Koushik Ghosh

List of Publications by Citations

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	Heat Transfer Enhancement and Entropy Generation in a Square Enclosure in the Presence of Adiabatic and Isothermal Blocks. *Numerical Heat Transfer; Part A: Applications*, **2013**, 64, 577-596	2.3	58
53	Heat Transfer and Entropy Generation in a Porous Square Enclosure in Presence of an Adiabatic Block. *Transport in Porous Media*, **2016**, 111, 305-329	3.1	35
52	Heat transfer assessment of an alternately active bi-heater undergoing transient natural convection. *International Journal of Heat and Mass Transfer*, **2015**, 83, 450-464	4.9	23
51	Experimental and Numerical Investigation of a Single-Phase Square Natural Circulation Loop. *Journal of Heat Transfer*, **2015**, 137,	1.8	22
50	Thermal Non-equilibrium Heat Transfer and Entropy Generation due to Natural Convection in a Cylindrical Enclosure with a Truncated Conical, Heat-Generating Porous Bed. *Transport in Porous Media*, **2017**, 116, 353-377	3.1	15
49	Mixed convective heat transfer in an enclosure containing a heat-generating porous bed under the influence of bottom injection. *International Journal of Heat and Mass Transfer*, **2018**, 117, 645-657	4.9	14
48	An Interval Approach for Robust Control of a Large PHWR with PID Controllers. *IEEE Transactions on Nuclear Science*, **2015**, 62, 281-292	1.7	14
47	Heatlines and other visualization techniques for confined heat transfer systems. *International Journal of Heat and Mass Transfer*, **2018**, 118, 1069-1079	4.9	14
46	Mixed Convection Heat Transfer in a Grooved Channel in the Presence of a Baffle. *Numerical Heat Transfer; Part A: Applications*, **2015**, 67, 1097-1118	2.3	13
45	Effect of active wall location in a partially heated enclosure. *International Communications in Heat and Mass Transfer*, **2015**, 61, 69-77	5.8	13
44	Proper orthogonal decomposition of thermally-induced flow structure in an enclosure with alternately active localized heat sources. *International Journal of Heat and Mass Transfer*, **2016**, 94, 373-379	4.9	13
43	A numerical analysis on the effect of inlet parameters for condensation induced water hammer. *Nuclear Engineering and Design*, **2016**, 304, 50-62	1.8	13
42	Modeling of steam–water direct contact condensation using volume of fluid approach. *Numerical Heat Transfer; Part A: Applications*, **2018**, 73, 17-33	2.3	12
41	Numerical analysis of a heat-generating, truncated conical porous bed in a fluid-filled enclosure. *Energy*, **2016**, 106, 646-661	7.9	11
40	Modeling aspects of vapor bubble condensation in subcooled liquid using the VOF approach. *Numerical Heat Transfer; Part A: Applications*, **2017**, 72, 236-254	2.3	10
39	Dynamic characterization of a single phase square natural circulation loop. *Applied Thermal Engineering*, **2018**, 128, 1126-1138	5.8	10
38	A Sphericosymmetric VOF Approach for Investigating Immiscible Two-Phase Systems with One Liquid Phase. *Numerical Heat Transfer; Part A: Applications*, **2006**, 50, 949-974	2.3	9

37	Modeling and analysis of condensation induced water hammer. *Numerical Heat Transfer; Part A: Applications*, **2018**, 74, 975-1000	2.3	9
36	A scale analysis model for film boiling heat transfer on a vertical flat plate with wide applicability. *International Journal of Heat and Mass Transfer*, **2015**, 90, 40-48	4.9	8
35	Mixed convection in a baffled grooved channel. *Sadhana - Academy Proceedings in Engineering Sciences*, **2015**, 40, 835-849	1	6
34	A Novel Approach for Modeling Mixed Convection Film Boiling for a Vertical Flat Plate. *Numerical Heat Transfer; Part A: Applications*, **2014**, 66, 1112-1130	2.3	6
33	A multiphase model for determination of minimum circulation ratio of natural circulation boiler for a wide range of pressure. *International Journal of Heat and Mass Transfer*, **2020**, 150, 119293	4.9	6
32	Hydrodynamic and thermal interactions of a cluster of solid particles in a pool of liquid of different Prandtl numbers using two-fluid model. *Heat and Mass Transfer*, **2013**, 49, 1659-1679	2.2	5
31	Thermal instability-driven multiple solutions in a grooved channel. *Numerical Heat Transfer; Part A: Applications*, **2016**, 70, 776-790	2.3	5
30	Thermodynamic analysis of a solid nuclear fuel element surrounded by flow of coolant through a concentric annular channel. *Progress in Nuclear Energy*, **2015**, 85, 178-191	2.3	4
29	Analysis of Entropy Generation during the Convective Quenching of a Cluster of Balls. *Numerical Heat Transfer; Part A: Applications*, **2014**, 66, 689-711	2.3	4
28	Performance assessment of longitudinal flow through rod bundle arrangements using entropy generation minimization approach. *Energy Conversion and Management*, **2015**, 99, 359-373	10.6	4
27	Molten Drop to Coolant Heat Transfer During Premixing of Fuel Coolant Interaction. *Energy, Environment, and Sustainability*, **2018**, 201-235	0.8	3
26	An integral approach for simulation of vapour film dynamics around a spherical surface. *International Journal of Thermal Sciences*, **2009**, 48, 1327-1337	4.1	3
25	Two-phase thermo-hydraulic model of a 210 MW thermal power plant boiler for designing the riser-downcomer circuit. *Thermal Science and Engineering Progress*, **2020**, 18, 100537	3.6	3
24	Heat transfer partitioning model of film boiling of particle cluster in a liquid pool: implementation in a CFD code. *Heat and Mass Transfer*, **2015**, 51, 1149-1166	2.2	2
23	Forced convection film boiling heat transfer model for a sphere by scaling analysis. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2018**, 40, 1	2	2
22	Effect of a Confined Outer Air Stream on Instability of an Annular Liquid Sheet Exposed to Gas Flow **2012**,		2
21	A Two-Phase Flow Model for Thermal Design of the Riser-Downcomer System Pertaining to a 600 MW Subcritical Boiler. *Journal of Thermal Science and Engineering Applications*, **2021**, 13,	1.9	2
20	Characteristics of thermal energy removal from heat-generating porous media considering liquid-vapour phase change. *International Journal of Heat and Mass Transfer*, **2020**, 148, 119073	4.9	2

19	Flow reversal prediction of a single-phase square natural circulation loop using symbolic time series analysis. *Sadhana - Academy Proceedings in Engineering Sciences*, **2020**, 45, 1	1	2
18	Impact of side injection on heat removal from truncated conical heat-generating porous bed: thermal non-equilibrium approach. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 3741-3760	4.1	2
17	Effect of axially varying heat flux on thermo-hydraulic characteristics and circulation ratio of riser tubes of natural circulation boiler. *Energy*, **2022**, 244, 123158	7.9	1
16	Coolability of Heat-Generating Porous Debris Beds in Severe Accident Situations. *Energy, Environment, and Sustainability*, **2019**, 305-336	0.8	1
15	Pressure dependence of dryout in a heat-generating porous debris bed. *Sadhana - Academy Proceedings in Engineering Sciences*, **2020**, 45, 1	1	1
14	Direct Contact Condensation of Steam in Subcooled Water. *Energy, Environment, and Sustainability*, **2019**, 337-362	0.8	1
13	Integrated thermal modeling, analysis, and sequential design of heat exchanger surfaces of a natural circulation RDF boiler including evaporator tubes. *Applied Thermal Engineering*, **2022**, 211, 118455	5.8	1
12	Analysis of geometrical shape impact on thermal management of practical fluids using square and circular cavities. *European Physical Journal: Special Topics*,1	2.3	1
11	Experimental investigation on the effect of initial pressure conditions during steam-water direct contact condensation in a horizontal pipe geometry. *International Communications in Heat and Mass Transfer*, **2021**, 121, 105082	5.8	0
10	Forced convection and entropy generation past a series of porous bodies with internal heat generation. *Physica Scripta*, **2021**, 96, 125009	2.6	0
9	Scale analysis for water jet impingement over a horizontal flat plate under film boiling configuration. *Heat and Mass Transfer*, **2021**, 57, 1211	2.2	0
8	A thermal model to characterize the flattening effect of a nuclear fuel element in an annular channel using simple analytical approach. *Progress in Nuclear Energy*, **2015**, 85, 441-453	2.3	
7	Entropy Generation Analysis of a Nuclear Fuel Element Surrounded by a Flow of Coolant Through an Annular Channel. *Lecture Notes in Mechanical Engineering*, **2017**, 1641-1651	0.4	
6	An Integral Approach for Predicting Vapour Film Collapse and Growth Around a Hot Sphere in Subcooled Water **2006**, 409		
5	Effect of Loop Geometry on the Flow Dynamics of a Single-Phase Natural Circulation Loop. *Lecture Notes in Mechanical Engineering*, **2021**, 397-408	0.4	
4	Controller design for operation of a 700 MWe PHWR with limited voiding. *Nuclear Engineering and Design*, **2020**, 357, 110370	1.8	
3	A Comprehensive Parametric Modelling for Mixed Convection Film Boiling Analysis on a Vertical Flat Plate. *Energy, Environment, and Sustainability*, **2019**, 363-380	0.8	
2	Mixed Convection Condensation of Vapor with Non-condensable Gas Over a Vertical Plate: ODE-Based Integral Solution. *Lecture Notes in Mechanical Engineering*, **2021**, 101-115	0.4	

List of Publications

1	Impact of liquid coolant subcooling on boiling heat transfer and dryout in heat-generating porous media. *Thermal Science and Engineering Progress*, **2022**, 30, 101251	3.6