# Yanhui Feng

List of Publications by Year
in descending order

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|---|---|---|---|
| 95<br>papers | 3,080<br>citations | 159525<br>30<br>h-index | 182361<br>51<br>g-index |
| 95<br>all docs | 95<br>docs citations | 95<br>times ranked | 2723<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Excellent heat transfer and phase transformation performance of erythritol/graphene composite phase change materials. Composites Part B: Engineering, 2022, 228, 109435. | 5.9 | 52 |
| 2 | Thermal conductivity and energy storage capacity enhancement and bottleneck of shape-stabilized phase change composites with graphene foam and carbon nanotubes. Composites Part A: Applied Science and Manufacturing, 2022, 152, 106703. | 3.8 | 36 |
| 3 | Thermal conductance control of non-bonded interaction between loaded halogen molecules and carbon nanotubes: A molecular dynamics study. International Journal of Heat and Mass Transfer, 2022, 183, 122216. | 2.5 | 5 |
| 4 | Elaborate manipulation on CNT intertube heat transport by using a polymer knob. International Journal of Heat and Mass Transfer, 2022, 184, 122280. | 2.5 | 8 |
| 5 | The effects of interactions between multiple blast furnace slag particles on crystallization characteristics. International Journal of Heat and Mass Transfer, 2022, 185, 122374. | 2.5 | 6 |
| 6 | Excellent heat transfer enhancement of CNT-metal interface by loading carbyne and metal nanowire into CNT. International Journal of Heat and Mass Transfer, 2022, 186, 122533. | 2.5 | 12 |
| 7 | Cooling and phase evolution of a molten blast furnace slag particle. Powder Technology, 2022, 399, 117166. | 2.1 | 5 |
| 8 | Enhanced Moisture Condensation on Hierarchical Structured Superhydrophobicâ€“Hydrophilic Patterned Surfaces. Langmuir, 2022, 38, 863-869. | 1.6 | 7 |
| 9 | Near-field radiation analysis and thermal contact radius determination in the thermal conductivity measurement based on SThM open-loop system. Applied Physics Letters, 2022, 120, . | 1.5 | 6 |
| 10 | Broad low-frequency phonon resonance for increased across-tube heat transport. Physical Review B, 2022, 105, . | 1.1 | 5 |
| 11 | Evaluation of thermal performance for bionic porous ceramic phase change material using micro-computed tomography and lattice Boltzmann method. International Journal of Thermal Sciences, 2022, 179, 107621. | 2.6 | 13 |
| 12 | Pore scale simulation for melting of composite phase change materials considering interfacial thermal resistance. Applied Thermal Engineering, 2022, 212, 118624. | 3.0 | 7 |
| 13 | Liquid Film Sculpture via Droplet Impacting on Microstructured Heterowettable Surfaces. Advanced Functional Materials, 2022, 32, . | 7.8 | 15 |
| 14 | Using mesoporous carbon to pack polyethylene glycol as a shape-stabilized phase change material with excellent energy storage capacity and thermal conductivity. Microporous and Mesoporous Materials, 2021, 310, 110631. | 2.2 | 49 |
| 15 | Thermal properties of three-dimensional hierarchical porous graphene foam-carbon nanotube hybrid structure composites with phase change materials. Microporous and Mesoporous Materials, 2021, 312, 110781. | 2.2 | 35 |
| 16 | Experimental Characterization and Model Verification of Thermal Conductivity from Mesoporous to Macroporous SiOC Ceramics. Journal of Thermal Science, 2021, 30, 465-476. | 0.9 | 16 |
| 17 | Thermal barrier effect from internal pore channels on thickened aluminum nanofilm. International Journal of Thermal Sciences, 2021, 162, 106781. | 2.6 | 17 |
| 18 | A Neural Regression Model for Predicting Thermal Conductivity of CNT Nanofluids with Multiple Base Fluids. Journal of Thermal Science, 2021, 30, 1908-1916. | 0.9 | 3 |

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|---|---|---|---|
| 19 | Thermal properties of PEG/MOF-5 regularized nanoporous composite phase change materials: A molecular dynamics simulation. Case Studies in Thermal Engineering, 2021, 26, 101027. | 2.8 | 9 |
| 20 | Thermal conductivity and phase change characteristics of hierarchical porous diamond/erythritol composite phase change materials. Energy, 2021, 233, 121158. | 4.5 | 31 |
| 21 | Bionic hierarchical porous aluminum nitride ceramic composite phase change material with excellent heat transfer and storage performance. Composites Communications, 2021, 27, 100892. | 3.3 | 45 |
| 22 | Granulation performance by hybrid centrifugal-air blast technique for treatment of liquid slag. Powder Technology, 2021, 392, 204-211. | 2.1 | 13 |
| 23 | Numerical investigation on improving the heat storage and transfer performance of ceramic /D-mannitol composite phase change materials by bionic graded pores and nanoparticle additives. International Journal of Heat and Mass Transfer, 2021, 179, 121748. | 2.5 | 20 |
| 24 | Freestanding Flexible Sensor Based on 3Ï‰ Technique for Anisotropic Thermal Conductivity Measurement of Potassium Dihydrogen Phosphate Crystal. Sensors, 2021, 21, 7968. | 2.1 | 7 |
| 25 | Large-Scale Dewetting via Surfactant-Laden Droplet Impact. Langmuir, 2021, 37, 13729-13736. | 1.6 | 2 |
| 26 | Modified mesoporous silica filled with PEG as a shape-stabilized phase change materials for improved thermal energy storage performance. Microporous and Mesoporous Materials, 2020, 292, 109756. | 2.2 | 76 |
| 27 | Thermal conductance bottleneck of a three dimensional grapheneâ€“CNT hybrid structure: a molecular dynamics simulation. Physical Chemistry Chemical Physics, 2020, 22, 337-343. | 1.3 | 14 |
| 28 | Solidification with crystallization behavior of molten blast furnace slag particle during the cooling process. International Journal of Heat and Mass Transfer, 2020, 146, 118888. | 2.5 | 22 |
| 29 | A review of recent advances in thermophysical properties at the nanoscale: From solid state to colloids. Physics Reports, 2020, 843, 1-81. | 10.3 | 344 |
| 30 | Experimental study on particle flow characteristics of three-dimensional moving bed. Powder Technology, 2020, 374, 399-408. | 2.1 | 11 |
| 31 | In vivo skin thermophysical property testing technology using flexible thermosensor-based 3Ï‰ method. International Journal of Heat and Mass Transfer, 2020, 163, 120550. | 2.5 | 17 |
| 32 | Numerical simulation of gasâ€“solid heat transfer characteristics of porous structure composed of high-temperature particles in moving bed. Applied Thermal Engineering, 2020, 181, 115925. | 3.0 | 20 |
| 33 | Interfacial thermal transport properties of polyurethane/carbon nanotube hybrid composites. International Journal of Heat and Mass Transfer, 2020, 152, 119565. | 2.5 | 23 |
| 34 | Scanning thermal microscopy method for thermal conductivity measurement of a single SiO2 nanoparticle. International Journal of Heat and Mass Transfer, 2020, 154, 119750. | 2.5 | 12 |
| 35 | Thermal Conductivity of a 2D Covalent Organic Framework and Its Enhancement Using Fullerene 3D Self-Assembly: a Molecular Dynamics Simulation. Journal of Physical Chemistry C, 2020, 124, 8386-8393. | 1.5 | 17 |
| 36 | Study on heat transfer of process intensification in moving bed reactor based on the discrete element method. Chemical Engineering and Processing: Process Intensification, 2020, 151, 107915. | 1.8 | 18 |

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| 37 | Prediction on particle size characteristics of high-temperature liquid blast furnace slag in a centrifugal granulation process. Powder Technology, 2020, 376, 527-536. | 2.1 | 14 |
| 38 | Effect of the loading amount and arrangement of iodine chains on the interfacial thermal transport of carbon nanotubes: a molecular dynamics study. RSC Advances, 2020, 10, 44196-44204. | 1.7 | 8 |
| 39 | Three-dimensional fluid-solid coupling heat transfer simulation based on the multireference frame for a side-blown aluminum annealing furnace. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 1036-1048. | 1.5 | 3 |
| 40 | Coating-boosted interfacial thermal transport for carbon nanotube array nano-thermal interface materials. Carbon, 2019, 145, 725-733. | 5.4 | 50 |
| 41 | Electro curing of oriented bismaleimide between aligned carbon nanotubes for high mechanical and thermal performances. Carbon, 2019, 145, 650-657. | 5.4 | 52 |
| 42 | Phase change in modified metal organic frameworks MIL-101(Cr): Mechanism on highly improved energy storage performance. Microporous and Mesoporous Materials, 2019, 280, 124-132. | 2.2 | 36 |
| 43 | Modeling of the molten blast furnace slag particle deposition on the wall including phase change and heat transfer. Applied Energy, 2019, 248, 288-298. | 5.1 | 29 |
| 44 | Review on nanoporous composite phase change materials: Fabrication, characterization, enhancement and molecular simulation. Renewable and Sustainable Energy Reviews, 2019, 109, 578-605. | 8.2 | 120 |
| 45 | Review on micro/nano phase change materials for solar thermal applications. Renewable Energy, 2019, 140, 513-538. | 4.3 | 185 |
| 46 | Size effect on the thermal conductivity of octadecanoic acid: A molecular dynamics study. Computational Materials Science, 2019, 158, 14-19. | 1.4 | 16 |
| 47 | Enhancing the interfacial interaction of carbon nanotubes fibers by Au nanoparticles with improved performance of the electrical and thermal conductivity. Carbon, 2019, 141, 497-505. | 5.4 | 136 |
| 48 | Thermal properties of lauric acid filled in carbon nanotubes as shape-stabilized phase change materials. Physical Chemistry Chemical Physics, 2018, 20, 7772-7780. | 1.3 | 53 |
| 49 | Advances in thermal transport properties at nanoscale in China. International Journal of Heat and Mass Transfer, 2018, 125, 413-433. | 2.5 | 31 |
| 50 | Inhomogeneity in pore size appreciably lowering thermal conductivity for porous thermal insulators. Applied Thermal Engineering, 2018, 130, 1004-1011. | 3.0 | 78 |
| 51 | An evolutionary keyhole-mode heat transfer model in continuous plasma arc welding. International Journal of Heat and Mass Transfer, 2018, 117, 1188-1198. | 2.5 | 26 |
| 52 | Numerical analysis of weld pool behaviors in plasma arc welding with the lattice Boltzmann method. International Journal of Thermal Sciences, 2018, 124, 447-458. | 2.6 | 20 |
| 53 | Numerical simulation and optimization of the melting process for the regenerative aluminum melting furnace. Applied Thermal Engineering, 2018, 145, 315-327. | 3.0 | 25 |
| 54 | Exergy Analysis and Optimization of Sintering Process. Steel Research International, 2018, 89, 1800065. | 1.0 | 9 |

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| 55 | Highly Conducting Polythiophene Thin Films with Less Ordered Microstructure Displaying Excellent Thermoelectric Performance. Macromolecular Rapid Communications, 2018, 39, e1800283. | 2.0 | 21 |
| 56 | A 3-D lattice Boltzmann analysis of weld pool dynamic behaviors in plasma arc welding. Applied Thermal Engineering, 2018, 139, 623-635. | 3.0 | 12 |
| 57 | Iodine nanoparticle-enhancing electrical and thermal transport for carbon nanotube fibers. Applied Thermal Engineering, 2018, 141, 913-920. | 3.0 | 45 |
| 58 | Melting behavior of Ag nanoparticles and their clusters. Applied Thermal Engineering, 2017, 111, 1457-1463. | 3.0 | 32 |
| 59 | Thermal transport barrier in carbon nanotube array nano-thermal interface materials. Carbon, 2017, 120, 128-136. | 5.4 | 57 |
| 60 | Bio-inspired intelligent evaporation modulation in a thermo-sensitive nanogel colloid solution for self-thermoregulation. Physical Chemistry Chemical Physics, 2017, 19, 16312-16316. | 1.3 | 1 |
| 61 | Hydrophobically modified nanoparticle suspensions to enhance water evaporation rate. Applied Physics Letters, 2016, 109, . | 1.5 | 7 |
| 62 | Thermal Conductivity of Graphene Wrinkles: A Molecular Dynamics Simulation. Journal of Physical Chemistry C, 2016, 120, 23807-23812. | 1.5 | 63 |
| 63 | Selective Adsorption and Selective Transport Diffusion of CO<sub>2</sub>â€“CH<sub>4</sub> Binary Mixture in Coal Ultramicropores. Environmental Science & Technology, 2016, 50, 9380-9389. | 4.6 | 59 |
| 64 | Thermal Conductivity of 3D Boron-Based Covalent Organic Frameworks from Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2016, 120, 17060-17068. | 1.5 | 23 |
| 65 | High-efficiency, stable and non-chemically doped grapheneâ€“Si solar cells through interface engineering and PMMA antireflection. RSC Advances, 2016, 6, 10175-10179. | 1.7 | 36 |
| 66 | Plasma arc and weld pool coupled modeling of transport phenomena in keyhole welding. International Journal of Heat and Mass Transfer, 2016, 92, 628-638. | 2.5 | 45 |
| 67 | Heat conduction in coaxial nanocables of Au nanowire core and carbon nanotube shell: A molecular dynamics simulation. International Journal of Thermal Sciences, 2016, 99, 64-70. | 2.6 | 19 |
| 68 | Molecular simulation of CO 2 /CH 4 self- and transport diffusion coefficients in coal. Fuel, 2016, 165, 19-27. | 3.4 | 113 |
| 69 | Heat conduction in double-walled carbon nanotubes with intertube additional carbon atoms. Physical Chemistry Chemical Physics, 2015, 17, 16476-16482. | 1.3 | 14 |
| 70 | Dependence of Thermal Conductivity of Carbon Nanopeapods on Filling Ratios of Fullerene Molecules. Journal of Physical Chemistry A, 2015, 119, 11226-11232. | 1.1 | 22 |
| 71 | Thermal properties of C17H36/MCM-41 composite phase change materials. Computational Materials Science, 2015, 109, 300-307. | 1.4 | 28 |
| 72 | Numerical study of volatiles production, fluid flow and heat transfer in coke ovens. Applied Thermal Engineering, 2015, 81, 353-358. | 3.0 | 33 |

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| 73 | Enhancement of heat conduction in carbon nanotubes filled with fullerene molecules. Physical Chemistry Chemical Physics, 2015, 17, 27520-27526. | 1.3 | 23 |
| 74 | Flexible solar cells based on graphene-ultrathin silicon Schottky junction. RSC Advances, 2015, 5, 73202-73206. | 1.7 | 28 |
| 75 | Composite Transparent Electrode of Graphene Nanowalls and Silver Nanowires on Micropyramidal Si for High-Efficiency Schottky Junction Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 20179-20183. | 4.0 | 32 |
| 76 | Thermal conductivity of silica nanoparticle powder: Measurement and theoretical analysis. European Physical Journal Plus, 2015, 130, 1. | 1.2 | 21 |
| 77 | Near-field radiative heat transfer across a pore and its effects on thermal conductivity of mesoporous silica. Physica B: Condensed Matter, 2015, 456, 237-243. | 1.3 | 10 |
| 78 | Thermal conductivity prediction of mesoporous composites (Cu/MCM-41). EPJ Applied Physics, 2014, 66, 30902. | 0.3 | 1 |
| 79 | Measurement of In-Plane Thermal Conductivity of Ultrathin Films Using Micro-Raman Spectroscopy. Nanoscale and Microscale Thermophysical Engineering, 2014, 18, 183-193. | 1.4 | 28 |
| 80 | Preparation and thermal properties of porous heterogeneous composite phase change materials based on molten salts/expanded graphite. Solar Energy, 2014, 107, 63-73. | 2.9 | 130 |
| 81 | Numerical Study of Thermal Conductivities of Carbon-Based Mesoporous Composites. International Journal of Thermophysics, 2014, 35, 1863-1878. | 1.0 | 2 |
| 82 | Electron mean free path model for rectangular nanowire, nanofilm and nanoparticle. Physica B: Condensed Matter, 2014, 438, 17-21. | 1.3 | 17 |
| 83 | Energy propagation in plasma arc welding with keyhole tracking. Energy, 2014, 64, 1044-1056. | 4.5 | 43 |
| 84 | Study on the structure and reactivity of COREX coal. Journal of Thermal Analysis and Calorimetry, 2013, 113, 693-701. | 2.0 | 9 |
| 85 | Effect of partial substitution of Ca in LaMnO3 on coal catalytic combustion. Journal of Thermal Analysis and Calorimetry, 2013, 112, 719-726. | 2.0 | 10 |
| 86 | Simulation of transport phenomena in coke oven with staging combustion. Applied Thermal Engineering, 2013, 58, 354-362. | 3.0 | 31 |
| 87 | Prediction of Thermal Conductivity of Aluminum Nanocluster-Filled Mesoporous Silica (Al/MCM-41). International Journal of Thermophysics, 2013, 34, 2371-2384. | 1.0 | 5 |
| 88 | A DYNAMIC HEAT SOURCE MODEL WITH RESPECT TOKEYHOLE EVOLUTION IN PLASMA ARC WELDING. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 49, 804. | 0.3 | 3 |
| 89 | Numerical Analysis of Heat Transfer and Fluid Flow in Keyhole Plasma Arc Welding. Numerical Heat Transfer; Part A: Applications, 2011, 60, 685-698. | 1.2 | 43 |
| 90 | Modeling the transient heat transfer for the controlled pulse key-holing process in plasma arc welding. International Journal of Thermal Sciences, 2011, 50, 1664-1671. | 2.6 | 41 |

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|---|---|---|---|
| 91 | Synthesis of confined Ag nanowires within mesoporous silica via double solvent technique and their catalytic properties. Journal of Colloid and Interface Science, 2011, 359, 40-46. | 5.0 | 58 |
| 92 | Experimental and numerical investigations of coke descending behavior in a coke dry quenching cooling shaft. Applied Thermal Engineering, 2008, 28, 1485-1490. | 3.0 | 17 |
| 93 | Numerical study on pressure drop factor in the vent-cap of CDQ shaft. Journal of Thermal Science, 2008, 17, 69-76. | 0.9 | 3 |
| 94 | Effect of micro mass transfer through phase interface on numerical simulation of solidification process. Heat Transfer - Asian Research, 2004, 33, 393-401. | 2.8 | 1 |
| 95 | Computational and experimental study of cooling process in Coke Dry Quenching experimental shaft. Journal of Thermal Science, 2002, 11, 121-127. | 0.9 | 5 |