

Future high-energy density anode materials from an automotive application perspective

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Supplementary information

Table S 1: Additional electrode information on selected state of the art data from literature.

	Active material [wt%]	Conductive additive [wt%]	Binder [wt%]	Mean Potential vs. Li [V]	Loading [mg/cm ²]	Electrode Porosity [%]	Electrode thickness [μm]	Electrode area ¹	Modification	Reference ²
ZnMn ₂ O ₄	75	15	10	1.4	1.5-2	-	200	2032 <i>coin cell</i>		48
Fe ₂ O ₃	85	10	5	1.8	1.5	-	-	1,13cm ²	Carbon coated (0,4%)	44
CuO	80	10	10	2.2	1	-	-	2025 <i>coin cell</i>		39
MnO	75,2	14,8	10	1.8	1	-	-	2016 <i>coin cell</i>	Nanocomposite with 6% rGO	49
SnO ₂	80	10	10	1.3	2	-	-	2025 <i>coin cell</i>	Mesoporous particles	90
Si	63	22	15	0.46	1.3	-	22 – 29	1.33cm ²		23
Sn	46	39	15	1.1	6.6	-	92	0.78cm ²	C-composite	27
P	56	34	10	1.1	3	-	-	2032 <i>coin cell</i>	C-composite	33
Gr	95.8	1	3.2	0.1	7.1	35	60	1.13cm ²	-	³
LTO	85	10	5	1.58	2.3	-	-	1.33cm ²	-	17
Anatase	80	10	10	1.66	31	2g/cm ³	-	2016R <i>coin cell</i>	-	14

¹ In case no electrode area was given, the applied cell test system is mentioned here as an indication for the maximum used electrode area.

² Reference number is the same as in the main manuscript.

³ BMW internal data.

