

Koushik Ghosh

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.

54 papers	385 citations	12 h-index	17 g-index
59 ext. papers	478 ext. citations	2.9 avg, IF	3.69 L-index

#	Paper	IF	Citations
54	Effect of axially varying heat flux on thermo-hydraulic characteristics and circulation ratio of riser tubes of natural circulation boiler. <i>Energy</i> , 2022 , 244, 123158	7.9	1
53	Impact of liquid coolant subcooling on boiling heat transfer and dryout in heat-generating porous media. <i>Thermal Science and Engineering Progress</i> , 2022 , 30, 101251	3.6	
52	Integrated thermal modeling, analysis, and sequential design of heat exchanger surfaces of a natural circulation RDF boiler including evaporator tubes. <i>Applied Thermal Engineering</i> , 2022 , 211, 118455	5.8	1
51	Effect of Loop Geometry on the Flow Dynamics of a Single-Phase Natural Circulation Loop. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 397-408	0.4	
50	A Two-Phase Flow Model for Thermal Design of the Riser-Downcomer System Pertaining to a 600 MW Subcritical Boiler. <i>Journal of Thermal Science and Engineering Applications</i> , 2021 , 13,	1.9	2
49	Impact of side injection on heat removal from truncated conical heat-generating porous bed: thermal non-equilibrium approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 3741-3760	4.1	2
48	Mixed Convection Condensation of Vapor with Non-condensable Gas Over a Vertical Plate: ODE-Based Integral Solution. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 101-115	0.4	
47	Experimental investigation on the effect of initial pressure conditions during steam-water direct contact condensation in a horizontal pipe geometry. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 121, 105082	5.8	0
46	Forced convection and entropy generation past a series of porous bodies with internal heat generation. <i>Physica Scripta</i> , 2021 , 96, 125009	2.6	0
45	Scale analysis for water jet impingement over a horizontal flat plate under film boiling configuration. <i>Heat and Mass Transfer</i> , 2021 , 57, 1211	2.2	0
44	Controller design for operation of a 700 MWe PHWR with limited voiding. <i>Nuclear Engineering and Design</i> , 2020 , 357, 110370	1.8	
43	A multiphase model for determination of minimum circulation ratio of natural circulation boiler for a wide range of pressure. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 150, 119293	4.9	6
42	Characteristics of thermal energy removal from heat-generating porous media considering liquid-vapour phase change. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 119073	4.9	2
41	Pressure dependence of dryout in a heat-generating porous debris bed. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2020 , 45, 1	1	1
40	Flow reversal prediction of a single-phase square natural circulation loop using symbolic time series analysis. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2020 , 45, 1	1	2
39	Two-phase thermo-hydraulic model of a 210 MW thermal power plant boiler for designing the riser-downcomer circuit. <i>Thermal Science and Engineering Progress</i> , 2020 , 18, 100537	3.6	3
38	Coolability of Heat-Generating Porous Debris Beds in Severe Accident Situations. <i>Energy, Environment, and Sustainability</i> , 2019 , 305-336	0.8	1

37	Direct Contact Condensation of Steam in Subcooled Water. <i>Energy, Environment, and Sustainability</i> , 2019 , 337-362	0.8	1
36	A Comprehensive Parametric Modelling for Mixed Convection Film Boiling Analysis on a Vertical Flat Plate. <i>Energy, Environment, and Sustainability</i> , 2019 , 363-380	0.8	
35	Molten Drop to Coolant Heat Transfer During Premixing of Fuel Coolant Interaction. <i>Energy, Environment, and Sustainability</i> , 2018 , 201-235	0.8	3
34	Modeling of steam/water direct contact condensation using volume of fluid approach. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018 , 73, 17-33	2.3	12
33	Mixed convective heat transfer in an enclosure containing a heat-generating porous bed under the influence of bottom injection. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 645-657	4.9	14
32	Dynamic characterization of a single phase square natural circulation loop. <i>Applied Thermal Engineering</i> , 2018 , 128, 1126-1138	5.8	10
31	Forced convection film boiling heat transfer model for a sphere by scaling analysis. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018 , 40, 1	2	2
30	Heatlines and other visualization techniques for confined heat transfer systems. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 118, 1069-1079	4.9	14
29	Modeling and analysis of condensation induced water hammer. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018 , 74, 975-1000	2.3	9
28	Modeling aspects of vapor bubble condensation in subcooled liquid using the VOF approach. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 236-254	2.3	10
27	Thermal Non-equilibrium Heat Transfer and Entropy Generation due to Natural Convection in a Cylindrical Enclosure with a Truncated Conical, Heat-Generating Porous Bed. <i>Transport in Porous Media</i> , 2017 , 116, 353-377	3.1	15
26	Entropy Generation Analysis of a Nuclear Fuel Element Surrounded by a Flow of Coolant Through an Annular Channel. <i>Lecture Notes in Mechanical Engineering</i> , 2017 , 1641-1651	0.4	
25	Numerical analysis of a heat-generating, truncated conical porous bed in a fluid-filled enclosure. <i>Energy</i> , 2016 , 106, 646-661	7.9	11
24	Heat Transfer and Entropy Generation in a Porous Square Enclosure in Presence of an Adiabatic Block. <i>Transport in Porous Media</i> , 2016 , 111, 305-329	3.1	35
23	Proper orthogonal decomposition of thermally-induced flow structure in an enclosure with alternately active localized heat sources. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 94, 373-379	4.9	13
22	A numerical analysis on the effect of inlet parameters for condensation induced water hammer. <i>Nuclear Engineering and Design</i> , 2016 , 304, 50-62	1.8	13
21	Thermal instability-driven multiple solutions in a grooved channel. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016 , 70, 776-790	2.3	5
20	Heat transfer partitioning model of film boiling of particle cluster in a liquid pool: implementation in a CFD code. <i>Heat and Mass Transfer</i> , 2015 , 51, 1149-1166	2.2	2

19	Thermodynamic analysis of a solid nuclear fuel element surrounded by flow of coolant through a concentric annular channel. <i>Progress in Nuclear Energy</i> , 2015 , 85, 178-191	2.3	4
18	A scale analysis model for film boiling heat transfer on a vertical flat plate with wide applicability. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 90, 40-48	4.9	8
17	Mixed Convection Heat Transfer in a Grooved Channel in the Presence of a Baffle. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015 , 67, 1097-1118	2.3	13
16	A thermal model to characterize the flattening effect of a nuclear fuel element in an annular channel using simple analytical approach. <i>Progress in Nuclear Energy</i> , 2015 , 85, 441-453	2.3	
15	Mixed convection in a baffled grooved channel. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2015 , 40, 835-849	1	6
14	An Interval Approach for Robust Control of a Large PHWR with PID Controllers. <i>IEEE Transactions on Nuclear Science</i> , 2015 , 62, 281-292	1.7	14
13	Performance assessment of longitudinal flow through rod bundle arrangements using entropy generation minimization approach. <i>Energy Conversion and Management</i> , 2015 , 99, 359-373	10.6	4
12	Experimental and Numerical Investigation of a Single-Phase Square Natural Circulation Loop. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	22
11	Heat transfer assessment of an alternately active bi-heater undergoing transient natural convection. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 83, 450-464	4.9	23
10	Effect of active wall location in a partially heated enclosure. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 61, 69-77	5.8	13
9	Analysis of Entropy Generation during the Convective Quenching of a Cluster of Balls. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 66, 689-711	2.3	4
8	A Novel Approach for Modeling Mixed Convection Film Boiling for a Vertical Flat Plate. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 66, 1112-1130	2.3	6
7	Heat Transfer Enhancement and Entropy Generation in a Square Enclosure in the Presence of Adiabatic and Isothermal Blocks. <i>Numerical Heat Transfer; Part A: Applications</i> , 2013 , 64, 577-596	2.3	58
6	Hydrodynamic and thermal interactions of a cluster of solid particles in a pool of liquid of different Prandtl numbers using two-fluid model. <i>Heat and Mass Transfer</i> , 2013 , 49, 1659-1679	2.2	5
5	Effect of a Confined Outer Air Stream on Instability of an Annular Liquid Sheet Exposed to Gas Flow 2012 ,		2
4	An integral approach for simulation of vapour film dynamics around a spherical surface. <i>International Journal of Thermal Sciences</i> , 2009 , 48, 1327-1337	4.1	3
3	A Sphericosymmetric VOF Approach for Investigating Immiscible Two-Phase Systems with One Liquid Phase. <i>Numerical Heat Transfer; Part A: Applications</i> , 2006 , 50, 949-974	2.3	9
2	An Integral Approach for Predicting Vapour Film Collapse and Growth Around a Hot Sphere in Subcooled Water 2006 , 409		

1	Analysis of geometrical shape impact on thermal management of practical fluids using square and circular cavities. <i>European Physical Journal: Special Topics</i> ,1	2.3	1
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