TABLE SI: Phase change properties of the n-Eicosane@TiO2/CuS

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Samples** | **Crystallization process** | | **Melting**  **process** | | **Encapsulation**  **parameters** | | | **Thermal**  **conductivity**  **(W/(m·K))** |
| ***Tc***  **(℃)** | ***ΔHc***  **(Jg-1)** | ***Tm***  **(℃)** | ***ΔHm***  **(Jg-1)** | ***Een***  **(%)** | ***Ees***  **(%)** | ***Ces***  **(%)** |
| **n-Eicosane** | **34.3** | **237.7** | **38.1** | **239.4** | **-** | **-** | **-** | **0.282** |
| **n-Eicosane@TiO2** | **32.4** | **168.5** | **40.7** | **172.7** | **72.1** | **71.5** | **99.1** | **0.732** |
| **n-Eicosane@TiO2/CuS** | **33.8** | **166.0** | **41.5** | **171.7** | **71.7** | **70.8** | **98.70** | **0.730** |