

Supplementary file

The synthesis process of MnO₂ (α -, β - and γ) has been shown by equations S1 and S2. The equation represents the process of α - MnO₂, whereas the equation S2, represent the synthesis of β - and γ -MnO₂.

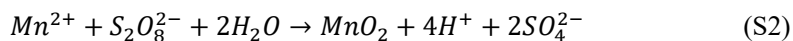
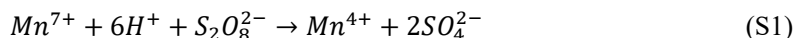


Table S1: Comparison of electrochemical performance with previously reported studies.

S. No.	Material	Specific Capacitance (F/g)	Electrolyte	Reference
1.	MnO ₂	90	0.5 M Na ₂ SO ₄	1
2.	MnO ₂	87	6M KOH	2
3.	MnO ₂	98	2M NaOH	3
4.	Na _x MnO ₂ /NF	133.2	0.5 M Na ₂ SO ₄	4
5.	NiO	132	1M KOH	5
6.	F-ZnO	12.2	3M KOH	6
7.	α -MnO ₂	138	1M Na ₂ SO ₄	This Work

References

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