

Efstathios E Michaelides

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,481
citations

304743

22
h-index

223800

46
g-index

59
all docs

59
docs citations

59
times ranked

2510
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability analysis on the kerosene nanofluid flow with hybrid zinc/aluminum-oxide (ZnO-Al ₂ O ₃) nanoparticles under Lorentz force. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2022, 32, 740-760.	2.8	23
2	Hybrid (Au-TiO ₂) nanofluid flow over a thin needle with magnetic field and thermal radiation: dual solutions and stability analysis. <i>Microfluidics and Nanofluidics</i> , 2022, 26, 1.	2.2	17
3	Hybrid nanofluid flow towards an elastic surface with tantalum and nickel nanoparticles, under the influence of an induced magnetic field. <i>European Physical Journal: Special Topics</i> , 2022, 231, 521-533.	2.6	104
4	Mixed Convection Flow over an Elastic, Porous Surface with Viscous Dissipation: A Robust Spectral Computational Approach. <i>Fractal and Fractional</i> , 2022, 6, 263.	3.3	11
5	Study of Arrhenius activation energy on the thermo-bioconvection nanofluid flow over a Riga plate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2029-2038.	3.6	104
6	Exergy Consumption and Conservation. , 2021, , 147-200.		0
7	Optimization and Exergoeconomics. , 2021, , 273-295.		0
8	Wall Effects on the Flow Dynamics of a Rigid Sphere in Motion. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	1.5	2
9	Primary Energy Use and Environmental Effects of Electric Vehicles. <i>World Electric Vehicle Journal</i> , 2021, 12, 138.	3.0	12
10	Thermodynamic analysis and power requirements of CO ₂ capture, transportation, and storage in the ocean. <i>Energy</i> , 2021, 230, 120804.	8.8	15
11	Thermodynamics, Energy Dissipation, and Figures of Merit of Energy Storage Systems—A Critical Review. <i>Energies</i> , 2021, 14, 6121.	3.1	11
12	Electro-magnetohydrodynamic flow and heat transfer of a third-grade fluid using a Darcy-Brinkman-Forchheimer model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021, 31, 2623-2639.	2.8	44
13	Microgrid for a Cluster of Grid Independent Buildings Powered by Solar and Wind Energy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9214.	2.5	4
14	Thermal Storage for District Cooling—Implications for Renewable Energy Transition. <i>Energies</i> , 2021, 14, 7317.	3.1	0
15	Energy storage needs for the substitution of fossil fuel power plants with renewables. <i>Renewable Energy</i> , 2020, 145, 951-962.	8.9	186
16	Thermodynamics and energy usage of electric vehicles. <i>Energy Conversion and Management</i> , 2020, 203, 112246.	9.2	43
17	Energy and thermal storage in clusters of grid-independent buildings. <i>Energy</i> , 2020, 190, 116440.	8.8	16
18	A review of recent advances in thermophysical properties at the nanoscale: From solid state to colloids. <i>Physics Reports</i> , 2020, 843, 1-81.	25.6	344

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19	Impact of nuclear energy on fossil fuel substitution. Nuclear Engineering and Design, 2020, 366, 110742.	1.7	23
20	A Geothermal-Solar Hybrid Power Plant with Thermal Energy Storage. Energies, 2020, 13, 1018.	3.1	6
21	Oxytactic Microorganisms and Thermo-Bioconvection Nanofluid Flow Over a Porous Riga Plate with Darcy-Brinkman-Forchheimer Medium. Journal of Non-Equilibrium Thermodynamics, 2020, 45, 257-268.	4.2	22
22	Hindered electrophoresis of nanoparticles in narrow pores. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1363-1371.	3.6	1
23	Grid-independent residential buildings with renewable energy sources. Energy, 2018, 148, 448-460.	8.8	32
24	Substitution of coal power plants with renewable energy sources – Shift of the power demand and energy storage. Energy Conversion and Management, 2018, 164, 27-35.	9.2	91
25	Nanoparticle diffusivity in narrow cylindrical pores. International Journal of Heat and Mass Transfer, 2017, 114, 607-612.	4.8	9
26	A New Model for the Lifetime of Fossil Fuel Resources. Natural Resources Research, 2017, 26, 161-175.	4.7	13
27	Wall Effects on the Brownian Movement, Thermophoresis, and Deposition of Nanoparticles in Liquids. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	1.5	21
28	Future directions and cycles for electricity production from geothermal resources. Energy Conversion and Management, 2016, 107, 3-9.	9.2	59
29	Brownian movement and thermophoresis of nanoparticles in liquids. International Journal of Heat and Mass Transfer, 2015, 81, 179-187.	4.8	136
30	Particles deposition at horizontal flat plate in turbulent particulate flow. Canadian Journal of Chemical Engineering, 2014, 92, 1-12.	1.7	3
31	Nanofluidics. , 2014, , .		35
32	Thermodynamic Properties. , 2014, , 91-115.		5
33	Convection and Boiling. , 2014, , 227-277.		0
34	Fundamentals of Nanoparticle Flow and Heat Transfer. , 2014, , 1-45.		0
35	Thermal Conductivity. , 2014, , 163-225.		0
36	Transport properties of nanofluids. A critical review. Journal of Non-Equilibrium Thermodynamics, 2013, 38, 1-79.	4.2	82

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37	Entropy production and optimization of geothermal power plants. Journal of Non-Equilibrium Thermodynamics, 2012, 37, .	4.2	10
38	Heat transfer from a nano-sphere with temperature and velocity discontinuities at the interface. International Journal of Heat and Mass Transfer, 2012, 55, 6491-6498.	4.8	15
39	Variation of the Expansion Coefficient of Nanofluids With Temperature: A Correction for Conductivity Data. Journal of Nanotechnology in Engineering and Medicine, 2012, 3, .	0.8	3
40	Alternative Energy Sources. Green Energy and Technology, 2012, , .	0.6	61
41	Heat transfer in particulate flows with Direct Numerical Simulation (DNS). International Journal of Heat and Mass Transfer, 2009, 52, 777-786.	4.8	140
42	A Numerical Simulation of the Boycott Effect. Chemical Engineering Communications, 2005, 192, 532-549.	2.6	17
43	Equilibrium position for a particle in a horizontal shear flow. International Journal of Multiphase Flow, 2003, 29, 943-957.	3.4	29
44	Hydrodynamic Force and Heat/Mass Transfer From Particles, Bubbles, and Dropsâ€”The Freeman Scholar Lecture. Journal of Fluids Engineering, Transactions of the ASME, 2003, 125, 209-238.	1.5	175
45	Effect of the history term on the transient energy equation for a sphere. International Journal of Heat and Mass Transfer, 2003, 46, 1575-1586.	4.8	12
46	Fluid-Particle Interactions and Resuspension in Simple Shear Flow. Journal of Hydraulic Engineering, 2003, 129, 985-994.	1.5	6
47	Interparticle forces and lift on a particle attached to a solid boundary in suspension flow. Physics of Fluids, 2002, 14, 49-60.	4.0	103
48	Transport of Dissolved Contaminants within a Stream Bed with Bedforms. , 2000, , 1.		2
49	Closure to â€œDiscussion of â€”The Impact of the Model of the Environment in Exergy Analyses,â€™â€Šâ€”(2000,) Tj ETQq1 1 0.784 Transactions of the ASME, 2000, 122, 248-248.	2.3	0
50	Transport processes of water and protons through micropores. AIChE Journal, 1998, 44, 35-47.	3.6	62
51	Motion of a permeable sphere at finite but small Reynolds numbers. Physics of Fluids, 1998, 10, 1375-1383.	4.0	28
52	Kinetic theory and molecular dynamics simulations of microscopic flows. Physics of Fluids, 1997, 9, 3915-3925.	4.0	40
53	Calculation of Long-Range Interactions in Molecular Dynamics and Monte Carlo Simulations. Journal of Physical Chemistry A, 1997, 101, 4322-4331.	2.5	5
54	Unsteady heat and mass transfer from a spheroid. AIChE Journal, 1997, 43, 609-614.	3.6	28

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55	Heat transfer from a rigid sphere in a nonuniform flow and temperature field. International Journal of Heat and Mass Transfer, 1994, 37, 2069-2076.	4.8	89
56	Heat transfer in particulate flows. International Journal of Heat and Mass Transfer, 1986, 29, 265-273.	4.8	46