

# Partha Sarathi Ghoshdastidar

## List of Publications by Year in descending order

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39  
papers

916  
citations

567281

15  
h-index

454955

30  
g-index

39  
all docs

39  
docs citations

39  
times ranked

569  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Laminar Forced Convection of Nanofluids in a Circular Tube: A New Nonhomogeneous Flow Model. Journal of Heat Transfer, 2020, 142, .  | 2.1 | 2         |
| 2  | A Computational Heat Transfer and Optimization Study of Drying of Peas and Rice in a Rotary Dryer. , 2019, , .   |     | 0         |
| 3  | Computer Simulation of Heat Transfer in a Rotary Lime Kiln. Journal of Thermal Science and Engineering Applications, 2018, 10, .   | 1.5 | 7         |
| 4  | 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        |
| 5  | 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         |
| 6  | A Computational Study of Mixed Convection Heat Transfer From a Continuously Moving Isothermal Vertical Plate to Aluminaâ€“Water Nanofluid as in Hot Extrusion. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .    | 2.2 | 0         |
| 7  | 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        |
| 8  | 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         |
| 9  | Bubble formation and dynamics in a quiescent highâ€“density liquid. AIChE Journal, 2015, 61, 3996-4012.  | 3.6 | 23        |
| 10 | Heat Flux Controlled Pool Boiling of Zirconiaâ€“Water and Silverâ€“Water Nanofluids on a Flat Plate: A Coupled Map Lattice Simulation. Journal of Heat Transfer, 2015, 137, .  | 2.1 | 4         |
| 11 | On the design and evaluation of open volumetric air receiver for process heat applications. Solar Energy, 2015, 121, 41-55.  | 6.1 | 18        |
| 12 | 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        |
| 13 | 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        |
| 14 | On the Design and Evaluation of Open Volumetric Air Receiver for Process Heat Applications. Energy Procedia, 2014, 57, 2994-3003.  | 1.8 | 5         |
| 15 | 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       |
| 16 | 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        |
| 17 | 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       |
| 18 | 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         |

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|----|--|------|-----------|
| 19 | The Out-of-Roundness of the Internal Surfaces of Stainless Steel Tubes Finished by the Rotationalâ€“Magnetorheological Abrasive Flow Finishing Process. <i>Materials and Manufacturing Processes</i> , 2011, 26, 1073-1084.  | 4.7  | 47        |
| 20 | Bubble generation in quiescent and co-flowing liquids. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4673-4688.   | 4.8  | 53        |
| 21 | NANO-FINISHING OF STAINLESS-STEEL TUBES USING ROTATIONAL MAGNETORHEOLOGICAL ABRASIVE FLOW FINISHING PROCESS. <i>Machining Science and Technology</i> , 2010, 14, 365-389.  | 2.5  | 74        |
| 22 | Computational investigation on bubble detachment from submerged orifice in quiescent liquid under normal and reduced gravity. <i>Physics of Fluids</i> , 2009, 21, .   | 4.0  | 68        |
| 23 | Simulation of Laminar Stratified Flow Boiling of Liquid in a Horizontal Tube by the Coupled Map Lattice Model. , 2009, , .   |      | 0         |
| 24 | Analysis of magnetorheological abrasive flow finishing (MRAFF) process. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 38, 613-621.   | 3.0  | 52        |
| 25 | Fluid flow analysis of magnetorheological abrasive flow finishing (MRAFF) process. <i>International Journal of Machine Tools and Manufacture</i> , 2008, 48, 415-426.  | 13.4 | 88        |
| 26 | A Coupled Map Lattice Model of Flow Boiling in a Horizontal Tube. <i>Journal of Heat Transfer</i> , 2007, 129, 1737-1741.  | 2.1  | 3         |
| 27 | A Three-Dimensional Numerical Modeling of Atmospheric Pool Boiling by the Coupled Map Lattice Method. <i>Journal of Heat Transfer</i> , 2006, 128, 1149.   | 2.1  | 8         |
| 28 | Numerical modelling of atmospheric pool boiling by the coupled map lattice method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2004, 218, 195-205.  | 2.1  | 7         |
| 29 | COMPUTER SIMULATION OF HEAT TRANSFER DURING DRYING AND PREHEATING OF WET IRON ORE IN A ROTARY KILN. <i>Drying Technology</i> , 2002, 20, 19-35.  | 3.1  | 15        |
| 30 | Numerical Simulation of Polymer Flow Into a Cylindrical Cavity. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2002, 124, 251-262.   | 1.5  | 2         |
| 31 | Experimental validation of a quasi three-dimensional conjugate heat transfer model for the metering section of a single-screw plasticating extruder. <i>Journal of Materials Processing Technology</i> , 2002, 120, 397-411.   | 6.3  | 14        |
| 32 | Computer simulation of transport processes during injection mold-filling and optimization of the molding conditions. <i>Journal of Materials Processing Technology</i> , 2002, 120, 438-449.   | 6.3  | 31        |
| 33 | A study of heat transfer effectiveness of circular tubes with internal longitudinal fins having tapered lateral profiles. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 1371-1376.  | 4.8  | 30        |
| 34 | Computer simulation of three-dimensional transport during moistened defatted soy flour processing in the metering section of a single-screw extruder. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2000, 214, 335-349. | 2.1  | 4         |
| 35 | A numerical study of steady incompressible newtonian fluid flow over a disk at moderate reynolds numbers. <i>Canadian Journal of Chemical Engineering</i> , 1999, 77, 113-118.   | 1.7  | 10        |
| 36 | The Design of a Large Single-Screw Melt Extruder Using a Quasi Two-Dimensional Conducting Screw Computer Model. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1997, 119, 644-648.  | 2.2  | 1         |

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|----|---|-----|-----------|
| 37 | Heat Transfer in the Non-reacting Zone of a Cement Rotary Kiln. Journal of Engineering for Industry, 1996, 118, 169-172.  | 0.8 | 12        |
| 38 | 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         |
| 39 | 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         |