

Table S1: Analysis of variance of the regression model

	Sum of squares			Mean squares		
	alpha	beta	energy	alpha	beta	energy
A:Temperature	0.0675	2.43	0.00258133	0.0675	2.43	0.002581
B:Cycle	0.755008	19.2533	0.00437008	0.755008	19.2533	0.00437
C:EtOH	93.8561	4055.36	0.0	93.8561	4055.36	0.0
D:static time	3.23441	117.813	0.00232408	3.23441	117.813	0.002324
A ²	0.18253	18.6668	0.000025037	0.18253	18.6668	2.5E-05
B ²	0.238008	7.94898	3.22315E-05	0.238008	7.94898	3.22E-05
C ²	15.2776	718.169	1.33704E-05	15.2776	718.169	1.34E-05
AB	0.714025	28.6225	0.00011025	0.714025	28.6225	0.00011
AC	0.1849	9.9225	0.0	0.1849	9.9225	0.0
AD	0.540225	20.25	0.00001225	0.540225	20.25	1.23E-05
BC	0.09	17.2225	0.0	0.09	17.2225	0.0
BD	0.2916	11.56	0.000196	0.2916	11.56	0.000196
CD	3.5344	136.89	0.0	3.5344	136.89	0.0
DD	1.74041	134.447	2.04537E-05	1.74041	134.447	2.05E-05
Total error	17.0958	738.695	7.65833E-05	1.42465	61.5579	6.38E-06
Total (corr.)	145.821	6460.61	0.00978763			
R ²	88.2762	88.5662	99.2175			
Adj R ²	74.5984	75.2267	98.3047			
	F-value			P-value		
	alpha	beta	energy	alpha	beta	energy
A:Temperature	0.05	0.04	404.47	0.8313	0.8458	0.0000^a
B:Cycle	0.53	0.31	684.76	0.4806	0.5863	0.0000^a
C:EtOH	65.88	65.88	0.00	0.0000^a	0.0000^a	1.0000
D:static time	2.27	1.91	364.17	0.1577	0.1917	0.0000^a
A ²	0.13	0.30	3.92	0.7266	0.5920	0.0710
B ²	0.17	0.13	5.05	0.6899	0.7256	0.0442^a
C ²	10.72	11.67	2.10	0.0066^a	0.0051^a	0.1734
AB	0.50	0.46	17.28	0.4925	0.5083	0.0013^a
AC	0.13	0.16	0.00	0.7249	0.6951	1.0000
AD	0.38	0.33	1.92	0.5495	0.5769	0.1911
BC	0.06	0.28	0.00	0.8058	0.6065	1.0000
BD	0.20	0.19	30.71	0.6590	0.6724	0.0001^a
CD	2.48	2.22	0.00	0.1412	0.1617	1.0000
DD	1.22	2.18	3.20	0.2907	0.1652	0.0987
Total error						
Total (corr.)						
R ²						
Adj R ²						

R²= Quadratic correlation coefficient. ^a Significant (p < 0.05).