Report J - Evaluation Spreadsheet for Deflated Proton Fusion Candidates

Element X	Z	X + p* Effective Abundance	X + 2 p* Effective Abundance	Weighted Effective Abundance	Conductivity 10^6 ohm/cm	Covalent Radius r (Ang.)	exp(-r*2)	Performance Number	Price $/kg	Ranking Perf/Price
Electrode metals:										
Pb	82	74.5000	74.5000	74.5000	0.0481	1.47	0.052866	81.88	2.45	33.4210
Ce	58	99.5640	0.0000	79.6512	0.0115	1.65	0.036883	255.46	9.00	28.3844
La	57	100.0000	100.0000	100.0000	0.0126	1.69	0.034047	270.22	10.50	25.7350
Fe	26	0.2820	97.8810	19.8018	0.0993	1.17	0.096328	19.21	1.00	19.2091
Zn	30	47.2700	100.0000	57.8160	0.1660	1.25	0.082085	28.59	2.47	11.5887
Y	39	100.0000	100.0000	100.0000	0.0166	1.62	0.039164	235.93	45.00	5.2428
Sn	50	44.8900	5.7900	37.0700	0.0917	1.41	0.059606	24.10	17.90	1.3461
Ba	56	97.3760	97.3760	97.3760	0.0300	1.98	0.019063	61.88	46.00	1.3451
Zr	40	68.6000	79.8200	70.8440	0.0236	1.45	0.055023	165.17	150.00	1.1011
Ni	28	4.5601	100.0000	23.6481	0.1430	1.15	0.100259	16.58	18.95	0.8749
Cu	29	0.0000	69.1700	13.8340	0.5960	1.17	0.096328	2.24	7.50	0.2981
Sr	38	93.0000	100.0000	94.4000	0.0762	1.91	0.021928	27.17	460.00	0.0591
Ga	31	60.1080	60.1080	60.1080	0.0678	1.26	0.080460	71.33	2569.00	0.0278
Pt	78	59.0740	7.1630	48.6918	0.0966	1.30	0.074274	37.44	16000.00	0.0023
Rb	37	72.1700	72.1700	72.1700	0.0779	2.16	0.013300	12.32	45000.00	0.0003
Electrolyte additives:										
Se	34	83.6400	100.0000	86.9120	0.0000	1.16	0.098274	85.41	29.00	2.9452
Br	35	50.6900	50.9600	50.7440	0.0000	1.14	0.102284	51.90	40.00	1.2976

http://www.metal-pages.com/metalprices/

Perf. = (Wt. Perf. Ab.)*exp(-r*2)/(Cond.)

Note - loading ratio achievable and melting point still need to go into the performance number. Weak reaction data needs to be added.

This data is incomplete and out of date