

Dr. Abdul Rasheed T Mohammed

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PERSONAL DATA

Full Name:	Abdul Rasheed <small>First</small>	Mohammed <small>Father</small>	Buharikkutty <small>Grandfather</small>	Thamarassery <small>Family Name</small>						
	تاماراسري □□□□□□□□	بهاريكوتي □□□□ □□	محمد □□□□ □□	عبد الرشيد □□□□□ □□□□□						
Nationality:	Indian									
Date of Birth:	1	5	/	0	2	/	1	9	5	8
	<small>D</small>	<small>D</small>		<small>M</small>	<small>M</small>		<small>Y</small>	<small>Y</small>	<small>Y</small>	<small>Y</small>
Place of Birth:	Ernakulam, Kerala state, India									
Marital Status:	Married									
UD Employee ID:	400363		Date of Joining:	24 – 4 – 2002						
Department:	Physics									
Official UD email:	athameralssery@ud.edu.sa		Other email:	rasheedt@gmail.com						
Office Tel. No.	31057									
Mobile No.	0508096375									
Home Tel. No.	03 8354830									

Language Proficiency:

Language:	Read	Write	Speak
Arabic	*		
English	*	*	*
Malayalam	*	*	*
Hindi	*	*	*

ACADEMIC QUALIFICATIONS: (beginning with the most recent)

Date	Academic Degree	Specialty	Institute	Country
1988	PhD	Laser Spectroscopy	Cochin University	India
1981	M Sc	Spectroscopy	Cochin University	India

PhD, Master or Fellowship research title: (Academic honors or distinctions)

PhD:	Laser and NIR Spectroscopy of CH vibrational overtones
Master:	Physics with Specialization in spectroscopy
Fellowship:	

PROFESSIONAL RECORD: (beginning with the most recent)

University Appointments

from	to	Academic Posts	Specialty/Department	Institute & Country
2002	2013	Assistant Professor	Physics	University of Dammam
1992	2002	Reader	Physics	Cochin University, India
1988	1992	Lecturer	Physics	MG Government College, Mahe, India

Hospital Appointments: NIL

from	to	Hospital Title	Institution
Specialty:			
Subspecialty:			
Areas of Expertise:			
Saudi Commission for Health Specialties registration No.			Valid until:

Clinical Responsibilities: NIL

1.	
2.	
3.	

RESEARCH ACHIEVEMENTS (beginning with the most recent) Your name should be bold & use rows as necessary

Published Refereed Scientific Research Papers: (use Vancouver Style, "author-number system")

1.	Zachariah T.P., Honey J., Mary K., Rasheed T.M.A. Study of Heat Diffusion in Polyaniline by Open Photoacoustic Cell Technique. Int. J Polym Mater. 2008; 57 (9): 852-859.
2.	Zachariah T.P., Jyotsna R., Nair K.P.R., Rasheed T.M.A. Thermal Diffusivity of Plasma-Polymerized Polyaniline Films by Transverse Probe Beam Deflection Method. Int J Polym. Mater. 2008; 57 (6): 607 – 614.
3.	Raveendranath K., Jyotsna R., Jayalekshmi S., Rasheed T.M.A., Nair K.P.R. Thermal diffusivity measurement on LiMn2O4 and its de-lithiated form (λ -MnO ₂) using photoacoustic technique. Mater.Sci. Engg-B. 2006; 131: 210 - 215.
4.	Kuriakose S., Vijayan K.K., Shaji S., Shibu E.K., Nair K.P.R., Rasheed T.M.A. CH overtone spectrum of nitromethane: a C3V coupled oscillator analysis using local mode parameter. Spectrochimica Acta Part A. 2004; 60 (10): 2283 - 2286.
5.	Shaji S., Shibu E.K., Nair K.P.R., Rasheed T.M.A. NIR vibrational overtone spectra of toluidines—evidence for steric and electronic effects in o-toluidine. Spectrochimica Acta Part A. 2004; 60: 2275 - 2281.
6.	Shaji S., Shibu E.K., Rasheed T.M.A. , Nair K.P.R. NIR vibrational overtone spectra of N-methylaniline, N,N-dimethylaniline and N,N-diethylaniline—a conformational structural analysis using local mode model. Spectrochimica Acta Part A. 2004; 60: 351 - 355.
7.	Jyotsna R., Lakshmi S., Nair K.P.R., Rasheed T.M.A. A simple theoretical extension to the analysis of photothermal deflection signal for low thermal diffusivity evaluation. J. Quant. Spectr. Rad. Transfer. 2004; 83: 193 - 202.

8.	Alex M., Jyotsna R., Madhusoodanan K.N., Nair K.P.R., Rasheed T.M.A. Thermal diffusivity measurements of semiconducting amorphous GexSe100-x thin films by photothermal deflection technique. Appl. Surface Science. 2004; 227(1-4): 410 - 415.
9.	Saji A., Jyotsna R., Ampili S., Rasheed T.M.A. , Nair K.P.R., Tamio E., Elizabeth M. Effect of Te doping and electron irradiation on thermal diffusivity of Bi2Se3 thin films by photo thermal technique. J Phys D Appl.Phys. 2003; 36: 994 - 1000.
10.	Jyotsna R., Jayaraj M.K., Vanaja K.A., Nair K.P.R., Rasheed T.M.A. Photoacoustic investigations on thermal diffusivity of CuGa1-xFexO2. Semicond. Sci. Technol. 2003; 18: 693 - 696.
11.	Vijayan K.K., Kurakose S., Nair K.P.R., Rasheed T.M.A. Overtone spectrum of formamide in the near infrared region- evidence for the inhibition of lone pair trans effect. Asian J Spectroscopy. 2002; 6: 43 - 46.
12.	Sunny K., Vijayan K.K., Nair K.P.R., Rasheed T.M.A. Overtone spectra of allyl chloride and allyl alcohol in the near infrared region. Asian J Phys. 2002; 11(1): 70-74.
13.	Vijayan K.K., Sunny K., Nair K.P.R., Rasheed T.M.A. Vibrational overtone spectrum of 2-furaldehyde in the NIR region. Asian J Phys. 2002; 11 (1): 66 - 69.
14.	Sunny K., Vijayan K.K., Nair K.P.R., Rasheed T.M.A. Overtone spectrum of cinnamaldehyde in the NIR region- evidence for indirect lone pair trans effect. Asian J. Spectroscopy. 2001; 5: 185-189.
15.	Vijayan K.K., Sunny K., Nair K.P.R., Rasheed T.M.A. Overtone spectra of benzaldehyde and salicylaldehyde: Evidence for the inhibition of indirect and direct lone pair trans effects. Asian J Spectroscopy. 2001; 1: 17 - 23.
16.	Ramesh Babu T., Rasheed T.M.A. More Accurate line shape function for the TEMq00 mode of a passive FP optical resonator. Asian J. Phys. 2000; 9 (4): 875 - 877.
17.	Rasheed T.M.A. , Shaji S. CH overtone spectrum of methyl cyanide: a C3v coupled oscillator analysis. Asian J. Phys. 1999; 8(2): 199 - 204.
18.	Nagavally H., Madhusoodanan K., Rasheed T.M.A. Effect of He+ and H+ ion irradiation probed by NIR photothermal deflection Spectroscopy. Appl. Phys. 1999; 68: 475 - 478.
19.	Minimol A, Mini S, Malini K A, Samkumar M.C, Joseph M.J, Tenson J, Sakthikumar D , S. Jayalekshmi S, Rasheed T M A , and Anantharaman M R, Preparation and characterization of plasma-polymerized aniline thin films, Ind. J. Pure. Appl. Phys. 1996; 34: 966-971.
20.	Rasheed T.M.A. CH overtone spectrum of biphenyl- evidence for the cumulative effect of conjugated resonance structures. Spectrochim. Acta A. 1996; 52: 1493.
21.	Shamsuddeen S.P., Rasheed T.M.A. , Jayaraj M.K. CH overtone spectroscopy of acrylonitrile and polyacrylonitrile. Ind. J. Pure. Appl. Phys. 1996; 34: 534.
22.	Rasheed T.M.A. , Moosad K.P.B., Nampoori V.P.N. Sathianandan K CH local mode overtone excitations in benzyl chloride-a conformational study. Pramana-J. Phys. 1994; 42: 245.
23.	Moosad K.P.B., Rasheed T.M.A. , Nampoori V.P.N. Sathianandan K. Optical Phase conjugation in dyes embedded in polymer films. Opt. Engg. 1990; 29: 47 - 51.
24.	Moosad K.P.B., Rasheed T.M.A. , Nampoori V.P.N. Sathianandan K. Low power optical conjugation in dyes embedded in polyvinyl alcohol films. Appl. Opt. 1990; 29: 449-53.
25.	Moosad K.P.B., Rasheed T.M.A. , Nampoori V.P.N. Sathianandan K. Investigations on thin film saturable absorbers suitable for optical phase conjugation. J. Opt. 1998; 17: 24 - 27.
26.	Subhash N., Satheeshkumar M.K., Rasheed T.M.A. , Sathianandan K. A multi-pass long path cell for absorption measurements. J. Opt. 1987; 16: 51-54.
27.	Rasheed T.M.A. , Moosad K.P.B., Nampoori V.P.N. Sathianandan K. Overtone Spectra of Styrene and Polystyrene in the visible and near infrared regions. Pramana-J. Phys. 1989; 33: 391 - 95.
28.	Rasheed T.M.A. , Moosad K.P.B., Nampoori V.P.N. Sathianandan K. CH local mode excitation and Fermi Resonance in trichloroethylene. Spectrochimica. Acta. 1987; 43A: 1183 - 1187.
29.	Rasheed T.M.A. , Nampoori V.P.N., Sathianandan K. Near Infrared Spectrum of 2-butanone- a local mode analysis. Spectrochim. Acta. 1987; 43A: 925-927.

30.	Rasheed T.M.A. , Moosad K.P.B., Nampoori V.P.N. Sathaiyanandan K. CH overtones in acetophenone and benzaldehyde-aryl and methyl local modes. J Phys. Chem. 1987; 91: 4228.
31.	Rasheed T.M.A. , Nampoori V.P.N., Sathaiyanandan K. Overtone Spectra of 1,2 dichloro and dibromo ethanes in the NIR region. Chem. Phys.1986; 108: 349 - 354.

Refereed Scientific Research Papers Accepted for Publication: NIL

	Name of Author/s	Research Title	Journal	Acceptance date
1.				
2.				
3.				
4.				
5.				

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences:

(use Vancouver system)

1.	Shaji S., Shibu M.E., Rasheed T.M.A. , Nair K.P.R. High resolution tunable diode laser spectrum of OH group second overtone in ethanol: International conference on Tunable Diode laser. Spectroscopy TDLs. 2003; Connecticut USA; 17-20 July 2003, Poster D13.
2.	
3.	

Scientific Publications (Books, Translations, Chapter in Books, etc.) NIL

(use Vancouver system and include only refereed books)

1.	
2.	
3.	
4.	

Completed Research Projects:

	Name of Investigator/s	Research Title	Report Date	Funding source & Amount
1.	Abdul Rasheed, Rajappan Nair	NIR DIODE laser spectroscopy of organic compounds	2005	INR 1500,000
2.	Abdul Rasheed, Thomas P Zachariah	Thermal properties of polymers using laser techniques	2009	INR 500, 000
3.				
4.				

Current Research:

	Name of Investigator/s	Research Title
1.	Abdul Rasheed	NIR spectroscopy of biologically important molecules Work being carried out in Cochin University, India.

Scientific Reports: NIL

	Name of Authors	Research Title	Submitted to
1.			
2.			
3.			
4.			

Contribution to Scientific Journals as a Reviewer or as a Member in the Editorial Board: NIL

	Type of contribution	Journal	Institution	Country	from	to
1.						
2.						

Research Areas of Interest

1.	Thermal properties of materials
2.	Laser spectroscopy
3.	Quantum Optics
4.	Physics in Biology and Medicine

Patents: NIL

1.	
2.	

CONTRIBUTION TO SCIENTIFIC CONFERENCES & SYMPOSIA: (beginning with the most recent)

	Title	Place and date of the conference	Extent of contribution (attendant, speaker, or organizer)
1.	4 th Quantum Electronics symposium	Cochin, India Dec 23, 1986-Jan 1, 1987	Attendant, organizer
2.	National Laser symposium NLS – 2000	New Delhi, December 13-15, 2000	Attendant
3.	National Seminar on Current Trends in Material science	Kottayam, Kerala, 23-24, march 2001	Attendant
4.			

MEMBERSHIP OF SCIENTIFIC AND PROFESSIONAL SOCIETIES AND ORGANIZATIONS:

International: NIL

	Type	Society / council	Address	Date
1.				
2.				

National: NIL

	Type	Society / council	Address	Date
1.				
2.				

Awards and Honors:

	Awards and Honors:	International / National organization	Date
1.	Best Poster award	National – IV th Quantum electronics symposium , Department of Atomic energy, India, held at Cochin, India	Dec-23,1986- Jan1, 1987
2.			

TEACHING ACTIVITIES: *Delivering Lecture/Workshops & other Teaching Methods*

Undergraduate:

	Course/Rotation Title	No./Code	Extent of contribution (no of lectures/tutorials. or labs, clinics)
1.	BSc	200	4 credit (3 lect + 1 lab)
2.	Pre medical Physics	104	2 lectures + 1 lab

Brief description of undergraduate courses taught: (Course Title – Code: description)

1.	Mechanics, Properties of matter, Electricity and magnetism, Optics, Thermodynamics, Modern physics
2.	Physics for Medicine, AMS and Dentistry (old scheme) Physics for health path for Prep year (new scheme)

Postgraduate:

	Course/Rotation Title	No./Code	Extent of contribution (no of lectures/tutorials. Or labs, clinics)
1.	Mathematical Physics		60 lecture course
2.	Quantum Electronics		60 lecture course
3.	Atomic and Molecular Physics		60 lecture course

Brief description of postgraduate courses taught: (Course Title – Code: description)

1.	Atomic and molecular Physics core paper for M Sc Physics students, Quantum Electronics I and II special papers for M Sc Physics
2.	Mathematical physics- core paper for M Sc physics students
3.	Modern Optics core paper for M Tech students, Laser applications core paper for M Tech students

Course Coordination:

	Course Title & Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	to
1.	Quantum Electronics	*			*	1996	2002
2.							
3.							
4.							

Guest/Invited Lectures for Undergraduate Students: NIL

	Course Title & Code	Subject	College & University	Date
1.				
2.				
3.				
4.				

Guest/Invited Lectures for Postgraduate Students: NIL

	Activity/Course Title & Code	Subject	College & University or program	Date
1.				
2.				
3.				

Student Academic Supervision and Mentoring: NIL

	Level	Number of students	from	to
1.				
2.				
3.				

Supervision of Undergraduate Student Research: NIL

	From - to	Level & course	Title	No. of students
1.				
2.				

Supervision of Master and/or PhD Thesis:

	Degree Type	Title	Institution	Date
1	PhD	Photothermal and photoacoustic investigations on certain Polymers and Semiconductors	Cochin University of Science & Technology, India.	2004
2	PhD	Tunable Diode Laser Spectroscopy, Near Infrared Overtone and Laser Induced Fluorescence Studies of Some Organic Compounds	Cochin University of Science & Technology, India.	2004
3	PhD	NIR spectroscopic and laser induced fluorescence studies of some organic molecules-	Cochin University of Science & Technology, India.	2004
4	PhD	NIR spectroscopic and laser induced fluorescence studies of some organic molecules-	Cochin University of Science & Technology, India.	2004

Ongoing Research Supervision: NIL

	Degree Type	Title	Institution	Date
1.				
2.				
3.				

Participation in Examinations (as an External/internal examiner)

	External/internal	College & University or program	Specialty	Date
1.	M Sc	Cochin University of science & Technology	Physics	1992-2002
2.	M Tech	Cochin University of science & Technology	Optoelectronics and Laser Technology	1992-2002
3.	M Phil	Cochin University of science & Technology	Physics	1992-2002

ADMINISTRATIVE RESPONSIBILITIES, COMMITTEE MEMBERSHIP & COMMUNITY SERVICE:

(beginning with the most recent)

Administrative Responsibilities: NIL

	from	to	Position	Organization
1.				
2.				
3.				

Committee Membership: NIL

	from	to	Committee	Organization
1.				
2.				
3.				

Scientific Consultations: NIL

	from	to	Institute	Full-time or Part-time
1.				
2.				
3.				

Volunteer Work: NIL

	from	to	Type of Volunteer	Organization
1.				
2.				
3.				

Personal Key Competencies and Skills: (computer, Information technology, technical, etc.)

1.	Microsoft Word, Excel
2.	Power Point