

Syed Ali Abbas Zaidi

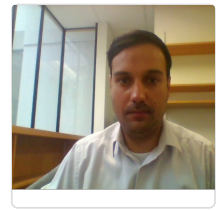
Assistant Professor

School of Mechanical & Manufacturing Engineering

Email: ali.zaidi@smme.nust.edu.pk

Contact: 0515738816

LinkedIn:



About

Dr. Syed Ali Abbas Zaidi is working as Assistant Professor in the School of Mechanical & Manufacturing Engineering. Dr. Syed Ali Abbas Zaidi has a PhD in Mechanical. Dr. Syed Ali Abbas Zaidi has published 15 research articles & conference papers having a citation count of 252, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Mechanical Osaka University , Japan	2011 - 2015
MS in Mechanical NUST, Islamabad , Pakistan	2007 - 2009
BS in Mechanical UET Taxila , Pakistan	2003 - 2007

Experience

Assistant Professor School of Mechanical & Manufacturing Engineering	2022- Present
Assistant Professor School of Mechanical & Manufacturing Engineering	2020 - 2020
Assistant Professor School of Mechanical & Manufacturing Engineering	2018 - 2020
Assistant Professor School of Mechanical & Manufacturing Engineering	2018 - 2018
Postdoc ETH Zurich , Rämistrasse 101	2015 - 2018

Research Projects

National Projects	
Implementation of counter-extrapolation method in immersed boundary method for heat transfer in gas-solid system Funding Agency: HEC Amount: PKR 473,000.00 Status: Approved_inprocess	2019

International Projects

Resistance Force on a Spherical Intruder in Fluidized Bed

2020

Syed Ali Abbas Zaidi

Journal of Applied Fluid Mechanics, Volume 13, No. 3, Pages 1027-1035

Impact Factor: 1.405 | **Quartile:** 4 | **Citations:** 5

DOI: DOI: 10.29252/jafm.13.03.30626

Effect of vortices on power output of vertical axis wind turbine (VAWT)

2020

Ammar Naseem Emad Uddin Zaib Ali Jawad Aslam Sami Ur Rahman Shah Muhammad Sajid Syed Ali Abbas Zaidi Adeel Javed Muhammad Yamin Younis

Sustainable Energy Technologies and Assessments, Volume 37, Article Number 100586

Impact Factor: 5.353 | **Quartile:** 2 | **Citations:** 32

DOI: <https://doi.org/10.1016/j.seta.2019.100586>

Particle velocity distributions and velocity fluctuations of non-Brownian settling particles by particle-resolved direct numerical simulation

2018

Syed Ali Abbas Zaidi

Physical Review E, Volume: 98 Issue: 5 Article Number: 053103

Impact Factor: 2.353 | **Quartile:** 1 | **Citations:** 20

DOI: 10.1103/PhysRevE.98.053103

Particle resolved direct numerical simulation of free settling particles for the study of effects of momentum response time on drag force

2018

Syed Ali Abbas Zaidi

Powder Technology, Volume: 335 Pages: 222-234

Impact Factor: 3.413 | **Quartile:** 1 | **Citations:** 20

DOI: 10.1016/j.powtec.2018.04.058

Study of particle inertia effects on drag force of finite sized particles in settling process

2018

Syed Ali Abbas Zaidi

Chemical Engineering Research and Design, Volume: 132 Pages: 714-728

Impact Factor: 3.073 | **Quartile:** 2 | **Citations:** 29

DOI: 10.1016/j.cherd.2018.02.013

Hindered settling velocity & structure formation during particle settling by direct numerical simulation

2015

Ali Abbas Zaidi Takuya Tsuji Toshitsugu Tanaka

Procedia Engineering, Volume 102, Pages 1656 – 1666

Impact Factor: N/A | **Citations:** 31

DOI: <https://doi.org/10.1016/j.proeng.2015.01.302>

Direct numerical simulations of inertial settling of non-Brownian particles

2015

Syed Ali Abbas Zaidi Takuya Tsuji Toshitsugu Tanaka

Korean Journal of Chemical Engineering, Volume: 32 Issue: 4 Pages: 617-628

Impact Factor: 1.408 | **Quartile:** 3 | **Citations:** 16

DOI: 10.1007/s11814-014-0241-x

Direct numerical simulation of finite sized particles settling for high Reynolds number and dilute suspension

2014

Syed Ali Abbas Zaidi Takuya Tsuji Toshitsugu Tanaka

International Journal of Heat and Fluid Flow, Volume: 50 Pages: 330-341

Impact Factor: 1.596 | **Quartile:** 2 | **Citations:** 37

DOI: 10.1016/j.ijheatfluidflow.2014.09.007

A new relation of drag force for high Stokes number monodisperse spheres by direct numerical simulation

2014

Syed Ali Abbas Zaidi Takuya Tsuji Toshitsugu Tanaka

Advanced Powder Technology, Volume: 25 Issue: 6 Pages: 1860-1871

Impact Factor: 2.638 | **Quartile:** 1 | **Citations:** 60

DOI: 10.1016/j.appt.2014.07.019

- Numerical Simulation of Inline Arrangement of Spheroid Particles in Different Orientations** 2019
Abuzar Jamil Emad Uddin Ali Abbas Zaidi Zaib Ali Jawad Aslam Omer Gilani Abuzar Jamil Emad Uddin Ali Abbas Zaidi Zaib Ali Jawad Aslam Omer Gilani
ASME-JSME-KSME 8th Joint Fluids Engineering Conference, res.country(233,)
Citations: N/A
DOI: <https://doi.org/10.1115/AJKFluids2019-4623>
- Automated Classification of Retinal Diseases in STARE Database Using Neural Network Approach** 2019
Syed Omer Gilani jawad aslam Naireen Zaheer Adeeb Shehzaad Syed Ali Zaidi
2019 IEEE Canadian Conference of Electrical and Computer Engineering (CCECE), res.country(38,)
Citations: 2
DOI: [10.1109/CCECE.2019.8861588](https://doi.org/10.1109/CCECE.2019.8861588)
- Design and Capturing of Shock Wave in Ejector by Numerical Simulations** 2019
Ali Abbas Zaidi Emad Uddin
16th International Bhurban Conference on Applied Sciences and Technology, res.country(177,)
Citations: N/A
DOI: [10.1109/IBCAST.2019.8667160](https://doi.org/10.1109/IBCAST.2019.8667160)
- Simulation of flow in the intake pipe of an internal combustion engine** 2019
Ali Abbas Zaidi
16th International Bhurban Conference on Applied Sciences and Technology, res.country(177,)
Citations: N/A
DOI: [10.1109/IBCAST.2019.8667114](https://doi.org/10.1109/IBCAST.2019.8667114)
- Effect Of bi-bispersity on particle clustering in sedimentation** 2018
Ali Abbas Zaidi
ICFME 2018 : International Conference on Fluid Mechanics and Engineering, res.country(109,)
Citations: N/A
DOI: N/A
- Vertical drag force acting on intruders of different shapes in granular media** 2017
Ali Abbas Zaid Christoph Müller
8th International Conference on Micromechanics on Granular Media, res.country(75,)
Citations: N/A
DOI: [10.1051/epjconf/201714002011](https://doi.org/10.1051/epjconf/201714002011)