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APPENDIX

Symbol description

E	activation energy, $\text{KJ}\cdot\text{mol}^{-1}$
$G(\alpha)$	kinetics mode function
TGA	curve: thermogravimetric analysis curve
DTA	curve: differential thermal analysis curve
K	thermokinetic temperature, unit in K (Kelvin)
α	solid sample mass conversion rate
T	temperature, K
β	differential thermal analysis heating rate: $^{\circ}\text{C}/\text{min}$
$f(\alpha)$	reaction mechanism function
R	ideal gas constant, $8.314 \text{ KJ}\cdot\text{mol}^{-1}$
Exp	natural logarithm
E_0	activation energy calculated by the FWO method, $\text{KJ}\cdot\text{mol}^{-1}$
E_s	activation energy calculated by the Stava-Sestak method, $\text{KJ}\cdot\text{mol}^{-1}$
t	time, unit: second