Text S1 Experimental methods and results

Text S1.1 Experimental methods

Figure S1 show the schematic diagram of the apparatus used to generate and collect aerosol emitted by residential coal and biofuel combustion, and Figure S2 displays one of its photos taken during the sampling.

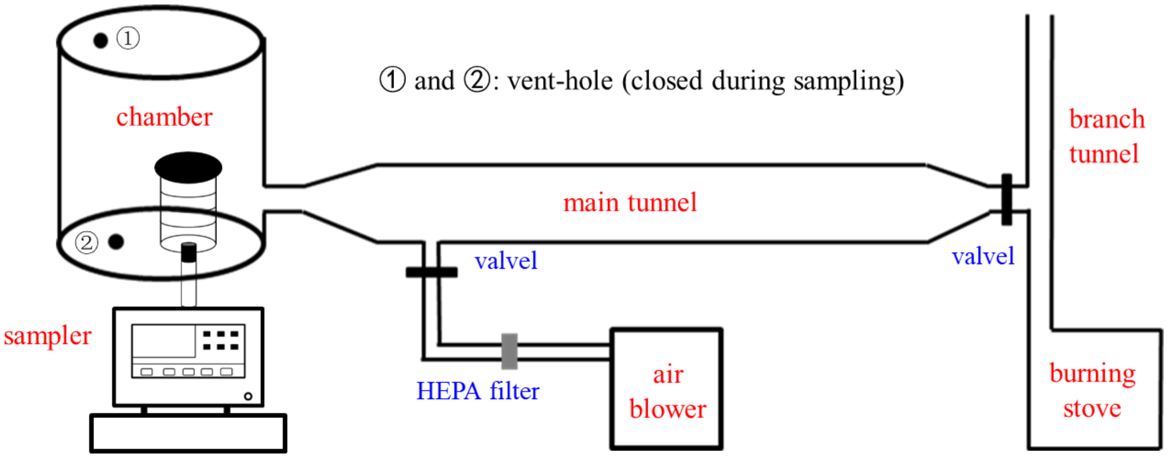

Figure S1. Schematic diagram of the apparatus used in our work to collect aerosol particles emitted by domestic coal and biofuel burning.

As shown in Figure 1, coal and biofuel were burned in a commercial cook stove, which is widely used in rural areas in China. Exhaust in the chimney, generated by coal and biofuel combustion, could go directly to the ambient air, or alternatively it could enter a horizontally-mounted long metal tube (inner diameter: 30 cm; length: 200 cm). After exiting the long metal tube, the exhaust entered a vertically-mounted chamber (inner diameter: 45 cm; height: 50 cm), and $PM_{2.5}$ was collected onto pre-cleaned Whatman 41 (W41) cellulose filters (diameter: 88 mm) via a medium volume aerosol sampler (TH-150C, Tianhong Co.) operated at a flow rate of 100 L/min. Filters were cleaned to reduce background using the procedure detailed elsewhere (Zhang et al., 2022). Aerosol sampling was stopped automatically when the pressure dropped to the threshold because of accumulation of aerosol on the filter, and sampling times ranged from a few to tens of minutes, varying for fuel types. Between combustion experiments, the tube was flushed to remove smoke generated from the previous combustion experiment.

Figure S2. A photo of the apparatus used in our work to collect aerosol particles emitted by domestic coal and biofuel burning.

Text S1.2 Experimental results

Table S1. Fe content and solubility for power plant coal fly ash samples (each from a coal power plant located in a different province in China) examined in this work.

sample	Fe content (μg/g)	Fe content (mg/g)	Fe solubility (%)
1	3.65×10^4	36.5	0.013
2	2.07×10^4	20.7	0.038
3	4.41×10^4	44.1	0.028
4	2.65×10^4	26.5	0.029
5	3.44×10^4	34.4	0.008
6	2.50×10^4	25.0	0.029
7	3.82×10^4	38.2	0.128
8	10.4×10^4	103.8	0.014
9	2.35×10^4	23.5	0.028
10	3.86×10^4	38.6	0.002
11	5.37×10^4	53.7	0.134
12	3.77×10^4	37.7	0.029
13	2.41×10^4	24.1	0.018
14	3.19×10^4	31.9	0.008
15	2.41×10^4	24.1	0.057
16	2.58×10^4	25.8	0.021
17	4.59×10^4	45.9	0.073
18	2.69×10^4	26.9	0.044
19	5.57×10^4	55.7	0.036
20	3.95×10^4	39.5	0.132
21	3.50×10^4	35.0	0.021
22	6.35×10^4	63.5	0.041
23	3.97×10^4	39.7	0.146
24	4.42×10^4	44.2	0.091
25	2.41×10^4	24.1	0.013
26	4.17×10^4	41.7	0.032
27	2.31×10^4	23.1	0.020
28	5.33×10^4	53.3	0.172
29	2.23×10^4	22.3	0.070
30	2.76×10^4	27.6	0.024
31	2.17×10^4	21.7	0.024

Table S2. Fe content and solubility for domestic coal combustion aerosols examined in this work.

sample	Fe content (μg/g)	Fe solubility (%)
anthracite	32	52.04
	26	27.05
semibituminous coal	35	11.71
	45	12.66
	62	34.52
	26	100.00
bituminous coal	101	7.03
	43	43.84
	25	29.86
	42	14.26

Table S3. Fe content and solubility for steelwork fly ash samples examined in this work.

sample	Fe content (μg/g)	Fe content (mg/g)	Fe solubility (%)
1	3.47×10^5	346.5	0.022
2	5.47×10^5	546.8	0.007
3	4.46×10^5	446.2	0.022
4	4.34×10^5	434.0	0.012
5	9.79×10^4	97.9	0.069
6	1.34×10^4	13.4	6.928
7	1.28×10^4	12.8	0.191
8	2.09×10^4	20.9	0.395
9	6.45×10^5	644.9	0.011
10	2.13×10^5	213.1	4.024
11	5.66×10^5	565.6	3.126
12	3.94×10^5	393.8	1.980
13	4.48×10^5	448.3	0.042
14	2.59×10^4	25.9	0.923
15	9.74×10^4	97.4	10.640
16	1.97×10^5	197.1	0.055
17	3.03×10^5	302.8	0.035
18	5.97×10^5	596.8	0.010
19	4.73×10^5	472.7	0.022
20	4.04×10^5	404.3	0.014
21	7.32×10^5	732.2	0.013
22	3.58×10^4	35.8	0.158
23	9.19×10^5	918.9	8.589
24	4.46×10^5	446.2	0.050
25	5.81×10^3	5.8	1.983
26	6.07×10^5	607.4	0.180
27	2.60×10^4	26.0	0.068
28	5.80×10^3	5.8	0.158
29	7.38×10^3	7.4	0.064

Table S4. Fe content and solubility for biofuel burning aerosols examined in this work.

sample	Fe content (μg/g)	Fe solubility (%)
wheat	21	60.14
	8	100.00
	6	26.09
	12	71.87
rice	n. a.	40.52
	28	47.06
	20	4.34
corn	3	44.83
	2	100.00
	3	100.00
	15	77.52
	7	88.36
rape	70	54.34
	6	57.39
cogongrass	11	89.41
	10	85.33
	19	86.46
	71	37.56
China fir	3	5.75
	3	43.64
	12	20.01
pine	72	67.55
	101	100.00
	40	65.91
poplar	18	2.86
pine needle	13	24.01
	21	27.06
	15	41.86

Table S5. Fe content and solubility for municipal waste fly ash, oil fly ash and oil bottom ash samples examined in this work.

sample	Fe content (μg/g)	Fe content (mg/g)	Fe solubility (%)
Municipal waste fly ash	3.87×10^{3}	3.9	0.58
	2.26×10^{4}	22.6	2.41
	2.97×10^{4}	29.7	1.54
oil bottom ash	1.91×10^{5}	191.5	25.47
oil fly ash	1.83×10^{4}	18.3	11.70
	9.06×10^{3}	9.1	13.43

Table S6. Summary of Fe content (mg/g) for anthropogenic and combustion aerosol Fe determined in our present study and previous work (*n*: number of samples examined).

sample type	size range	*n*	range	average	median	Reference
power plant		31	20.7-103.8	37.2±16.8	35.0	This work
coal fly ash		3	16.0-52.0	33.0±18.0	31.0	Baldo et al. (2021)
		7	21.8-205.1	65.9±67.4	34.4	Goodarzi (2006)
		1		46.7		Meij (1994)
		23	18.2-112.0	57.8±22.7	52.5	Moreno et al. (2005)
		4	7.7-97.3	54.3±39.5	56.0	Jankowski et al. (2006)
		4	58.9-101.0	81.1±19.4	82.3	Dutta et al. (2009)
		4	27.0-119.0	86.0±43.0	97.5	Fu et al. (2012)
		7	38.3-98.6	62.1±26.7	43.2	Li et al. (2022)
domestic coal	$PM_{2.5}$	10	0.025-0.101	0.044±0.023	0.038	This work
combustion aerosol	$PM_{2.5}$	3		0.048±0.035		Patil et al. (2013)
	$PM_{2.5}$	4		0.671±0.023		Watson et al. (2001)
	$PM_{2.5}$	5		0.7±0.1		Zhang et al. (2012)
	PM_{10}	3		0.061±0.044		Patil et al. (2013)
steelwork fly ash		29	5.8-918.9	312.6±246.1	346.5	This work
		1		358.9		Souza et al. (2010)
		1		369.3		Vieira et al. (2013)
		1		312.2		Silva et al. (2019)
		4	288.2-340.3	329.1±22.6	324.4	Alizadeh and Momeni (2016)
			280-380			Hagni et al. (1991)
		1		86.0		Stathopoulos et al. (2013)
		1		128.1		Xia and Picklesi (2000)

		1		150.8		Loaiza et al. (2017)
		1		286.5		Laforest and Duchesne (2006)
		1		284.6		Alsheyab and Khedaywi (2016)
		1		238.7		Li et al. (2023)
		4	234.1-361.1	267.3±4.8	283.6	Al-Negheimish et al. (2021)
		1		489.6		Machado et al. (2006)
		2	430-470	450±20	450	Patil et al. (2013)
		10	8.2-720			Hleis et al. (2013)
		1		515.0		Ye et al. (2021)
Biofuel burning aerosol	$PM_{2.5}$	27	0.002-0.101	0.023±0.026	0.013	This work
	$PM_{2.5}$	3		0.024±0.017		Patil et al. (2013)
	PM_2	2		0.090	0.090	Hildemann et al. (1991)
	$PM_{2.5}$	3		0.167±0.259		Watson et al. (2001)
	$PM_{2.5}$	4		0.180±0.196		Watson et al. (2001)
	$PM_{2.5}$	5	0.031-0.615	0.162	0.115	Hedberg et al. (2002)
	$PM_{2.5}$	1		0.440		Alves et al. (2011)
	$PM_{2.5}$	4		0.400±0.100		Zhang et al. (2012)
	PM_{10}	4	0.250-1.70	0.723±0.661	0.470	Schmidl et al. (2008)
municipal waste fly ash		3	3.9-29.7	18.7±13.3	22.6	This work
		3	7.8-33	18.0±13.3	13.2	Raclavská et al. (2017)
		1		23.1		Cobo et al. (2009)
		1		5.2		Wu and Ting (2006)
		1		5.5		Funari et al. (2017)
		1		10.5		Wu et al. (2012)
		1		10.9		Liu et al. (2009)
		1		29.4		Zhang et al. (2011)
		1		33.8		Wan et al. (2006)

	1		34.3		Lin et al. (2003)
	1		37.1		Bayuseno and Schmahl (2011)
oil fly ash	2	9.1-18.3	13.7±4.6	13.7	This work
	7		15.0		Celo et al. (2015)
	4	1.55-2.36	1.98±0.35	2.10	Agrawal et al. (2008)
	14	0.331-4.46	1.60±1.21	1.16	Sippula et al. (2014)
oil bottom ash	1		191	191	This work

Table S7. Summary of Fe solubility (%) for anthropogenic and combustion aerosol Fe determined in our present study and previous work (*n*: number of samples examined; pH: acidity of the leaching solution).

sample type	size range	*n*	pH	range	average	median	Reference
power plant coal fly ash		31	4.3	0.002-0.17	0.05±0.05	0.03	This work
		1	~6		0.06		Oakes et al. (2012)
		1	~4.7		0.2		Desboeufs et al. (2005)
		7	4.3	0.09-0.87	0.24±0.28	0.13	Li et al. (2022)
		7	~6	0.02-0.75	0.16±0.26	0.06	Li et al. (2022)
domestic coal combustion aerosol		10	4.3	7.03-100	33.30±27.71	28.45	This work
steelwork fly ash		29	4.3	0.007-10.64	1.37±2.77	0.07	This work
biofuel burning aerosol		28	4.3	2.86-100	56.07±30.95	55.87	This work
municipal waste fly ash		3	4.3	0.58-2.41	1.51±0.92	1.54	This work
oil fly ash		2	4.3	11.70-13.43	12.56±0.87	12.56	This work
		1	4.7		35.7		Desboeufs et al. (2005)
		1	~6		70%		Schroth et al. (2009)
oil bottom ash		1	4.3		25.47%		This work

Text S2 Modeling methods and results

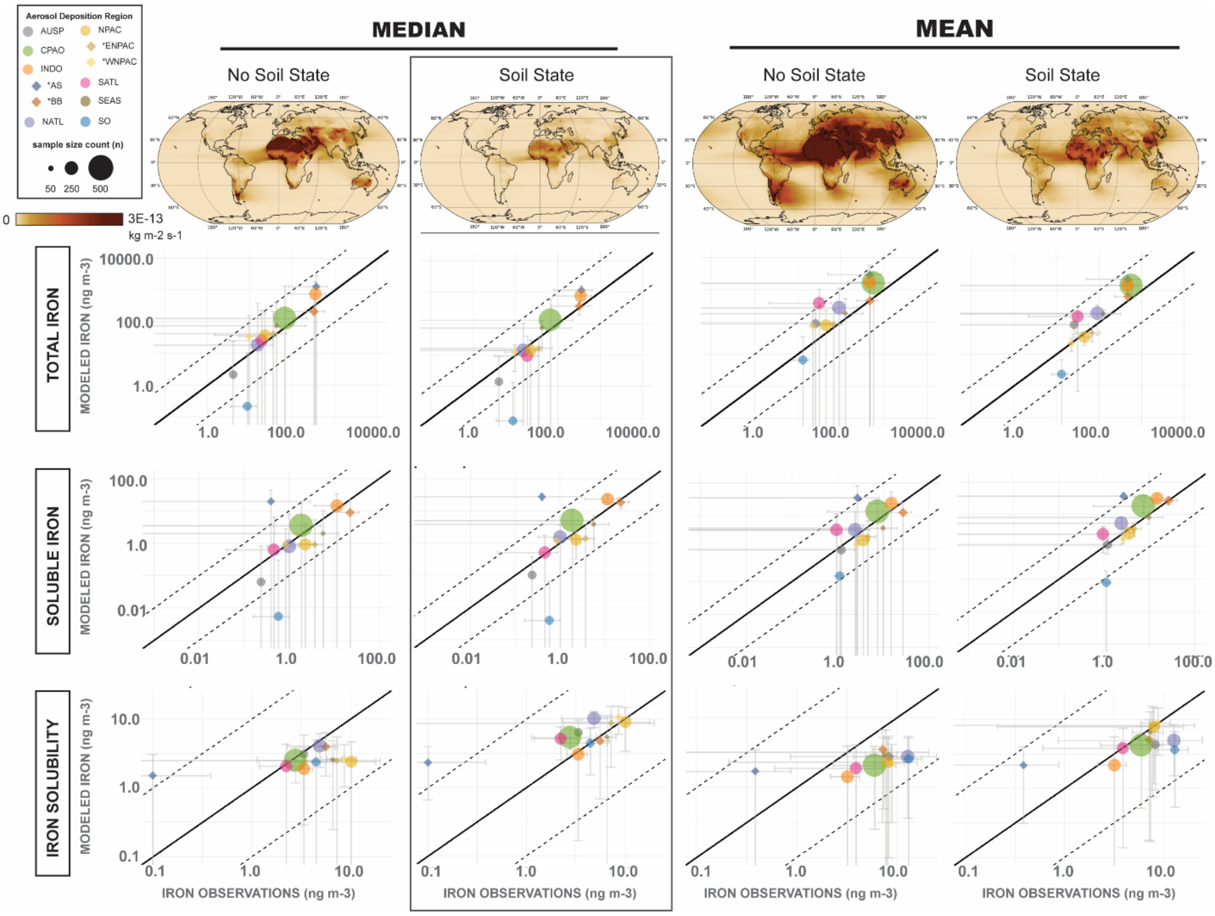

Figure S3. Model-observation comparisons of surface aerosol Fe concentrations using two different dust flux schemes (soil state submodule included versus no soil state submodule). As indicated by the black box, predictive capability for aerosol Fe concentrations by the model was best when soil state was included and both modeled and observed aerosol Fe concentrations were aggregated over time and space by medians when compared to means.

Table S8. Fe deposition flux budgets (Gg a^{-1}) for each key marine region. Values reported herein only include fluxes to marine systems (model grid cells where ocean fraction > 50%). AS = Arabian Sea, CPAO = Central Pacific and Atlantic Ocean, AUSP = Australia and South Pacific, BB = Bay of Bengal, ENPAC = Eastern North Pacific, NATL = North Atlantic, SATL = South Atlantic, SEAS = Southeastern Asia, SO = Southern Ocean, WNPAC = Western North Pacific.

	Simulation	Region												
		Global	**SATL**	**NATL**	**AS**	**BB**	**INDO**	**SEAS**	**ENPAC**	**WNPAC**	**ARCT**	**AUSP**	**SO**	**CPAO**
Total Fe	PD-BASE	23232	1266	2217	6711	1534	8246	706	283	283	283	59	1214	597
Total Anth. Fe	PD-BASE	585.7	23.8	71.9	56.8	65.3	122.1	241.5	61.1	61.1	61.1	9.3	11.3	5.3
Soluble Fe	PD-BASE	367	17	33	76	31	107	21	11	11	11	2	18	10
	PD-RESI	400	18	38	80	35	115	35	14	14	14	2	19	10
	PD-BIOF	412	20	39	81	37	118	37	14	14	14	3	19	11
	PD-IND	409	20	38	81	37	118	37	14	14	14	2	19	11
Soluble Anth. Fe	PD-BASE	36.2	1.7	3.9	4.2	4.5	8.7	10.7	5.1	5.1	5.1	0.6	0.5	0.3
	PD-RESI	69.5	2.4	8.5	7.8	9.2	17.0	24.8	8.3	8.3	8.3	1.0	1.2	0.5
	PD-BIOF	80.8	4.4	9.4	9.3	11.0	20.3	26.7	8.6	8.6	8.6	1.1	1.4	0.7
	PD-IND	78.3	4.4	8.9	9.1	10.8	19.9	26.2	8.3	8.3	8.3	1.0	1.3	0.7

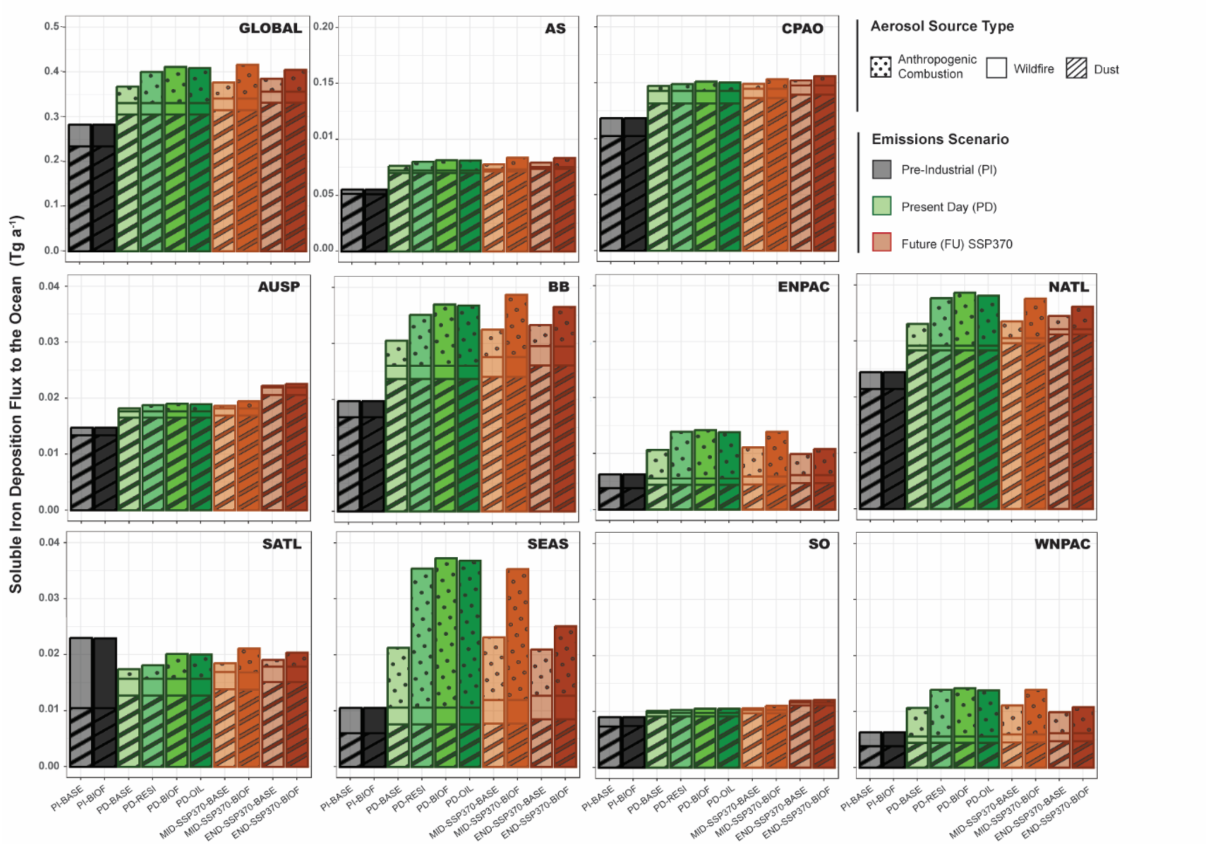

Figure S4. Deposition fluxes of soluble aerosol Fe to marine ecosystems globally and in regional grouping (see Figure 1 in the main text). Fluxes are source-apportioned (dust, biofuel burning, and anthropogenic combustion) and provided for each model simulation. AS = Arabian Sea, CPAO = Central Pacific and Atlantic Ocean, AUSP = Australia and South Pacific, BB = Bay of Bengal, ENPAC = Eastern North Pacific, NATL = North Atlantic, SATL = South Atlantic, SEAS = Southeastern Asia, SO = Southern Ocean, WNPAC = Western North Pacific. Note the difference in y-axes between the global, AS/CPAO, and remainder of regions.

References:

Agrawal, H., Malloy, Q. G. J., Welch, W. A., Wayne Miller, J., and Cocker, D. R.: In-use gaseous and particulate matter emissions from a modern ocean going container vessel, Atmospheric Environment, 42, 5504-5510, https://doi.org/10.1016/j.atmosenv.2008.02.053, 2008.

Al-Negheimish, A. I., Al-Mutlaq, F. M., Fares, G., Alhozaimy, A. M., and Iqbal Khan, M.: Characterization of chemical accelerators for sustainable recycling of fresh electric-arc furnace dust in cement pastes, Advanced Powder Technology, 32, 3046-3062, https://doi.org/10.1016/j.apt.2021.06.019, 2021.

Alizadeh, M., and Momeni, M.: The effect of the scrap/DRI ratio on the specification of the EAF dust and its influence on mechanical properties of the concrete treated by its dust, Construction and Building Materials, 112, 1041-1045, https://doi.org/10.1016/j.conbuildmat.2016.03.011, 2016.

Alsheyab, M. A. T., and Khedaywi, T. S.: Analysis of the Effect of Temperature on the Resilient Modulus of Asphalt Concrete Mixed with Electric Arc Furnace Dust (EAFD), Water, Air, & Soil Pollution, 227, 80, 10.1007/s11270-016-2776-4, 2016.

Alves, C., Gonçalves, C., Fernandes, A. P., Tarelho, L., and Pio, C.: Fireplace and woodstove fine particle emissions from combustion of western Mediterranean wood types, Atmospheric Research, 101, 692-700, https://doi.org/10.1016/j.atmosres.2011.04.015, 2011.

Baldo, C., Ito, A., Krom, M. D., Li, W., Jones, T., Drake, N., Ignatyev, K., Davidson, N., and Shi, Z.: Iron from coal combustion particles dissolves much faster than mineral dust under simulated atmospheric acid conditions, Atmos. Chem. Phys. Discuss., 2021, 1-31, 2021.

Bayuseno, A. P., and Schmahl, W. W.: Characterization of MSWI fly ash through mineralogy and water extraction, Resources, Conservation and Recycling, 55, 524-534, 2011.

Celo, V., Dabek-Zlotorzynska, E., and McCurdy, M.: Chemical Characterization of Exhaust Emissions from Selected Canadian Marine Vessels: The Case of Trace Metals and Lanthanoids, Environmental Science & Technology, 49, 5220-5226, 10.1021/acs.est.5b00127, 2015.

Cobo, M., Gálvez, A., Conesa, J. A., and Montes de Correa, C.: Characterization of fly ash from a hazardous waste incinerator in Medellin, Colombia, Journal of hazardous materials, 168, 1223-1232, 2009.

Desboeufs, K., Sofikitis, A., Losno, R., Colin, J., and Ausset, P.: Dissolution and solubility of trace metals from natural and anthropogenic aerosol particulate matter, Chemosphere, 58, 195-203, 2005.

Dutta, B. K., Khanra, S., and Mallick, D.: Leaching of elements from coal fly ash: Assessment of its potential for use in filling abandoned coal mines, Fuel, 88, 1314-1323, 2009.

Fu, H., Lin, J., Shang, G., Dong, W., Grassian, V. H., Carmichael, G. R., Li, Y., and Chen, J.: Solubility of Iron from Combustion Source Particles in Acidic Media Linked to Iron Speciation, Environmental Science & Technology, 46, 11119-11127, 2012.

Funari, V., Mäkinen, J., Salminen, J., Braga, R., Dinelli, E., and Revitzer, H.: Metal removal from Municipal Solid Waste Incineration fly ash: A comparison between chemical leaching and bioleaching, Waste Management, 60, 397-406, 2017.

Goodarzi, F.: Characteristics and composition of fly ash from Canadian coal-fired power plants, Fuel, 85, 1418-1427, https://doi.org/10.1016/j.fuel.2005.11.022, 2006.

Hagni, A. M., Hagni, R. D., and Demars, C.: Mineralogical characteristics of electric arc furnace dusts, JOM, 43, 28-30, 10.1007/BF03220543, 1991.

Hedberg, E., Kristensson, A., Ohlsson, M., Johansson, C., Johansson, P.-Å., Swietlicki, E., Vesely, V., Wideqvist, U., and Westerholm, R.: Chemical and physical characterization of emissions from birch wood combustion in a wood stove, Atmospheric Environment, 36, 4823-4837, https://doi.org/10.1016/S1352-2310(02)00417-X, 2002.

Hildemann, L. M., Markowski, G. R., Jones, M. C., and Cass, G. R.: Submicrometer Aerosol Mass Distributions of Emissions from Boilers, Fireplaces, Automobiles, Diesel Trucks, and Meat-Cooking Operations, Aerosol Science and Technology, 14, 138-152, 10.1080/02786829108959478, 1991.

Hleis, D., Fernández-Olmo, I., Ledoux, F., Kfoury, A., Courcot, L., Desmonts, T., and Courcot, D.: Chemical profile identification of fugitive and confined particle emissions from an integrated iron and steelmaking plant, Journal of hazardous materials, 250-251, 246-255, https://doi.org/10.1016/j.jhazmat.2013.01.080, 2013.

Jankowski, J., Ward, C. R., French, D., and Groves, S.: Mobility of trace elements from selected Australian fly ashes and its potential impact on aquatic ecosystems, Fuel, 85, 243-256, 2006.

Laforest, G., and Duchesne, J.: Stabilization of electric arc furnace dust by the use of cementitious materials: Ionic competition and long-term leachability, Cement and Concrete Research, 36, 1628-1634, https://doi.org/10.1016/j.cemconres.2006.05.012, 2006.

Li, C., Liu, W., Jiao, F., Yang, C., Li, G., Liu, S., and Qin, W.: Separation and recovery of zinc, lead and iron from electric arc furnace dust by low temperature smelting, Separation and Purification Technology, 312, 123355, https://doi.org/10.1016/j.seppur.2023.123355, 2023.

Li, R., Zhang, H., Wang, F., He, Y., Huang, C., Luo, L., Dong, S., Jia, X., and Tang, M.: Mass fractions, solubility, speciation and isotopic compositions of iron in coal and municipal waste fly ash, Science of The Total Environment, 838, 155974, https://doi.org/10.1016/j.scitotenv.2022.155974, 2022.

Lin, K. L., Wang, K. S., Tzeng, B. Y., and Lin, C. Y.: The reuse of municipal solid waste incinerator fly ash slag as a cement substitute, Resources, Conservation and Recycling, 39, 315-324, 2003.

Liu, Y., Zheng, L., Li, X., and Xie, S.: SEM/EDS and XRD characterization of raw and washed MSWI fly ash sintered at different temperatures, Journal of hazardous materials, 162, 161-173, 2009.

Loaiza, A., Cifuentes, S., and Colorado, H. A.: Asphalt modified with superfine electric arc furnace steel dust (EAF dust) with high zinc oxide content, Construction and Building

Materials, 145, 538-547, https://doi.org/10.1016/j.conbuildmat.2017.04.050, 2017.
Machado, J. G. M. S., Brehm, F. A., Moraes, C. A. M., Santos, C. A. d., Vilela, A. C. F., and Cunha, J. B. M. d.: Chemical, physical, structural and morphological characterization of the electric arc furnace dust, Journal of hazardous materials, 136, 953-960, https://doi.org/10.1016/j.jhazmat.2006.01.044, 2006.
Meij, R.: Trace element behavior in coal-fired power plants, Fuel Processing Technology, 39, 199-217, https://doi.org/10.1016/0378-3820(94)90180-5, 1994.
Moreno, N., Querol, X., Andrés, J. M., Stanton, K., Towler, M., Nugteren, H., Janssen-Jurkovicová, M., and Jones, R.: Physico-chemical characteristics of European pulverized coal combustion fly ashes, Fuel, 84, 1351-1363, 2005.
Oakes, M., Ingall, E. D., Lai, B., Shafer, M. M., Hays, M. D., Liu, Z. G., Russell, A. G., and Weber, R. J.: Iron Solubility Related to Particle Sulfur Content in Source Emission and Ambient Fine Particles, Environmental Science & Technology, 46, 6637-6644, 2012.
Patil, R. S., Kumar, R., Menon, R., Shah, M. K., and Sethi, V.: Development of particulate matter speciation profiles for major sources in six cities in India, Atmospheric Research, 132-133, 1-11, https://doi.org/10.1016/j.atmosres.2013.04.012, 2013.
Raclavská, H., Corsaro, A., Hartmann-Koval, S., and Juchelková, D.: Enrichment and distribution of 24 elements within the sub-sieve particle size distribution ranges of fly ash from wastes incinerator plants, Journal of Environmental Management, 203, 1169-1177, 2017.
Schmidl, C., Marr, I. L., Caseiro, A., Kotianová, P., Berner, A., Bauer, H., Kasper-Giebl, A., and Puxbaum, H.: Chemical characterisation of fine particle emissions from wood stove combustion of common woods growing in mid-European Alpine regions, Atmospheric Environment, 42, 126-141, https://doi.org/10.1016/j.atmosenv.2007.09.028, 2008.
Schroth, A. W., Crusius, J., Sholkovitz, E. R., and Bostick, B. C.: Iron solubility driven by speciation in dust sources to the ocean, Nature Geoscience, 2, 337-340, 2009.
Silva, V. S., Silva, J. S., Costa, B. d. S., Labes, C., and Oliveira, R. M. P. B.: Preparation of glaze using electric-arc furnace dust as raw material, Journal of Materials Research and Technology, 8, 5504-5514, https://doi.org/10.1016/j.jmrt.2019.09.018, 2019.
Sippula, O., Stengel, B., Sklorz, M., Streibel, T., Rabe, R., Orasche, J., Lintelmann, J., Michalke, B., Abbaszade, G., Radischat, C., Gröger, T., Schnelle-Kreis, J., Harndorf, H., and Zimmermann, R.: Particle Emissions from a Marine Engine: Chemical Composition and Aromatic Emission Profiles under Various Operating Conditions, Environmental Science & Technology, 48, 11721-11729, 10.1021/es502484z, 2014.
Souza, C. A. C. D., Machado, A. T., Lima, L. R. P. d. A., and Cardoso, R. J. C.: Stabilization of electric-arc furnace dust in concrete, Materials Research, 13, 513-519, 2010.
Stathopoulos, V. N., Papandreou, A., Kanellopoulou, D., and Stournaras, C. J.: Structural ceramics containing electric arc furnace dust, Journal of hazardous materials, 262, 91-99, https://doi.org/10.1016/j.jhazmat.2013.08.028, 2013.
Vieira, C. M. F., Sanchez, R., Monteiro, S. N., Lalla, N., and Quaranta, N.: Recycling of electric arc furnace dust into red ceramic, Journal of Materials Research and Technology, 2, 88-92, https://doi.org/10.1016/j.jmrt.2012.09.001, 2013.

Wan, X., Wang, W., Ye, T., Guo, Y., and Gao, X.: A study on the chemical and mineralogical characterization of MSWI fly ash using a sequential extraction procedure, Journal of hazardous materials, 134, 197-201, 2006.

Watson, J. G., Chow, J. C., and Houck, J. E.: PM2.5 chemical source profiles for vehicle exhaust, vegetative burning, geological material, and coal burning in Northwestern Colorado during 1995, Chemosphere, 43, 1141-1151, https://doi.org/10.1016/S0045-6535(00)00171-5, 2001.

Wu, H.-Y., and Ting, Y.-P.: Metal extraction from municipal solid waste (MSW) incinerator fly ash—Chemical leaching and fungal bioleaching, Enzyme and Microbial Technology, 38, 839-847, 2006.

Wu, K., Shi, H., Schutter, G. D., Guo, X., and Ye, G.: Preparation of alinite cement from municipal solid waste incineration fly ash, Cement and Concrete Composites, 34, 322-327, 2012.

Xia, D. K., and Picklesi, C. A.: Microwave caustic leaching of electric arc furnace dust, Minerals Engineering, 13, 79-94, https://doi.org/10.1016/S0892-6875(99)00151-X, 2000.

Ye, L., Peng, Z., Ye, Q., Wang, L., Augustine, R., Perez, M., Liu, Y., Liu, M., Tang, H., Rao, M., Li, G., and Jiang, T.: Toward environmentally friendly direct reduced iron production: A novel route of comprehensive utilization of blast furnace dust and electric arc furnace dust, Waste Management, 135, 389-396, https://doi.org/10.1016/j.wasman.2021.08.045, 2021.

Zhang, H., Zhao, Y., and Qi, J.: Utilization of municipal solid waste incineration (MSWI) fly ash in ceramic brick: Product characterization and environmental toxicity, Waste Management, 31, 331-341, 2011.

Zhang, H., Wang, S., Hao, J., Wan, L., Jiang, J., Zhang, M., Mestl, H. E. S., Alnes, L. W. H., Aunan, K., and Mellouki, A. W.: Chemical and size characterization of particles emitted from the burning of coal and wood in rural households in Guizhou, China, Atmospheric Environment, 51, 94-99, https://doi.org/10.1016/j.atmosenv.2012.01.042, 2012.