Zhi Chen

List of Publications by Citations

24 papers	1,133 citations	16 h-index	24 g-index
24 ext. papers	1,280 ext. citations	6.5 avg, IF	4.58 L-index

#	Paper	IF	Citations
24	Synthesis and properties of microencapsulated paraffin composites with SiO2 shell as thermal energy storage materials. *Chemical Engineering Journal*, **2010**, 163, 154-159	14.7	211
23	Preparation and characterization of stearic acid/expanded graphite composites as thermal energy storage materials. *Energy*, **2010**, 35, 4622-4626	7.9	144
22	Synthesis and thermal properties of shape-stabilized lauric acid/activated carbon composites as phase change materials for thermal energy storage. *Solar Energy Materials and Solar Cells*, **2012**, 102, 131-136	6.4	112
21	Preparation and properties of palmitic acid/SiO2 composites with flame retardant as thermal energy storage materials. *Solar Energy Materials and Solar Cells*, **2011**, 95, 1875-1881	6.4	100
20	Preparation and characteristics of microencapsulated stearic acid as composite thermal energy storage material in buildings. *Energy and Buildings*, **2013**, 62, 469-474	7	82
19	Preparation and heat transfer characteristics of microencapsulated phase change material slurry: A review. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 4624-4632	16.2	69
18	Preparation and characterization of flame retardant n-hexadecane/silicon dioxide composites as thermal energy storage materials. *Journal of Hazardous Materials*, **2010**, 181, 1004-9	12.8	65
17	Moisture buffering phenomenon and its impact on building energy consumption. *Applied Thermal Engineering*, **2017**, 124, 337-345	5.8	64
16	Synthesis and Characterization of Microencapsulated Paraffin Microcapsules as Shape-Stabilized Thermal Energy Storage Materials. *Nanoscale and Microscale Thermophysical Engineering*, **2013**, 17, 112-123	3.7	56
15	Preparation and thermal properties of n-octadecane/molecular sieve composites as form-stable thermal energy storage materials for buildings. *Energy and Buildings*, **2012**, 49, 423-428	7	38
14	Dynamic charging characteristics modeling of heat storage device with heat pipe. *Applied Thermal Engineering*, **2011**, 31, 2902-2908	5.8	28
13	Preparation and hygrothermal properties of composite phase change humidity control materials. *Applied Thermal Engineering*, **2016**, 98, 1150-1157	5.8	27
12	Discharging characteristics modeling of cool thermal energy storage system with coil pipes using n-tetradecane as phase change material. *Applied Thermal Engineering*, **2012**, 37, 336-343	5.8	27
11	Synthesis and characteristics of hygroscopic phase change material: Composite microencapsulated phase change material (MPCM) and diatomite. *Energy and Buildings*, **2015**, 106, 175-182	7	26
10	Plasmon-Enhanced Infrared Emission Approaching the Theoretical Limit of Radiative Cooling Ability. *Nano Letters*, **2020**, 20, 6974-6980	11.5	25
9	Preparation and characteristics of composite phase change material (CPCM) with SiO 2 and diatomite as endothermal-hydroscopic material. *Energy and Buildings*, **2015**, 86, 1-6	7	22
8	Improving Residential Wind Environments by Understanding the Relationship between Building Arrangements and Outdoor Regional Ventilation. *Atmosphere*, **2017**, 8, 102	2.7	10

7	Phase Change Humidity Control Material and its Application in Buildings. *Procedia Engineering*, **2017**, 205, 1011-1018		8
6	Moisture Buffer Effect and its Impact on Indoor Environment. *Procedia Engineering*, **2017**, 205, 1123-1129		5
5	Doped semiconductor nanoparticles for possible daytime radiative cooling applications. *Semiconductor Science and Technology*, **2020**, 35, 075018	1.8	3
4	Synthesis and characteristics of composite phase change humidity control materials. *Energy Procedia*, **2017**, 139, 493-498	2.3	3
3	Synthesis and Characterization of Composite Phase Change Material (CPCM) with SiO2 and Diatomite as Endothermal-hygroscopic Material. *Energy Procedia*, **2015**, 78, 201-206	2.3	3
2	Solidification Characteristics Modeling of Phase Change Material in Plate Capsule of Cool Storage System. *International Journal of Green Energy*, **2011**, 8, 734-747	3	3
1	Designing a broadband terahertz plasmonic field enhancer with a homojunction of semiconductors. *Applied Physics Express*, **2020**, 13, 012005	2.4	2