

Matteo Fasano

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

1,096
citations

19
h-index

32
g-index

62
ext. papers

1,399
ext. citations

7.2
avg, IF

4.83
L-index

#	Paper	IF	Citations
57	Characterisation and modelling of water wicking and evaporation in capillary porous media for passive and energy-efficient applications. <i>Applied Thermal Engineering</i> , 2022 , 208, 118159	5.8	0
56	Anisotropic Electrostatic Interactions in Coarse-Grained Water Models to Enhance the Accuracy and Speed-Up Factor of Mesoscopic Simulations. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 12020-12027	3.4	0
55	Sustainable polyethylene fabrics with engineered moisture transport for passive cooling. <i>Nature Sustainability</i> , 2021 , 4, 715-724	22.1	28
54	Nanoscale thermal properties of carbon nanotubes/epoxy composites by atomistic simulations. <i>International Journal of Thermal Sciences</i> , 2021 , 159, 106588	4.1	13
53	Effect of water nanoconfinement on the dynamic properties of paramagnetic colloidal complexes. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 16948-16957	3.6	0
52	Machine learning and materials modelling interpretation of toxicological response to TiO nanoparticles library (UV and non-UV exposure). <i>Nanoscale</i> , 2021 , 13, 14666-14678	7.7	2
51	Data-driven appraisal of renewable energy potentials for sustainable freshwater production in Africa. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 149, 111414	16.2	4
50	Synergistic freshwater and electricity production using passive membrane distillation and waste heat recovered from camouflaged photovoltaic modules. <i>Journal of Cleaner Production</i> , 2021 , 318, 128464	19.3	1
49	Deep-sea reverse osmosis desalination for energy efficient low salinity enhanced oil recovery. <i>Applied Energy</i> , 2021 , 304, 117661	10.7	1
48	3 Modeling carbon-based smart materials 2020 , 33-80		1
47	Convective Heat Transfer Enhancement through Laser-Etched Heat Sinks: Elliptic Scale-Roughened and Cones Patterns. <i>Energies</i> , 2020 , 13, 1360	3.1	2
46	Exergy analysis of solar desalination systems based on passive multi-effect membrane distillation. <i>Energy Reports</i> , 2020 , 6, 445-454	4.6	18
45	Multistage and passive cooling process driven by salinity difference. <i>Science Advances</i> , 2020 , 6, eaax5015	14.3	11
44	Sustainable freshwater production using passive membrane distillation and waste heat recovery from portable generator sets. <i>Applied Energy</i> , 2020 , 258, 114086	10.7	23
43	Techno-Economic Analysis of a Solar Thermal Plant for Large-Scale Water Pasteurization. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4771	2.6	5
42	Solar passive distiller with high productivity and Marangoni effect-driven salt rejection. <i>Energy and Environmental Science</i> , 2020 , 13, 3646-3655	35.4	26
41	From GROMACS to LAMMPS: GRO2LAM : A converter for molecular dynamics software. <i>Journal of Molecular Modeling</i> , 2019 , 25, 147	2	17

40	Coffee-based colloids for direct solar absorption. <i>Scientific Reports</i> , 2019 , 9, 4701	4.9	19
39	Heat Transfer at the Interface of Graphene Nanoribbons with Different Relative Orientations and Gaps. <i>Energies</i> , 2019 , 12, 796	3.1	5
38	Atomistic modelling of water transport and adsorption mechanisms in silicoaluminophosphate for thermal energy storage. <i>Applied Thermal Engineering</i> , 2019 , 160, 114075	5.8	18
37	Nano-metering of Solvated Biomolecules Or Nanoparticles from Water Self-Diffusivity in Bio-inspired Nanopores. <i>Nanoscale Research Letters</i> , 2019 , 14, 336	5	3
36	Mechanistic correlation between water infiltration and framework hydrophilicity in MFI zeolites. <i>Scientific Reports</i> , 2019 , 9, 18429	4.9	3
35	Water/Ethanol and 13X Zeolite Pairs for Long-Term Thermal Energy Storage at Ambient Pressure. <i>Frontiers in Energy Research</i> , 2019 , 7,	3.8	5
34	Thermally triggered nanorocket from double-walled carbon nanotube in water. <i>Molecular Simulation</i> , 2019 , 45, 417-424	2	5
33	Bottom up Approach Toward Prediction of Effective Thermophysical Properties of Carbon-Based Nanofluids. <i>Heat Transfer Engineering</i> , 2018 , 39, 1686-1697	1.7	8
32	Sliding Dynamics of Parallel Graphene Sheets: Effect of Geometry and Van Der Waals Interactions on Nano-Spring Behavior. <i>Crystals</i> , 2018 , 8, 149	2.3	8
31	Mesoscopic Moment Equations for Heat Conduction: Characteristic Features and Slow-Fast Mode Decomposition. <i>Entropy</i> , 2018 , 20,	2.8	6
30	Effect of interfacial thermal resistance and nanolayer on estimates of effective thermal conductivity of nanofluids. <i>Case Studies in Thermal Engineering</i> , 2018 , 12, 454-461	5.6	11
29	Multiple-Regression Method for Fast Estimation of Solar Irradiation and Photovoltaic Energy Potentials over Europe and Africa. <i>Energies</i> , 2018 , 11, 3477	3.1	12
28	Passive solar high-yield seawater desalination by modular and low-cost distillation. <i>Nature Sustainability</i> , 2018 , 1, 763-772	22.1	147
27	Thermal transmittance in graphene based networks for polymer matrix composites. <i>International Journal of Thermal Sciences</i> , 2017 , 117, 98-105	4.1	22
26	Thermal transport across nanoparticle-fluid interfaces: the interplay of interfacial curvature and nanoparticle-fluid interactions. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3244-3253	3.6	39
25	Multiscale simulation approach to heat and mass transfer properties of nanostructured materials for sorption heat storage. <i>Energy Procedia</i> , 2017 , 126, 509-516	2.3	8
24	Pore- and macro-scale simulations of high temperature proton exchange fuel cells [HTPEMFC] and possible strategies for enhancing durability. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 26730-26743	6.7	83
23	Efficient steam generation by inexpensive narrow gap evaporation device for solar applications. <i>Scientific Reports</i> , 2017 , 7, 11970	4.9	29

22	Nonequilibrium molecular dynamics simulations of nanoconfined fluids at solid-liquid interfaces. <i>Journal of Chemical Physics</i> , 2017 , 146, 244507	3.9	25
21	Interplay between hydrophilicity and surface barriers on water transport in zeolite membranes. <i>Nature Communications</i> , 2016 , 7, 12762	17.4	64
20	Thermal transport phenomena in nanoparticle suspensions. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 483003	1.8	40
19	Interfacial water thickness at inorganic nanoconstructs and biomolecules: Size matters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 1735-1740	2.3	20
18	Estimating photovoltaic energy potential from a minimal set of randomly sampled data. <i>Renewable Energy</i> , 2016 , 97, 457-467	8.1	11
17	Passive heat transfer enhancement by 3D printed Pitot tube based heat sink. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 74, 36-39	5.8	27
16	A review on the heat and mass transfer phenomena in nanofluid coolants with special focus on automotive applications. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 60, 1615-1633	16.2	76
15	Integrated receivers with bottom subcooling for automotive air conditioning: Detailed experimental study of their filling capacity. <i>International Journal of Refrigeration</i> , 2016 , 62, 72-84	3.8	2
14	Convective heat transfer enhancement by diamond shaped micro-protruded patterns for heat sinks: Thermal fluid dynamic investigation and novel optimization methodology. <i>Applied Thermal Engineering</i> , 2016 , 93, 1254-1263	5.8	12
13	A Kinetic Perspective on k- ϵ Turbulence Model and Corresponding Entropy Production. <i>Entropy</i> , 2016 , 18, 121	2.8	9
12	Unshrouded Plate Fin Heat Sinks for Electronics Cooling: Validation of a Comprehensive Thermal Model and Cost Optimization in Semi-Active Configuration. <i>Energies</i> , 2016 , 9, 608	3.1	6
11	Multiscale Computational Fluid Dynamics Methodology for Predicting Thermal Performance of Compact Heat Exchangers. <i>Journal of Heat Transfer</i> , 2016 , 138,	1.8	2
10	Installation of a Concentrated Solar Power System for the Thermal Needs of Buildings or Industrial Processes. <i>Energy Procedia</i> , 2016 , 101, 956-963	2.3	8
9	Protocols for atomistic modeling of water uptake into zeolite crystals for thermal storage and other applications. <i>Applied Thermal Engineering</i> , 2016 , 101, 762-769	5.8	19
8	Towards a Multiscale Simulation Approach of Nanofluids for Volumetric Solar Receivers: Assessing Inter-particle Potential Energy. <i>Energy Procedia</i> , 2016 , 91, 3-10	2.3	7
7	Thermal transmittance of carbon nanotube networks: Guidelines for novel thermal storage systems and polymeric material of thermal interest. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 41, 1028-1036	16.2	29
6	Scaling behaviour for the water transport in nanoconfined geometries. <i>Nature Communications</i> , 2014 , 5, 4565	17.4	111
5	Hierarchically-Structured Magnetic Nanoconstructs with Enhanced Relaxivity and Cooperative Tumor Accumulation. <i>Advanced Functional Materials</i> , 2014 , 24, 4584-4594	15.6	44

4	Magnetic Nanoparticles: Hierarchically Structured Magnetic Nanoconstructs with Enhanced Relaxivity and Cooperative Tumor Accumulation (Adv. Funct. Mater. 29/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 4562-4562	15.6	
3	Water transport control in carbon nanotube arrays. <i>Nanoscale Research Letters</i> , 2014 , 9, 559	5	67
2	Inference of analytical thermodynamic models for biological networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 1122-1132	3.3	9
1	Textured and Rigid Capillary Materials for Passive Energy-Conversion Devices. <i>Advanced Materials Interfaces</i> , 2200057	4.6	0