



SUPPLEMENTARY MATERIAL TO
**Comparison of sequential and single extraction in order to
estimate the environmental impact of metals from fly ash**

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TABLE S-I. Participation of metals fraction (%) in total metal content for sequential microwave extraction at 50, 100 and 150 °C; n.d. – not detected

Element	<i>t</i> / °C	Phase I	Phase II	Phase III	Phase IV	Phase V
Al	50	4.92	7.78	32.49	16.98	37.83
	100	1.71	5.20	30.66	11.55	50.87
	150	2.47	6.86	31.95	9.95	48.77
Fe	50	1.35	4.67	55.03	7.13	31.81
	100	0.31	5.24	52.07	7.57	34.82
	150	0.18	8.50	54.30	9.61	27.41
Mn	50	10.04	4.16	32.07	29.49	24.24
	100	7.23	5.94	28.90	33.58	24.34
	150	9.58	8.27	26.87	38.95	16.32
As	50	17.38	11.21	69.88	n.d.	1.54
	100	2.92	11.71	85.37	n.d.	n.d.
	150	6.11	11.30	82.01	0.57	n.d.
Be	50	12.36	11.24	41.57	13.48	21.35
	100	5.71	10.71	39.28	12.14	32.14
	150	8.00	14.86	38.86	8.00	30.28
Cd	50	15.04	3.76	41.35	12.03	27.82
	100	2.30	4.15	46.08	11.98	35.48
	150	2.51	6.81	51.25	12.90	26.52
Co	50	12.77	4.36	42.99	18.69	21.18
	100	9.08	4.34	38.40	23.00	25.17
	150	8.89	5.74	33.60	30.92	20.85

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TABLE S-I. Continued

Element	$t / ^\circ\text{C}$	Phase I	Phase II	Phase III	Phase IV	Phase V
Cr	50	8.56	6.25	45.90	18.85	20.43
	100	3.99	4.55	45.13	11.84	34.48
	150	0.63	4.25	51.04	7.26	36.83
Ni	50	12.12	3.83	30.65	32.01	21.39
	100	9.15	3.64	34.74	26.70	25.77
	150	8.29	5.55	34.66	33.59	17.91
Pb	50	3.77	25.08	19.14	28.69	23.32
	100	2.86	7.62	23.74	30.05	35.73
	150	3.77	7.97	25.22	32.28	30.76
Cu	50	6.15	3.96	14.52	36.94	38.43
	100	6.58	4.08	16.26	36.49	36.59
	150	6.61	6.46	10.88	24.45	51.59