Supplementary material to:

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Anti-corrosion Properties of Areca Palm Leaf Extract on Aluminium in 0.5 M HCl Environment,

S. Afr. J. Chem., 2018, **71**, 30–38.

1. Arrhenius plot

	A	B	C	D	E1	E2
1	Equation	y = a + b*x				
2	Adj. R-Square	0.99508	0.99387	0.99078	0.98593	0.97331
3			Value	Standard Error		
4	B	Intercept	-0.36801	0.22737		
5	B	Slope	-2.0244	0.07111		
6	C	Intercept	1.15577	0.35974		
7	C	Slope	-2.86825	0.11251		
8	D	Intercept	2.62275	0.52047		
9	D	Slope	-3.37792	0.16278		
10	E	Intercept	7.47766	0.94192		
11	E	Slope	-4.9401	0.2946		
12	F	Intercept	8.36993	1.40251		
13	F	Slope	-5.31562	0.43865		

2. Transition state plot

	A	B	C	D	E1	E2
1	Equation	y = a + b*x				
2	Adj. R-Square	0.99313	0.99206	0.98858	0.9839	0.96972
3			Value	Standard Error		
4	B	Intercept	-7.11371	0.22744		
5	B	Slope	-1.71163	0.07113		
6	C	Intercept	-5.58993	0.36517		
7	C	Slope	-2.55549	0.11421		
8	D	Intercept	-4.12295	0.52589		
9	D	Slope	-3.06515	0.16448		
10	E	Intercept	0.73196	0.94432		
11	E	Slope	-4.62734	0.29535		
12	F	Intercept	1.62423	1.40788		
13	F	Slope	-5.00286	0.44033		

3. Langmuir plot

	A	B	C	D	E1	E2
1	Equation	y = a + b*x				
2	Adj. R-Square	0.99021	0.99123	0.99759	0.99787	0.99811
3			Value	Standard Error		
4	E	Intercept	0.35754	0.26413		
5	E	Slope	1.22106	0.06997		
6	F	Intercept	0.3479	0.2575		
7	F	Slope	1.25761	0.06821		
8	B	Intercept	0.38792	0.11505		
9	B	Slope	1.07341	0.03048		
10	C	Intercept	0.37777	0.11336		
11	C	Slope	1.12638	0.03003		
12	D	Intercept	0.36722	0.11132		
13	D	Slope	1.17366	0.02949		