

Profile Page



Name : Dr Sanjay Jangra
Designation : Assistant Professor
Department : Mechanical Engineering
Qualification : PhD Thermal Engineering (Malaviya National Institute of Technology (Jaipur))
ME Thermal Engineering (Thapar University (Patiala))
B Tech Mechanical Engineering (YMCA University (Haryana))
Email : sanjay@nitj.ac.in

Research Interests :

Thermal comfort, Building Energy Efficiency, Renewable Energy, Plasmonics

Other Profile Links :

Google Scholar Link :

Sanjay Kumar [Click Here](#)

Personal Web Link :

Scopus [Click Here](#) Web of Science [Publons](#) [Click Here](#)

Journal Publications :

Year	Journal	Publication
2020	Energy and Buildings, 217, 109970	Occupant's thermal comfort expectations in naturally ventilated engineering workshop building: A case study at high metabolic rates
2020	Advances in building energy research (Taylor & Francis) (Accepted)	Quantification of thermal environments and comfort expectations of residents in hostel dormitories during hot and humid days in Indian composite climate
2020	Renewable Energy, 162, 1958-1969	Experimental investigation of a direct absorption solar collector using ultra stable gold plasmonic nanofluid under real outdoor conditions
2020	International Journal of Environment and Sustainable Development (Accepted)	A building bio-climatic design tool incorporating passive strategies in residential dwellings design of composite climate of India
2019	Building and Environment, 163, 106309	Field investigation on occupant's thermal comfort and preferences in naturally ventilated multi-storey hostel buildings over two seasons in India
2019	Journal of Building Engineering, 23, 90-106	Comparative study of thermal comfort and adaptive actions for modern and traditional multi-storey naturally ventilated hostel buildings during monsoon season in India

2019	Energy and Buildings,188-189,149-174	Progress in thermal comfort studies in classrooms over last 50 years and way forward
2019	Energy and Buildings, 199, 145-163	Field study on indoor thermal comfort of office buildings using evaporative cooling in the composite climate of India
2018	Building and Environment,143,532-547	Evaluation of comfort preferences and insights into behavioural adaptation of students in naturally ventilated classrooms in a tropical country, India
2018	Journal of Building Engineering,20, 569-584	Thermal performance and comfort potential estimation in low-rise high thermal mass naturally ventilated office buildings in India: An experimental study
2018	Building and Environment,128(c),287-304	Status of thermal comfort in naturally ventilated classrooms during the summer season in the composite climate of India
2017	Building and Environment,122,324-342	Development of mathematical correlations for indoor temperature from field observations of the performance of high thermal mass buildings in India
2016	Building and Environment,109,135-153	An adaptive approach to define thermal comfort zones on psychrometric chart for naturally ventilated buildings in composite climate of India
2016	Energy for Sustainable Development,33,108-121	Thermal Comfort Assessment and Characteristics of Occupant's Behavior in Naturally Ventilated Buildings in Composite Climate of India

Conference Publications :

Year	Conference	Publication
2020	10th International Conference of Materials Processing and Characterization	Experimental study to measure the transmission loss of double panel natural fibers
2019	13th REHVA World Congress CLIMA 2019, Bucharest, Romania	Quantification of indoor environments and study of thermal comfort in naturally hostel buildings in the tropical country, India
2016	9th International Conference on Indoor Air Quality Ventilation & Energy Conservation In Buildings, Seoul, South Korea	Adaptive Use of Environmental Controls for Thermal Comfort in Composite Climate of India

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Passive Cooling Design	Prediction of Indoor Temperature in High Thermal Mass Office Buildings	Lambert Academic Publishing	Sunil Sharma, Jyotirmay Mathur, Sanjay Kumar	978-613-4-97865-1	2018
Solar Heating	Design,Fabrication and Experimental Analysis of PTC	Lambert Academic Publishing	Sanjay Kumar, Anuj Mathur, Devender Kumar	978-3-330-35024-3	2017

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Parminder Singh	High flux solar collector for steam generation utilizing plasmonic nanofluids	Ongoing	2019	Dr Ashok Kumar Bagha
Mr Varun Kumar Gupta	Performance analysis of Integrated energy storage direct absorption solar collector using plasmonic nanofluids	Ongoing	2018	Dr Rajeev Kukreja