

Partha Sarathi Ghoshdastidar

List of Publications by Year in descending order

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39
papers

916
citations

567281

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454955

30
g-index

39
all docs

39
docs citations

39
times ranked

569
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A coupled level-set and volume-of-fluid method for the buoyant rise of gas bubbles in liquids. International Journal of Heat and Mass Transfer, 2013, 58, 240-259. | 4.8 | 112 |
| 2 | Nanofinishing of flat workpieces using rotationalâ€“magnetorheological abrasive flow finishing (R-MRAFF) process. International Journal of Advanced Manufacturing Technology, 2012, 62, 405-420. | 3.0 | 104 |
| 3 | Fluid flow analysis of magnetorheological abrasive flow finishing (MRAFF) process. International Journal of Machine Tools and Manufacture, 2008, 48, 415-426. | 13.4 | 88 |
| 4 | NANO-FINISHING OF STAINLESS-STEEL TUBES USING ROTATIONAL MAGNETORHEOLOGICAL ABRASIVE FLOW FINISHING PROCESS. Machining Science and Technology, 2010, 14, 365-389. | 2.5 | 74 |
| 5 | Computational investigation on bubble detachment from submerged orifice in quiescent liquid under normal and reduced gravity. Physics of Fluids, 2009, 21, . | 4.0 | 68 |
| 6 | Bubble generation in quiescent and co-flowing liquids. International Journal of Heat and Mass Transfer, 2011, 54, 4673-4688. | 4.8 | 53 |
| 7 | Analysis of magnetorheological abrasive flow finishing (MRAFF) process. International Journal of Advanced Manufacturing Technology, 2008, 38, 613-621. | 3.0 | 52 |
| 8 | The Out-of-Roundness of the Internal Surfaces of Stainless Steel Tubes Finished by the Rotationalâ€“Magnetorheological Abrasive Flow Finishing Process. Materials and Manufacturing Processes, 2011, 26, 1073-1084. | 4.7 | 47 |
| 9 | Computer simulation of transport processes during injection mold-filling and optimization of the molding conditions. Journal of Materials Processing Technology, 2002, 120, 438-449. | 6.3 | 31 |
| 10 | A study of heat transfer effectiveness of circular tubes with internal longitudinal fins having tapered lateral profiles. International Journal of Heat and Mass Transfer, 2002, 45, 1371-1376. | 4.8 | 30 |
| 11 | Solar tower based aluminum heat treatment system: Part I. Design and evaluation of an open volumetric air receiver. Solar Energy, 2015, 111, 135-150. | 6.1 | 29 |
| 12 | A 2D CFD simulation of MR polishing medium in magnetic field-assisted finishing process using electromagnet. International Journal of Advanced Manufacturing Technology, 2015, 76, 173-187. | 3.0 | 27 |
| 13 | Bubble formation and dynamics in a quiescent highâ€“density liquid. AIChE Journal, 2015, 61, 3996-4012. | 3.6 | 23 |
| 14 | Computational fluid dynamics simulation and experimental investigations into the magnetic-field-assisted nano-finishing process. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2012, 226, 1143-1158. | 2.4 | 21 |
| 15 | On the design and evaluation of open volumetric air receiver for process heat applications. Solar Energy, 2015, 121, 41-55. | 6.1 | 18 |
| 16 | COMPUTER SIMULATION OF HEAT TRANSFER DURING DRYING AND PREHEATING OF WET IRON ORE IN A ROTARY KILN. Drying Technology, 2002, 20, 19-35. | 3.1 | 15 |
| 17 | Experimental validation of a quasi three-dimensional conjugate heat transfer model for the metering section of a single-screw plasticating extruder. Journal of Materials Processing Technology, 2002, 120, 397-411. | 6.3 | 14 |
| 18 | Heat Transfer in the Non-reacting Zone of a Cement Rotary Kiln. Journal of Engineering for Industry, 1996, 118, 169-172. | 0.8 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Numerical simulation of heat transfer during production of rutile titanium dioxide in a rotary kiln. International Journal of Heat and Mass Transfer, 2017, 106, 263-279. | 4.8 | 12 |
| 20 | A numerical study of steady incompressible newtonian fluid flow over a disk at moderate reynolds numbers. Canadian Journal of Chemical Engineering, 1999, 77, 113-118. | 1.7 | 10 |
| 21 | A comparative study of 2-D and 3-D conjugate natural convection from a vertical rectangular fin array with multilayered base subjected to distributed high heat flux. International Journal of Heat and Mass Transfer, 2018, 121, 1316-1334. | 4.8 | 10 |
| 22 | A Three-Dimensional Numerical Modeling of Atmospheric Pool Boiling by the Coupled Map Lattice Method. Journal of Heat Transfer, 2006, 128, 1149. | 2.1 | 8 |
| 23 | Numerical modelling of atmospheric pool boiling by the coupled map lattice method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2004, 218, 195-205. | 2.1 | 7 |
| 24 | Computer Simulation of Heat Transfer in a Rotary Lime Kiln. Journal of Thermal Science and Engineering Applications, 2018, 10, . | 1.5 | 7 |
| 25 | Transient heat transfer from a straight composite fin: A numerical solution by ADI. International Communications in Heat and Mass Transfer, 1989, 16, 257-265. | 5.6 | 6 |
| 26 | COMPUTATION OF FLOW AND HEAT TRANSFER AROUND A VERTICAL DISCRETE PROTRUDING HEATER USING AN OPERATOR-SPLITTING ALGORITHM. Numerical Heat Transfer; Part A: Applications, 1995, 28, 103-119. | 2.1 | 6 |
| 27 | Heat Transfer Enhancement in Ferrofluids Flow in Micro and Macro Parallel Plate Channels: A Comparative Numerical Study. Journal of Thermal Science and Engineering Applications, 2018, 10, . | 1.5 | 6 |
| 28 | On the Design and Evaluation of Open Volumetric Air Receiver for Process Heat Applications. Energy Procedia, 2014, 57, 2994-3003. | 1.8 | 5 |
| 29 | Computer simulation of three-dimensional transport during moistened defatted soy flour processing in the metering section of a single-screw extruder. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2000, 214, 335-349. | 2.1 | 4 |
| 30 | Computer Simulation of Drying of Food Products With Superheated Steam in a Rotary Kiln. Journal of Thermal Science and Engineering Applications, 2012, 4, . | 1.5 | 4 |
| 31 | Heat Flux Controlled Pool Boiling of Zirconia-Water and Silver-Water Nanofluids on a Flat Plate: A Coupled Map Lattice Simulation. Journal of Heat Transfer, 2015, 137, . | 2.1 | 4 |
| 32 | A Coupled Map Lattice Model of Flow Boiling in a Horizontal Tube. Journal of Heat Transfer, 2007, 129, 1737-1741. | 2.1 | 3 |
| 33 | Numerical Simulation of Polymer Flow Into a Cylindrical Cavity. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 251-262. | 1.5 | 2 |
| 34 | Laminar Forced Convection of Nanofluids in a Circular Tube: A New Nonhomogeneous Flow Model. Journal of Heat Transfer, 2020, 142, . | 2.1 | 2 |
| 35 | The Design of a Large Single-Screw Melt Extruder Using a Quasi Two-Dimensional Conducting Screw Computer Model. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 1997, 119, 644-648. | 2.2 | 1 |
| 36 | A numerical study of the effect of thermal radiation on the forced air cooling of low heat flux electronic chips mounted on one side of a vertical channel. , 2016, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Simulation of Laminar Stratified Flow Boiling of Liquid in a Horizontal Tube by the Coupled Map Lattice Model. , 2009, , . | | 0 |
| 38 | A Computational Study of Mixed Convection Heat Transfer From a Continuously Moving Isothermal Vertical Plate to Alumina-Water Nanofluid as in Hot Extrusion. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, . | 2.2 | 0 |
| 39 | A Computational Heat Transfer and Optimization Study of Drying of Peas and Rice in a Rotary Dryer. , 2019, , . | | 0 |