

**National Institute of Technology, Tiruchirappalli:  
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**Curriculum Vitae**



1. Name Dr.R.Anand
2. Designation: Assistant Professor
3. Office Address: Assistant Professor,  
Department of Mechanical Engineering,  
National Institute of Technology,  
Tiruchirappalli – 620015, Tamil Nadu.
4. Telephone (Direct) (Optional): 0431-2503423  
Telephone : Extn (Optional):  
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5. Email (Primary): anandachu@nitt.edu Email (Secondary) : anandachuselvi@gmail.com
6. Field(s) of Specialization: Thermodynamics, Fuels and combustion, Internal  
Combustion Engines, Alternative Fuels, Energy  
Engineering
7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Trichy	May 2007	Till date
Lecturer	Anna University Chennai	February 2005	May 2007
Teaching Research Associate	Anna University Chennai	July 2001	February 2005
Lecturer	MIET Trichy	Nov.1999	July 2001
Design Engineer	Walchand Nagar Industries,Pune	March 1999	October 1999
Project Trainee	IREDA New Delhi	August 1999	January 1999

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### 8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Anna University Chennai	2008	--	Internal Combustion Engines
M.Tech	School of Energy/ Bhardhidasan University	1999	First	Energy Conservation and Management
B.E	Regional Engineering College Trichy/ Bhardhidasan University	1997	First	Mechanical
HSC	St Josephs College Higher Secondary School/State Board	1993	First	Tamil, English, Maths, Physis, Chemistry, Biology
SSLC	St Josephs College Higher Secondary School/State Board	1991	First	Tamil, English, Maths, Science, Social

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/ Institution	From	To
Expert Member	Centre of Excellence in Corrosion and in Corrosion and Surface Engineering	2011	Till date
TEQIP Committee Member - MIS	Institution	2014	2016
NBA Committee -Hospitality	Institution	2014	2016
Faculty In charge- Medal	Institution –Convocation	2015	2016
Faculty In charge- NBA 2011	Department –Lab Manual Preparations	2011	2011
Project Coordinator	Department-UG, PG	2008	2015
Faculty In charge- Thermal lab	Department	2011	2011
Faculty In charge- Library	Department	2007	2016
Faculty In charge- Mechanical Engineering Association	Department	2013	2015
Green campus Committee Member	Institution	2007	2011
Stock verification	Institution	2010	2016

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### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Indian Examiner -PhD	Anna University Chennai	2010	2016
Academic Board	MIT Chennai	2012	2016
Inspection Committee Member	Anna University Chennai	2012	2016

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2009	N.K.Iyengar Memorial Prize	Institute of Engineers, India
2012	Session Organizer	ASME,USA

### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2015	Endeavour Executive Fellowship	Australian Government	June 2015	September 2015

### 13. Details of Academic Work

(i) Curriculum Development : Undergraduate and Postgraduate in Mechanical subjects

(ii) Courses taught at Postgraduate and Undergraduate levels :

UG Level: Thermodynamics, Fuels and Combustion, Basic Mechanical Engineering, Thermal Engineering

PG Level: Fuels and Combustion, Analysis of Thermal Power Cycles and Boiler Auxiliaries

(iii) Projects guided at Postgraduate level: Guides 35 Projects at PG level

(iv) Other contribution(s) :

- Developed Thermal for UG and PG Level
- Developed Fuels lab and IC Engines Research lab for PhD students
- Developed Department library for PG and PhD students
- Acted as Faculty Advisor for Mechanical Engineering Association
- Acted as PAC Chairman for UG,PG and PhD
- Acted as Project Coordinator for both UG and PhD

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14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Experimental Investigation on Dual Fuel Engine Using Compressed Natural Gas and Pyrolysis waste engine oil	DST-SERB	2016	2020	Ongoing
Production of Biodiesel from Non-Edible Aeglemarmelos Correa oil and its Use in Diesel Engine	DST- Young Scientist	2016	2019	ongoing
Experimental Studies on a Direct Injection Diesel Engine Using Waste Cooking Oil Based Biodiesel and Its Blends	MHRD	2014	2017	Ongoing
A Study on the Feasibility of Using Processed Waste Engine Oil as an Alternate Fuel for a DI Diesel Engine	Institution of Engineers, India	2012	2013	Completed
The Effect of Thermal Barrier Coated Engine Components and Platinum Based Catalyst Coated Diesel Particulate Filter on Diesel Engine Fueled with Bio-diesel	Institution of Engineers, India	2010	2011	Completed

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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
G.R.Kannan		Supervisor	2012

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc.

Date (s)	Title of Activity	Level of Event (International / National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
21-02-2011 to 25-02-2011	ISTE Workshop for Co-ordinators on Thermodynamics in Mechanical Engineering	National	Participant	Department of Mechanical Engineering, IIT Bombay	IIT Bombay
21-12-2009 to 02-01-2010	AICTE-MHRD Sponsored Staff development Programme on Quantitative research techniques for Engineers and researchers	National	Participant	Department of Mechanical Engineering, NIT, Trichy	NIT, Trichy
01-10-2009 to 04-10-2009	First Indo-German Frontiers' of Engineering Symposium	International	Paper presenter	Department of Mechanical Engineering, IIT, Madras	IIT, Madras
13-07-2009 to 24-07-2009	AICTE-MHRD Sponsored Faculty development Programme on Composite	National	Participant	Department of Production Engineering, NIT, Trichy	NIT, Trichy

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	materials :Processing challenges and opportunities				
10-06-2009 to 13-06-2009	Summer school in Tribology	National	Participant	IIPM, Gurgaon	IIPM, Gurgao n
29-12-2008 to 10-01-2009	AICTE- MHRD Sponsored Staff development Programme on Recent advances in modeling and simulation of Joining of materials	National	Participant	Department of Mechanical Engineering, NIT,Trichy	NIT,Trichy
07-07-2008 to 12-07-2008	Induction training program on Instruction design and delivery	National	Participant	NITTR, Chennai	NITTR, Chennai
18-03-2008 to 22-03-2008	AICTE-Q.I.P Sponsored short term course on Recent trends in advanced manufacturing	National	Participant	Department of Production Engineering, NIT, Trichy	NIT Trichy
25-02-2008 to 29-02-2008	AICTE-Q.I.P Sponsored short term course on Advanced tools and techniques for Research in Engineering problems	National	Participant	Department of Production Engineering, NIT,Trichy	NIT Trichy
31-12-2007 to 02-01-2008	Advanced combustion Technologies	National	Participant	Department of Mechanical Engineering, IIT,	IIT, Kanpur

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				Kanpur	
10-12-2007 to 14-12-2007	Energy Conservation Measures for Manufacturing and Process Industries.	National	Participant	Department of Mechanical Engineering, NIT, Trichy	NIT Trichy
02-12-2007 to 03-12-2007	Catalysts in Environmental applications	National	Participant	Department of Chemistry, NIT, Trichy	NIT Trichy
19-11-2007 to 01-12-2007	AICTE Sponsored Induction Training programme for Engineering College Teachers	National	Participant	NITTR, Chennai	NITTR, Chennai
16.11.2007 to 17.11. 2007	Burner Design for clean and efficient combustion	National	Participant	Department of Mechanical Engineering, IIT, Madras	IIT, Madras
12.10.2007 to 13.10.2007	Recent trends in Energy Management	National	Participant	The Institution of Engineers (India), Tiruchirappalli	The Institution of Engineers (India), Tiruchirappalli
17-09-2007 to 18-09-2007	computational Fluid Dynamics	National	Participant	Department of Mathematics, NIT, Trichy	NIT, Trichy
04-07-2007 to 13-07-2007	Faculty development programme on ANSYS	Local	Participant	NIT, Trichy	NIT, Trichy
04-06-2007 to 16-06-2007	Staff development programme sponsored by AICTE on Electronic Engine Management	National	Participant	Department of Automobile Engineering, Bharadhasan University, Trichy	Department of Automobile Engineering, Bharadhasan

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	System				Univers ity, Trichy
03-05-2007 to 05-05-2007	Orientation training programme on Re- Engineering Teaching Skills			Center for Faculty Development, Anna University, Chennai -600 025	Anna Univers ity, Chennai -600 025
01.02.2000 to 11.02-2000	Skill-cum Technology up gradation programme on “Energy Management and Environment friendly process for Manufacturin g process for Machining Industries”.			TREC-STEP, REC, Trichy	TREC- STEP, REC, Trichy

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/  
Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Biofuels and Combustion Research,	National	26.10.2016 to 01.11.2016	Convenor	NIT Trichy
Engine Research	National	07-08 October, 2014	Convenor	NIT Trichy
Renewable Energy Technologies	National	26-27, Sep.2014	Convenor	NIT Trichy
Automotive Fuels and Emission	National	12-14,Jun3 2013.	Convenor	NIT Trichy
International conference on International Mechanical Engineering congress	International	June 13- 15,2014	Convenor	NIT Trichy



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ASME 2012 International Mechanical Engineering Congress and Exposition	International	November 14,2012	Session organizer For conducting Biodiesel combustion session II (6-29-3)	ASME, USA / Houston,Texas,USA
Two weeks ISTE work shop on “Thermodynamics in Mechanical Engineering”	National	14.06.2011 to 24.06.2011	Convenor	IIT Bombay & NIT Trichy
Two weeks AICTE-MHRD sponsored Faculty Development Programme on “Applied Mechanical Measurements”	National	19.12.2007 to 20.12.2007	Convenor	NIT Trichy
Recent trends in Alternative Fuels and Emission control technologies in Internal Combustion Engines		19.12.2007 to 20.12.2007	Convenor	NIT Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
Speaker	Trichy Engineering College, Tiruchi	22.03.2010
Speaker	Anna University, Tiruchy.	14.02.2010
Speaker	A.V.C.College of Engineering, and Mayiladuthurai.	24.08.2009
Speaker	Anna University, Tiruchy.	22.08.2009
Speaker	Bharadhidasan University, Trichy	07.06.2007
Speaker	All India radio,Chennai	05.02.2006

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### 19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Life Member	Institution of Engineers (India)	139336
Life member	Combustion Institute(India)	

### 20. Academic Foreign Visits

Country	Duration of Visit	Programme
Bangladesh	20-22,December 2006	3rd BSME-ASME International Conference on Thermal Engineering
USA	13-15 April,2010	SAE World Congress
USA	Nov.9-15,2012	American Society of Mechanical Engineers (ASME) 2012
France		Michelin
Italy		TEQIP Faculty Development Program

### 21. Publications

#### (A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
P.A. Anjana, S. Niju, K.M. MeeraSheriffa Begum, N. Anantharaman, R. Anand, D. Babu, Biofuels,1-11&2016.	Studies on biodiesel production from Pongamia oil using heterogeneous catalyst and its effect on diesel engine performance and emission characteristics	Biofuel	7	377-387	2016	
SnehaE.Mahesh, R.Anand, K.M.MeeraS.Begum, Anantharaman Narayanan	Biodiesel production from waste cooking oil using KBrimpregenatedCaO as catalyst	Energy Conversion and Management	91	442-450	2015	4.801
P.VaibhavPal, R.Karthikeyan, R.Anand	Performance Enhancement Of the Proton Exchange Membrane Fuel Cell Using	Journal of Power and Energy Engineering	3(5)	1-10	2015	

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	Pin Type Flow Channel with Porous Inserts					
C.M Kshirsagar, R.Anand	An overview of biodiesel extraction from the third generation biomass feedstock: prospects and challenges	Applied Mechanics and Materials	592-594,	1881-1885	2014	
A.ZahirHussain, Sumit Raj, R. Anand	Experimental investigation on diesel engine using processed waste engine oil	Applied Mechanics and Materials	592-594,	1580-1584	2014	
Vaibhav Pal, P. Karthikeyan, R. Anand	Numerical study on proton exchange membrane fuel cell with 2mm x 2mm and 25cm <sup>2</sup> serpentine flow channel	Applied Mechanics and Materials	592-594,	1881-1885	2014	
S.P. Sivapirakasham, A. Afsal Khan, Mane G. Yogesh, R. Anand	Microcalorimetry and Kinetics of Biodiesel	Applied Mechanics and Materials	592-594,	1641-1645	2014	
G.R. Kannan, R.Anand	Artificial neural network approach to study the effect of injection pressure and timing on diesel engine performance fueled with biodiesel	International Journal of Automotive Technology	14 (4), &2013	507–519	2013	0.876
G.R. Kannan, R.Anand	Effect of injection pressure and injection timing on DI diesel engine fuelled with biodiesel from waste cooking oil	Biomass and Bioenergy	6	343-352	2012	3.249
G.R. Kannan, R.Anand	Biodiesel as an alternative fuel for Direct Injection Diesel Engines – A Review	International Journal of Renewable and Sustainable Energy	1	1-17	2012	1.51
G.R. Kannan, R.Anand	Effect of injection pressure and injection timing on DI diesel engine using diestrol	Fuel Processing Technology	92(12)	2252-2263	2011	3.847
G.R.Kannan, R.Karvembu, R.Anand	Effect of metal based additive on performance emission and combustion	Applied Energy	88	3694-3703	2011	5.746

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	characteristics of diesel engine fuelled with biodiesel					
G.R.Kannan, R.Anand	Experimental Investigation on Diesel engine with Diestrol-water micro emulsions	Energy	38	1680-1687	2011	4.292
G.R.Kannan, R.Anand	Combustion characteristics of a diesel engine operating on biodiesel-diesel-ethanol mixtures	Part A. Journal of Power and Energy	225(8)	1076-1087	2011	0.596
G.R.Kannan, K.R.Balasubramanian, S.P.Sivapirakasam, R.Anand	Studies on biodiesel production and its effect on DI diesel engine performance, emission and combustion characteristics	International Journal of Ambient Energy	32(4)	179-193	2011	
G.R.Kannan, R.Anand	Estimating and improving cold flow properties of waste cooking palm oil biodiesel with different additives	International Journal of Applied engineering	1	9-18	2011	
R. Anand R N.V.Mahalakshmi	The performance and emissions of a variable compression ratio diesel engine fuelled with bio-diesel from cotton seed oil	Journal of Mechanical Engineering, Imech-India	90	3-6	2010	
R. Anand, Senthil Kumar.C, Hari Ramakrishnan .P, Prabhakaran.G	A paradigm shift to ensure proper ventilation and better IAQ – The energy savings and cost benefits of dedicated outdoor air approach	International Journal of Ventilation	7	279-285	2008	0.508
R.Anand, Prabhakaran.G	Simulation of absorption refrigeration system for automobile application	International Journal of Thermal Science	12(3)	5-13	2008	0.939
R.Anand Mahalakshmi.N.V	Addition and dilution effects of carbon dioxide and nitrogen with intake air on direct injection diesel engine	International Journal of Pollution Research	26(3)	507-512	2007	

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R.Anand Mahalakshmi N.V	EGR combined with particulate trap for the reduction of oxides of nitrogen and smoke emissions in a DI diesel engine	International Journal of Energy	8	162-168	2007	
R.Anand Mahalakshmi N.V	Simultaneous reduction of NOx and smoke from a DI diesel Engine with EGR and diethyl ether	Proc. IMEche, Journal of Automobile Engineering	221(1)	109-116	2007	0.802

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page number s	Conference Theme	Venue	Year
A.Zahir Hussain ,. R.Anand,	Experimental Investigation on a Dual Fuel Engine Using LPG and Processed Waste Engine Oil	4 <sup>th</sup> International Conference on Advances in Energy Research		Energy	Indian Institute of Technology Bombay, Mumbai	2013
A.Zahir Hussain ,. R.Anand	Processed Waste Engine Oil as Fuel in Diesel Engine	International Mechanical Engineering conference (ICARMAEC 2013)			Thailand	2013
R.Anand, G.R.Kannan, Karthikeyan Palaniswamy	A Study of the Performance Emission and Combustion Characteristics of a DI Diesel Engine Using Waste Cooking Oil Methyl Ester-Ethanol Blends	ASME 2012 International Mechanical Engineering Congress & Exposition		Mechanical	Houston,USA	2012
R.Anand, G.R.Kannan, K.R.Balasubramanian	Experimental investigation of the effect of injection pressure and	ASME 2012 Internal Combustion Engine Fall Technical		Internal Combustion Engine	Vancouver,B C, Canada	2012

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	timing in a DI diesel engine running on biodiesel-ethanol blend	Conference				
R. Anand, G.R.Kannan, P.S.J. Guptha Patnan, R.Karvembu	Effect of catalyst coated diesel particulate filter on direct injection diesel engine fueled with biodiesel	ASME 2012 Internal Combustion Engine Fall Technical Conference		Internal Combustion Engine	Vancouver,B C, Canada	2012
R.Anand, G.R.Kannan, S.Nagarajan	Effect of variables on biodiesel production from Waste cooking oil via Response Surface Methodology	Petrotech-2010, 10 <sup>th</sup> International oil and gas conference and Exhibition.		Oil and Gas	New Delhi	2010
K. R. Balasubramanian, G. R. Kannan, R. Anand	Effect of Preheated Waste Cooking Oil on the Performance and Emissions in a DI Diesel Engine	Petrotech-2010, 10 <sup>th</sup> International oil and gas conference and Exhibition.		Oil and Gas	New Delhi	2010
G.R.Kannan, B. Jogarao, R.Anand,	Improving the Low Temperature Properties by blending Biodiesel with different Liquid Additives	Petrotech-2010, 10 <sup>th</sup> International oil and gas conference and Exhibition.		Oil and Gas	New Delhi	2010
G.R.Kannan, R.Anand, S.Nagarajan	The effect of waste cooking oil methyl ester on direct injection diesel engine performance and emissions	ISFL 2010, International symposium on Fuel and lubricants		Oil and Gas	New Delhi	2010
R.Anand, G.R.Kannan, S.Nagarajan, S.Velmathi,	Performance Emission and Combustion Characteristics	SAE International	SAE 2010-01-0478	Automobile	Detroit,USA	2010

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	of a Diesel Engine Fueled with Biodiesel Produced from Waste Cooking Oil					
G.R.Kannan, R.Anand	Emission Reduction in DI Diesel Engine using Catalyst Diesel Particulate Filter	International conference on advances in Mechanical Engineering		Mechanical	SVNIT, Surat	2009
R.Anand, K.RajaSekar Reddy, V.Arul Mozhi Selvan, S.Velmathi, T.Senthil kumar	Study of Performance, Emission and Combustion Characteristics of a Diesel engine using Methyl Ester of Cottonseed oil	8 <sup>th</sup> International oil and gas conference and Exhibition		Oil and gas	Indian Oil Corporation of India, New Delhi	2009
Anand R., N.S.Parthasarathy	Comparison of Performance in a Bottle Cooler with TEV and EEV using M09 Refrigerant Mixture	International Conference on Advances in Mechanical Engineering,		Mechanical	IISC,Bangalore	2008
Anand R., K.Chakradhara Rao	Safety aspects in the use of hydrogen in internal combustion engines	6 <sup>th</sup> International Conference on Fuel and Lubricants,		Fuels and Lubricants	Indian Oil Corporation of India, New Delhi	2008
Anand R., Deepak Devaraddy, G.R. Kannan R.Anand,	Optimization of Discharge Muffler in Reciprocating Compressor	19 <sup>th</sup> National & 8 <sup>th</sup> SHMT-ASME Heat and Mass Transfer Conference		Heat and Mass Transfer	JNTU, Hyderabad	2008
Anand R., Prabhakaran.G	Utilising waste heat for comfort air-conditioning a simulation of Absorption Refrigeration System.	19 <sup>th</sup> National & 8 <sup>th</sup> ISHMT-ASME Heat and Mass Transfer Conference		Heat and Mass Transfer	JNTU, Hyderabad	2008

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Anand R., K.Chakradhara Rao	Study of performance and emission characteristics of diesel engine using jatropa oil and its methyl ester	A National level Technical Paper presentation contest		Mechanical	National Institute of Engineering, Mysore	2008
Anand R. Mahalakshmi N.V	Effects of Nitrogen-enriched air on diesel engine by dilution and addition techniques	19th National conference on IC Engines and Combustion	77-82	Mechanical	Combustion Institute, Annamalai University	2005
Anand R. Mahalakshmi N.V	Reduction of Smoke Emissions from DI Diesel Engine using Catalyst Based Oxygen Enrichment	International Conference & XX National conference in I.C.Engines and Combustion	52-57	Internal Combustion Engine	Combustion Institute, JNTU, Hyderabad	2007
Anand R, Shriram Prabhu.S, Sivakaumar.S, Mahalakshmi N.V	An experimental heat release analysis of DEE blended with diesel in a DI diesel engine	3 <sup>rd</sup> BSME-ASME International Conference on Thermal Engineering		Energy	Dhaka, Bangladesh	2006
Anand R, Mirunalini.T, Mahalakshmi N.V	Jatropa oil as renewable oil in a DI diesel engine	3 <sup>rd</sup> BSME-ASME International Conference on Thermal Engineering		Energy	Dhaka, Bangladesh	2006
Anand R. Mahalakshmi N.V	Simultaneous reduction of oxides of nitrogen and smoke emissions by using EGR combined with Particulate trap in a DI diesel engine	ASME Internal Combustion Engine Division 2006 Spring Technical Conference	Paper no. ICES 2006-1330	Internal Combustion Engine	Aachen, Geremany	2006
Anand R. Mahalakshmi N.V.	Effects of carbon dioxide,	International conference	paper no.	Internal Combustion	SAE India, Chennai	2005



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	Nitrogen and Exhaust gas with intake air on DI diesel engine Emission and performance characteristics	on International Mobility Engineering congress and exposition 2005	2005-26-345	Engine		
Anand R. Mahalakshmi N.V	An experimental investigation on the addition and dilution effects of CO <sub>2</sub> on DI diesel engine emissions and performance characteristic	International conference on Energy Technologies for sustainable development.	237-243	Energy	Malaviya National Institute of Technology (MNIT), Jaipur, Rajasthan	2003
Anand R., Nagarajan G., Renganarayanan.S Mahalakshmi N.V	A study on the NOx emission from a LPG-Diesel dual fuel Engine	18th National conference on IC Engines and Combustion	77-82	Internal Combustion Engine	Combustion Institute, College of Engineering, Thiruvananthapuram	2003

**(C) Books & Monographs**

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
K.R. Balasubramanian, S.P. Sivapirakasam R. Anand	Dynamics of Machines and Mechanisms, Industrial Research	Trans Tech Publication Switzerland	2014	978-3-03835-163-4