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Supplement Information for the Article

Experimental Investigation of use of Mono Ethanol Amine with Iron Oxide Nanoparticles in a 10 Kg per Day Pilot CO_2 Capture Plant: Implications for Commercialization

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Table S1. Virgin IONPs - XRD Analysis Peak List

Pos.[2θ]	Height [cts]	FWHMLeft[°2θ]	d-spacing [Å]	Rel. Int. [%]
8.0411	23.74	0.6927	10.99537	0.57
9.3027	6.59	0.6927	9.50688	0.16
18.2676	575.28	0.5196	4.85659	13.84
30.0862	2148.02	0.5196	2.97033	51.66
35.4375	4157.79	1.0391	2.53311	100
43.1014	1367.64	0.5196	2.09879	32.89
53.4843	481.74	0.5196	1.71328	11.59
57.031	1430.24	0.5196	1.61488	34.4
62.6293	1999.19	0.5196	1.48332	48.08
71.0635	148.75	0.5196	1.32656	3.58
74.0884	220.6	0.5196	1.27971	5.31
86.9572	67.21	0.5196	1.12041	1.62
89.6511	241.49	0.5196	1.0936	5.81
94.4653	74.76	0.6927	1.05016	1.8

Table S2. Post Capture IONPs - XRD Analysis Peak List

Pos.[2θ]	Height [cts]	FWHMLeft[°2θ]	d-spacing [Å]	Rel. Int. [%]
18.3166	387.74	0.5196	4.84371	8.88
30.1503	1402.2	0.5196	2.96417	32.1
35.5098	4368.69	0.5196	2.52811	100
37.0613	177.23	0.5196	2.42577	4.06
43.1633	924.34	0.5196	2.09592	21.16
53.5341	304.03	0.5196	1.71181	6.96
57.0639	1044.03	0.5196	1.61402	23.9
62.6765	1194.31	0.5196	1.48232	27.34
71.1364	120.44	0.5196	1.32538	2.76
74.1068	170.88	0.5196	1.27944	3.91

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75.2612	53.82	0.5196	1.26265	1.23
79.1647	64.2	1.0391	1.20991	1.47
86.829	103.21	0.6927	1.12174	2.36
89.7722	117.76	0.5196	1.09244	2.7
94.7869	38.3	0.5196	1.04744	0.88

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