Amirhomayoun Saffarzadeh

List of Publications by Year
in descending order

50 papers	1,101 citations	394286 19 h-index	414303 32 g-index
51 all docs	51 docs citations	51 times ranked	888 citing authors

#	Article	IF	Citations
1	Mineralogical characterization of municipal solid waste incineration bottom ash with an emphasis on heavy metal-bearing phases. Journal of Hazardous Materials, 2011, 187, 534-543.	6.5	146
2	Impacts of natural weathering on the transformation/neoformation processes in landfilled MSWI bottom ash: A geoenvironmental perspective. Waste Management, 2011, 31, 2440-2454.	3.7	84
3	Existence of Cl in municipal solid waste incineration bottom ash and dechlorination effect of thermal treatment. Journal of Hazardous Materials, 2014, 267, 214-220.	6.5	80
4	Evaluation of chemical speciation and environmental risk levels of heavy metals during varied acid corrosion conditions for raw and solidified/stabilized MSWI fly ash. Waste Management, 2019, 87, 407-416.	3.7	64
5	Modeling the formation of the quench product in municipal solid waste incineration (MSWI) bottom ash. Waste Management, 2016, 52, 159-168.	3.7	57
6	Chemical and mineralogical evaluation of slag products derived from the pyrolysis/melting treatment of MSW. Waste Management, 2006, 26, 1443-1452.	3.7	39
7	Hydrogen gas generation from metal aluminum-water interaction in municipal solid waste incineration (MSWI) bottom ash. Waste Management, 2018, 73, 342-350.	3.7	39
8	Influence of ignition process on mineral phase transformation in municipal solid waste incineration (MSWI) fly ash: Implications for estimating loss-on-ignition (LOI). Waste Management, 2017, 59, 222-228.	3.7	37
9	Characterization study of heavy metal-bearing phases in MSW slag. Journal of Hazardous Materials, 2009, 164, 829-834.	6.5	35
10	Aluminum and aluminum alloys in municipal solid waste incineration (MSWI) bottom ash: A potential source for the production of hydrogen gas. International Journal of Hydrogen Energy, 2016, 41, 820-831.	3.8	35
11	Utilization of waste natural fishbone for heavy metal stabilization in municipal solid waste incineration fly ash. Journal of Cleaner Production, 2018, 172, 3111-3118.	4.6	35
12	Characterization of chlorine and heavy metals for the potential recycling of bottom ash from municipal solid waste incinerators as cement additives. Frontiers of Environmental Science and Engineering, 2016, 10, 1.	3.3	32
13	Behavior of stabilized fly ashes in solid waste landfills. Waste Management, 1996, 16, 545-554.	3.7	31
14	Application of portable gas detector in point and scanning method to estimate spatial distribution of methane emission in landfill. Waste Management, 2017, 59, 255-266.	3.7	29
15	Influence of operations on leachate characteristics in the Aerobic-Anaerobic Landfill Method. Waste Management, 2018, 78, 698-707.	3.7	27
16	Enhanced Pb and Zn stabilization in municipal solid waste incineration fly ash using waste fishbone hydroxyapatite. Waste Management, 2020, 118, 281-290.	3.7	27
17	Cesium distribution and phases in proxy experiments on the incineration of radioactively contaminated waste from the Fukushima area. Journal of Environmental Radioactivity, 2014, 136, 76-84.	0.9	26
18	Site specific diel methane emission mechanisms in landfills: A field validated process based on vegetation and climate factors. Environmental Pollution, 2016, 218, 673-680.	3.7	24

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19	Geochemically structural characteristics of municipal solid waste incineration fly ash particles and mineralogical surface conversions by chelate treatment. Environmental Science and Pollution Research, 2016, 23, 734-743.	2.7	23
20	Impact of intermittent aerations on leachate quality and greenhouse gas reduction in the aerobicâ€“anaerobic landfill method. Waste Management, 2016, 55, 71-82.	3.7	20
21	Comparative study on inorganic Cl removal of municipal solid waste fly ash using different types and concentrations of organic acids. Chemosphere, 2020, 261, 127754.	4.2	20
22	Stimulation of waste decomposition in an old landfill by air injection. Bioresource Technology, 2016, 222, 66-74.	4.8	19
23	Simulating the impact of heavy rain on leaching behavior of municipal solid waste incineration bottom ash (MSWI BA) in semi-aerobic landfill. Waste Management, 2020, 113, 280-293.	3.7	16
24	Geoenvironmental weathering/deterioration of landfilled MSWI-BA glass. Journal of Hazardous Materials, 2014, 278, 610-619.	6.5	15
25	Tasks and problems involved in the handling of disaster waste upon April 2016 Kumamoto Earthquake, Japan. Natural Hazards, 2017, 89, 1273-1290.	1.6	14
26	Metal mobilization from municipal solid waste incineration bottom ash through metal complexation with organic and inorganic ligands. Journal of Material Cycles and Waste Management, 2010, 12, 1-9.	1.6	12
27	Kinetics of nitrous oxide production by denitrification in municipal solid waste. Chemosphere, 2015, 125, 64-69.	4.2	12
28	Nitrous oxide production during nitrification from organic solid waste under temperature and oxygen conditions. Environmental Technology (United Kingdom), 2016, 37, 2890-2897.	1.2	12
29	Separation and characterization of magnetic fractions from waste-to-energy bottom ash with an emphasis on the leachability of heavy metals. Environmental Science and Pollution Research, 2017, 24, 14970-14979.	2.7	12
30	Field study of nitrous oxide production with in situ aeration in a closed landfill site. Journal of the Air and Waste Management Association, 2016, 66, 280-287.	0.9	11
31	Impact of secondary generated minerals on toxic element immobilization for air pollution control fly ash of a municipal solid waste incinerator. Environmental Science and Pollution Research, 2018, 25, 20700-20712.	2.7	9
32	The impact of thermal treatment and cooling methods on municipal solid waste incineration bottom ash with an emphasis on Cl. Environmental Technology (United Kingdom), 2016, 37, 2564-2571.	1.2	8
33	The weathering of municipal solid waste incineration bottom ash evaluated by some weathering indices for natural rock. Waste Management, 2012, 32, 2294-2305.	3.7	7
34	Intra- and inter-particle heterogeneity of municipal solid waste incineration fly ash particles. Journal of Material Cycles and Waste Management, 2019, 21, 925-941.	1.6	7
35	Dechlorination of Municipal Solid Waste Incineration Fly Ash by Leaching with Fermentation Liquid of Food Waste. Sustainability, 2020, 12, 4389.	1.6	7
36	Dechlorination of fly ash by hydrolysate of municipal solid waste leachate. RSC Advances, 2020, 10, 26397-26406.	1.7	6

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37	Cost Analysis of Municipal Solid Waste Management in Major Indonesian Cities. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2012, 68, II_79-II_88.	0.1	5
38	Lessons learned from the Ezgelehâ€“Sarpol Zahab earthquake of November 2017: status of damage and disposal of disaster waste. Waste Disposal & Sustainable Energy, 2019, 1, 301-317.	1.1	4
39	Application of micro-scale correlation analysis to estimate metal speciation and the matrix in municipal solidÂwaste incineration fly ash. Journal of Material Cycles and Waste Management, 2020, 22, 1081-1093.	1.6	4
40	Heterogeneities of fly ash particles generated from a fluidized bed combustor of municipal solid waste incineration. Journal of Material Cycles and Waste Management, 2020, 22, 836-850.	1.6	4
41	Characterization of Grate Sifting Deposition Ash, Unquenched Bottom Ash and Water-Quenched Bottom Ash from Mass-Burn Moving Grate Waste to Energy Plant. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2014, 70, III_469-III_475.	0.1	2
42	Physical and mechanical properties of municipal solid waste incineration residues with cement and coal fly ash using X-ray Computed Tomography scanners. Frontiers of Structural and Civil Engineering, 2019, 13, 640-652.	1.2	2
43	Behavior of soft plastic in illegally dumped solid waste according to effective stress changes. Japanese Geotechnical Society Special Publication, 2016, 2, 1798-1801.	0.2	1
44	Sustainable alkali-activated materials. , 2022, , 489-508.		1
45	MUNICIPAL SOLID WASTE LANDFILL SETTLEMENT MODEL CONSIDERING MICROBIAL KINETICS IN BIODEGRADATION. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2012, 68, III_121-III_129.	0.1	0
46	Behavior of gas and heat transport in a simulated temporary disaster waste pile. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2014, 70, III_477-III_481.	0.1	0
47	Dechlorination of Municipal Solid Waste Incineration Residues for Beneficial Reuse as a Resource for Cement. , 2012, , 412-433.		0
48	Formation of Secondary Products under Natural Weathering and their Affinity with Heavy Metals in Landfilled MSWI Bottom Ash. Material Cycles and Waste Management Research, 2012, 23, 401-407.	0.0	0
49	Development of an Open Channel Classification Technique for Solid Waste Incineration Bottom Ash to Accelerate Coastal Landfill Site Stabilization. Journal of the Japan Society of Material Cycles and Waste Management, 2020, 31, 189-200.	0.1	0
50	CURRENT STATE OF SOLID WASTE LANDFILL MANAGEMENT AND HEAVY RAIN IMPACTS ON LEACHATE: CASE STUDY IN VIETNAM. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2020, 76, III_287-III_298.	0.1	0