

Rajan D. Lanjekar

CONTACT INFORMATION	81 a, Heritage City, Devi Darshan Road, Getlatu, Ranchi, Jharkhand 835215	963-034-0368 ldeorao.teqip@bitmesra.ac.in
RESEARCH INTERESTS	Biofuel, Spray modeling	
EDUCATION	Indian Institute of Technology Indore , Indore, Madhya Pradesh, India Ph.D., Mechanical Engineering, <i>Thesis Submitted</i> : March 2018 <ul style="list-style-type: none">• Thesis Topic: <i>Experimental and Numerical Spray Characterization of Biofuels and Pure Components</i>• Advisor: Devendra L. Deshmukh, Ph.D Indian Institute of Technology Bombay , Mumbai, Maharashtra, India M.Tech., Mechanical Engineering, June 2010 <ul style="list-style-type: none">• Thesis Topic: <i>Performance and emissions characterization of diesel engine fueled with Jatropha based bio-diesel blends and Straight Vegetable Oil</i>• Advisors: Upendra V. Bhandarkar, Ph.D, Virendra Sethi, Ph.D and P. P. Parikh, Ph.D Government College of Engineering Chandrapur , Chandrapur, Maharashtra, India B.E., Mechanical Engineering, June 2005 <ul style="list-style-type: none">• Thesis Topic: <i>Belt Oil Skimmer</i>• Advisor: R. Dhoble	
RESEARCH EXPERIENCE	Research Assistant Spray and Combustion Laboratory, Discipline of Mechanical Engineering, Indian Institute of Technology Indore Supervisor: Devendra L. Deshmukh, Ph.D	Jan 2013 to present
	Study on Biodiesel Spray Characterization National Centre for Combustion Research and Development Indian Institute of Technology Madras Supervisor: Pramod S. Mehta, Ph.D	March 2016 to May 2016
	Research Assistant Internal Combustion Engine Laboratory, Department of Mechanical Engineering, Indian Institute of Technology Bombay Supervisors: Upendra V. Bhandarkar, Ph.D	June 2007 to June 2010
REFEREED JOURNAL PUBLICATIONS	<ol style="list-style-type: none">1. Lanjekar, R. D., and Deshmukh, D., Biofuel pure component spray characteristics at engine-relevant conditions, <i>Energy & Fuels</i> (2017). Doi: http://dx.doi.org/10.1021/acs.energyfuels.7b008482. Lanjekar, R. D., and Deshmukh, D., A review of the effect of the composition of biodiesel on NO_x emission, oxidative stability and cold flow properties, <i>Renewable and Sustainable Energy Reviews</i> 54 (2016): 1401-1411. Doi: http://dx.doi.org/10.1016/j.rser.2015.10.0343. Lanjekar R. D., Deshmukh D., Experimental and numerical investigations on spray characteristics of fatty acid methyl esters, <i>Royal Society Open Science</i> 5 (2018): 171121. Doi: http://dx.doi.org/10.1098/rsos.171121	

INTERNATIONAL
CONFERENCES

1. **Lanjekar, R.D.**, and Deshmukh,D., Experimental and numerical characterization of fatty acid and methyl ester sprays, Proceedings of the ILASS-Asia 2016, 18th Annual Conference on Liquid Atomization and Spray Systems - Asia, Chennai, India, 2016.
2. **Lanjekar, R.D.**, and Deshmukh,D., Modeling influence of alcohol moiety and chain length on pure fatty acid ester spray, Proceedings of the 13th International Conference on Liquid Atomization and Spray Systems (13th ICLASS 2015), 2015.

HARDWARE AND
SOFTWARE SKILLS

- C, Octave, OpenFOAM, Arduino Controller, LaTeX, Linux, Image Processing

ACHIEVEMENTS

- Secured All India Rank 324, among 22206 aspirants of Gate 2006
- Merit scholarships were awarded by Hindusthan Lalpeth Colliery Rayatwari Upshetra Koyla Khadan Karmachari Sahakari Path Sanstha Maryadit, Chandrapur in class *VIIth* ,*VIIIth* , *Xth* and *XIIth*
- Merit scholarship was awarded by Government College of Engineering, Chandrapur.

REFERENCES

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