

Supporting information

Table S1. A brief literature on thermal conductivity and related information for the nanofluids having TiO₂ / PANI/Silica included composites as solid component

Solid component	Base fluid	Thermal conductivity enhancement (%)	Reference
TiO ₂ /Cu	water	2.72	[125]
TiO ₂ /SiO ₂ composite	Ethylene glycol	1.2	[126]
TiO ₂ –SiO ₂ hybrid	Ethylene glycol	22.1	[101]
TiO ₂ -ZnO	Ethylene glycol	32	[127]
CuO/PANI	water	12	[128])
CuO	Ethylene glycol	54	[113]
T-PSA NC1- T-PSA NC5	Ethylene glycol: water	84.9 to 86.7 (Table 1; main paper)	Present work
TiO ₂	water	32.8	[129]
TiO ₂	Water*	53.9	[130]
TiO ₂	Ethylene glycol	12.1	[131]
TiO ₂	Ethylene glycol: water	46.1	[132]
Silica	water	2.32	[133]
**Silica	water	28.34	[134]
Silica (non porous)	Ethylene glycol	17.4	[134]
Mesoporous silica	Ethylene glycol: water	22	[135]
PANI (un doped)	Water/surfactant	1.20	[136])
PANI (doped)	Water/surfactant	2.35	[137]
PSA	Ethylene glycol: water	84.3 (Table 1; main paper)	Present work

Thermal conductivity values. Water = 0.607 W/m.K; ethylene glycol= 0.254 W/m.K ([136,138,139]; Details like temperature, volumetric/mass (%) of solid component and other details can be referred at the respective references. PANI=Polyaniline, * Corrugated tube, ** sonication effect

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