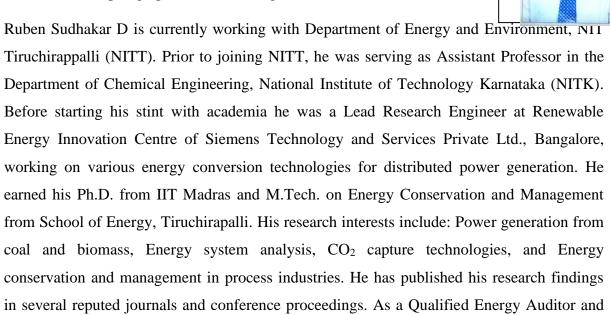
Curriculum Vitae

Brief Profile: 1-2 paragraphs (not exceeding 500 words)



1. Name RUBEN SUDHAKAR D

Manager, he is also providing consultancy services to industries on Energy conservation.

2. Designation: ASSISTANT PROFESSOR (GRADE I)

- 3. Office Address: DEPARTMENT OF ENERGY AND ENVIRONMENT
- 4. Telephone (Direct) (Optional):

Telephone: Extn (Optional):

Mobile (Optional):

5. Email (Primary): <u>rubensudhakar@nitt.edu</u> Email (Secondary):

- 6. Field(s) of Specialization: Heat and Power from Solid Fuels, CO₂ Capture Technologies, Energy System Analysis, Energy Conservation and Management Solutions
- 7. Employment Profile

Job Title	Employer	From	То
Assistant Professor	National Institute of Technology Tiruchirappalli	18/06/2018	Till date
Assistant Professor	National Institute of Technology Karnataka	15/07/2013	15/06/2018
Lead Research Engineer, Renewable Energy Innovation Centre	Corporate R&D, Siemens Technology and Services Private. Ltd.	17/01/2011	31/05/2013

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	IIT Madras			Energy
M.Tech.	School of Energy, Bharathidasan University			Energy Conservation and Management
B.Tech.	University of Madras			Chemical Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	То

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	То

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2007/2014	Accredited Energy Auditor and	Bureau of Energy Efficiency
	Manager	(BEE), Govt. of India
2008	First Prize – "Green Campus"	IIT Madras- Energy Forum

	Project Competition	
2007	First runner-up prize for the best	IIChe - Diamond Jubilee Year
	poster	Awards

12. Fellowships

Year of Award	Name of the Fellowship	Awarding	From	То
		Organization	(Month/Year)	(Month/Year)

13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
 - a. Process Modelling and Simulation PG
 - b. Heat Transfer UG
 - c. Transport Phenomena -PG
 - d. Particulate Technology UG
 - e. Energy Technology UG
 - f. Energy Conservation and Management in Process Industries UG
 - g. Petroleum Engineering UG
 - h. Mineral Dressing UG
- (iii)Projects guided at Postgraduate level
 - a. Study on synergistic effects during co-pyrolysis of raw biomass-raw biomass, coal-raw biomass and coal-torrefied biomass using thermogravimetric analyzer
 - b. Design and development of mixer for firework chemicals
 - c. Experimental studies on producer gas generation in a downdraft gasifier in conjunction with pyrolyser
 - d. Fragmentation of Limestone during calcination in a bubbling fluidized bed
 - e. Devolatilization and Primary Fragmentation of Indian Coal in a Fluidized Bed Combustor
- f. Coal Char Fragmentation and Combustion in a Fluidized Bed Combustor (iv)Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Aganay	Duration		Duration		Status
Title of Project	Funding Agency	From	То	Ongoing/ Completed		
Methanol as a	US-India	01-08-	31-7-	Ongoing		
clean source of	Educational	2016	2019			
energy for India	Foundation					

15. Number of PhDs guided

Name of the PhD	Title of PhD	Role(Supervisor/ Co-	Year of
Scholar	Thesis	Supervisor)	Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date	Title of	Level of	Role (Participant/	Event Organized by	Venue
(s)	Activity	Event	Speaker/ Chairperson,		
	-	(International/	Paper presenter, Any		
		National/	other)		
		Local)			

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

18. Invited Talks delivered

Topic	Date	Inviting Organization		
Recent Advances in Nano	06 th April, 2018	Coimbatore Institute of		
Energy Systems		Technology (CIT), Coimbatore		
Climate Change and	24 th March, 2018	Executive training program,		
Carbon Foot-print		Mangalore Refinery and		
		Petrochemicals (MRPL) Ltd.		
Noise Pollution	24 th March, 2018	Executive training program,		
		Mangalore Refinery and		
		Petrochemicals (MRPL) Ltd.		
Energy from Biomass -	28 th February, 2018	Saveetha School of Engineering,		
Sustainability Issues and		Chennai		

Challenges						
Thermo-Chemical	20 th November, 2017	Coimbatore Institute of				
Conversion of Biomass for		Technology (CIT), Coimbatore				
Energy – Issues and Future						
Prospects						
Mechanical Operations for	11 th August to 10 th	Mangalore Chemicals and				
production executive	November, 2016	Fertilizers,				
trainees		Training programme for				
		production executive trainees				
Biomass Conversion	12 th September 2014	IIST, Indore				
Technologies:						
Current Trends and Future						
Needs						
Biomass Gasification: R, D	4 th May, 2013	Vellore Institute of Technology,				
& D Needs and Challenges		Chennai				
Biomass Combustion:	24 th February, 2013	IIT Madras				
A Sustainable Technology						

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life	Organization	Membership No. with date
Member)		
Life Member	ISHMT	
Life Member	ISTE	
Life member	IEI	
Life member	The Combustion	
	Institute- Indian	
	Section (CIIS)	

20. Academic Foreign Visits

Country	Duration of Visit	Programme		
Sweden	One Month	Chalmers University of Technology		

21. Publications

(A) Refereed Research Journals: (Selected)

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
K. Sekar Pragadeesh and D. Ruben Sudhakar	Color Indistinction Method for the Determination of Devolatilization Time of Large Fuel Particles in Chemical Looping Combustion	Energy & Fuels (American Chemical Society)	Vol. 33 Issue 5,	4542- 4551	2019	3.091
K. Sekar Pragadeesh and D. Ruben Sudhakar	Primary Fragmentation Behavior of Indian Coals and Biomass during Chemical Looping Combustion	Energy & Fuels (American Chemical Society)	Vol. 32 Issue 5	6330- 6346	2018	3.091
D. Ruben Sudhakar and Ajit Kumar Kolar	Visualization and characterization of thermophysical behaviour of wood during devolatilization in a hot fluidized bed using X-ray radiography technique	Fuel	112	208-223	2013	5.128
D. Ruben Sudhakar and Ajit Kumar Kolar	Devolatilization of Wood in Hot Fluidized Bed: Effect of Particle Size, Shape and Bed Temperature	Journal of Analytical and Applied Pyrolysis	92	239-249	2011	3.47
D. Ruben Sudhakar and Ajit Kumar Kolar	Transient Three- dimensional Mathematical Model and Experimental Investigation of a Wet Devolatilizing Wood in a Fluidized Bed	Energy and Fuels	24	4820- 4832	2010	3.091
D.Ruben Sudhakar, K. Srinivas Reddy, Ajit Kumar Kolar, and Bo Leckner	Fragmentation of wood char in a laboratory scale fluidized bed combustor	Fuel Processing Technology	89 Issue 11	1121- 1134	2008	4.507
M. Sreekanth, D. <i>Ruben Sudhakar</i> , B.V.S.S.S. Prasad, Ajit Kumar Kolar, and Bo Leckner	Modelling and experimental investigation of devolatilizing wood in a fluidized bed Combustor	Fuel	87 Issue 12	2698- 2712	2008	5.128

For complete list of publications please refer: https://scholar.google.co.uk/citations?user=FlxlHVcAAAAJ&hl=en

(B) Conferences/Workshops/Symposia Proceedings (Selected)

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
K.S. Pragadeesh, D. Ruben Sudhakar	Experimental investigation of devolatilisation of Indian coal and biomass in Chemical Looping Combustion	First International Conference on Energy and Environment: Global Challenges		Energy and Environment: Global Challenges	NIT Calicut	2018
D. Ruben Sudhakar, and Ajit Kumar Kolar	Digital X-Ray Radiography Technique for the Study of Char Formation	International conference on "Advances in Energy Research", ICAER		Advances in Energy Research	IITBombay	Dec., 2009

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of	Year of	ISSN/ISBN
, ,		Publishers	Publication	Number
Vasudevan	Book Chapter:	Materials,	2017	ISBN 978-
N.K., Ruben		Energy and		981-10-
Sudhakar D	Optimal Off-Grid Hybrid	Environment		2675-1
	Options for Power	Engineering.		
	Generation in Remote			
	Indian Villages: HOMER	Springer,		
	Application and Analysis.	Singapore		