

## Publications – 175

- Aug 2025 Tiwari A.;Paul A.R.;Jain A., Effect of inlet swirl on dry powder distribution through the oropharyngeal route of human respiratory tract, Article Journal of Drug Delivery Science and Technology, Volume 110, Year 2025, Pages DOI:10.1016/j.jddst.2025.107097
- April 2025 Gupta A.;Paul A.R.;Jain A.;Agarwal R.K, A Study on Effect of Number of Low-Permeability Layers on Geological Carbon Sequestration in an Open Aquifer, Article Greenhouse Gases Science and Technology, Volume 15, Year 2025, Pages 206-218. DOI:10.1002/ghg.2334
- Feb 2025 Singh S.K.;Yadav A.;Singh S.;Jain A.;Kumar A., Enhancement of mechanical and viscoelastic properties of epoxy and epoxy-nano silica composites using self-healing microcapsules, Article Materials Today Communications, Volume 43, Year 2025, Pages <https://doi.org/10.1016/j.mtcomm.2025.111741>
- 29-30 Dec 2023 Anil Kumar Maurya, Anuj Jain, Akshoy Ranjan Paul, "Effects of Tool Traverse and Rotational Speed on Material Flow and Temperature Distribution in Friction Stir Welding", presented in the Fifth International Conference on Recent Advances in Materials and Manufacturing (ICRAMM-2023), Velalar College of Engineering, Erode, Tamil Nadu. IC-81
- Dec 2023 Digamber Singh, Bholu Kumar, Anuj Jain, Akshoy Ranjan Paul, Toxic Particles Deposition in the Human Respiratory Tract under Natural Inspiratory Flow, International Journal of Mathematical, Engineering and Management Sciences Vol. 8, No. 6, 1225-1254, 2023, Scopus-21, <https://doi.org/10.33889/IJMEMS.2023.8.6.069>
- 20 Sep 2023 online KrishnaKumar Rajnath Yadav, Akshoy Ranjan Paul, Anuj Jain and Firoz Alam, "Effects of Synthetic Jets on Swirl Inflow in a Variable Geometry Twin Air-Intake", Flow, Turbulence and Combustion (Springer), Vol. 111, Issue 4, pp. 1193–1225, Scopus, **SCI-33**, IF=2.4). <https://doi.org/10.1007/s10494-023-00481-8>
- Mar 2023 publish, 18 May 2022, Online Krishna Kumar Rajnath Yadav, Anuj Jain and A. R. Paul, Flow Characteristics and Separation Control in a Transitional Twin Air-Intake Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, issue 3, vol 237, pp. 516-526. IF: 1.285, **SCIE-32**, IJ-55. <https://doi.org/10.1177/09544100221103652>.
- 12-14 Dec 2022 Anil Kumar Maurya, Shakti Kumar, Akshoy Ranjan Paul, Somnath Chattopadhyaya, Suvanjan Bhattacharyya and Anuj Jain, "Computational Investigation of Mechanical Properties for Friction Stirred Welded joint" presented at the 4th International Conference on Energy & Power (ICEP-2022) held at Dhaka (Bangladesh) IC-80.
- 27 Oct 2022, Online Paul, A.R.; Jain, A.; Saha, S.C. Exposure Assessment of Air Pollution in Lungs. Atmosphere 2022, 13(11), 1767. **MDPI**, <https://doi.org/10.3390/atmos13111767> IF: 3.22, Scopus and **SCIE-31**, IJ-54
- 25 Mar 2022 publish, 21 Nov 2021 Online Shalini Verma, Akshoy Ranjan Paul, **Anuj Jain**, Performance Investigation and Energy Production of a Novel Horizontal Axis Wind Turbine with Winglet, **International Journal of Energy Research**, Wiley, vol. 48, issue 4, pp. 4947-4964. IF=4.672, Q1, **SCI-30**, <http://doi.org/10.1002/er.7488>. , IJ-53
- 10-12 Mar 2022 Anurag Tiwari, Akshoy Ranjan Paul, **Anuj Jain**, Challenges in Drug Delivery through Intranasal Route: A CFD Perspective, presented in Biosangam-2022, MNNIT Allahabad (India) and published in Advances in Biological Sciences Research, Atlantis Press. IC-79
- Mar 2022 Digamber Singh, Akshoy Ranjan Paul, **Anuj Jain**, "Numerical Assessment of a 3-D Human Upper Respiratory Tract Model: Effect of Anatomical Structure on Asymmetric Tidal Pulmonary Ventilation Characteristics", **International Journal of Biomedical Engineering and Technology**, Inder Science, Impact Factor: 0.59, **SCOPUS-20**, IJ-52
- 5 Feb 2022 Sushil Kumar Singh, Dheeraj Gunwant, Ajitanshu Vedrtam, Abhishek Kumar, Anuj Jain, "Synthesis, characterization, and modelling the behavior of in-situ ZrO<sub>2</sub> nanoparticles dispersed epoxy nanocomposite", Engineering Fracture Mechanics, Volume 263, pp. 1-17, 108300, Elsevier, **SCI-29**, **Scopus**, Impact Factor: 2.705, <https://doi.org/10.1016/j.engfracmech.2022.108300>, IJ-50
- 22 Oct 2021 Deepak Kumar Singh, **Anuj Jain**, Akshoy Ranjan Paul, "Active Flow Control over NACA23012 Airfoil using Hybrid Jet", **Defence Science Journal**, DRDO, vol. 71, issue 6, pp. 721-729, DOI: <https://doi.org/10.14429/dsj71.16468>, Impact Factor: 0.589, **SCI-28**, **SCOPUS**, IJ-49.
- 6 Sep 2021 Online

6 Sep 2021 Online	Yogesh Chandra, <b>Anuj Jain</b> , R.P. Tewari, "Experimental Studies on Acrylic Dielectric Elastomers as Actuators for Artificial Skeletal Muscle Application", <b>International Journal of Biomedical Engineering and Technology</b> , Inder Science, Vol.37, No.1, pp. 65 – 82, DOI: 10.1504/IJBET.2021.117515, Impact Factor: 0.59, SCOPUS-19, IJ-48.
10 Aug 2021	Vivek Kumar Srivastav, Rakesh Kumar Shukla, Akshoy Ranjan Paul, <b>Anuj Jain</b> , "Computational Study on the Effect of Human Respiratory Wall Elasticity", <b>International Journal of Biomedical Engineering and Technology</b> , Inder Science, Vol.37, No.1, pp. 46 – 64, DOI: 10.1504/IJBET.2021.117514, SERB SR/S3/MERC/0073/2012, Impact Factor: 0.59, <b>SCOPUS-18</b> , IJ-47.
25 July 2021 online 4 Oct 2021 published	KrishnaKumar Rajnath Yadav, Akshoy Ranjan Paul and <b>Anuj Jain</b> . "Performance Evaluation of a Twin Air-Intake: Effects of Geometry, Reynolds Number and Jet Momentum Coefficient", <b>The European Physical Journal Plus</b> , Springer, 136 (10), 998 (2021) pp.1-21, Scopus, <a href="https://doi.org/10.1140/epjp/s13360-021-01959-y">https://doi.org/10.1140/epjp/s13360-021-01959-y</a> , IF:3.911, SCI-26, IJ-45
15 July 2021	Akshoy Ranjan Paul, Firoz Khan, Anuj Jain and Suvash Chandra Saha, "Deposition of Smoke Particles in Human Airways with Realistic Waveform", <b>Atmosphere</b> , MDPI, Basel, Switzerland, 2021,12, 912. <a href="https://doi.org/10.3390/atmos12070912">https://doi.org/10.3390/atmos12070912</a> , IF: 2.686, SCIE-25, Scopus, IJ-44
June 2021	Arvind Kumar, Abhishek Gupta, Shalini Verma, Akshoy Ranjan Paul, Anuj Jain and Nawshad Haque, Life cycle assessment based environmental footprint of a battery recycling process, Third International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES 2021) at MRCET Hyderabad, India 18-19 June 2021, IC-78
May 2021	Shalini Verma, Akshoy Ranjan Paul, Anuj Jain and Firoz Alam, "Numerical Investigation of Stall Characteristics for Winglet Blade of a Horizontal Axis Wind Turbine", 13th International Conference on Computational Heat Mass and Momentum Transfer (ICCHMMT-2021), Paris (France), 18-21 May 2021, Paper ID-64. IC-77 E3S Web of Conferences 321, 03004 (2021) <a href="https://doi.org/10.1051/e3sconf/202132103004">https://doi.org/10.1051/e3sconf/202132103004</a>
April 2021 Online	Anurag Tiwari, Siddharth Sharma, Vivek Kumar Srivastav, <b>Anuj Jain</b> , Akshoy Ranjan Paul, "Computational Study of Atomisation Models and Optimal Design of a Pressurized Inhaler", <b>Journal of Biomimetics, Biomaterials and Biomedical Engineering</b> , Trans Tech. Publication, vol 50, pp. 123-134, <a href="https://doi.org/10.4028/www.scientific.net/JBBBE.50.123">https://doi.org/10.4028/www.scientific.net/JBBBE.50.123</a> , IF: 0.7, <b>ESCI-24</b> , <b>Scopus</b> , IJ-43
Mar 2021	Prashant Kumar, Shalini Verma, Abhishek Gupta, Akshoy Ranjan Paul, Anuj Jain and Nawshad Haque, "Life cycle analysis for the production of urea through Syngas", International Conference on Sustainable Energy, Environment and Green Technologies-2021 (ICSEEGT-2021), March 5-6, 2021, Poornima College of Engineering, Jaipur, India IC-76 IOP Conference Series: Earth and Environment Science 795 (2021) 012030, 1-7, doi:10.1088/1755-1315/795/1/012031
Mar 2021	Vivek Singh, Shalini Verma, Abhishek Gupta, Akshoy Ranjan Paul, Anuj Jain and Nawshad Haque, "Environmental carbon footprint assessment of a LHB railway coach", International Conference on Sustainable Energy, Environment and Green Technologies-2021 (ICSEEGT-2021), March 5-6, 2021, Poornima College of Engineering, Jaipur, India IC-75 IOP Conference Series: Earth and Environment Science 795 (2021) 012030, 1-7, doi:10.1088/1755-1315/795/1/012030
Mar 2021	Sandeep Kumar Rajput, Shalini Verma, Abhishek Gupta, Akshoy Ranjan Paul, Anuj Jain and Nawshad Haque, "Environmental impact assessment of coal gasification in hydrogen production", International Conference on Sustainable Energy, Environment and Green Technologies-2021 (ICSEEGT-2021), March 5-6, 2021, Poornima College of Engineering, Jaipur, India IC-74. IOP Conference Series: Earth and Environment Science 795 (2021) 012030, 1-7, doi:10.1088/1755-1315/795/1/012029
Mar 2021	Aditya Joshi, Abhishek Gupta, Shalini Verma, Akshoy Ranjan Paul, Anuj Jain and Nawshad Haque, "Life cycle based greenhouse gas footprint assessment of a Smartphone", International Conference on Sustainable Energy, Environment and Green Technologies-2021 (ICSEEGT-2021), March 5-6, 2021, Poornima College of Engineering, Jaipur, India IC-73. IOP Conference Series: Earth and Environment Science 795 (2021) 012030, 1-7, doi:10.1088/1755-1315/795/1/012028
Feb 2021	Sushil Singh, Samarjit Singh, Sourabh Shukla, Abhishek Kumar and Anuj Jain, "Influence of SiO <sub>2</sub> nanoparticle reinforcement on the thermo-mechanical behavior of two different epoxy

	composite systems: A comparative study”, International Conference on Sustainable Engineering" (ICSE-2021), 26-27 February, 2021, Engineering College, Bikaner, INDIA, IC-72
Jan 2021	Digamber Singh, Anuj Jain, A.R. Paul “Air Quality Index Effect on Particles Deposition in Human Airways under Natural Breath” 3rd International Conference on Advances in Mechanical Engineering and its Interdisciplinary Areas (ICAMEI-2021), 05-07-Jan-2021, College of Engineering and Management, Kolaghat, INDIA, IC-71
17 Oct Accepted/ 2020 Online publication 2 Nov	Sushil Kumar Singh, Abhishek Kumar., <b>Anuj Jain</b> , "Mechanical and viscoelastic properties of SiO <sub>2</sub> /epoxy nanocomposites post-cured at different temperatures", <i>Plastics, Rubber and Composites: Macromolecular Engineering</i> , Taylor and Francis, 50 (3) 116-126 <b>SCI-23, SCOPUS</b> , Impact Factor: ??, IJ-42
Jan 2021	
Oct 2020	Sushil Kumar Singh, Amit Kumar, Samarjit Singh, Abhishek Kumar., <b>Anuj Jain</b> , "Investigation of Thermo-mechanical Properties of Surface Treated SiO <sub>2</sub> /Epoxy Nanocomposites", <i>Materials Today: Proceedings</i> vol. 38, part 5, 2021, pp. 2861-2865, Elsevier, Online 14 Oct 2020 IF: 1.46, <b>SCOPUS C-11</b> paper presented at International Conference & Exposition on Mechanical, Material and Manufacturing Technology (ICE3MT2020) Oct 9-10 2020, CVR College of Engineering Hyderabad, India ( <b>Best Paper Award</b> ), IC-69
Sep 2020	Shukla, R.K., Srivastav, V.K., Paul, A.R. <b>Jain, A.</b> Fluid structure interaction studies of human airways. <i>Sādhanā</i> 45(1), 229 (September 2020). <b>Springer, SCIE-22&amp; SCOPUS</b> , Impact Factor: 0.849, <a href="https://doi.org/10.1007/s12046-020-01460-9">https://doi.org/10.1007/s12046-020-01460-9</a> , revised and expanded version of an article Rakesh Kumar Shukla, Vivek Kumar Srivastav, Akshoy Ranjan Paul and <b>Anuj Jain</b> , "Analysis of Airflow through Compliant Human Airways using Fluid Structure Interaction", <i>Proceedings of First International Conference on Mechanical Engineering (INCOM2018)</i> , 4-6 Jan. 2018, Jadavpur University, Kolkata (India), Paper ID-218, pp. 309-312, ISBN: 978-93-83660-38-4. IC-68 Scopus-17
July 2020	<b>Akshoy Ranjan Paul, Firoz Alam, Anuj Jain, Mohammad Sharafat Ali, "Boiler Safety in South Asia"</b> , <i>Journal of The Institution of Engineers (India): Series C</i> , <b>101(5), pp. 761-769</b> . Springer, <b>July 2020, SCOPUS-16, Impact Factor: 0.75, IJ-41</b>
Mar 2020	Yadav Krishna Kumar R., Akshoy Ranjan Paul, Nithin Hegde, <b>Anuj Jain</b> , "A Comparison of Circular and Slotted Synthetic Jets for Flow Control in a Twin Air-Intake", <i>Defence Science Journal</i> , DRDO, vol. 70, issue 2, pp. 113-121, March 2020, <b>SCI-21 &amp; SCOPUS</b> , Impact Factor: 0.589, DOI: <a href="https://doi.org/10.14429/dsj.70.13053">https://doi.org/10.14429/dsj.70.13053</a> , IJ-40
Jan 2020	Yadav Krishna Kumar R., Akshoy Ranjan Paul, <b>Anuj Jain</b> , "Effects of Flow Control in the Presence of Asymmetric Inflows in Twin Air-Intake", <i>Aircraft Engineering and Aerospace Technology</i> , No. 3, Vol. 92, pp. 460-471, Jan 2020, Emerald Publishing, <b>SCIE-20&amp; SCOPUS</b> , Impact Factor: 0.753. DOI 10.1108/AEAT-06-2019-0116, IJ-39
Dec 2019	Patibandla B.L.V. Ramana, Akshoy Ranjan Paul, <b>Anuj Jain</b> , Kazuo Matsuura, "Computational Study on Dynamic Stall and Flow Control in a Pitching Airfoil", <i>Proceedings of the 16th Asian Congress of Fluid Mechanics (16ACFM)</i> , Springer Professional, 13-17 December 2019, JNCASR, Bangalore (India), Paper ID: 16ACFM-5a. IC-67 L. Venkatakrisnan et al. (eds.), <i>Lecture notes in Mechanical Engineering</i> , Springer Nature 2021. pp. 1-10. <a href="https://doi.org/10.1007/978-981-15-5183-3_1">https://doi.org/10.1007/978-981-15-5183-3_1</a>
Dec 2019	Vivek Kumar Srivastav, <b>Anuj Jain</b> , Akshoy Ranjan Paul, "Computational Studies of Aerosolized Drug Deposition in Human Respiratory Tract", <i>Proceedings of the 16th Asian Congress of Fluid Mechanics (16ACFM)</i> , Springer Professional, 13-17 December 2019, JNCASR, Bangalore (India), Paper ID: 16ACFM-5b. IC-66, L. Venkatakrisnan et al. (eds.), <i>Lecture notes in Mechanical Engineering</i> , Springer Nature 2021. pp. 11-23. <a href="https://doi.org/10.1007/978-981-15-5183-3_2">https://doi.org/10.1007/978-981-15-5183-3_2</a>
Dec 2019	Bholu Kumar, Vivek Kumar Srivastav, <b>Anuj Jain</b> , Akshoy Ranjan Paul, "Study of Numerical Schemes for the CFD Simulation of Human Airways", <i>The International Journal of Integrated Engineering</i> , vol. 11, no.8, pp. 32-40, Universiti Tun Hussein Onn Malaysia Publishers, <b>SCOPUS-15</b> , Impact Factor: 1.02, IJ-38, SERB SR/S3/MERC/0073/2012
Dec 2019	Sushil Kumar Singh, Deepak Singh, Abhishek Kumar., <b>Anuj Jain</b> , "An Analysis of Mechanical and Viscoelastic Behaviour of Nano-SiO <sub>2</sub> Dispersed Epoxy Composites", <i>Silicon</i> , Dec 2019, 12(10), pp. 2465-2477, Springer, <b>SCIE-19&amp; SCOPUS</b> , Impact Factor: 1.21 DOI: 10.1007/s12633-019-00335-x, IJ-37
Nov 2019	Shikhar Kumar Singh, Akshoy Ranjan Paul, Suvanjan Bhattacharyya, Anuj Jain, "Heat Transfer in Microtube and Wavy Channel using Nanofluid and Hybrid Nanofluid", <i>National</i>
Nov 2019	

- Conference on Industrial Applications of Nanoscience & Nanotechnology, MNNIT Allahabad, Prayagraj, pp.N.A., 11/2019, Published by MNNIT Allahabad, NC-33
- Anurag Tiwari, Siddharth Sharma, Vivek Kumar Srivastav, Anuj Jain, "Computational Study on Pressurized Metered Dose Inhaler", National Conference on Sustainable and Recent Innovation in Science & Engineering (SINRISE2019), Motihari(Bihar), pp.ISBN: 978-, 11/2019, NC-32
- Sep-Oct 2019 Vivek Kumar Srivastav, Akshoy Ranjan Paul and **Anuj Jain**, "Computational Study of Drug Delivery in Tumorous Human Airways", **International Journal of Computing Science and Mathematics**, vol 10, no. 5, pp. 459-475., Sep-Oct 2019, **SCOPUS-14**.DOI: 10.1504/IJCSM.2019.103676, IJ-36SERB SR/S3/MERC/0073/2012 and UPCST CST/ECT/D-268
- Jun 2019 Atiq Ur Rehman, Akshoy Ranjan Paul, **Anuj Jain**, "Performance Analysis and Cavitation Predication of Centrifugal Pump using Various Working Fluids", **Recent Patents on Mechanical Engineering**, vol.12, issue 3, pp. 227-239, June 2019, **SCOPUS-13**, DOI: 10.2174/2212797612666190619161711, IJ-35
- Jun 2019 Vivek Kumar Srivastav, Akshoy Ranjan Paul, **Anuj Jain**, " Capturing the Wall Turbulence in CFD Simulation of Human Respiratory Tract.", **Mathematics and Computers in Simulation**, Vol. 160, Pages 23-38, June 2019, **SCI-18, Scopus**, Impact factor: 1.409, DOI: 10.1016/j.matcom.2018.11.019, IJ-34SERB SR/S3/MERC/0073/2012
- Apr 2019 Yadav KrishnaKumar Rajnath, Akshoy Ranjan Paul, **Anuj Jain**, "Flow Management in a Double-Offset Transitional Twin Air-Intake at Different Inflow Conditions", **Recent Patents on Mechanical Engineering**, Vol. 12, No. 2, pp. 168-179, April 2019, Bentham Science **SCOPUS-12**. <https://doi.org/10.2174/2212797612666190422145940>, Impact factor: DOI: 10.2174/2212797612666190422145940, IJ-33
- Apr 2019 Ashutosh Kumar Jaiswal, Atiq Ur Rehman, Akshoy Ranjan Paul, **Anuj Jain**, " Detection of Cavitation through Acoustic Generation in Centrifugal Pump Impeller", **Journal of Applied Fluid Mechanics**, Vol. 12, No. 4, pp. 1103-1113, April 2019, **SCI-17, SCOPUS**.DOI: 10.29252/jafm.12.04.29501, IJ-32
- 2019 Akshoy Ranjan Paul, **Anuj Jain**, Firoz Alam, "Drag reduction of a passenger car using flow control techniques", **International Journal of Automotive Technology, Springer**, vol 20, no. 2, April 2019 , pp. 397-410. **SCI-16, SCOPUS**.DOI: 10.1007/s12239-019-0039-2, IJ-31
- 2019 Shubham Deshmukh, Sourodeep Bhattacharya, **Anuj Jain**, Akshoy Ranjan Paul, "Wind turbine noise and its mitigation techniques: A review", **Energy Procedia**, vol 160, pp. 633-640, Feb 2019 **SCOPUS C -10**, DOI: 10.1016/j.egypro.2019.02.215, IC-65
- 2018 Sushil Kumar Singh, Abhishek Kumar and **Anuj Jain**, "Effect of nanoparticles dispersion on viscoelastic properties of epoxy–zirconia polymer nanocomposites", IOP Conf. Series: Materials Science and Engineering, 330, 012001.April 2018, DOI: 10.1088/1757-899X/330/1/012001, **SCOPUS C-9**. revised paper of International Conference on Recent Advances in Materials, Mechanical and Civil Engineering (ICRAMMCE-2017) held at Marri Laxman Reddy Institute of Technology and Management, Hyderabad during June 01-02, 2017, IC-64
- 2018 Akshay Tiwari, Akshoy Ranjan Paul, **Anuj Jain**, "Heat Transfer of Alumina-Water Nanofluid in Microtube with Scaling Effects", 7th International and 45th National Conference of Fluid Mechanics and Fluid Power (FMFP-2018), 10-12 Dec 2018, IIT Bombay, Mumbai, Paper no 364. IC-63
- 2018 Aviral Prakash, Amit Kumar, Vikas Bahuguna, Sunil Rizal, Shoaib Ahmed, Anurag Tiwari, Akshoy Ranjan Paul, **Anuj Jain**, "A Comparative Study of Drug Deposition Efficiency of Dry Powder Inhalers", 7th International and 45th National Conference of Fluid Mechanics and Fluid Power (FMFP-2018), 10-12 Dec 2018, IIT Bombay, Mumbai, Paper no: 794. IC-62
- 2018 Bipin Kumar, Shubham Kumar, Nithish Kumar, V.K. Srivastav, A.R. Paul, **Anuj Jain**, Computational Fluid Dynamics Studies of Two Dimensional Human Lung, Book of Abstracts of International Conference on Applied and Computational Mathematics, 23-25 Nov. 2018, IIT Kharagpur, p. 53. IC-60
- 2018 Digamber Singh, **Anuj Jain**, A.R. Paul, "Ambient Air Quality Index Effect on Deposition of Respirable Suspended Particulate Matter (PM2.5 and PM10) in Human Upper Respiratory Tract under Asymmetric Spirometry Flow", 2nd International Conference on Recent Advances in Materials and Manufacturing, 19-20, Nov. 2018, MLRITM Hyderabad. IC-59
- 2018 Digamber Singh, Anuj Jain, A.R. Paul ; Novel Assessment of Toxic Particles Deposition in Respiratory Tract under Poor Air Quality Index (AQI), National Seminar on Emerging Trends in Engineering Technology, Sciences, Management and Education, Sept. 18, 2018, Amity University Lucknow. (received **Best paper award**) NC-31

- 2018 Sushil Kumar Singh, Abhishek Kumar and **Anuj Jain**, "Influence of Filler Dispersion on the mechanical Behavior of ZrO<sub>2</sub> Dispersed Epoxy Nanocomposites" in conference "SWAYAM – 2018" organized by BITS Pilani, K.K.Birla Goa Campus, held during 04th-06th July, 2018. NC-30
- 2018 Sushil Kumar Singh, Abhishek Kumar and **Anuj Jain**, Improving tensile and flexural properties of SiO<sub>2</sub>-epoxy polymer nanocomposite. **Materials Today**: Proceedings, vol 5, no. 2, Part 1, pp. 6339-6344 **Elsevier**, Impact Factor: 0.694, ISSN: 2214-7853, DOI: 10.1016/j.matpr.2017.12.243, **SCOPUS C-8**. Revised version of International conference on Materials Processing and Characterization (ICMPC-2017) organized by GRIET Hyderabad, during 17-19 March, 2017, IC-58
- 2017 Sushil Kumar Singh, Samarjit Singh, Abhishek Kumar and **Anuj Jain**, "Thermo-mechanical behaviour of TiO<sub>2</sub> dispersed epoxy composites", **Engineering Fracture Mechanics**, 184, 241-248, September 2017, Elsevier, **SCI-15, Scopus**, Impact Factor: 2.705, DOI:10.1016/j.engfracmech.2017.09.005, IJ-30
- 2017 Paruchuru, S. P., Kumar, V. U., **Jain, A.**, and Dong, X. N., "*Comparative Estimates of Uncertainty in Measurements of Fracture Toughness*," ASTM International **Journal of Testing and Evaluation**, Volume 45, Issue 4 (July 2017). pp. 1139-1149. **SCI-14, Scopus**, Impact factor: 0.471 (doi:10.1520/JTE20160080 / Vol. 45 / No. 4 / July 2017 / available online at www.astm.org) (Published online in April 2016, DOI:10.1520/JTE20160080. ISSN 0090-3973.) IJ-29
- 2017 Ashish Mishra, Akshoy Ranjan Paul, **Anuj Jain**, Effects of Actuation Frequency and Taper angle of Synthetic Jet for Micro-channel Cooling, Proceedings of the 24th National and 2nd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTTC-2017), 27-30 Dec. 2017, Hyderabad (India), Paper ID: IHMTTC2017-0739. IC-57
- 2017 Yadav KrishnaKumarRajnath, Akshoy Ranjan Paul, **Anuj Jain**, "Flow Characteristics and Performance of a Double-Offset, Transitional Twin Air-Intake at Different Inflow Conditions", Proceedings of the 44th National Conference on Fluid Mechanics and Fluid Power (FMFP-2017), 14-16 Dec. 2017, Kollam (Kerala), Paper ID: 253. NC-29
- 2017 Akshoy Ranjan Paul, **Anuj Jain**, "An Overview of the Fluid Dynamics Study on Human Respiratory Tract", Proceedings of the 44th National Conference on Fluid Mechanics and Fluid Power (FMFP-2017), 14-16 Dec. 2017, Kollam (Kerala), Thematic paper. NC-28
- 2017 Akshoy Ranjan Paul, **Anuj Jain**, "Energy and Environment for Sustainable Development", Proceedings of the 44th National Conference on Fluid Mechanics and Fluid Power (FMFP-2017), 14-16 Dec. 2017, Kollam (Kerala), Thematic paper. NC-27
- 2017 Sushil Kumar Singh, Abhishek Kumar and **Anuj Jain**, "Unveiling the impact of ZrO<sub>2</sub> dispersion over the mechanical behavior of epoxy resin", NMD-ATM 2017 at Pune (The Indian Institute of Metals), November 11-14, 2017. NC-26
- 2017 Deepak Singh, Sushil Kumar Singh, Abhishek Kumar and **Anuj Jain**, "A Finite Element Approach to Determine Young's Modulus of Epoxy-Silica Nanocomposite", NMD-ATM 2017 at Pune (The Indian Institute of Metals), November 11-14, 2017. NC-25
- 2017 Atiq Ur Rehman, Vinoth Kumar K., **Anuj Jain**, Akshoy Ranjan Paul, "Performance and Cavitation Prediction in an Industrial Centrifugal Pump for Different Working Fluids", First International Conference on Thermal and Fluid Engineering (ICTF-2017), 3-5 July 2017, Phuket (Thailand), pp. 36-42, ISBN No. 978-605-9546-05-6. IC-56
- 2017 Yadav KrishnaKumar Rajnath, Ravi Kumar Singh, **Anuj Jain**, Akshoy Ranjan Paul, "Effects of Inlet Swirl on the Performance of Twin Air-Intake Duct", Proceedings of First International Conference on Thermal and Fluid Engineering (ICTF-2017), 3-5 July 2017, Phuket (Thailand), pp. 1-7, ISBN No. 978-605-9546-05-8. IC-55
- 2017 Yadav KrishnaKumarRajnath, **Anuj Jain**, Akshoy Ranjan Paul, "Modelling and Simulation of Turbulent Flow Control in Twin Air-Intake Duct using Synthetic Jets", Proceedings of the International Conference on Computational Modelling and Simulation-2017, 17-19 May 2017, Colombo (Sri Lanka), ISBN No. 978-955-703-011-41. IC-54
- 2017 Bandana Rajpoot, Sushil Kumar Singh, Abhishek Kumar, and **Anuj Jain**, "Development of SiO<sub>2</sub>-epoxy nano-composites and their thermo-mechanical properties", International Conference on Nanomaterials and Nanotechnology (ICNANO-2017) organised by International Association of Advanced Materials (IAAM) in collaboration with VBRI Press AB, Sweden during 01 - 03 March, 2017 at Vinoba Bhave Research Institute, Allahabad, India. IC-53
- 2017 Sushil Kumar Singh, Amit Kumar, Samarjit Singh, Abhishek Kumar\* and **Anuj Jain**Effect Of Surface Treatment Of SiO<sub>2</sub>-Nanoparticles On Mechanical Properties Of Epoxy-

- Nanocomposites, Proceedings of International Conference in Emerging Trends in Nano Material Science and Technology, 4-6 Jan 2017 at NIT Nagaland. IC-52
- 2016 Sristi V.R.L.B. Srivani, Sushma C., Akshoy Ranjan Paul and **Anuj Jain**, "Computational Study on Pneumatic Capsule Pipeline (PCP)", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-51
- 2016 Swapnil LokramKombe, Pankaj Bharti, Akshoy Ranjan Paul and **Anuj Jain**, "Effects of Inter-Capsule Space and Geometric Parameters on Capsule Train in a Hydraulic Capsule Transport Pipeline", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-50
- 2016 Abhishek Gupta, Ajay Kumar Jaiswal, Akshoy Ranjan Paul and **Anuj Jain**, "Flow Separation Control Over NACA2412 Wing using Air Slots", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-49
- 2016 Anoop Singh, Ashish Mishra, Akshoy Ranjan Paul and **Anuj Jain**, "Effects of Orifice Shape and Frequency of a Synthetic Jet Actuator for Heat Transfer Enhancement of a Flat Plate", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-48
- 2016 Vivek Kumar Srivastav, Bholu Kumar, **Anuj Jain** and Akshoy Ranjan Paul, "A Computational Study on Airflow in Human Respiratory Tract at Normal and Heavy Breathing Conditions", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-47SERB: SR/S3/MERC/0073/2012
- 2016 Deepak Kumar Singh, **Anuj Jain** and Akshoy Ranjan Paul, "Active Flow Control on NACA23012 Airfoil using Combined Action of Synthetic Jet and Continuous Jet", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-46
- 2016 Rakesh Kumar, Neeraj Shukla, Akshoy Ranjan Paul and **Anuj Jain**, "CFD Simulation of Cerebrospinal Fluid Flow In Human Ventricular System", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-45
- 2016 Stuti Mishra, Akshoy Ranjan Paul, **Anuj Jain** and Rakesh Mishra, "Optimal Sizing of an Ovoid Duct Transporting Solid-Liquid Mixtures", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-44
- 2016 Atiq Ur Rehman, Pankaj Yadav, Akshoy Ranjan Paul and **Anuj Jain**, "Effect of Number of Blades on Performance of a Centrifugal Pump", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-43
- 2016 Ashish Kumar Mishra, Atiq Ur Rehman, Akshoy Ranjan Paul and **Anuj Jain**, "Performance Analysis of an Impeller of a Centrifugal Pump using OpenFOAM", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-42
- 2016 Digamber Singh, Bholu Kumar, **Anuj Jain** and Akshoy Ranjan Paul, "Effects of Physical Structure of Nasal Cavity and Nasopharynx on Airflow Field in Human Upper Airways", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-41
- 2016 Kamran Ashraf, Ajita Gupta, Miryala Karthik, Akshoy Ranjan Paul and **Anuj Jain**, "Control of Flow Separation around a Cylinder using DBD Plasma Jet Actuator", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-40
- 2016 Ashish K. Mishra, Kaushal K. Mishra, **Anuj Jain**, A. R. Paul and B.B. Gulyani, "A Computational Study on Solar Desalination Unit", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7. IC-39
- 2016

- Laszlo E. Kollar, Rakesh Mishra and **Anuj Jain**, "Inverse Design of Blade Shapes for Vertical Axis Wind Turbines", Proceedings of 6th International and 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016) 15-17 Dec. 2016, MNNIT Allahabad (India). ISBN No. 978-93- 5267-407-7, IC-38
- 2016 Paruchuru S.P., **Jain, Anuj.**, Dong, X. N., *Loading Rate Requirements of a Compact Sandwich Test for Fracture Toughness Testing of Bone and Biomaterials* , **Trends in Biomaterials & Artificial Organs**, Vol 30, No 2, Aug 2016, pp. 95-99, Society of Biomaterials and Artificial Organs, ISSN 0971-1198, **SCOPUS-11**IMPACT FACTOR 0.792, IJ-28
- 2016 Taimoor Asim, Rakesh Mishra, Sufyan Abushaala, **Anuj Jain**, *Development of a design methodology for hydraulic pipelines carrying rectangular capsules*, **International Journal of Pressure Vessels and Piping**, Vol. 146, pp. 111-128, Oct 2016. Elsevier B.V., **SCI-13**, **Scopus**, Impact Factor: 1.432, DOI: 10.1016/j.ijpvp.2016.07.007, IJ-27
- 2016 BholuKumar, Digamber Singh, Vivek Kr. Srivastava, Prof. Anuj Jain, Dr.A.R.Paul; A Computational Analysis of Smoke Particle Deposition in Simplified and CT- Scan Based Human Trachea Under Inspiratory Flow, International Conferences on Biomedical Engineering & Supportive Technologies BEST- 2016, BIET Jhansi, 2-3 Sep, 2016. IC-37SERB: SR/S3/MERC/0073/2012
- 2016 Sushil Kumar Singh, Samarjit Singh, Raunak Kohli, **Anuj Jain** and Abhishek Kumar, "Effect of TiO<sub>2</sub> Dispersion on Mechanical Properties of Epoxy Polymer", American Institute of Physics Conf. Proc. 1728, pp. 020586:1–6; May 2016. (DOI:10.1063/1.4946637) 978-0-7354-1375-7, **SCOPUS C-7**. of International Conference on Condensed Matter & Applied Physics (ICC-2015) held at Bikaner (Rajasthan) India during October 30-31, 2015. IC-36
- 2016 Deepak Kumar Singh, **Anuj Jain**, Akshoy Ranjan Paul, *Computational study on convective heat transfer from a flat plate subjected to cross flow and normal synthetic jet*, **International Journal of Scientific Development and Research**, Volume 1, Issue 4, pp. 183-190, April 2016, IJSDR India, Impact factor: 5.47. IJ-26
- 2015 Atiqur Rehman, Shivam Srivastava, **Anuj Jain**, Rakesh Mishra, *Effect of Blade Trailing Edge Angle on the Performance of a Centrifugal Pump Impeller*, 28th, International Congress of Condition Monitoring and Diagnostic Engineering, 10th Regional Congress on Non Destructive and Structural Testing, At Buenos Aires, Argentina., Volume: COMADEM 1st - 4th December 2015. IC-35
- 2015 SubhashisNandy, Atiq Ur Rehman, **Anuj Jain**, \*, Rakesh Mishra, and R.K. Tripathi, Flow Diagnostics in Centrifugal Pumps by Motor Current Signature Analysis, 28th, International Congress of Condition Monitoring and Diagnostic Engineering, 10th Regional Congress on Non Destructive and Structural Testing, At Buenos Aires, Argentina., Volume: COMADEM 1st - 4th December 2015. IC-34
- 2015 Krishna Brij, **Anuj Jain**, Ajaya Bharti, "*Effect of Room Temperature Rolling and Cryogenic Rolling on 2024-Al Alloy*", 6<sup>th</sup> International Conference of International Scientific Academy of Engineering & Technology (ISAET) on Manufacturing and Industrial Engineering (ICMIE'15), Oct 11-12, 2015, Dubai, UAE (**Received Best Paper Award**). IC-33
- 2015 Atiqur Rehman, Subhash Shinde, Akshoy Ranjan Paul, **Anuj Jain**, *Effects of Discharge on the Performance of an Industrial Centrifugal Pump*, Proceedings of 2015 International Conference on Computing Techniques and Mechanical Engineering (ICCTME'2015), At Phuket, October 2015. IC-32
- 2015 Brijesh K. Singh, RituSirohi, D. Archana, **Anuj Jain**, P. K. Dutta, "Porous Chitosan Scaffolds: A Systematic Study for Choice of Crosslinker and Growth Factor Incorporation", **International Journal of Polymeric Materials and Polymeric Biomaterials**. Taylor and Francis, vol 64, pp. 242-252. **SCIE-12**, **Scopus**, Impact factor: 1.667, DOI: 10.1080/00914037.2014.936596, IJ-25
- 2015 Z. Vakil, A. Kumar, **Anuj Jain**, K.M. Gupta, Mohd. Najim, D. Singh, "*Effect of Cerium (Ce<sup>3+</sup>) doping on structural, magnetic and dielectric properties of Barium Ferrite ((BaFe<sub>12</sub>O<sub>19</sub>)*", IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT-2015), March 5-7, 2015, SVS College of Engineering, Coimbatore, India. **Scopus C-6**. DOI: 10.1109/ICECCT.2015.7225982, IC-31
- 2015 Sagar Dasgupta, **Anuj Jain**, Neeraj Kumar Singh, "*An Evaporative Air Cooler and Desiccant Wheel Based Air Conditioning for Humid Regions of India*", **International Journal of Applied Engineering Research (IJAER)**, vol. 10, no.19, pp. 14375-78, 2015, **SCOPUS-10**, earlier published in 1st International Conference on Advanced Engineering and Technology for Sustainable Development (ICAETSD 2015), March 5-6, 2015, Coimbatore, India. IJ-24,

- 2015 Sagar Dasgupta, **Anuj Jain**, A.R. Paul, "*Sinusoidal Delta Wing: Challenges and Opportunities*", **Journal of Aeronautical and Automotive Engineering**, vol. 2, no. 1, pp. 6-10. NJ-3
- 2015 Amit Kumar Yadav, Syed Danish Abbas, Ramsumukh Shukla, **Anuj Jain**, A.R. Paul, "*Advances in Aerodynamic Aspects of Serpentine Air-Intakes: A Review*", **Journal of Aeronautical and Automotive Engineering**, vol. 2, no. 1, pp. 16-21. NJ-3
- 2015 Bholu Kumar, Sumit Malik, Vivek Kumar Srivastav, Akshoy Ranjan Paul, **Anuj Jain**, "*Numerical Studies of Toxic-Particle Deposition in the Sixth Generation Human Respiratory Tract*", Proc. in the National Conference on Emerging Trends in Physics of Fluids & Solids (NCETPFS-2015), Feb. 24-25, 2015, Jadavpur University, India. NC-24
- 2015 Z. Vakil, Abhishek Kumar, **Anuj Jain**, K.M. Gupta, "Design and Simulation of thin film based self biased Coplanar Isolator", National Conference on Recent Advances in Electronics & Computer Engineering (RAECE-2015), February 13-15, 2015, Indian Institute of Technology Roorkee, India. NC-23
- 2014 Shilpee Roy, Anurag Kulshrestha, **Anuj Jain**, Akshoy Ranjan Paul, "*Computational Analysis of Drag Reduction for a Hatchback Car*", Proceedings of the International Conference on Advanced Computational Technologies and Creative Media (ICACTCM-2014), August 14-15, 2014, Pattaya (Thailand), Paper ID:E0814507, pp.94-98, ISBN: 978812965345 (**Recipient of Best Paper Award**). IC-30
- 2014 Shwetambaram, **Anuj Jain**, Z. Vakil, *Synthesis of Zinc-Copper Nano-Ferrite and Characterization of their Structural, Electrical and Magnetic Behaviors*, **International Journal of ChemTech Research**, Vol. 6, No. 3, pp. 2207-2209, May-June 2014, Impact Factor: 0.725. IJ-23
- 2014 Vivek K. Srivastav, Amit Kumar, Shashank K. Shukla, Akshoy R. Paul, Amba D. Bhatt, **Anuj Jain**, *Airflow and Aerosol-Drug Delivery in a CT Scan based Human Respiratory Tract with Tumor using CFD*, **Journal of Applied Fluid Mechanics**, Vol. 7, No. 2, April 2014. **SCI-11, Scopus**, Impact Factor: 0.725, IJ-22
- 2013 Vivek K. Srivastav, AkshoyRanjan Paul, **Anuj Jain**, "*Effects of Cartilaginous Rings on Airflow and Particle Transport through Simplified and Realistic Human Upper Respiratory Tracts*", **ActaMechanicaSinica (Springer)**, vol. 29, no. 6, pp. 883-892, 2013. DOI: 10.1007/s10409-013-0086-2, **SCI-10, Scopus**, Impact Factor 1.369, IJ-21
- 2013 Shrey Joshi, Aman Jindal, Vikrant S. Yadav, Prakhar K. Tiwari, Akshoy R. Paul, **Anuj Jain**, "*Calibration Methodology of Wall Shear Stress Sensor*", Proceedings of 40th National Conference on Fluid Mechanics & Fluid Power (FMFP-2013), 12-14 December 2013, NIT Hamirpur, Himachal Pradesh, Paper code: 290. NC-22
- 2013 Shashank Kumar Shukla, Vivek Kumar Srivastav, AkshoyRanjanPaul,**Anuj Jain**, "*Computational Study of Aerosol Drug Deposition on Tumorous Human Airway Model*", Proceedings of 40th National Conference on Fluid Mechanics & Fluid Power (FMFP-2013), 12-14 December 2013, NIT Hamirpur, Himachal Pradesh, Paper code: 148. NC-21
- 2013 Deepak Kumar Kalyan, Atiq Ur Rehman, AkshoyRanjan Paul, **Anuj Jain**, "*Computational Flow Analysis through a Double-Suction Impeller of a Centrifugal Pump*", Proceedings of 40th National Conference on Fluid Mechanics & Fluid Power (FMFP-2013), 12-14 December 2013, NIT Hamirpur, Himachal Pradesh, Paper code: 141. NC-20
- 2013 Z. Vakil, **Anuj Jain**, K.M. Gupta, Santosh Srivastava "*Magnetic Characterization of a Novel Ferrite Nanoparticles*", Proceedings of the International Conference on Nano and Composite Engineering (ICNCE 2013), 22-28 July 2013, Spain. IC-29
- 2013 NithinHegde, Prakhar Kant Tiwari, AkshoyRanjan Paul and **Anuj Jain**, Investigation of *Flow Control in Transition Air-Intake using Synthetic Jet Actuators*, Proc. of Indian Conference on Applied Mechanics (INCAM-2013) at IIT Madras, July 4-6, 2013, paper code: FM\_13. NC-19
- 2013 Vivek K. Srivastav, Arvind K. Verma, Vikrant S. Yadav, Akshoy R. Paul, **Anuj Jain**, "*Studies of Laminar Flow through a Bifurcated Human Respiratory Tract*", Proc. of Indian Conference on Applied Mechanics (INCAM-2013) at IIT Madras, July 4-6, 2013, paper code: FM\_1. NC-18
- 2013 AkshoyRanjan Paul, Shrey Joshi, Aman Jindal, Shivam P. Maurya, **Anuj Jain**, *Experimental Studies of Active and Passive Flow Control Techniques Applied in a Twin Air-Intake*, **The Scientific World Journal**, vol. 2013, Article ID 523759, 8 pages, 2013. DOI:10.1155/2013/523759. **SCOPUS-9**, Impact factor 1.73, IJ-20
- 2013 AtiqUrRehman, SubhashShinde, Vikash K. Singh, Akahoy R. Paul, **Anuj Jain**, Rakesh Mishra, *CFD based condition monitoring of centrifugal pumps*, Proceedings of International Congress COMADEM 2013, 11-13 June 2013, Helsinki, Finland, ISBN 9789526798103. IC-28

- 2013 **Anuj Jain**, Ravi Kant Baranwal, Ajaya Bharti, Z. Vakil, and C. S. Prajapati, *Study of Zn-Cu Ferrite Nanoparticles for LPG Sensing*, **The Scientific World Journal**, Volume 2013, Article ID 790359, 7 pages, DOI:10.1155/2013/790359 **SCOPUS-8** Impact factor 1.73, IJ-19
- 2013 Subhash Shinde, Akshoy Ranjan Paul, **Anuj Jain**, "CFD Analysis of Viscous Flow over Delta-Rectangular Wing", Proc. of 2nd Students' Conference on Engineering and Systems (SCES 2013), MNNIT Allahabad, 12-14 April 2013, ISBN: 978-1-4673-5629-9. **Scopus C-5**. DOI: 10.1109/SCES.2013.6547537, IC-27
- 2013 Rachna David, Vivek Kumar Srivastav, Akshoy Ranjan Paul, **Anuj Jain**. Computational Study of Image Based Human Left Coronary Artery. Recent Advances in Technology and Engineering (RATE-2013) March 15-17, 2013. Mangalaytan University, Aligarh. NC-17
- 2013 Akshoy Ranjan Paul, Shrey Joshi, Aman Jindal, Shivam P. Maurya, Prabhakar K. Tiwari, **Anuj Jain**, *Effects of Upstream Rod's Shape on Drag on a Square Cylinder*, Proc. of International Conference of PSRC on Mechanical, Automotive and Materials Engineering (ICMAME'2013), 26-27 Jan 2013 **Hongkong**, Paper ID: 113811, pp. 35-40, ISBN: 978-93-82242-23-9. IC-26
- 2013 Akshoy Ranjan Paul, Pritanshu Ranjan, Vivek Kumar Patel, **Anuj Jain**, *Comparative Studies on Flow Control in Rectangular S-Duct Diffuser using Submerged-Vortex Generators*, **Aerospace Science and Technology** (An Elsevier Journal), vol 28, no.1, pp. 332-343, July 2013, ISSN: 1270-9638 **SCI-9**, **Scopus**, Impact Factor: 1.487, DOI: 10.1016/j.ast.2012.11.014, IJ-18
- 2012 Vivek Kumar Srivastav, Akshoy Ranjan Paul, **Anuj Jain**, *CFD Simulation of Airflow and Particle Deposition in Third to Sixth Generation Human Respiratory Tract*, Proceedings of 39th National Conference on Fluid Mechanics & Fluid Power (FMFP-2012), 13-15 December 2012, Surat, Gujarat, Paper code: 245, ISBN: 9788192549408. NC-16
- 2012 Akshoy Ranjan Paul, Ashish Mittal, **Anuj Jain**, *Slotted flow separation control over a NACA2412 airfoil*, Proceedings of 39th National Conference on Fluid Mechanics & Fluid Power (FMFP-2012), 13-15 December 2012, Surat, Gujarat, Paper code: 039, ISBN: 9788192549408. NC-15
- 2012 Akshoy Ranjan Paul, Ramakant Pandey, Aman Jindal, Prakhar Kant Tiwari, **Anuj Jain**, "Studies of Drag on Square Cylinder with Upstream Rod in Staggered Arrangement", Proceedings of 6th National Conference on Wind Engineering (NCWE-2012), 14-15 December 2012, New Delhi, Paper ID: 1207, pp. 169-179, ISBN: 9788192554808. NC-14
- 2012 Ramesh Pandey, A.K. Upadhyaya, K.K. Shukla, **Anuj Jain**, "Nonlinear Dynamic Response of Elastically Supported Laminated Composite Plates", **Mechanics of Advanced Materials and Structures**. vol. 19, no. 6, pp. 397-420, June 2012. Posted online: 14 Mar 2012 ISSN: 1537-6494 **SCI-8**, **Scopus**, Impact Factor: 0.926, DOI: 10.1080/15376494.2010.528161, IJ-17
- 2011 Akshoy Ranjan Paul, Shrey Joshi, Aman Jindal, Ajit Verma, Shivam P. Maurya, **Anuj Jain**, "Active Flow Control in Twin Air-Intake using Vortex Generators Jets", Proceedings of the 9th International Conference on Mechanical Engineering (ICME-2011), 18-20 December 2011, Dhaka, Bangladesh, Paper Code: ICME11-FL-024. IC-25
- 2011 Vivek Kumar Srivastav, **Anuj Jain**, Akshoy Ranjan Paul, Shrey Joshi, "CFD Modelling of Airflow in Human Respiratory System", Proceedings of the 9th International Conference on Mechanical Engineering (ICME-2011), 18-20 December 2011, Dhaka, Bangladesh, Paper Code: ICME11-FL-09. IC-24
- 2011 Akshoy R. Paul, Pradip K. Niranjana, Shrey Joshi, Ajit Verma, **Anuj Jain**, "Computational Analysis of a Rear Spoiler on a Sedan Car", Proceedings of the 38th National Conference on Fluid Mechanics and Fluid Power, M.A.N.I.T. Bhopal, India, Dec. 13-15, 2011, Paper code: CFD-13. NC-13
- 2011 Akshoy R. Paul, Shrey Joshi Aman Jindal, Shivam P. Maurya, **Anuj Jain**, "Comparison of Active and Passive Flow Controls: A Case Study in Bifurcated Air-Intake", Proceedings of the 38th National Conference on Fluid Mechanics and Fluid Power, M.A.N.I.T. Bhopal, India, Dec. 13-15, 2011, Paper code: FP-04. NC-12
- 2011 Vivek Kumar Srivastav, Amit Kumar, **Anuj Jain**, Akshoy Ranjan Paul, "CFD Modelling of Bifurcated Human Airways", Proceedings of the 38th National Conference on Fluid Mechanics and Fluid Power, M.A.N.I.T. Bhopal, India, Dec. 13-15, 2011, Paper code: CFD-07. NC-11
- 2011 Vivek Kumar Srivastav, **Anuj Jain**. "Wall Shear Stress Study of Airflow in Realistic Human Airways Model: A CFD Analysis". International Conference on Advances in Modeling, Optimization and Computing (AMOC-2011). Dec. 5-7, 2011, IIT Roorkee, India. pp. 362-367, ISBN: 9788186224748. IC-23

- 2011 Vivek Kumar Srivastav, Akshoy Ranjan Paul and **Anuj Jain**, "Computational Fluid Dynamics Study of Airflow and Particle Transport in Third to Sixth Generation Human Respiratory Tract", **International Journal of Emerging Multidisciplinary Fluid Sciences**, vol. 3, no. 4, pp. 227-234, September 2011. **SCOPUS-7**, DOI: 10.1260/1756-8315.3.4.227, IJ-16
- 2011 AkshoyRanjan Paul, Ravi RanjanUpadhyay, **Anuj Jain**, "A Novel Calibration Algorithm for Five-hole Pressure Probe", **Int. Journal of Engineering, Science and Technology (IJEST)**, vol. 3, no. 2, pp. 89-95, July 2011. ISSN: 2141-2820, IJ-15
- 2011 DheerajSagar, AkshoyRanjan Paul, **Anuj Jain**, "CFD Investigation of Turbulent Separated Flows in Axisymmetric Diffusers", **Int. Journal of Engineering, Science and Technology (IJEST)**, vol. 3, no. 2, pp. 104-109, July 2011. ISSN: 2141-2820, IJ-14
- 2011 AkshoyRanjan Paul, PritanshuRanjan, Ravi RanjanUpadhyay, **Anuj Jain**, "Passive Flow Control in Twin Air-Intakes", Proceedings of WASET International Conference on Mathematical and Computational Methods in Science and Engineering (ICMCMSE 2011), **Paris, France**, June 24-26, 2011yr 7, issue 77, Article no. 56, pp. 297-304, print ISSN: 2010-376X.**Scopus C-4.IC-22**
- 2011 Bharat B. Gulyani,**Anuj Jain**, Shalendra Kumar, "Optimal Synthesis of Mutipass Heat Exchanger without resorting to Correction Factor", Proceedings of WASET International Conference on Mathematical and Computational Methods in Science and Engineering (ICMCMSE 2011), **Paris, France**, June 24-26, 2011yr 7, issue 77, Article no. 210, pp. 1190-1196, print ISSN: 2010-376X. **Scopus C-3.IC-21**
- 2011 AkshoyRanjan Paul, PritanshuRanjan, Ravi RanjanUpadhyay, **Anuj Jain**, "Flow Control in Twin Air-Intakes using Vortex Generators", Recent Researches in Applied and Computational Mathematics, pp. 107-116, WSEAS Press, ISBN: 9781618040022, Proceedings of International Conference on Applied and Computational Mathematics (ICACM '11), Lanzarote, Canary Islands, Spain, May 27-29, 2011. **Scopus C-2.IC-20**
- 2011 **AnujJain**,AkshoyRanjan Paul, S.K. Aggarwal, B. Mohanty, B.P. Mani, "A New Correlation for Holdup in Gas-Solids Cyclone", Recent Researches in Applied and Computational Mathematics, pp. 117-126, WSEAS Press, ISBN: 9781618040022, Proceedings of International Conference on Applied and Computational Mathematics (ICACM '11), Lanzarote, Canary Islands, Spain, May 27-29, 2011. **Scopus C-1. IC-19**
- 2011 AkshoyRanjan Paul, PritanshuRanjan, Vivek Kumar Patel, **Anuj Jain**, "Flow Control in Rectangular S-Duct Diffuser using Submerged Vortex Generators", **Int. Review of Aerospace Engineering**, Vol. 4, No. 2, pp. 76-86, April 2011. **ISSN: 1973 – 7459, SCOPUS-6, Impact Factor: 6.5, IJ-13**
- 2010 AkshoyRanjan Paul, PritanshuRanjan, Ravi RanjanUpadhyay, **Anuj Jain**, "Passive Flow Control through Y-shaped Air Intake using Submerged Vortex Generators", Proceedings of 5th International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM-2010), IIT Kharagpur, India, Dec 27-29, 2010, Paper No. 148, pp. 373-375, ISBN: 9789380813035. IC-18
- 2010 Ajay Pratap Singh, AkshoyRanjan Paul, Ravi RanjanUpadhyay, **Anuj Jain**, "Control of Turbulent Flow Separation over Humps in a Channel", Proceedings of 5th International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM-2010), IIT Kharagpur, India, Dec 27-29, 2010, Paper No. 301, pp. 740-742, ISBN: 9789380813035. IC-17
- 2010 DheerajSagar, AkshoyRanjan Paul, Ravi RanjanUpadhyay, **Anuj Jain**, "Aerodynamic Effects of Rear Spoiler and Vortex Generators on Passenger Cars", , Proceedings of 5th International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM-2010), IIT Kharagpur, India, Dec 27-29, 2010, Paper No. 311, pp. 760-762, ISBN: 9789380813035. IC-16
- 2010 AkshoyRanjan Paul, Ravi RanjanUpadhyay, **Anuj Jain**, "Influence of Overlap in Second Bends and Turning Angle on the Flow Characteristics of Y-shaped Air Intakes" Proceedings of 13th Asian Congress of Fluid Mechanics (ACFM-2010), Dhaka, Bangladesh, Dec. 17-21, 2010, Paper No. 154, vol. I, pp. 150-153, ISBN: 9789843322142. IC-15
- 2010 AkshoyRanjan Paul, PritanshuRanjan, Ravi RanjanUpadhyay, **Anuj Jain**, "Fluid control in Y shaped air intake using vortex generator" in Proc. of 4th International Conference on Fluid Mechanics and Fluid Power, I.I.T. Madras, India, Dec. 16-18, 2010, Paper No. FMFP-10-FP-5. IC-14
- 2010 Ravishankar L N ,**Anuj Jain**, AkshoyRanjan Paul, "CFD Analysis of Separation Efficiency in a Typical Cyclone Separator", Proc. of Modeling and Simulation in Heat Transfer and Fluid Flow (MSHTFF), National Institute of Technology, Jamshedpur, July 9-10, 2010, Paper No. MSHTFF-14. NC-10

- 2010 PunjLata Singh, **Anuj Jain**, PritanshuRanjan, “*Computational Study of the Effect of a Plane Boundary on Vortex Shedding of a Circular Cylinder*”, Proc. Of Golden Jubilee National Conference on Modelling and Simulation in Heat Transfer and Fluid Flow, NIT, Jamshedpur, July9-10, 2010. NC-9
- 2010 DheerajSagar, AkshoyRanjan Paul, PritanshuRanjan, **Anuj Jain**, “*Validation of turbulent separated flows in axisymmetric diffusers using CFD*”, Proc. of 5th National Conference on Applicable Mathematics in Wave Mechanics and Vibrations (5th WMVC-2010), Kakatiya University, Warangal, March 13-15, 2010, vol. I. NC-8
- 2010 AkshoyRanjan Paul, Ravi RanjanUpadhyay, **Anuj Jain**, “*Studies on calibration algorithms of five-hole pressure probe*”, Proc. of 5<sup>th</sup> National Conference on Applicable Mathematics in Wave Mechanics and Vibrations(5thWMVC-2010), Kakatiya University, Warangal, March 13-15, 2010, vol. I. NC-7
- 2009 Srivastava Rajeev, **Jain Anuj**, *Engineering Education Development in India a Model of Foundation Building for Freshman Engineering Student of 21<sup>st</sup> Century*, Conference on Technical Education for Leveraging Innovation and Entrepreneurship, 39<sup>th</sup> ISTE Annual Convention, NITK, Surathkal, Mangalore, India, Dec 18-20, 2009. NC-6
- 2009 Kumar Rajesh, Ravishankar L.N., **Jain Anuj**, *CFD Simulation of Air Flow in Cyclone Separator*, 1st Annual Conference on Enabling Technologies for Chemical Process Industries, IChE Kanpur Regional Centre, University Institute of Engineering and Technology, ChhatrapatiSahuJiMaharaj University, Kanpur, India, Nov 13-14, 2009. NC-5
- 2009 Pandey Ramesh, Shukla, K.K., **Jain, Anuj**, *Thermoelastic Stability of Laminated Composite Plates: An Analytical Approach*, **Communications in Nonlinear Science and Numerical Simulation**, Elsevier, vol. 14, 2009, pp. 1679-1699. ISSN 1007-5704 SCI-7, Scopus, IMPACT FACTOR 2.806, H Index: 35, DOI: 10.1016/j.cnsns.2008.02.010, IJ-12
- 2008 Paruchuru S.P., **Jain Anuj**, *Normalised Specimen Thickness Requirements of Compact Sandwich Test for Measuring Fracture Toughness of Bone*, **Journal of Applied Biomaterials and Biomechanics**, vol. 7, 2008, pp. 43-52. ISSN 1722-6899, SCI-6, Scopus, Impact factor; **0.761**, H Index: 11, IJ-11
- 2008 Pandey Ramesh, Shukla, K.K., **Jain, Anuj**, *Nonlinear Flexural Analysis of Laminated Composite Plates*, **International Journal of Applied Mechanics and Engineering**, vol. 13, no. 3, 2008, pp. 707-733. ISSN: 1425-1655, SCOPUS-5, IJ-10
- 2007 **Jain, Anuj**, *Reliability Analysis of Safety Systems in Nuclear Power Reactor*, National, Keynote address, Conference on Quality, Reliability and Maintainability Aspects in Engineering Systems (QRMAES-2007), NIT Hamirpur, India, Dec 27-28, 2007, pp. 30-39. NC-4
- 2007 Paruchuru, S, X. Dong, X. Wang, and **Jain Anuj**, *Mechanical Techniques for Measuring Properties of Cortical Bone*, National Conference of Medical Materials, IIT Chennai, India, Dec 13-14, 2007, NC-3
- 2007 Pandey, Ramesh, Shukla, K.K., Upadhyaya, A.K., **Jain, Anuj**, *Nonlinear Response of laminated Composite Plates under Hygromechanical Loading*, International Conference on Theoretical, Analytical, Computational and Experimental Mechanics (ICTACEM-2007), IIT Kharagpur, India, Dec 27-29, 2007, 402-404. IC-13
- 2007 Paruchuru S.P., and **Jain Anuj**, *Finite Element Modeling and Experimental Validation of Computational Procedures for a Fracture Mechanics based Bone Test Method*, **Trends in Biomaterials & Artificial Organs**, vol. 21, no. 1, July 2007, pp. 1-7. ISSN 0971-1198, SCOPUS-4, IMPACT FACTOR 0.792, H Index: 12, IJ-9
- 2007 Paruchuru S.P., **Jain Anuj**, Wang X., *Size Requirements of Compact Sandwich Specimen for Testing of Bone*, **Journal of Mechanics in Medicine and Biology**, vol. 7, no. 4, 2007, pp. 419-431. ISSN 0219-5194, SCI-5, IMPACT FACTOR 0.49. IJ-8
- 2006 Pandey, R., Shukla K.K., **Jain, Anuj**, *Post Buckling Response of Laminated Composite Rectangular Plates*, International Congress of Computational Mechanics and Simulation 2006 (ICCMS-06), IIT Guwahati, vol 1, Dec 8-10, 2006, 257-263. IC-12
- 2006 Bose, S., Singh B.N., **Jain, Anuj**, *Thermal Buckling of Laminated Composite Plate with Random Material Properties*, International Congress of Computational Mechanics and Simulation 2006 (ICCMS-06), IIT Guwahati, vol 1, Dec 8-10, 2006, 229-235. IC-11
- 2006 **Jain, Anuj**, Mohanty, B., Pitchumani, B., Rajan, K.S., *Studies on Gas-Solid Heat Transfer in Cyclone Heat Exchanger*, **ASME Journal of Heat Transfer**, vol 128, no 8, August 2006, pp.

- 761-768 ISSN: 0022-1481 SCI-4, Scopus, IMPACT FACTOR 1.83, DOI: 10.1115/1.2217748, IJ-7
- 2005 Singh C.V.K., Singh B.N., **Jain Anuj**, *Buckling of Random Smart Composite Plate using Thermo-Mechanical Piezoelectric Model*, International Conference On Computational And Experimental Engineering And Sciences 2005, IIT Chennai, Dec, 2005. IC-10
- 2004 Pandey Ramesh, Shukla K.K., **Jain Anuj**, *Nonlinear static analysis of laminated composite plates*, International Conference on Theoretical, Analytical, Computational and Experimental Mechanics (ICTACEM 2004), IIT Kharagpur, pp. 140-142, Dec, 2004. IC-9
- 2004 Ghunage Sunil, Singh B.N., **Jain Anuj**, *Free vibration of Laminated Composite Plate with Random Geometric Properties*, International Congress on Computational Mechanics and Simulation (ICCMS-02), IIT Kanpur, Dec, 2004. IC-8
- 2004 Shukla K.K., Patil Manoj, **Jain Anuj**, Pandey Ramesh, *Thermal Buckling of Functionally Graded Rectangular Plate*, 17<sup>th</sup> Engineering Mechanics Conference, University of Delaware, USA, June 12-14, 2004. IC-7
- 2003 Kumar, Shalendra, **Jain, Anuj**, Mohanty, B., Gupta, S.C., *Recirculation Model of Kettle Reboiler*, **International Journal of Heat and Mass Transfer**, Elsevier, vol. 46, no. 15, May-June, 2003, pp. 2899-2909, ISSN: 0017-9310, IMPACT FACTOR 2.913, H Index: 96 SCI-3, Scopus., IJ-6
- 2001 **Jain, Anuj**, Mohanti B., *Modelling of Non-Newtonian flow through Pipe Network*, International Conference on Mathematical Modelling, University of Roorkee, Roorkee, India, Jan 29-31, 2001. IC-6
- 2000 Kumar, Shalendra, **Jain, Anuj**, Gupta S.C., Mohanty, B., *Boiling Heat Transfer From a Vertical row of Horizontal Reentrant Cavity tubes*, ASME - ZSITS International Thermal Science Seminar, Bled, Slovenia, 11-14 June 2000. IC-5
- 2000 Gulyani, B.B., **Jain, Anuj**, *Innovations in the Design of Shell and Tube Heat Exchanger*, ASME - ZSITS International Thermal Science Seminar, Bled, Slovenia, 11-14 June 2000. IC-4
- 2000 Gulyani, B.B., **Jain, Anuj**, *Temperature Cross based criteria for Multipass Heat Exchanger Design*, **Hydrocarbon Processing**, Houston, Texas, USA, **Scopus-3**, IJ-5
- 1999 Gulyani, B.B., **Jain, Anuj**, *Use Engineering Judgement in Analysis of Pipe Flow*, South Asian Countries Conference on Challenges to Architects and Civil Engineers During Twenty First Century, Kathmandu, Nepal, April 7-9, 1999, pp. 663-676. IC-3
- 1999 Gulyani, B. B., Kumar, S., & **Jain, A.**, Pipe flow friction factors. **Chemical Engineering World**, 34(12), 169-172, 1999. **Scopus-2**, IJ-4
- 1997 **Jain, Anuj**, Gulyani, B.B., Kumar, Shalendra, Mohanty, B., *New Friction Factor Correlations for Hydraulically Smooth Pipe*, National Seminar on Emerging Trends in Design Engineering, Institution of Engineers (India), Allahabad, India, 31 Jan - 2 Feb 1997, pp. IV - 121-130. NC-2
- 1997 Mohanty, B., Gulyani, B.B., Kumar, Shalendra, **Jain, Anuj**, *Augmentation in Single Phase Shell and Tube Heat Exchanger*, Chemical Industry Digest, Mumbai, India, 3rd Quarter, Sep 1997, pp. 105-122 (NJ-2)
- 1997 Gulyani, B.B., **Jain, Anuj**, Kumar, Shalendra, Mohanty, B., *Simple Method Determines Flow Regimes for Friction Factor Calculations*, **Hydrocarbon Processing**, Houston, Texas, USA, Dec 1997, pp. 71-73. **Scopus-1**, IJ-3
- 1996 **Jain, Anuj**, Gulyani, B.B., Kumar, Shalendra, Mohanty, B., *Mathematical Analysis of Correlations for pipe flow friction factor*, Proceeding of Conference on Mathematics & its Applications in Engineering and Industry, Roorkee, 16-18 Dec, 1996, Narosa Publication, New Delhi, India, pp. 314-320. NC-1
- 1996 Gulyani, B.B., **Jain, Anuj**, Kumar, Shalendra, Mohanty, B., *Correlations for pipe flow friction factors*, Engineering Advances, Mumbai, India, Dec 1996, pp. 55-57. NJ-1
- 1994 **Jain, Anuj**, Sai, A.S.R., *Fuzzy logic Based Evaluation of Ferrocement Folded plate Umbrella*, Proceeding of Second Asia Pacific Symposium on Ferrocement, Roorkee, India, 25-27 Feb. 1994, pp. 1/11-1/21. IC-2
- 1993 Sai, A.S.R., **Jain Anuj**, *Durability Performance and Fuzzy logic Based Evaluation of Ferrocement Structures*, Int. Sym. on Innovative World of Concrete (ICI-IWC93), Bangalore, India, pp. 2/137-2/149. IC-1
- 1993 Paliwal, D.N., Gupta, R., **Jain, Anuj**, *Stress Analysis of Ellipsoidal Shell on an Elastic Foundation*, **Int. J. Pressure Vessel and Piping**, Elsevier, vol. 56, pp. 229-242. ISSN: 0308-0161 SCI-2, Scopus, IMPACT FACTOR 1.513. DOI: 10.1016/0308-0161(93)90095-B, IJ-2

Paliwal, D.N., Gupta, R., **Jain, Anuj**, *The Analysis of an Orthotropic Ellipsoidal Shell on an Elastic Foundation*, **Int. J. Pressure Vessel and Piping**, Elsevier, vol. 51, pp. 133-141, **ISSN: 0308-0161 SCI-1, Scopus, IMPACT FACTOR 1.513**. DOI: 10.1016/0308-0161(92)90076-R, IJ-1

## BOOKS /BOOK CHAPTERS – 3+11

- Sep 2025  
Srivastav V.K.;Paul A.R.;Jain A.;Saha S.C., "Role of CFD in Pulmonary Drug Delivery using Inhalers", Book Chapter Biological Flow Modelling, **Volume** , **Year** 2025, **Pages** 50-73  
DOI:10.1201/9781003287636-3
- Sep 2025  
Paul A.R.;Jain A.;Saha S.C., Modeling of Miscellaneous Bio-Fluid Flows. Book Chapter Biological Flow Modelling, **Volume** , **Year** 2025, **Pages** 158-188
- 26 oct 2022 publish  
3 Sep 2022 online  
Atiq Ur Rehman , Akshoy Ranjan Paul, Anuj Jain, Suvanjan Bhattacharyya, Computational Approaches of Industrial Centrifugal Pumps, Chapter , pp. , Editor: Suvanjan Bhattacharyya, Computational Fluids Dynamics, InTechOpen, DOI: 10.5772/intechopen.105855
- Dec 2020  
Alok Singh Verma, **Anuj Jain**, "Influence of room temperature rolling process on Mechanical and Corrosion Behavior of Al 6061alloy ", International conference on Smart Technologies for Energy, Environment & Sustainable Development (ICSTEESD-20) Dec 4-5 2020, G H Raisoni College of Engineering, Nagpur, INDIA., IC-70 Ed. Kolhe, M.L., Jaju, S, B., Diagavane, Smart Technologies for Energy, Environment & Sustainable Development vol 2, Speinger Proceeding in Energy, 403-411, 2022
- First Online: Dec. 2021  
Kumar A., Gupta A., Verma S., Paul A.R., **Jain A.**, Haque N. (2022) "Life Cycle Assessment Based Environmental Footprint of a Battery Recycling Process"; In: Reddy A.N.R., Marla D., Favorskaya M.N., Satapathy S.C. (eds) Intelligent Manufacturing and Energy Sustainability. Smart Innovation, Systems and Technologies, vol 265. Springer, Singapore, , Print ISBN: 978-981-16-6481-6, Online ISBN: 978-981-16-6482-3.  
[https://doi.org/10.1007/978-981-16-6482-3\\_12](https://doi.org/10.1007/978-981-16-6482-3_12)
- Sep 2021  
Anurag Tiwari, Akshoy Ranjan Paul, **Anuj Jain**, Suvash C. Saha, Evaluation of the Design of Efficient Dry Powder Inhalers, Chapter 9, pp. 129-154, Editors: Yaswant Pathak, Nazrul Islam (eds), Handbook of Lung Targeted Drug Delivery System: Recent Trends and Clinical Evidences, Taylor and Francis, CRC Press, Florida USA, 2022, ISBN: 9780367490676 (hbk), ISBN: 9780367495527 (pbk), ISBN: 9781003046547 (ebk). DOI: 10.1201/9781003046547-9
- June 2021  
Ashish Mishra, Akshoy Ranjan Paul, Anuj Jain, Firoz Alam, "Design and Analysis of Synthetic Jet for Micro-channel Cooling", In: Yuying Yan and Chuang Wen (Eds.) Advances in Heat Transfer and Thermal Engineering, Springer, Singapore. pp. 315-320. Online ISBN: 978-981-33-4765-6, Hardcover ISBN: 978-981-33-4764-9, June 2021, Publisher: Springer, Singapore. [https://doi.org/10.1007/978-981-33-4765-6\\_55](https://doi.org/10.1007/978-981-33-4765-6_55). Abstract originally published in Abstract Proceedings of 16th United Kingdom Heat Transfer Conference (UKHTC-2019), 8-10 September 2019, University of Nottingham (U.K.), Paper ID-162. IC-66
- 21 Mar 2021 online  
May 23, 2021 published  
Maurya, Anil Kumar;**Jain, Anuj**;Paul, Akshoy Ranjan;"Effect of Tool Rotation Speed on Friction StirredMaterial Flow Behavior of AA6061-T6 Aluminum Alloys" In:Hloch S., Klichová D., Pude F., Krolczyk G.M., Chattopadhyaya S. (eds) Advances in Manufacturing Engineering and Materials II, pp. 355–360, ICMEM 2020, 27.06.-01.07.2022, Slovakia, Lecture Notes in Mechanical Engineering, Springer Nature Cham.  
[https://doi.org/10.1007/978-3-030-71956-2\\_29](https://doi.org/10.1007/978-3-030-71956-2_29)
- 8 Mar 2021 Proof  
May 23, 2021 published  
Tiwari, Vineet Kumar;Paul, Akshoy Ranjan;Jain, Anuj;Chattopadhyaya, Somnath; Shankar, Sachindra; and Vilaca, Pedro; "Computational Study of Metal Flow Behavior of AA 6061 in Friction Stir Processing with Twin Tools",In:Hloch S., Klichová D., Pude F., Krolczyk G.M., Chattopadhyaya S. (eds) Advances in Manufacturing Engineering and Materials II,pp. 386–391, ICMEM 2020, 27.06.-01.07.2022,, Slovakia, Lecture Notes in Mechanical Engineering, Springer Nature Cham. [https://doi.org/10.1007/978-3-030-71956-2\\_32](https://doi.org/10.1007/978-3-030-71956-2_32)
- Jan 2021  
Digamber Singh, **Anuj Jain**, A.R. Paul; Book Chapter 31: "Numerical Study on Particle Deposition in Healthy Human Airways and Airways with Glomus Tumor"; Advances in Biomedical Engineering and Technology, Lecture Notes in BioEngineering, pp. 379-390. Springer Nature, doi: 10.1007/978-981-15-6329-4\_31, **SCOPUS**. (Accepted July 2020, online 29 Sep 2020) Revised Paper of International Conference On Biomedical Engineering Science and Technology: Roadway from Laboratory to Market, 20-21 December 2018, ICBEST-2018, NIT Raipur, Chhattisgarh, India. IC-66
- 2016  
**Anuj Jain**, A.R. Paul, Book of Abstracts, 6th International and 43rd National Conference of Fluid Mechanics and Fluid Power (FMFP-2016), ISBN No. 978-93-5267-408-4
- 2016  
**Anuj Jain**, A.R. Paul, e-Proceeding of 6th International and 43rd National Conference of Fluid Mechanics and Fluid Power (FMFP-2016), ISBN No. 978-93- 5267-407-7
- 2014  
K.K. Shukla, **Anuj Jain**, Ramesh Pandey, *Strength of Materials*, Alpha Science International Ltd., Oxford UK. ISBN No.978-18-4265-656-3