Guiyin Fang

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/5553702/guiyin-fang-publications-by-year.pdf
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88 papers	6,302 citations	46 h-index	79 g-index
92 ext. papers	7,695 ext. citations	7.9 avg, IF	6.74 L-index

#	Paper	IF	Citations
88	Thermal properties of 1-hexadecanol/high density polyethylene/graphene nanoplates composites as form-stable heat storage materials. *Solar Energy Materials and Solar Cells*, **2022**, 237, 111580	6.4	1
87	Review on thermal conductivity improvement of phase change materials with enhanced additives for thermal energy storage. *Journal of Energy Storage*, **2022**, 51, 104568	7.8	4
86	Encapsulation of inorganic phase change thermal storage materials and its effect on thermophysical properties: A review. *Solar Energy Materials and Solar Cells*, **2022**, 241, 111747	6.4	1
85	Numerical flow characteristics of microencapsulated phase change slurry flowing in a helically coiled tube for thermal energy storage. *Energy*, **2021**, 223, 120128	7.9	3
84	Improved thermal properties of stearic acid/high density polyethylene/carbon fiber composite heat storage materials. *Solar Energy Materials and Solar Cells*, **2021**, 219, 110782	6.4	16
83	Nonequilibrium pattern formation in circularly confined two-dimensional systems with competing interactions. *Physical Review E*, **2021**, 103, 012604	2.4	0
82	Enhanced thermal conductivity of palmitic acid/copper foam composites with carbon nanotube as thermal energy storage materials. *Journal of Energy Storage*, **2021**, 40, 102783	7.8	3
81	Thermal properties of stearic acid/active aluminum oxide/graphene nanoplates composite phase change materials for heat storage. *Materials Chemistry and Physics*, **2021**, 269, 124747	4.4	6
80	Synthesis and thermal properties of 1-octadecanol/nano-TiO2/carbon nanofiber composite phase change materials for thermal energy storage. *Materials Chemistry and Physics*, **2021**, 272, 125041	4.4	2
79	Thermal properties and characterization of palmitic acid/nano silicon dioxide/graphene nanoplatelet for thermal energy storage. *International Journal of Energy Research*, **2020**, 44, 5621-5633	4.5	9
78	Structural transitions for 2D systems with competing interactions in logarithmic traps. *Journal of Chemical Physics*, **2020**, 152, 054906	3.9	2
77	Preparation and thermal properties of microencapsulated stearyl alcohol with silicon dioxide shell as thermal energy storage materials. *Applied Thermal Engineering*, **2020**, 169, 114943	5.8	29
76	Thermal properties improvement of lauric acid/iron foam composites with graphene nanoplates as thermal energy storage materials. *Journal of Energy Storage*, **2020**, 27, 101163	7.8	9
75	Numerical analysis of photovoltaic-thermal collector using nanofluid as a coolant. *Solar Energy*, **2020**, 196, 625-636	6.8	43
74	Performance optimization of a photovoltaic/thermal collector using microencapsulated phase change slurry. *International Journal of Energy Research*, **2020**, 44, 1812-1827	4.5	7
73	Flow and heat transfer characteristics of microencapsulated phase change slurry in thermal energy systems: A review. *Renewable and Sustainable Energy Reviews*, **2020**, 134, 110101	16.2	17
72	Preparation and thermal properties of n-eicosane/nano-SiO2/expanded graphite composite phase-change material for thermal energy storage. *Materials Chemistry and Physics*, **2020**, 240, 122178	4.4	30

71	Synthesis and characterization of microencapsulated sodium sulfate decahydrate as phase change energy storage materials. *Applied Energy*, **2019**, 255, 113830	10.7	16
70	Development and applications of photovoltaic–thermal systems: A review. *Renewable and Sustainable Energy Reviews*, **2019**, 102, 249-265	16.2	130
69	Thermal properties and applications of microencapsulated PCM for thermal energy storage: A review. *Applied Thermal Engineering*, **2019**, 147, 841-855	5.8	155
68	Synthesis and properties of microencapsulated stearic acid/silica composites with graphene oxide for improving thermal conductivity as novel solar thermal storage materials. *Solar Energy Materials and Solar Cells*, **2019**, 189, 197-205	6.4	48
67	Thermal properties of polyvinyl butyral/graphene composites as encapsulation materials for solar cells. *Solar Energy*, **2018**, 161, 187-193	6.8	24
66	Review on thermal conductivity enhancement, thermal properties and applications of phase change materials in thermal energy storage. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 2730-2742	16.2	344
65	Synthesis and characterization of chain-extended and branched polyurethane copolymers as form stable phase change materials for solar thermal conversion storage. *Solar Energy Materials and Solar Cells*, **2018**, 186, 14-28	6.4	20
64	Palmitic acid/polyvinyl butyral/expanded graphite composites as form-stable phase change materials for solar thermal energy storage. *Applied Energy*, **2018**, 228, 1801-1809	10.7	87
63	Experimental investigation on n-octadecane/polystyrene/expanded graphite composites as form-stable thermal energy storage materials. *Energy*, **2018**, 157, 625-632	7.9	42
62	An overview of thermal energy storage systems. *Energy*, **2018**, 144, 341-378	7.9	444
61	Thermal and electrical characterization of polymer/ceramic composites with polyvinyl butyral matrix. *Materials Chemistry and Physics*, **2018**, 205, 401-415	4.4	22
60	Review on thermal performances and applications of thermal energy storage systems with inorganic phase change materials. *Energy*, **2018**, 165, 685-708	7.9	183
59	Microencapsulation and thermal properties of myristic acid with ethyl cellulose shell for thermal energy storage. *Applied Energy*, **2018**, 231, 494-501	10.7	42
58	Numerical evaluation on the flow and heat transfer characteristics of microencapsulated phase change slurry flowing in a circular tube. *Applied Thermal Engineering*, **2018**, 144, 845-853	5.8	13
57	Morphological characterization and applications of phase change materials in thermal energy storage: A review. *Renewable and Sustainable Energy Reviews*, **2017**, 72, 128-145	16.2	162
56	Microstructure and thermal properties of cetyl alcohol/high density polyethylene composite phase change materials with carbon fiber as shape-stabilized thermal storage materials. *Applied Energy*, **2017**, 200, 19-27	10.7	84
55	Performance evaluation of a novel solar photovoltaic–thermal collector with dual channel using microencapsulated phase change slurry as cooling fluid. *Energy Conversion and Management*, **2017**, 145, 30-40	10.6	31
54	Thermal properties and thermal conductivity enhancement of composite phase change materials using myristyl alcohol/metal foam for solar thermal storage. *Solar Energy Materials and Solar Cells*, **2017**, 170, 68-76	6.4	123

53	Synthesis, characterization and applications of microencapsulated phase change materials in thermal energy storage: A review. *Energy and Buildings*, **2017**, 144, 276-294	7	160
52	Preparation, characterization and thermal properties of fatty acid eutectics/bentonite/expanded graphite composites as novel form-stable thermal energy storage materials. *Solar Energy Materials and Solar Cells*, **2017**, 166, 157-166	6.4	52
51	Numerical study of a novel miniature compound parabolic concentrating photovoltaic/thermal collector with microencapsulated phase change slurry. *Energy Conversion and Management*, **2017**, 153, 106-114	10.6	40
50	Maximizing the energy output of a photovoltaic-thermal solar collector incorporating phase change materials. *Energy and Buildings*, **2017**, 153, 382-391	7	68
49	Improved thermal properties of stearyl alcohol/high density polyethylene/expanded graphite composite phase change materials for building thermal energy storage. *Energy and Buildings*, **2017**, 153, 41-49	7	56
48	Synthesis and characterization of microencapsulated myristic acid-palmitic acid eutectic mixture as phase change material for thermal energy storage. *Applied Energy*, **2017**, 203, 677-685	10.7	72
47	Comparative analyses on dynamic performances of photovoltaic-thermal solar collectors integrated with phase change materials. *Energy Conversion and Management*, **2017**, 131, 79-89	10.6	99
46	Dynamic thermal characteristics analysis of microencapsulated phase change suspensions flowing through rectangular mini-channels for thermal energy storage. *Energy and Buildings*, **2017**, 134, 37-51	7	19
45	Synthesis and properties of microencapsulated octadecane with silica shell as shape-stabilized thermal energy storage materials. *Solar Energy Materials and Solar Cells*, **2017**, 160, 1-6	6.4	73
44	Thermal energy storage materials and systems for solar energy applications. *Renewable and Sustainable Energy Reviews*, **2017**, 68, 693-706	16.2	416
43	Preparation, heat transfer and flow properties of microencapsulated phase change materials for thermal energy storage. *Renewable and Sustainable Energy Reviews*, **2016**, 66, 399-414	16.2	70
42	Preparation and thermal properties of n-octadecane/stearic acid eutectic mixtures with hexagonal boron nitride as phase change materials for thermal energy storage. *Energy and Buildings*, **2016**, 131, 35-41	7	55
41	Thermal properties and morphologies of MA-SA eutectics/CNTs as composite PCMs in thermal energy storage. *Energy and Buildings*, **2016**, 127, 603-610	7	48
40	Dynamic characteristics of cool thermal energy storage systems-a review. *International Journal of Green Energy*, **2016**, 13, 1-13	3	17
39	Synthesis, characterization and properties of palmitic acid/high density polyethylene/graphene nanoplatelets composites as form-stable phase change materials. *Solar Energy Materials and Solar Cells*, **2016**, 155, 421-429	6.4	55
38	Dynamic performance analysis of photovoltaic-thermal solar collector with dual channels for different fluids. *Energy Conversion and Management*, **2016**, 120, 13-24	10.6	74
37	Thermal conductivity enhancement of phase change materials for thermal energy storage: A review. *Renewable and Sustainable Energy Reviews*, **2016**, 62, 305-317	16.2	234
36	Synthesis and thermal properties of the MA/HDPE composites with nano-additives as form-stable PCM with improved thermal conductivity. *Applied Energy*, **2016**, 180, 116-129	10.7	91

35	Synthesis and thermal properties of fatty acid eutectics and diatomite composites as shape-stabilized phase change materials with enhanced thermal conductivity. *Solar Energy Materials and Solar Cells*, **2015**, 141, 218-224	6.4	110
34	Properties evaluation and applications of thermal energystorage materials in buildings. *Renewable and Sustainable Energy Reviews*, **2015**, 48, 500-522	16.2	43
33	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
32	Preparation and properties of shape-stabilized phase change materials based on fatty acid eutectics and cellulose composites for thermal energy storage. *Energy*, **2015**, 80, 98-103	7.9	65
31	Performance evaluations and applications of photovoltaic□thermal collectors and systems. *Renewable and Sustainable Energy Reviews*, **2014**, 33, 467-483	16.2	58
30	Synthesis and characterization of microencapsulated paraffin with titanium dioxide shell as shape-stabilized thermal energy storage materials in buildings. *Energy and Buildings*, **2014**, 72, 31-37	7	85
29	Comparative simulation analyses on dynamic performances of photovoltaic□thermal solar collectors with different configurations. *Energy Conversion and Management*, **2014**, 87, 778-786	10.6	57
28	Preparation, thermal properties and applications of shape-stabilized thermal energy storage materials. *Renewable and Sustainable Energy Reviews*, **2014**, 40, 237-259	16.2	88
27	Preparation and characteristics of microencapsulated palmitic acid with TiO2 shell as shape-stabilized thermal energy storage materials. *Solar Energy Materials and Solar Cells*, **2014**, 123, 183-188	6.4	127
26	Dynamic characteristics modeling of a hybrid photovoltaic□thermal solar collector with active cooling in buildings. *Energy and Buildings*, **2014**, 78, 215-221	7	30
25	Preparation and thermal properties of stearic acid/titanium dioxide composites as shape-stabilized phase change materials for building thermal energy storage. *Energy and Buildings*, **2014**, 80, 352-357	7	41
24	Dynamic performances modeling of a photovoltaic□thermal collector with water heating in buildings. *Energy and Buildings*, **2013**, 66, 485-494	7	41
23	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
22	Preparation and characteristics of microencapsulated stearic acid as composite thermal energy storage material in buildings. *Energy and Buildings*, **2013**, 62, 469-474	7	82
21	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
20	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
19	Preparation and thermal properties of form-stable palmitic acid/active aluminum oxide composites as phase change materials for latent heat storage. *Materials Chemistry and Physics*, **2012**, 137, 558-564	4.4	26
18	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

17	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
16	Dynamic performances of solar heat storage system with packed bed using myristic acid as phase change material. *Energy and Buildings*, **2011**, 43, 1091-1096	7	79
15	Dynamic discharging characteristics simulation on solar heat storage system with spherical capsules using paraffin as heat storage material. *Renewable Energy*, **2011**, 36, 1190-1195	8.1	43
14	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
13	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
12	Dynamic Characteristics Modeling of a Hybrid Photovoltaic□hermal Heat Pump System. *International Journal of Green Energy*, **2010**, 7, 537-551	3	22
11	Exergy analysis of ice storage air-conditioning system with heat pipe during charging period. *Energy for Sustainable Development*, **2010**, 14, 149-153	5.4	14
10	Experimental investigation on the photovoltaic□hermal solar heat pump air-conditioning system on water-heating mode. *Experimental Thermal and Fluid Science*, **2010**, 34, 736-743	3	57
9	Thermal performance simulations of a packed bed cool thermal energy storage system using n-tetradecane as phase change material. *International Journal of Thermal Sciences*, **2010**, 49, 1752-1762	4.1	53
8	Synthesis of shape-stabilized paraffin/silicon dioxide composites as phase change material for thermal energy storage. *Journal of Materials Science*, **2010**, 45, 1672-1676	4.3	36
7	Preparation and properties of lauric acid/silicon dioxide composites as form-stable phase change materials for thermal energy storage. *Materials Chemistry and Physics*, **2010**, 122, 533-536	4.4	88
6	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
5	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
4	Experimental study on cool storage air-conditioning system with spherical capsules packed bed. *Energy and Buildings*, **2010**, 42, 1056-1062	7	63
3	Preparation and characterization of stearic acid/expanded graphite composites as thermal energy storage materials. *Energy*, **2010**, 35, 4622-4626	7.9	144
2	Preparation and characterization of nano-encapsulated n-tetradecane as phase change material for thermal energy storage. *Chemical Engineering Journal*, **2009**, 153, 217-221	14.7	251
1	Experimental investigation on performance of ice storage air-conditioning system with separate heat pipe. *Experimental Thermal and Fluid Science*, **2009**, 33, 1149-1155	3	43