



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

It is here by certified that the paper ID : IJRASET64024, entitled

*A Comprehensive Review on Computational Fluid Dynamics Analysis and
Optimization of Open Micro-Channel Heat Sinks with Pin Fins*

by

Syed Shamim Raza

*after review is found suitable and has been published in
Volume 12, Issue VIII, August 2024*

in

*International Journal for Research in Applied Science &
Engineering Technology
(International Peer Reviewed and Refereed Journal)
Good luck for your future endeavors*

By [Signature]

Editor in Chief, iJRASET

 ISRA

ISRA Journal Impact
Factor: 7.429



45.98

INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



TOGETHER WE REACH THE GOAL
SJIF 7.429



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

It is here by certified that the paper ID : IJRASET64024, entitled

*A Comprehensive Review on Computational Fluid Dynamics Analysis and
Optimization of Open Micro-Channel Heat Sinks with Pin Fins*

by

Ravi Bhushan

*after review is found suitable and has been published in
Volume 12, Issue VIII, August 2024*

in

*International Journal for Research in Applied Science &
Engineering Technology
(International Peer Reviewed and Refereed Journal)
Good luck for your future endeavors*

By [Signature]

Editor in Chief, iJRASET

JISRA
J
F

ISRA Journal Impact
Factor: **7.429**

INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016

TOGETHER WE REACH THE GOAL
SJIF 7.429