## Pietro Asinari

#### List of Publications by Citations

Source: https://exaly.com/author-pdf/8049673/pietro-asinari-publications-by-citations.pdf

Version: 2024-04-23

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.

130
papers

3,013
citations

30
h-index

g-index

3,519
ext. papers

5.7
ext. papers

2,57
ext. citations

48
g-index

L-index

#	Paper	IF	Citations
130	Passive solar high-yield seawater desalination by modular and low-cost distillation. <i>Nature Sustainability</i> , <b>2018</b> , 1, 763-772	22.1	147
129	Scalable methodology for the photovoltaic solar energy potential assessment based on available roof surface area: Application to Piedmont Region (Italy). <i>Solar Energy</i> , <b>2011</b> , 85, 1041-1055	6.8	118
128	Rough surfaces with enhanced heat transfer for electronics cooling by direct metal laser sintering. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 75, 58-74	4.9	114
127	Scaling behaviour for the water transport in nanoconfined geometries. <i>Nature Communications</i> , <b>2014</b> , 5, 4565	17.4	111
126	A Lattice Boltzmann Formulation for the Analysis of Radiative Heat Transfer Problems in a Participating Medium. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2010</b> , 57, 126-146	1.3	83
125	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> , <b>2016</b> , 60, 1615-1633	16.2	76
124	Lattice-Boltzmann simulations of the thermally driven 2D square cavity at high Rayleigh numbers. Journal of Computational Physics, <b>2014</b> , 275, 257-272	4.1	73
123	Generalized local equilibrium in the cascaded lattice Boltzmann method. <i>Physical Review E</i> , <b>2008</b> , 78, 016701	2.4	69
122	Water transport control in carbon nanotube arrays. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 559	5	67
121	Direct numerical calculation of the kinematic tortuosity of reactive mixture flow in the anode layer of solid oxide fuel cells by the lattice Boltzmann method. <i>Journal of Power Sources</i> , <b>2007</b> , 170, 359-375	8.9	66
120	Interplay between hydrophilicity and surface barriers on water transport in zeolite membranes. <i>Nature Communications</i> , <b>2016</b> , 7, 12762	17.4	64
119	Glass and composite seals for the joining of YSZ to metallic interconnect in solid oxide fuel cells. Journal of the European Ceramic Society, <b>2008</b> , 28, 611-616	6	62
118	Lattice Boltzmann simulations of 2D laminar flows past two tandem cylinders. <i>Journal of Computational Physics</i> , <b>2009</b> , 228, 983-999	4.1	60
117	Characterization and performance of glassBeramic sealant to join metallic interconnects to YSZ and anode-supported-electrolyte in planar SOFCs. <i>Journal of the European Ceramic Society</i> , <b>2008</b> , 28, 2521-2527	6	58
116	Scalable methodology for the photovoltaic solar energy potential assessment based on available roof surface area: Further improvements by ortho-image analysis and application to Turin (Italy). <i>Solar Energy</i> , <b>2011</b> , 85, 2741-2756	6.8	57
115	Factorization symmetry in the lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2010</b> , 389, 1530-1548	3.3	55
114	Artificial compressibility method revisited: Asymptotic numerical method for incompressible NavierBtokes equations. <i>Journal of Computational Physics</i> , <b>2010</b> , 229, 1698-1723	4.1	49

## (2005-2009)

113	Microstructural characterization of solid oxide fuel cell electrodes by image analysis technique. Journal of Power Sources, <b>2009</b> , 194, 408-422	8.9	48	
112	Pore-scale modeling of fluid flow through gas diffusion and catalyst layers for high temperature proton exchange membrane (HT-PEM) fuel cells. <i>Computers and Mathematics With Applications</i> , <b>2014</b> , 67, 393-411	2.7	47	
111	Link-wise artificial compressibility method. <i>Journal of Computational Physics</i> , <b>2012</b> , 231, 5109-5143	4.1	47	
110	Experimental investigations of the microscopic features and polarization limiting factors of planar SOFCs with LSM and LSCF cathodes. <i>Journal of Power Sources</i> , <b>2008</b> , 177, 111-122	8.9	45	
109	Semi-implicit-linearized multiple-relaxation-time formulation of lattice Boltzmann schemes for mixture modeling. <i>Physical Review E</i> , <b>2006</b> , 73, 056705	2.4	45	
108	Hierarchically-Structured Magnetic Nanoconstructs with Enhanced Relaxivity and Cooperative Tumor Accumulation. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4584-4594	15.6	44	
107	Carbon-Nanohorn Based Nanofluids for a Direct Absorption Solar Collector for Civil Application. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 3488-95	1.3	41	
106	Thermal transport phenomena in nanoparticle suspensions. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 483003	1.8	40	
105	Thermal transport across nanoparticle-fluid interfaces: the interplay of interfacial curvature and nanoparticle-fluid interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 3244-3253	3.6	39	
104	Viscous coupling based lattice Boltzmann model for binary mixtures. <i>Physics of Fluids</i> , <b>2005</b> , 17, 067102	4.4	35	
103	Effects of thermal conduction in microchannel gas coolers for carbon dioxide. <i>International Journal of Refrigeration</i> , <b>2004</b> , 27, 577-586	3.8	33	
102	Improved angular discretization and error analysis of the lattice Boltzmann method for solving radiative heat transfer in a participating medium. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2011</b> , 21, 640-662	4.5	32	
101	A consistent lattice Boltzmann equation with baroclinic coupling for mixtures. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 3878-3895	4.1	30	
100	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> , <b>2015</b> , 41, 1028-	1 <del>036</del>	29	
99	Efficient steam generation by inexpensive narrow gap evaporation device for solar applications. <i>Scientific Reports</i> , <b>2017</b> , 7, 11970	4.9	29	
98	Sustainable polyethylene fabrics with engineered moisture transport for passive cooling. <i>Nature Sustainability</i> , <b>2021</b> , 4, 715-724	22.1	28	
97	Passive heat transfer enhancement by 3D printed Pitot tube based heat sink. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 74, 36-39	5.8	27	
96	Numerical prediction of turbulent convective heat transfer in mini/micro channels for carbon dioxide at supercritical pressure. <i>International Journal of Heat and Mass Transfer</i> , <b>2005</b> , 48, 3864-3879	4.9	27	

95	An open-source library for the numerical modeling of mass-transfer in solid oxide fuel cells. <i>Computer Physics Communications</i> , <b>2012</b> , 183, 125-146	4.2	26
94	Three ways to lattice Boltzmann: a unified time-marching picture. <i>Physical Review E</i> , <b>2010</b> , 81, 016311	2.4	26
93	Solar passive distiller with high productivity and Marangoni effect-driven salt rejection. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3646-3655	35.4	26
92	Nonequilibrium molecular dynamics simulations of nanoconfined fluids at solid-liquid interfaces. Journal of Chemical Physics, 2017, 146, 244507	3.9	25
91	Quasiequilibrium lattice Boltzmann models with tunable bulk viscosity for enhancing stability. <i>Physical Review E</i> , <b>2010</b> , 81, 016702	2.4	24
90	Generalized Maxwell state and H theorem for computing fluid flows using the lattice Boltzmann method. <i>Physical Review E</i> , <b>2009</b> , 79, 036703	2.4	24
89	Lattice Boltzmann equation for microscale gas flows of binary mixtures. <i>Physical Review E</i> , <b>2009</b> , 79, 02	6 <b>7.</b> Q2	24
88	Connection between kinetic methods for fluid-dynamic equations and macroscopic finite-difference schemes. <i>Computers and Mathematics With Applications</i> , <b>2009</b> , 58, 841-861	2.7	24
87	Multiple-relaxation-time lattice Boltzmann scheme for homogeneous mixture flows with external force. <i>Physical Review E</i> , <b>2008</b> , 77, 056706	2.4	24
86	Analysis of Conduction-Radiation Heat Transfer in a 2D Enclosure Using the Lattice Boltzmann Method. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 66, 669-688	2.3	23
85	Sustainable freshwater production using passive membrane distillation and waste heat recovery from portable generator sets. <i>Applied Energy</i> , <b>2020</b> , 258, 114086	10.7	23
84	Reconstruction and modeling of 3D percolation networks of carbon fillers in a polymer matrix. <i>International Journal of Thermal Sciences</i> , <b>2010</b> , 49, 2272-2281	4.1	22
83	Enhancement of electrical and thermal conductivity of Su-8 photocrosslinked coatings containing graphene. <i>Progress in Organic Coatings</i> , <b>2015</b> , 86, 143-146	4.8	21
82	Lattice Boltzmann model for reactive flow simulations. <i>Europhysics Letters</i> , <b>2012</b> , 98, 34001	1.6	21
81	Enhancing surface heat transfer by carbon nanofins: towards an alternative to nanofluids?. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 249	5	21
80	Interfacial water thickness at inorganic nanoconstructs and biomolecules: Size matters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2016</b> , 380, 1735-1740	2.3	20
79	Asymptotic analysis of multiple-relaxation-time lattice Boltzmann schemes for mixture modeling. <i>Computers and Mathematics With Applications</i> , <b>2008</b> , 55, 1392-1407	2.7	20
78	Coffee-based colloids for direct solar absorption. <i>Scientific Reports</i> , <b>2019</b> , 9, 4701	4.9	19

## (2016-2014)

77	A sensor for direct measurement of small convective heat fluxes: Validation and application to micro-structured surfaces. <i>Experimental Thermal and Fluid Science</i> , <b>2014</b> , 55, 42-53	3	19	
76	Protocols for atomistic modeling of water uptake into zeolite crystals for thermal storage and other applications. <i>Applied Thermal Engineering</i> , <b>2016</b> , 101, 762-769	5.8	19	
75	Dissipative particle dynamics simulations of tri-block co-polymer and water: Phase diagram validation and microstructure identification. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 184903	3.9	19	
74	Exergy analysis of solar desalination systems based on passive multi-effect membrane distillation. <i>Energy Reports</i> , <b>2020</b> , 6, 445-454	4.6	18	
73	Atomistic modelling of water transport and adsorption mechanisms in silicoaluminophosphate for thermal energy storage. <i>Applied Thermal Engineering</i> , <b>2019</b> , 160, 114075	5.8	18	
72	A lattice Boltzmann model for diffusion of binary gas mixtures that includes diffusion slip. <i>International Journal for Numerical Methods in Fluids</i> , <b>2012</b> , 69, 171-189	1.9	18	
71	Multi-scale approach for modeling stability, aggregation, and network formation of nanoparticles suspended in aqueous solutions. <i>Nanoscale</i> , <b>2019</b> , 11, 3979-3992	7.7	18	
70	From GROMACS to LAMMPS: GRO2LAM : A converter for molecular dynamics software. <i>Journal of Molecular Modeling</i> , <b>2019</b> , 25, 147	2	17	
69	Lattice Boltzmann scheme for mixture modeling: analysis of the continuum diffusion regimes recovering Maxwell-Stefan model and incompressible Navier-Stokes equations. <i>Physical Review E</i> , <b>2009</b> , 80, 056701	2.4	17	
68	Artificial compressibility method and lattice Boltzmann method: Similarities and differences. <i>Computers and Mathematics With Applications</i> , <b>2011</b> , 61, 3461-3474	2.7	17	
67	Solar energy potential assessment: An overview and a fast modeling approach with application to Italy. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 49, 291-296	16.2	15	
66	Micro-structured rough surfaces by laser etching for heat transfer enhancement on flush mounted heat sinks. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 525, 012017	0.3	14	
65	Analysis of a Localized Fire in a 3-D Tunnel Using a Hybrid Solver: Lattice Boltzmann Method, Finite-Volume Method, and Fully Explicit Upwind Scheme. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2008</b> , 53, 392-417	2.3	14	
64	High-performance implementations and large-scale validation of the link-wise artificial compressibility method. <i>Journal of Computational Physics</i> , <b>2014</b> , 275, 143-153	4.1	13	
63	Experimental evaluation of the operating temperature impact on solid oxide anode-supported fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 3167-3172	6.7	13	
62	Nanoscale thermal properties of carbon nanotubes/epoxy composites by atomistic simulations. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 159, 106588	4.1	13	
61	Cave spiders choose optimal environmental factors with respect to the generated entropy when laying their cocoon. <i>Scientific Reports</i> , <b>2015</b> , 5, 7611	4.9	12	
60	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> , <b>2016</b> , 93, 1254-1263	5.8	12	

59	Exploring the Free Energy Landscape To Predict the Surfactant Adsorption Isotherm at the Nanoparticle-Water Interface. <i>ACS Central Science</i> , <b>2019</b> , 5, 1804-1812	16.8	12
58	Gas-dynamic and electro-chemical optimization of catalyst layers in high temperature polymeric electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 5425-5431	6.7	12
57	Numerical simulation of droplet impact on wettability-patterned surfaces. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	12
56	Multiple-Regression Method for Fast Estimation of Solar Irradiation and Photovoltaic Energy Potentials over Europe and Africa. <i>Energies</i> , <b>2018</b> , 11, 3477	3.1	12
55	Multistage and passive cooling process driven by salinity difference. <i>Science Advances</i> , <b>2020</b> , 6, eaax50°	1514.3	11
54	Estimating photovoltaic energy potential from a minimal set of randomly sampled data. <i>Renewable Energy</i> , <b>2016</b> , 97, 457-467	8.1	11
53	Effect of interfacial thermal resistance and nanolayer on estimates of effective thermal conductivity of nanofluids. <i>Case Studies in Thermal Engineering</i> , <b>2018</b> , 12, 454-461	5.6	11
52	Lattice Boltzmann scheme for electrolytes by an extended Maxwell-Stefan approach. <i>Physical Review E</i> , <b>2014</b> , 89, 053310	2.4	11
51	Thermal link-wise artificial compressibility method: GPU implementation and validation of a double-population model. <i>Computers and Mathematics With Applications</i> , <b>2016</b> , 72, 375-385	2.7	10
50	Can Wicking Control Droplet Cooling?. <i>Langmuir</i> , <b>2019</b> , 35, 6562-6570	4	10
50	Can Wicking Control Droplet Cooling?. <i>Langmuir</i> , <b>2019</b> , 35, 6562-6570  A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> ,2102785	21.8	10
	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the		
49	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> ,2102785  Inference of analytical thermodynamic models for biological networks. <i>Physica A: Statistical</i>	21.8	10
49	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> ,2102785  Inference of analytical thermodynamic models for biological networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2013</b> , 392, 1122-1132  Louver Finned Heat Exchangers for Automotive Sector: Numerical Simulations of Heat Transfer and	21.8	10
49 48 47	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> ,2102785  Inference of analytical thermodynamic models for biological networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2013</b> , 392, 1122-1132  Louver Finned Heat Exchangers for Automotive Sector: Numerical Simulations of Heat Transfer and Flow Resistance Coping With Industrial Constraints. <i>Journal of Heat Transfer</i> , <b>2013</b> , 135,  A Kinetic Perspective on k-lTurbulence Model and Corresponding Entropy Production. <i>Entropy</i> ,	21.8 3·3 1.8	10 9 9
49 48 47 46	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> ,2102785  Inference of analytical thermodynamic models for biological networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 1122-1132  Louver Finned Heat Exchangers for Automotive Sector: Numerical Simulations of Heat Transfer and Flow Resistance Coping With Industrial Constraints. <i>Journal of Heat Transfer</i> , 2013, 135,  A Kinetic Perspective on k-ITurbulence Model and Corresponding Entropy Production. <i>Entropy</i> , 2016, 18, 121  Multiscale simulation approach to heat and mass transfer properties of nanostructured materials	21.8 3·3 1.8 2.8	10 9 9 9
49 48 47 46 45	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> ,2102785  Inference of analytical thermodynamic models for biological networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2013</b> , 392, 1122-1132  Louver Finned Heat Exchangers for Automotive Sector: Numerical Simulations of Heat Transfer and Flow Resistance Coping With Industrial Constraints. <i>Journal of Heat Transfer</i> , <b>2013</b> , 135,  A Kinetic Perspective on k-Turbulence Model and Corresponding Entropy Production. <i>Entropy</i> , <b>2016</b> , 18, 121  Multiscale simulation approach to heat and mass transfer properties of nanostructured materials for sorption heat storage. <i>Energy Procedia</i> , <b>2017</b> , 126, 509-516	21.8 3·3 1.8 2.8	10 9 9 9

# (2016-2012)

41	Quadrature-based moment closures for non-equilibrium flows: Hard-sphere collisions and approach to equilibrium. <i>Journal of Computational Physics</i> , <b>2012</b> , 231, 7431-7449	4.1	7	
40	FINITE-VOLUME AND FINITE-ELEMENT HYBRID TECHNIQUE FOR THE CALCULATION OF COMPLEX HEAT EXCHANGERS BY SEMIEXPLICIT METHOD FOR WALL TEMPERATURE LINKED EQUATIONS (SEWTLE). <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2004</b> , 45, 221-247	1.3	7	
39	Towards a Multiscale Simulation Approach of Nanofluids for Volumetric Solar Receivers: Assessing Inter-particle Potential Energy. <i>Energy Procedia</i> , <b>2016</b> , 91, 3-10	2.3	7	
38	A robust lattice Boltzmann method for parallel simulations of multicomponent flows in complex geometries. <i>Computers and Fluids</i> , <b>2017</b> , 153, 20-33	2.8	6	
37	Mesoscopic Moment Equations for Heat Conduction: Characteristic Features and Slow-Fast Mode Decomposition. <i>Entropy</i> , <b>2018</b> , 20,	2.8	6	
36	Matrix lattice Boltzmann reloaded. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 2202-10	3	6	
35	Performances and Degradation Phenomena of Solid Oxide Anode Supported Cells With LSM and LSCF Cathodes: An Experimental Assessment. <i>Journal of Fuel Cell Science and Technology</i> , <b>2009</b> , 6,		6	
34	Nonlinear Boltzmann equation for the homogeneous isotropic case: Minimal deterministic Matlab program. <i>Computer Physics Communications</i> , <b>2010</b> , 181, 1776-1788	4.2	6	
33	Unshrouded Plate Fin Heat Sinks for Electronics Cooling: Validation of a Comprehensive Thermal Model and Cost Optimization in Semi-Active Configuration. <i>Energies</i> , <b>2016</b> , 9, 608	3.1	6	
32	Water dynamics affects thermal transport at the surface of hydrophobic and hydrophilic irradiated nanoparticles. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 3181-3190	5.1	5	
31	Wettability-Engineered Meshes for Gas Microvolume Precision Handling in Liquids. <i>ACS Applied Materials &amp; ACS Applied Materials &amp; ACS Applied</i>	9.5	5	
30	The notion of energy through multiple scales: From a molecular level to fluid flows and beyond. <i>Energy</i> , <b>2014</b> , 68, 870-876	7.9	5	
29	Porous-layer model for laminar liquid flow in rough microchannels. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 9, 1063-1075	2.8	5	
28	A Modeling-Based Design to Engineering Protein Hydrogels with Random Copolymers. <i>ACS Nano</i> , <b>2021</b> , 15, 16139-16148	16.7	5	
27	Techno-Economic Analysis of a Solar Thermal Plant for Large-Scale Water Pasteurization. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4771	2.6	5	
26	Water/Ethanol and 13X Zeolite Pairs for Long-Term Thermal Energy Storage at Ambient Pressure. <i>Frontiers in Energy Research</i> , <b>2019</b> , 7,	3.8	5	
25	Thermally triggered nanorocket from double-walled carbon nanotube in water. <i>Molecular Simulation</i> , <b>2019</b> , 45, 417-424	2	5	
24	Convective Heat Transfer Enhancement for Electronic Device Applications Using Patterned MWCNTs Structures. <i>Heat Transfer Engineering</i> , <b>2016</b> , 37, 783-790	1.7	4	

23	Warm cascade states in a forced-dissipated Boltzmann gas of hard spheres. <i>Physica D: Nonlinear Phenomena</i> , <b>2012</b> , 241, 600-615	3.3	4
22	Unfolding the prospects of computational (bio)materials modeling. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 100901	3.9	4
21	Data-driven appraisal of renewable energy potentials for sustainable freshwater production in Africa. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 149, 111414	16.2	4
20	Mechanistic correlation between water infiltration and framework hydrophilicity in MFI zeolites. <i>Scientific Reports</i> , <b>2019</b> , 9, 18429	4.9	3
19	Convective Heat Transfer Enhancement through Laser-Etched Heat Sinks: Elliptic Scale-Roughened and Cones Patterns. <i>Energies</i> , <b>2020</b> , 13, 1360	3.1	2
18	Integrated receivers with bottom subcooling for automotive air conditioning: Detailed experimental study of their filling capacity. <i>International Journal of Refrigeration</i> , <b>2016</b> , 62, 72-84	3.8	2
17	Fast computation of multi-scale combustion systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 2396-404	3	2
16	Warm turbulence in the Boltzmann equation. <i>Europhysics Letters</i> , <b>2011</b> , 96, 24004	1.6	2
15	Influence of Porous Electrode Structure on PEM Fuel Cells Design and Performance <b>2004</b> , 291		2
14	Numerical Simulations of Gaseous Mixture Flow in Porous Electrodes for PEM Fuel Cells by the Lattice Boltzmann Method <b>2005</b> ,		2
13	Multiscale Computational Fluid Dynamics Methodology for Predicting Thermal Performance of Compact Heat Exchangers. <i>Journal of Heat Transfer</i> , <b>2016</b> , 138,	1.8	2
12	Machine learning and materials modelling interpretation of toxicological response to TiO nanoparticles library (UV and non-UV exposure). <i>Nanoscale</i> , <b>2021</b> , 13, 14666-14678	7.7	2
11	Overview of the entropy production of incompressible and compressible fluid dynamics. <i>Meccanica</i> , <b>2016</b> , 51, 1245-1255	2.1	1
10	3 Modeling carbon-based smart materials <b>2020</b> , 33-80		1
9	Polarization Analysis and Microstructural Characterization of SOFC Anode and Electrolyte Supported Cells. <i>ECS Transactions</i> , <b>2008</b> , 12, 343-353	1	1
8	Numerical Simulations of Reactive Mixture Flow in the Anode Layer of Solid Oxide Fuel Cells by the Lattice Boltzmann Method <b>2006</b> , 221		1
7	Integrated molecular dynamics and experimental approach to characterize low-free-energy perfluoro-decyl-acrylate (PFDA) coated silicon. <i>Materials and Design</i> , <b>2021</b> , 208, 109902	8.1	1
6	Deep-sea reverse osmosis desalination for energy efficient low salinity enhanced oil recovery. <i>Applied Energy</i> , <b>2021</b> , 304, 117661	10.7	1

#### LIST OF PUBLICATIONS

5	3D Microstructure Reconstructions of Solid Oxide and Proton Exchange Membrane Fuel Cell Electrodes With Applications to Numerical Simulations of Reacting Mixture Flows Using LBM <b>2007</b> , 643		О
4	Characterisation and modelling of water wicking and evaporation in capillary porous media for passive and energy-efficient applications. <i>Applied Thermal Engineering</i> , <b>2022</b> , 208, 118159	5.8	O
3	Textured and Rigid Capillary Materials for Passive Energy-Conversion Devices. <i>Advanced Materials Interfaces</i> ,2200057	4.6	O
2	Magnetic Nanoparticles: Hierarchically Structured Magnetic Nanoconstructs with Enhanced Relaxivity and Cooperative Tumor Accumulation (Adv. Funct. Mater. 29/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4562-4562	15.6	
1	European Materials Modelling Council. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 79-92	0.3	