

B V S S S Prasad

Professor of Mechanical Engineering, Indian Institute of Technology Madras

Heat Transfer Turbine blade cooling Thermo fluid Sciences Fluidized bed Gas turbine

	All	Since 2016
Citations	1492	736
h-index	24	14
i10-index	46	23

TITLE	CITED BY	YEAR
Effect of Blowing Ratio on Mist-Assisted Air Film Cooling of a Flat Plate: A Experimental Study MR Pabbisetty, B Prasad Journal of Thermal Science and Engineering Applications 13 (3)	n	2021
A Simple Model to Identify Dryout Location–Validation and Computational Fluid Dynamics Predictions H Pothukuchi, BSVP Patnaik, BV Prasad Heat Transfer Engineering, 1-19		2020
Experimental Study of Temperature Effect on Labyrinth Seal Leakage and Vibration Characteristics of Rotor VV Shet, AS Sekhar, B Prasad Proceedings of the 6th National Symposium on Rotor Dynamics, 227-236		2020
Numerical study on the secondary air performance of the film holes for the combined impingement and film cooled first stage of high pressure gas turbine nozzle guide vane PR Kukutla, B Prasad International Journal of Turbo & Jet-Engines 37 (3), 221-240	4	2020
Numerical simulations and optimization of impinging jet configuration A Singh, B Chakravarthy, B Prasad International Journal of Numerical Methods for Heat & Fluid Flow		2020
Transient performance of the mixed flow and radial flow variable geometry turbines for an automotive turbocharger R Kannan, B Prasad, S Koppa Proceedings of the Institution of Mechanical Engineers, Part C: Journal of	,	2020
Large-eddy simulation of non-isothermal flow over a circular cylinder S Jogee, B Prasad, K Anupindi International Journal of Heat and Mass Transfer 151, 119426	2	2020
Dynamic Analysis of Rotor-Seal System Considering the Radial Growth Effect of the Seal VV Shet, AS Sekhar, B Prasad Journal of Physics: Conference Series 1510, 012002		2020
Computational Study of Slot Jet Impingement Heat Transfer on a Combined Dimpled and Protruded Concave Surface A Singh, B Prasad		2020

Advances in Mechanical Engineering, 131-144

TITLE	CITED BY	YEAR
Sensitivity of Cascade Pressure Distribution for Inverse Design of Turbine Blade R Nanthini, B Prasad, Y Sanyasiraju Gas Turbine India Conference 83525, V001T02A020		2019
Comparison of Showerhead Jet Impingement Configurations on Leading Edge of a Gas Turbine Blade A Singh, B Prasad Gas Turbine India Conference 83525, V001T03A003		2019
Computational Study of Mist Assisted Film Cooling on a Flat Plate M Rao Pabbi Setty, B Prasad Gas Turbine India Conference 83525, V001T03A013		2019
Fluid Thermal Network Studies on Cooled Nozzle Guide Vane PR Kukutla, B Prasad Gas Turbine India Conference 83525, V001T03A014		2019
Effect of Tip Gap Variation on the Performance of the Transonic Fan Stage With Tandem Stator K Ananthakrishnan, SP Das, B Prasad Gas Turbine India Conference 83525, V001T01A014	e	2019
Numerical Study of Vortices and Their Interactions in the Passage of Roto Blade With Tip Gap SS Rawat, B Prasad Gas Turbine India Conference 83525, V001T02A027	r	2019
The Study on Effect of the Number of Nozzle Vanes in a Radial Flow Turbine for the Turbocharger R Kannan, B Prasad, S Koppa, L George, K Karuppanan ASME 2019 Gas Turbine India Conference		2019
A Study of Flow Behaviour in Radial and Mixed Flow Turbines With Variable Nozzle Vanes for a Turbocharger R Kannan, B Prasad, S Koppa ASME 2019 Gas Turbine India Conference		2019
Numerical simulation of gas-solid flows in fluidized bed gasification reacto AK Sahu, V Raghavan, B Prasad Advanced Powder Technology 30 (12), 3050-3066	r 3	2019
Investigations of Combustor Inlet Swirl on the Liner Wall Temperature in a Aero Engine Combustor KVLN Rao, B Prasad, CHK Babu International Journal of Turbo & Jet-Engines 1 (ahead-of-print)	n 1	2019
Numerical Investigation of Vaneless Diffuser by Pinching and Rotation P Niveditha, BV Prasad Turbo Expo: Power for Land, Sea, and Air 58578, V02CT41A028		2019
Computational fluid dynamic investigations on effects of inserts in fast reactor fuel bundle hydraulics G Padmakumar, K Velusamy, B Prasad, P Lijukrishnan, P Selvaraj Progress in Nuclear Energy 113, 84-94	1	2019

TITLE	CITED BY	YEAR
Network analysis of a coolant flow performance for the combined impingement and film cooled first-stage of high pressure gas turbine nozzl guide vane P Reddy Kukutla, B Prasad Proceedings of the Institution of Mechanical Engineers, Part G: Journal of	1 e	2019
A comparative study of the performance of the mixed flow and radial flow variable geometry turbines for an automotive turbocharger K Ramesh, B Prasad, K Sridhara Proceedings of the Institution of Mechanical Engineers, Part C: Journal of	3	2019
CFD modeling of critical heat flux in flow boiling: Validation and assessment of closure models H Pothukuchi, S Kelm, BSV Patnaik, B Prasad, HJ Allelein Applied Thermal Engineering 150, 651-665	9	2019
Influence of novel equilaterally staggered jet impingement over a concave surface at fixed pumping power A Singh, B Prasad Applied Thermal Engineering 148, 609-619	8	2019
A Computational Study of Flow and Heat Transfer in a Channel with an Array of novel Surface Roughness Element R Gaur, G Sabbani, BV Prasad Journal of Enhanced Heat Transfer 26 (2)	1	2019
Effect of wall surface roughness on condensation shock A Pillai, B Prasad International Journal of Thermal Sciences 132, 435-445	6	2018
Thermodynamic wetness loss calculation in nozzle and turbine cascade: nucleating steam flow J Joseph, S Subramanian, K Vigney, B Prasad, D Biswas Heat and Mass Transfer 54 (8), 2521-2531	7	2018
Assessment of analytical predictions for radial growth of rotating labyrinth seals S Subramanian, AS Sekhar, B Prasad International Journal of Turbo & Jet-Engines 35 (3), 265-279	3	2018
A universal wall-bubble growth model for water in component-scale high- pressure boiling systems JS Murallidharan, B Prasad, BSV Patnaik International Journal of Heat and Mass Transfer 122, 161-181	4	2018
A computational study of mist assisted film cooling PM Rao, P Biswal, B Prasad International Communications in Heat and Mass Transfer 95, 33-41	10	2018
Experimental and Numerical Investigation of a Shower Head Advanced Je Impingement on Concave Surfaces A Singh, BV Prasad Turbo Expo: Power for Land, Sea, and Air 51081, V05AT16A005	t 2	2018

TITLE	CITED BY	YEAR
Co-gasification of Indian rice husk and Indian coal with high-ash in bubbling fluidized bed gasification reactor M Bharath, V Raghavan, B Prasad, SR Chakravarthy Applied Thermal Engineering 137, 608-615	10	2018
Thermal-hydraulic effects of inserts in a fast reactor fuel bundle G Padmakumar, K Velusamy, B Prasad, P Lijukrishnan, GK Pandey, Nuclear Engineering and Design 332, 226-237		2018
Experimental Study on Effects of Addition of Rice Husk on Coal Gasification M Bharath, V Raghavan, B Prasad, SR Chakravarthy International Journal of Energy and Environmental Engineering 12 (3), 237-241		2018
Temperature effects on hydrodynamics of dense gas-solid flows: Application to bubbling fluidized bed reactors AK Sahu, V Raghavan, B Prasad International Journal of Thermal Sciences 124, 387-398	8	2018
Numerical investigation of subcooled flow boiling in an annulus under the influence of eccentricity H Pothukuchi, S Kelm, BSV Patnaik, B Prasad, HJ Allelein Applied Thermal Engineering 129, 1604-1617	8	2018
Effect of thermal conductivity on nozzle guide vane internal surface temperature distribution AK Pujari, BS Prasad, N Sitaram International Journal of Turbo & Jet-Engines 1 (ahead-of-print)	2	2018
Lessons learnt from management of epidermal growth factor receptor (EGFR) mutant lung cancers in a cancer unit VR Bulusu, S Aslam, Y Jeffs, S Jessop, M Azher, E Thomas, A Saleem, Lung Cancer 115, S33-S34		2018
Numerical and Experimental Investigations on Liner Heat Transfer in an Aero Engine Combustion Chamber KVL Narayana Rao, B Prasad, C Kanna Babu, G K Degaonkar ASME 2017 Gas Turbine India Conference		2017
Secondary air performance optimization of a combined impingement and film cooled gas turbine nozzle guide vane PR Kukutla, BV Prasad Gas Turbine India Conference 58509, V001T03A008	2	2017
Development of Turbine Blade Profiles Using Iterative Inverse Design Methodology N Rajendran, B Prasad, Y Sanyasiraju Gas Turbine India Conference 58509, V001T02A003	1	2017
Computational Study of Film Cooling With Mist and Air for a Flat Plate MR Pabbi Setty, P Biswal, B Prasad Gas Turbine India Conference 58509, V001T03A003		2017

TITLE	CITED BY	YEAR
Secondary flow visualization on stagnation row of a combined impingement and film cooled high-pressure gas turbine nozzle guide vane using PIV technique PR Kukutla, B Prasad Journal of Visualization 20 (4), 817-832	9	2017
Conjugate heat transfer analysis on the interior surface of nozzle guide vane with combined impingement and film cooling AK Pujari, BS Prasad, N Sitaram International Journal of Turbo & Jet-Engines 1 (ahead-of-print)	4	2017
A mechanistic model for embryo size prediction at boiling incipience: 'Work of formation' based approach JS Murallidharan, B Prasad, BSV Patnaik International Journal of Heat and Mass Transfer 110, 921-939	2	2017
MORPHOMETRIC EVALUATION OF CERVIX AND ITS INFLUENCE ON INTRACERVICAL PASSAGE OF INSEMINATION PIPETTE IN NATIVE SHEEP BS PRASAD SRI VENKATESWARA VETERINARY UNIVERSITY		2017
Rotordynamic characterization of rotating labyrinth gas turbine seals with radial growth: combined centrifugal and thermal effects S Subramanian, AS Sekhar, B Prasad International Journal of Mechanical Sciences 123, 1-19	6	2017
Gasification of high-ash Indian coal in bubbling fluidized bed using air and steam—An experimental study KV Kumar, M Bharath, V Raghavan, B Prasad, SR Chakravarthy, Applied Thermal Engineering 116, 372-381	20	2017
Hydraulic characteristics of a fast reactor fuel subassembly: An experimental investigation G Padmakumar, K Velusamy, B Prasad, KK Rajan Annals of Nuclear Energy 102, 255-267	5	2017
Alternative Heat Sink to Enhance Thermo-Hydraulic Behavior of an Array of Short Pin Fins A Maiti, SS Prasad 3rd World Congress on Mechanical, Chemical, and Material Engineering, Rome	1	2017
COMPUTATIONAL FLUID DYNAMIC INVESTIGATIONS ON EFFECTS OF CIRCULAR ROD INSERTS IN FAST REACTOR FUEL BUNDLE G Padmakumar, K Velusamy, BV Prasad, P Lijukrishnan, P Selvaraj Proceedings of the 24 th National and 2 nd International ISHMT-ASTFE Heat		2017
Numerical Analysis of Effects of Turbine Blade Tip Shape on Secondary Losses RS Sarath, RA Kumar, B Prasad, AR Srikrishnan Fluid Mechanics and Fluid Power–Contemporary Research, 871-879	2	2017
Numerical study of hydrodynamics in gas-solid reactors operating within bubbling fluidisation regime AK Sahu, V Raghavan, B Prasad Progress in Computational Fluid Dynamics, an International Journal 17 (3	3	2017

TITLE	CITED BY	YEAR
Numerical prediction of dryout in a 19 rod bundle under the effect of eccentricity and blockage H Pothukuchi, BSV Patnaik, B Prasad Nuclear Engineering and Design 310, 328-350	8	2016
CFD investigation and assessment of wall heat flux partitioning model for the prediction of high pressure subcooled flow boiling JS Murallidharan, B Prasad, BSV Patnaik, GF Hewitt, V Badalassi International Journal of Heat and Mass Transfer 103, 211-230	28	2016
Effect of blowing ratio on the internal heat transfer of a cooled nozzle guidevane in a linear cascade A Kumar Pujari, B Prasad, N Sitaram Journal of Thermal Science and Engineering Applications 8 (4)	e 4	2016
Numerical and experimental investigations on liner heat transfer in an aero engine combustion chamber K Rao, B Prasad, CH KannaBabu, GK Degaonkar Proceedings of the Asian Congress on Gas Turbines ACGT2016-091 14, 16	3	2016
Mixed Convection Heat Transfer in an Annulus With Rotating Inner Cylinder Y Nair, V Shakkottai, B Prasad Heat Transfer Summer Conference 50336, V002T15A004	3	2016
On the choice of initial clearance and prediction of leakage flow rate for a rotating gas turbine seal S Subramanian, AS Sekhar, B Prasad Proceedings of the Institution of Mechanical Engineers, Part C: Journal of	8	2016
Rotordynamic characteristics of rotating labyrinth gas turbine seal with centrifugal growth S Subramanian, AS Sekhar, B Prasad Tribology International 97, 349-359	34	2016
Post shut-down decay heat removal from nuclear reactor core by natural convection loops in sodium pool A Rajamani, T Sundararajan, B Prasad, U Parthasarathy, K Velusamy Nuclear Engineering and Design 301, 59-73	5	2016
Sub-channel analysis of rod bundle thermal hydraulics: Effect of eccentricity and blockage H Pothukuchi, BSV Patnaik, B Prasad Nuclear Engineering and Design 300, 475-494	5	2016
Flow analysis of combined impingement and film cooled gas turbine nozzl guide vane PR Kukutla, B Prasad 2016 IEEE Aerospace Conference, 1-20	e	2016
Transient Response of Mixed Flow Variable Geometry Turbine for a Turbocharger R Kannan, B Prasad, S Koppa Gas Turbine India Conference 57311, V001T02A004		2015

TITLE	CITED BY	YEAR
Heat Transfer Studies on the Interior surfaces of Cooled Nozzle Guide Vane in a Linear Cascade AK Pujari, B Prasad, N Sitaram Turbo Expo: Power for Land, Sea, and Air 56710, V05AT11A037	1	2015
Influence of combined radial location and growth on the leakage performance of a rotating labyrinth gas turbine seal S Subramanian, AS Sekhar, B Prasad Journal of Mechanical Science and Technology 29 (6), 2535-2545	15	2015
Conjugate heat transfer study of combined impingement and showerhead film cooling near NGV leading edge D Chandran, B Prasad International Journal of Rotating Machinery 2015	17	2015
Experimental and computational study of fluid flow on a flat plate with three rectangular impinging slot jets MRC Sastry, B Prasad, A Gupta NISCAIR-CSIR, India	1	2015
77: Are EGFR (epidermal growth factor receptor) mutant lung cancers neurotropic and pleurotropic? VR Bulusu, S Jessop, Y Jeffs, A Egan, B Prasad, KA Poku, A Sa'D, Lung Cancer 87, S30		2015
63: Comparative toxicity profiles of two platinum doublets: real life experience from a cancer unit S Jessop, Y Jeffs, E Thomas, M Azher, KA Poku, A Sa'D, B Prasad, Lung Cancer 87, S25		2015
163: Syndrome of inappropriate antidiuretic hormone (SIADH) secretion in small cell lung cancer: 12 months experience from a cancer unit VR Bulusu, S Jessop, Y Jeffs, E Thomas, KA Poku, A Sa'D, B Prasad, Lung Cancer 87, S59		2015