

Kannan N Iyer

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

224
citations

1163117

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h-index

996975

15
g-index

19
all docs

19
docs citations

19
times ranked

116
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of hydrogen distribution in an Indian Nuclear Reactor Containment. Nuclear Engineering and Design, 2011, 241, 832-842.	1.7	49
2	Simulation of hydrogen mitigation in catalytic recombiner: Part-I: Surface chemistry modelling. Nuclear Engineering and Design, 2011, 241, 1746-1757.	1.7	41
3	Implementation and validation of the condensation model for containment hydrogen distribution studies. Nuclear Engineering and Design, 2014, 270, 34-47.	1.7	24
4	Study of startup transients and power ramping of natural circulation boiling systems. Nuclear Engineering and Design, 2009, 239, 1076-1083.	1.7	22
5	Numerical simulation of contact melting using the cell-splitting modified enthalpy method. Numerical Heat Transfer, Part B: Fundamentals, 2017, 71, 84-107.	0.9	15
6	Simulation of hydrogen mitigation in catalytic recombiner. Part-II: Formulation of a CFD model. Nuclear Engineering and Design, 2011, 241, 1758-1767.	1.7	14
7	Investigations on single-phase natural circulation loop dynamics. Part-2: Role of wall constitutive laws. Progress in Nuclear Energy, 2014, 75, 105-116.	2.9	11
8	Local heat transfer coefficient measurements using thermal camera for upward flow of Freon 22 in a vertical tube at supercritical conditions and development of correlations. Nuclear Engineering and Design, 2018, 328, 80-94.	1.7	9
9	Experimental and Numerical Investigation on a Two-Phase Natural Circulation Test Facility. Heat Transfer Engineering, 2012, 33, 775-785.	1.9	8
10	CFD studies of hydrogen mitigation by recombiner using correlations of reaction rates obtained from detailed mechanism. Nuclear Engineering and Design, 2020, 360, 110528.	1.7	8
11	Development of generalized bubble growth model for cavitation and flash boiling. Physics of Fluids, 2021, 33, .	4.0	8
12	Thermal hydraulic studies on cold start-up in a multichannel natural circulation system. Nuclear Engineering and Design, 2019, 341, 269-283.	1.7	5
13	Enhanced wall turbulence model for flow over cylinder at high Reynolds number. AIP Advances, 2019, 9, 095012.	1.3	4
14	Development of sump model for containment hydrogen distribution calculations using CFD code. Nuclear Engineering and Design, 2015, 295, 429-440.	1.7	3
15	Thermal Shrinkage-Based Model for Predicting the Voids During Solidification of Lead. Nuclear Technology, 2016, 196, 674-683.	1.2	2
16	Modified enthalpy method for the simulation of melting and solidification. Sadhana - Academy Proceedings in Engineering Sciences, 2013, 38, 1259-1285.	1.3	1
17	Selected Papers From the 20th National and 9th ISHMT-ASME Heat and Mass Transfer Conference. Heat Transfer Engineering, 2012, 33, 763-764.	1.9	0
18	Comparison of Lumped Parameter and CFD Code Predictions: Sump Evaporation Phenomena. Lecture Notes in Mechanical Engineering, 2017, , 1685-1696.	0.4	0

#	ARTICLE	IF	CITATIONS
19	A Simplified Two-Group Multipoint Kinetics Model. Journal of Nuclear Engineering and Radiation Science, 2021, 7, .	0.4	0