



JSS MAHAVIDYAPEETHA

# JSS ACADEMY OF TECHNICAL EDUCATION

JSSATE Campus, Uttarahalli – Kengeri Main Road, Bangalore – 560 060

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1. **NAME** : Prof. Dr. A. Rathna
2. **Designation** : Professor
3. **Name of the Dept.** : Chemistry
4. **Date of joining the Institution:** 03-11-1997
5. **Date of Birth** : 20-05-1967
6. **Father's Name** : K. Ananthaiah
7. **Sex** : Female
8. **Nationality** : INDIAN
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  - a. **Correspondance** : Professor, Department of chemistry,  
JSS ACADEMY OF TECHNICAL EDUCATION,  
UTTARAHALLI – KENGERI MAIN ROAD  
BENGALURU 560060
  - b. **Permanent Address** : House No. 4043/203, Puttannakanagal apartments,  
28th cross road, Banashankari II stage ,Bengalore-560070
11. **Employment Type** : Permanent
12. **Educational Qualifications** :MSc.,Ph.D.  
(In reverse Chronological Order)



Sl. No.	Degree	Branch	Specialization	Year of passing	University
1	Ph.D.	Faculty of science	Organic chemistry	March 1995	Indian Institute of Science, Bangalore
2	M.Sc.	Chemistry	Organic chemistry	June 1989	University of Mysore
3	B.Sc.	Science	Physics, chemistry, Mathematics	April 1987	

13. **Service / Experience Details** : 26 years  
(In reverse Chronological Order)

a. **Teaching Experience:** 19 years

Sl. No.	From (mm/yy)	To (mm/yy)	No. of years	Degree or Diploma Institution	Designation	Name of the Institute
1	03-11-1997	Till date	19	Degree	Professor	JSSATE, Bengaluru

**Research experience:** 6.8 years

Sl. NO.	From	To	No. of yrs.	Designation	Name of the Company
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1	01-08-1995	31-07-1996	1.0	CSIR Research associate	IISc., Bengaluru
2	01-08-1989	31--03-1995	5.8	JRF, SRF	IISc., Bengaluru

**b. Industrial Experience: nil**

**14. Membership in various University Boards / Committees / Other (Specify):**

Sl. No.	Body	From	To	Name of the University / Institution / Organisation
1	LIC member	2015		VTU, Belagavi
2	Board of Studies (VTU nominee)	31.01.2009		BMSCE, Bengaluru, Autonomous institution.
3	Board of Examiners	18.12.2007	2009	MSRIT, Bengaluru ,Autonomous institution
4	Others	Life member		MISTE, Alumni IISc.,Bengaluru

15. Awards : Nil

16. Details of Books published : Nil

17. Number of Ph.D. Guidance : Number of Ph.D's awarded –

: Number of Ph.D.'s guiding - 01

18. Field of Expertise / Interest : Nanomaterial, Theoretical organic chemistry, Biofuels

19. Patents : Nil

20. Projects : 2

Sl. No.	Name of the project	Principal Investigator / Co-Investigator	Amount sanctioned From	Amount	Date of start of the project	Date of completion of the project	Outcome of the project
1	Development of laboratory testing facility for bi-diesel production center at JSSATE	Dr. A Rathna	DST, New Delhi	Rs. 19.2 Lakhs	21.07.2010	28.12.2012	Bio fuel quality testing.
2	Recent advances in applied chemistry and Nano technology	Dr. A Rathna (organized FDP)	VGST-VTU	2.0 lakhs	26 <sup>th</sup> to 31 <sup>st</sup> 2012		Faculty development

## 21. Details of Publications:

Google scholar link: [http://scholar.google.co.in/citations?view\\_op=list\\_works&user=hJdEU9kAAAAJ](http://scholar.google.co.in/citations?view_op=list_works&user=hJdEU9kAAAAJ)

As on 30-08-2016

Citation Indices	All	Since 2011
Citations	355	87
h-Index	5	2
i10-Index	3	1

Number of papers published in International Journals : 07

Number of papers published in National Journals : 05

Number of papers published in International Conferences : 01

Number of papers published in National Conferences : 02

### a. Journals: International

Sl. No.	Name of Co Author	Title of Paper	Name of the Journal	Publisher	Publication Citation ISSN, ISBN, Vol. No. Issue, pp
1	Pushkara Rao Varanasi Alex K.Y. Jen J. Chandrasekhar I. N. N. Namboothiri	The Important Role of Heteroaromatics in the Design of Efficient Second-Order Nonlinear Optical Molecules: Theoretical Investigation on Push-Pull Heteroaromatic Stilbenes	<i>J. Am. Chem. Soc.</i> ,	American Chemical Society	ISSN: Volume No. : 118 Issue : 49 Month & year: 1996 Page Nos.: 12443–12448
2	J Chandresekhar	Structures, stabilities and strain in C <sub>60</sub> and C <sub>70</sub> derivatives	Fuel and Energy Abstracts	Elsevier Science	ISSN: Volume No. : 37 Issue : 1 Month & year: 1996 Page Nos.: 18-23
3	Jayaraman Chandrasekhar	Structures, Stabilities of C <sub>60</sub> and C <sub>70</sub> derivatives:	Fullerene sci. and Tech.	Taylor and Francis	ISSN: Volume No. : 3 Issue : 6 Month & year: 1995

					Page Nos.: 681
4	J Chandrasekhar	Resilience of the fullerene cage: Analysis of distortions in computer structures of fullerene derivatives,	Journal of Mol. Struct. (THEOCHEM),	Elsevier	ISSN: Volume No. :324 Issue : Month & year: 1994 Page Nos.: 255
5	J Chandrasekhar	Theoretical study of hydrogenated buckminsterfullerene derivatives with benzenoid rings, C <sub>60</sub> H <sub>60-6n</sub> (n=1-8),	Chem. Phys. Letters	Elsevier Science	ISSN: Volume No. : 206 Issue : 1 Month & year: 1993 Page Nos.: 217
6	Jayaraman Chandrasekhar	MNDO study of coupled strained hydrocarbons: Additivity of exocyclic C-C bond contraction induced by different ring systems	Journal of Molecular Structure: THEOCHEM	Elsevier	ISSN: Volume No. : 228 Issue : Month & year: 1991 Page Nos.: 249-258
7	J Chandrasekhar	The influence of lone-pair repulsions on C-C bond lengths: A critical evaluation of experimental and theoretical evidence.	Journal of chem.Soc., Perkin Trans 2,	RSC publications	ISSN: Volume No. : Issue : Month & year: 1991 Page Nos.: 1661

b. Journals: National

Sl. No.	Name of Co Author	Title of Paper	Name of the Journal	Publisher	Publication Citation ISSN, ISBN, Vol. No. Issue, pp
1		Discovery of fullerenes : Giving a new shape to carbon chemistry	Resonance	Indian Academy of Sciences	ISSN: Volume No. : 2 Issue : 1 Month & year: 1997 Page Nos.: 68-74
2	Jayaraman Chandrasekhar	Factors contributing to phantom bonds in inorganic molecules: interpretations and predictions	Proceedings of the indian academy of sciences-chemical sciences	Springer India	ISSN: Volume No. : 106 Issue : 3 Month & year: 1994 Page Nos.: 599-607

3	Jayaraman Chandrasekhar	MNDO study of vicinal dihydrides of C70: Interpretation of relative stability's on the basis of Electronic and molecular	Current Science	Current Science Association in collaboration with the Indian Academy of Sciences (India)	ISSN: Volume No. : 65 Issue : 1 Month & year: 1993 Page Nos.: 768
4	A Govindaraj J Chandrasekhar CNR Rao	Investigations on C70H30 obtained by the Birch reduction of C70	Proceedings of the Indian Academy of Sciences- Chemical Sciences	Springer India	ISSN: Volume No. : 105 Issue : 4-5 Month & year: 1993 Page Nos.: 303 -309
5	J Chandrasekhar	Simple Structural And Bonding Representations Of Fullerenes	Indian Journal of Chemistry- Section A: Inorganic, Physical, Theoretical and Analytical Chemistry	National Institute of Science Communication and Information Resources	ISSN: Volume No. : 31 Issue : 5 Month & year: 1992 Page Nos.: F51 –F55

c. Conferences: International

Sl. No.	Name of Co author	Title of Paper	Name of the Conference	Publisher	Publication Citation ISSN, ISBN, Vol. No. Issue, pp
1		Cage distortions in fullerene derivatives.	TEQUIP sponsored International Conference on "Advanced materials and applications" BMSCE, Bengaluru		16 <sup>th</sup> & 17 <sup>th</sup> June 2016  Conference proceedings

d. National conferences / Symposium / workshops

Sl. No.	Name of Co author	Title of Paper	Name of the Conference	Publisher	Publication Citation ISSN, ISBN, Vol. No. Issue, pp
1	Madhuri makal	“Quality Assessment of Biodiesel Produced from Waste Sunflower Cooking Oil”	National Conference on ”Frontier & Challenges in Chemistry”  Presented a poster, Don Bosco Institute of Technology, Bengaluru.	souvenir	10 <sup>th</sup> to 11 <sup>th</sup> Oct. 2013
2	Latha M S, Latha K P, Vaghdevi H M	“Phytochemical investigations and anti bacterial activity of MangiferaIndicaMalagova-L root extracts”.	UGC Sponsored National Conference on “Herbal Medicines in the era of globalization”, Sahyadri Science College, shimoga	souvenir	10 <sup>th</sup> & 11 <sup>th</sup> September 2011.