreated municipal solid waste incineration fly ash for use in cement-based materials: chemical and physical properties. SN Applied Sciences, 2020, 2, 1.	2.9	9
43	Electrodialytic Extraction of Heavy Metals from Greenlandic MSWI Fly Ash As a Function of Remediation Time and L/S ratio. , 2013, , .		7
44	Effects of Chlorides and Sulphates on Heavy Metal Leaching from Mortar with Raw and Electrodialytically Treated MSWI Fly Ash. Waste and Biomass Valorization, 2022, 13, 2673-2688.	3.4	7
45	Screening dilute sources of rare earth elements for their circular recovery. Journal of Geochemical Exploration, 2022, 238, 107000.	3.2	6
46	Incorporation of Different Fly Ashes from MSWI as Substitute for Cement in Mortar: An Overview of the Suitability of Electrodialytic Pre-treatment. , 2016, , 225-247.		5
47	Pulsed stirring for energy efficiency improvements during electrodialytic extraction of As, Cd, Cr, Cu, Pb, and Zn from municipal solid waste incineration fly ash and air pollution control residue. Separation and Purification Technology, 2022, 290, 120835.	7.9	5
48	Graphite particles as third electrodes to enhance metal removal and energy saving in a stationary electrodialytic soil system. Electrochimica Acta, 2022, 407, 139896.	5.2	4
49	Performances and behavior of a water-soluble and pH-sensitive polycarboxybetaine used for metal ion recovery. Materials Today Communications, 2019, 20, 100575.	1.9	3
50	Ultrafine particles in inhabited areas in the Arctic - From very low to high concentrations. Atmospheric Pollution Research, 2018, 9, 299-308.	3.8	2
51	Recovery of Phosphorous from Sewage Sludge Ash Prior to Utilization as Secondary Resource in Concrete and Bricks. RILEM Bookseries, 2021, , 305-315.	0.4	0
52	Mercury levels in fly ash and Apc residue from municipal solid waste incineration before and after electrodialytic remediation. International Journal of Sustainable Development and Planning, 2016, 11, 672-682.	0.7	0
53	DEVELOPMENT OF A JOINT NORDIC MASTER IN COLD CLIMATE ENGINEERING WITHIN THE NORDIC FIVE TECH ALLIANCE. , 2017, , .		0
54	USING POLYCARBOBETAINES FOR CU RECOVERY FROM CATHOLYTES GENERATED BY ELECTRODIALYTIC TREATMENT OF SEWAGE SLUDGE ASH. , 2018, , .		0