

Supplementary Materials: Quality Control of Slot-Die Coated Aluminum Oxide Layers for Battery Applications Using Hyperspectral Imaging.

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Mean Layer Thickness and Percentage of Uncoated Area for all Measured Samples

Table S1. Calculated mean layer thickness and percentage of uncoated area for all analyzed samples.

Sample No.	Mean Layer Thickness (nm)	Uncoated Area/%	Sample No.	Mean Layer Thickness (nm)	Uncoated Area (%)
1	59.2	3.4	105	64.1	5.6
2	56.5	3.4	106	57.3	5.2
3	54.4	3.4	107	61.4	6.3
4	56.5	3.4	108	57.5	6.6
5	57.4	3.2	109	68.4	4.3
6	55.2	2.9	110	66.9	4.4
7	64.6	3.0	111	67.1	3.6
8	61.5	2.9	112	67.6	4.4
9	57.7	3.5	113	70.2	4.4
10	56.0	3.3	114	65.0	4.3
11	56.7	5.4	115	60.8	3.1
12	53.9	4.4	116	54.6	4.3
13	53.8	4.7	117	53.9	4.8
14	52.6	4.5	118	52.8	8.9
15	53.6	4.0	119	-	100.0
16	53.4	4.0	120	41.6	98.7
17	54.2	5.1	121	42.3	97.0
18	53.5	5.0	122	-	100.0
19	53.4	3.6	123	48.2	33.3
20	52.7	3.2	124	-	99.6
21	56.2	4.7	125	60.1	20.4
22	60.4	4.4	126	54.6	20.6
23	66.0	4.0	127	61.9	19.8
24	62.0	3.6	128	61.7	19.9
25	55.2	4.8	129	59.2	18.7
26	52.7	4.6	130	57.1	18.2
27	51.6	4.9	131	59.8	17.8
28	47.1	7.7	132	57.8	17.3
29	45.8	86.9	133	67.4	16.4
30	-	100.0	134	61.0	15.8
31	64.7	12.3	135	64.6	15.4
32	50.6	43.9	136	64.1	15.1
33	62.9	6.7	137	59.9	14.3
34	61.4	6.4	138	58.8	14.3
35	63.1	6.2	139	65.1	13.5
36	61.1	6.2	140	61.6	13.9
37	54.9	6.7	141	63.1	11.6
38	55.3	7.1	142	62.6	11.2
39	59.8	6.4	143	59.3	10.2
40	54.3	6.5	144	58.0	10.6
41	56.0	7.0	145	66.3	8.6
42	60.9	6.7	146	62.3	8.3
43	55.9	6.1	147	59.7	9.1

Table S1. *Cont.*

Sample No.	Mean Layer Thickness (nm)	Uncoated Area/%	Sample No.	Mean Layer Thickness (nm)	Uncoated Area (%)
44	54.6	6.1	148	61.5	9.0
45	54.1	7.6	149	55.0	7.0
46	52.8	7.6	150	55.1	6.7
47	75.3	6.0	151	45.9	47.3
48	71.4	6.0	152	46.2	9.0
49	69.8	5.5	153	65.8	4.7
50	65.7	4.8	154	66.3	4.0
51	73.5	5.4	155	67.9	4.3
52	70.9	5.4	156	64.6	4.3
53	63.1	5.7	157	67.3	2.7
54	58.7	5.4	158	68.1	2.5
55	63.8	5.4	159	65.7	2.8
56	60.2	5.3	160	62.0	3.1
57	65.2	6.4	161	70.0	2.4
58	63.5	6.5	162	66.1	2.6
59	60.1	6.1	163	67.5	2.6
60	58.5	6.1	164	65.5	2.4
61	60.1	6.6	165	53.0	6.2
62	58.6	6.2	166	57.1	6.2
63	60.3	7.3	167	70.1	5.0
64	58.3	7.2	168	67.7	4.5
65	58.2	10.3	169	68.8	8.3
66	56.7	10.4	170	67.0	8.3
67	59.8	6.6	171	56.3	7.0
68	60.1	6.4	172	53.1	21.0
69	61.9	6.5	173	52.9	8.3
70	61.6	6.1	174	52.7	8.3
71	63.9	6.6	175	52.8	4.0
72	60.4	6.5	176	52.2	4.5
73	59.1	7.2	177	53.4	9.6
74	55.6	7.6	178	52.9	10.0
75	55.2	7.3	179	53.4	9.6
76	58.0	7.2	180	53.9	9.5
77	60.6	6.8	181	56.0	9.2
78	57.7	6.4	182	54.5	9.5
79	58.5	7.9	183	59.5	3.8
80	57.1	8.0	184	63.1	3.4
81	57.3	6.4	185	73.3	2.2
82	57.2	6.4	186	65.5	8.6
83	57.6	6.8	187	49.9	58.9
84	56.8	6.8	188	56.3	4.2
85	54.5	5.6	189	57.3	3.4
86	54.3	5.9	190	58.8	3.2
87	54.9	6.0	191	53.5	4.3
88	54.2	5.5	192	51.6	4.4
89	55.0	7.0	193	54.4	4.1
90	53.7	6.5	194	58.0	4.0
91	56.7	6.8	195	-	100.0
92	56.8	6.6	196	-	100.0
93	58.1	5.8	197	-	99.8
94	59.7	5.3	198	40.0	78.7
95	66.4	7.9	199	-	100.0
96	64.3	7.8	200	-	100.0
97	64.1	5.8	201	-	99.9

Table S1. *Cont.*

Sample No.	Mean Layer Thickness (nm)	Uncoated Area/%	Sample No.	Mean Layer Thickness (nm)	Uncoated Area (%)
98	64.6	4.8	202	-	100.0
99	66.2	5.8	203	-	100.0
100	63.2	5.7	204	-	100.0
101	61.5	6.1	205	-	100.0
102	62.5	5.8	206	-	100.0
103	70.2	6.0	207	-	100.0
104	66.6	5.8	208	-	100.0



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