



Correction to: Effect of heating rate on structure, morphology and photocatalytic properties of TiO₂ particles: thermal kinetic and thermodynamic studies

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The original version of this article unfortunately contained a mistakes in Fig. 3, Tables 1 and 2. The correct Fig. 3, Tables 1 and 2 are given below.

Table 1 Activation energies and pre-exponential factors based on FWO, KAS and Starink methods

α	FWO		KAS		Starink	
	Activation Energy (E _a) (kJ/mol)	LnA (s ⁻¹)	Activation Energy (E _a) (kJ/mol)	LnA (s ⁻¹)	Activation Energy (E _a) (kJ/mol)	LnA (s ⁻¹)
0.1	94.06	17.19	88.20	15.60	88.61	15.78
0.2	101.55	19.01	96.06	17.58	96.46	17.75
0.3	107.47	20.29	102.18	18.96	102.58	19.12
0.4	112.48	21.29	107.36	20.04	107.75	20.20
0.5	116.83	22.11	111.85	20.92	112.25	21.08
0.6	120.62	22.79	115.76	21.66	116.17	21.81
0.7	123.87	23.34	119.12	22.25	119.53	22.40
0.8	126.46	23.75	121.82	22.69	122.22	22.84
0.9	127.96	23.93	123.40	22.90	123.80	23.05
Average	114.59	21.52	109.53	20.29	109.93	20.45

The original article can be found online at <https://doi.org/10.1007/s10971-020-05466-x>.

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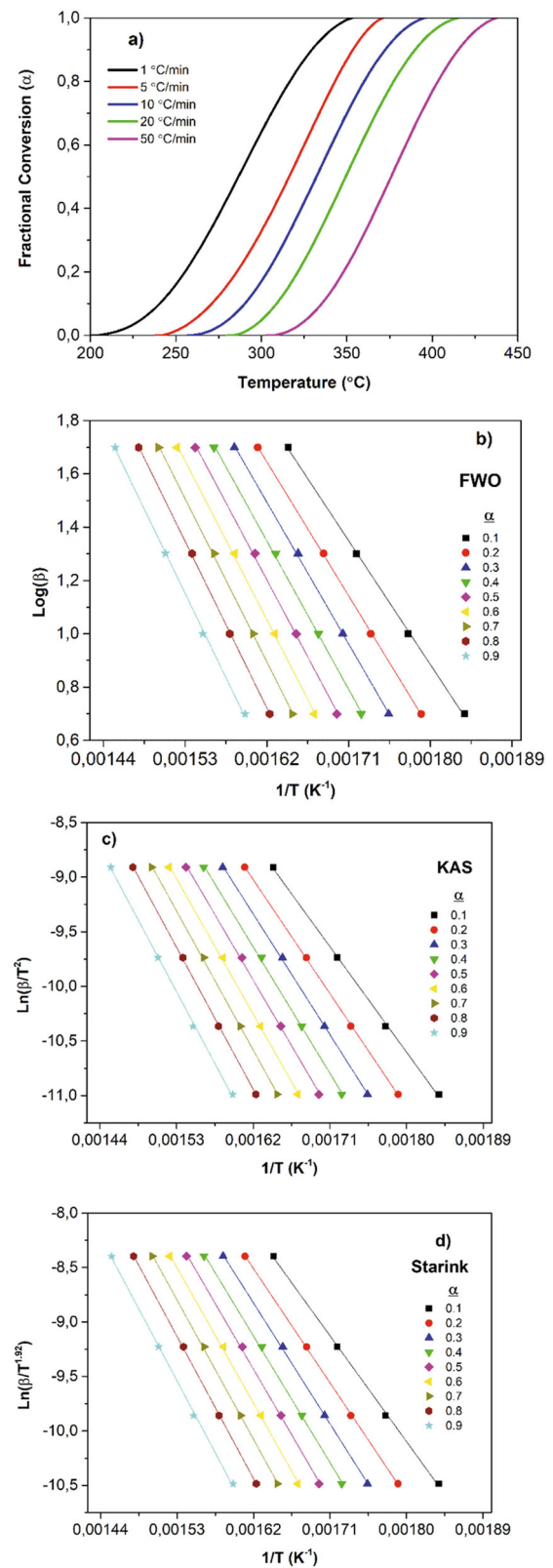
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Table 2 Thermodynamic parameters of amorphous to crystalline transformation of TiO₂ powders

β (°C/min)	ΔH (kJ/mol)	ΔG (kJ/mol)	ΔS (J/molK)	T_p (°C)
5	106.24	159.56	-86.71	341.84
10	106.08	161.19	-86.96	360.57
20	105.91	162.93	-87.22	380.62
50	105.63	165.93	-87.64	414.94
Average	105.96	162.40	-87.13	

**Fig. 3** The curves of the model-free methods for thermodynamic calculation (a) fractional conversion (α) versus temperature (T) plot, (b) FWO plot, (c) KAS plot and (d) Starink plot