

Curriculum Vitae

Dr. Ranjan Das

(Professor since 6th November, 2012)

Professor & Head, Department of Chemistry

West Bengal State University

Berunanpukuria, P.O. Malikapur, Barasat, Kol - 700126

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Date of Birth: 26th September, 1968

Academic Honours and Distinctions

Invited Scientist Oct.-Dec. 2014 **Laboratoire Francis Perrin, CEA/Saclay, France**

Visiting Professor May-June, 2014 **University of Santiago de Compostela, Spain**

Invited Professor June-July, 2010 **Laboratoire de Biophotonique et Pharmacologie,
Universite de Strasbourg, France**

Associate Scientist (CNRS) 2007-2008 **Laboratoire de Biophotonique et Pharmacologie,
Universite de Strasbourg, France**

(Formerly Institut Gilbert Laustriat, Universite de Louis Pasteur, France)

Post-Doctoral Research Associate 2003-2005 **Department of Chemistry, Iowa State University,
Ames, Iowa, USA**

CSIR JRF award in 1992 by the Council of Scientific & Industrial Research for qualifying NET

Educational Qualifications:

Examination	Year	Board/University	% marks	Class/Div.
Ph.D. (Science)	1997	I.A.C.S./J.U.		
M.Sc.	1991	C.U.	67.2	First
B.Sc. (Hons)	1988	C.U.	55.25	Second
H. S.	1985	WBCHSE	70.4	First
Madhyamik	1983	WBBSE	72.88	First

Professional/Teaching Experience:

Designation	From	To	University/College
Professor	06.11.2012	Till date	West Bengal State University
Associate Professor	06.11.2009	05.11.2012	West Bengal State University
Reader	27.10.2009	05.11.2009	West Bengal State University
Reader	06.11.2006	27.10.2009	B. K. Girls' College, Howrah
Senior Lecturer	06.11.2001	05.11.2006	B. K. Girls' College, Howrah
Lecturer	02.08.2000	05.11.2001	B. K. Girls' College, Howrah
Lecturer	06.11.1997	01.08.2000	J. K. College, Purulia

Academic-administrative responsibilities: Past and present

1. *Member of the Court of WBSU (2018-22), Vice-Chancellor's Nominee*
2. *Formerly Member of the Executive Council (2014-15) of WBSU*
3. *Member (Vice Chancellor's Nominee) in the Governing body, Bidhannagar College*
4. *Ex-Member (Vice Chancellor's Nominee) in the Governing body, Dum Dum Motijheel College*
5. *Head, Dept. of Chemistry, 2013-15 & 01/02/2023 till date*
6. *Convener (Ex-officio) Postgraduate Board of Studies in Chemistry, WBSU 2013-15*
7. *Convener (Ex-officio) of the Board of Research Studies in Chemistry, WBSU, 2013-15 & 2023-*
8. *Member of the Board of Research Studies in Chemistry, WBSU, 2015-till date*
9. *Formerly member (External) in the Postgraduate Board of Studies in Chemistry of University of Gour Banga & Vidyasagar University*

Research projects ongoing/completed:

1. Minor research project of UGC (Tenure: 2002-04), Amount sanctioned: INR 50,000/-
2. Major research project funded by CSIR: Synthesis and Photophysics of Oxazole-based Fluorescent dyes in homogeneous media: A tool for probing Microheterogeneous media and Supramolecular host assemblies (Tenure: October, 2011 to December, 2014) Amount sanctioned: INR 19.00 Lakhs
3. Major research project funded by DST, Govt. of West Bengal: Fluorescence probing of relaxation dynamics at interfaces and their role in biomolecular recognition (Tenure April, 2018 to March, 2021), Amount sanctioned: INR 10.40 Lakhs.

Number of Ph.D. scholars awarded/under supervision/registered for Ph.D.

Ph.D. awarded: **Two**

Registered for Ph.D.: **One**

Invited Lectures delivered abroad

- “Modulation of Light-induced response of Hypericin, a perylene quinone, by isoforms of an enzyme” on October 22nd, 2007 at *Département de Pharmacologie et Physico -Chimie des Interactions Cellulaires et Moléculaires, Institut Gilbert Laustriat, Université Louis Pasteur de Strasbourg (France)*
- “Photophysics of an apoptosis probe in large unilamellar vesicles: A unique case of ESIPT and Solvent Relaxation” on 4th February, 2008 at *Département de Pharmacologie et Physico -Chimie des Interactions Cellulaires et Moléculaires, Institut Gilbert Laustriat, Université Louis Pasteur de Strasbourg (France)*
- “Controlling ESIPT dynamics via Host-Guest Complexation” on July 12th, 2010 at *Laboratoire de Biophotonique et Pharmacologie (CNRS UMR 7213), Faculté de Pharmacie, Université de Strasbourg (France).*
- “Photophysics of 3-hydroxychromone dyes: From Supramolecular assemblies To Site specific probing of peptide interactions” on 1st December, 2014 at *Laboratoire Francis Perrin , CEA/Saclay, France*
- “Photophysics of 3-hydroxychromone dyes: From Supramolecular assemblies To Site specific probing of peptide interactions” on 5th December, 2014 at *Laboratoire de Chimie Physique, Université de Paris -Sud, 91 405 Orsay Cedex – France*

Invited seminar:

- “Modulation of ES IPT Dynamics in ionic micelles & cyclodextrins” on Dec. 14, 2013 at the National Conference on Photosciences: Contemporary Challenges and Future Perspectives organized by the Indian Photobiology Society

Number of Research publications 69 till date

Google Scholar h-index 18, i10-index 33

Research Publications

1. *Unraveling an ultrafast electron transport mechanism in a photocatalytic “micromachine” for their potential light harvesting applications*, N. Pan, L. Roy, A. Banerjee, R. Ghosh, M.A. Alsharif, B. H. Asghar, R J. Obaid, A. Chattopadhyay, **R. Das**, S A. Ahmed, S. K. Pal, *Micromachines* 14(5) (2023) 980 (**Impact Factor 3.523**)
2. *Spectroscopic studies on a natural biomarker for the identification of origin and quality of tea extracts for the development of a portable and field deployable prototype*, A. Banerjee, R. Ghosh, S. Singh, S. Mondal, L. Roy, S. Midya, S. Mukhopadhyay, S. S. Chowdhury, S. Chakraborty, **R. Das**, J. H. Al-Fahemi, Z. Moussa, A. K. Mallick, A. Chattopadhyay, S. A. Ahmed, S. K. Pal, *Spectrochimica Acta Part A* 291 (2023) 122842. (**Impact Factor 4.831**)
3. *Mimicking cellular fusion in a microfluidic channel via time-resolved chemiluminescence*, R. Ghosh, D. Mukherjee, G. Ghosh, M. N. Hassan, A. Chattopadhyay, **R. Das**, S. K. Pal, **J. Photochem. Photobiol. A: Chem.** 441 (2023) 114731. (**Impact factor 5.141**)
4. *A Novel Molecular Reporter for Probing Protein DNA Recognition: An Optical Spectroscopic and Molecular Modeling Study*, G. Ghosh, D. Mukherjee, R. Ghosh, P. Singh, U. Pal, A. Chattopadhyay, M. Santra, K. H. Ahn, P. M. Selvakumar, **R. Das** and S. K. Pal, *Spectrochimica Acta Part A* 291 (2023) 122313. (**Impact Factor 4.831**)
5. *Molecular co-localization of multiple drugs in a nanoscopic delivery vehicle for potential synergistic remediation of multi-drug resistant bacteria*, A. Banerjee, D. Mukherjee, A. Bera, R. Ghosh, S. Mondal, S. Mukhopadhyay, **R. Das**, H. M. Altass, S. A. Natto, Z. Moussa, S A. Ahmed, A. Chattopadhyay and S. K. Pal, *Sci. Rep.* 12 (2022) 18881. (**Impact factor 4.996**)

6. *A Combined Spectroscopic and Molecular Modeling Study on Structure-Function-Dynamics under Chemical Modification: Alpha-Chymotrypsin with Formalin Preservative*, S. A. Ahmed, P. Biswas, A. Adhikari, U. Pal, S. Mondal, D. Mukherjee, R. Ghosh, R. J. Obaid, Z. Moussa, S. S. Choudhury, **R. Das** and S. K. Pal, *Front. Chem.* (2022) (*In Press*). (Impact factor 5.545)

7. *Pico-second resolved Förster resonance energy transfer (FRET) differentiates self-assembled biological macromolecules in aqueous medium*, L. Roy, D. Mukherjee, S. Singh, A. Banerjee, N. Bhattacharyya, A. Halder, P. Singh, S. Mukhopadhyay, K. Bhattacharyya, **R. Das**, S. K. Pal, *Chemical Physics Impact* 4(2022)100081

8. *Oral drug delivery using a polymeric nano carrier: Chitosan Nanoparticles in the delivery of rifampicin*, R. Ghosh, S. Mondal, D. Mukherjee, A. Adhikari, S. A. Ahmed, R. A. Alsantali, A.S. Khder, H. M. Altass, Z. Moussa, **R. Das**, M. Bhattacharyya and S. K. Pal, *Mater. Adv.*, 3, 2022, 4622-4628

9. *Host-assisted delivery of a model drug to genomic DNA: Key information from ultrafast spectroscopy and in silico study*, R. Ghosh, S. Singh, D. Mukherjee, S. Mondal, M. Das, U. Pal, A. Adhikari, A. Bhushan, S. Bose, S. S. Bhattacharyya, D. Pal, T. Saha-Dasgupta, M. Bhattacharyya, D. Bhattacharyya, A. K. Mallick, **R. Das** and S. K. Pal. *ChemBioChem* 23 (2022) e202200109 (Impact factor 3.461)

10. *Reversible photoswitching of spiropyran in biomolecular interfaces: A combined spectroscopy and computational study*, D. Mukherjee, G. Chakraborty, M. N. Hasan, U. Pal, P. Singh, T. Rakshit, R. I. Alsantali, T. Saha-dasgupta, S. A. Ahmed, **R. Das** and S. K. Pal, *J. Photochem. Photobiol. A: Chem.* 430 (2022) 113958. (Impact factor 5.141)

11. *Essential Loop Dynamics Modulates Catalytic Activity in α -Chymotrypsin*, P. Biswas, U. Pal, A. Adhikari, S. Mondal, D. Mukherjee, R. Ghosh, T. Saha-Dasgupta, S. S. Chowdhury, **R. Das** and S. K. Pal, *Chemistry Select* 7(2022)e202104262. (Impact factor 2.3)

12. *Decoding the Kinetic Pathways Towards Lipid/DNA Complex of Alkyl-alcohol Cationic lipids formed in a Microfluidic Channel*, D. Mukherjee, M. N. Hasan, R. Ghosh, G. Ghosh, A. Bera, E. S. Prasad, A. Hiwale, P. Vemula, **R. Das** and S. K. Pal, *J. Phys. Chem. B* **126** (2022) **588–600** (Impact Factor **3.446**)
13. *Fabrication of nanohybrids toward improving therapeutic potential of a NIR photo-sensitizer: An optical spectroscopic and computational study*, A. Bera, M. N. Hasan, U. Pal, D. Bagchi, T. K. Maji, T. Saha-Dasgupta, **R. Das** and S. K. Pal, *J. Photochem. Photobiol. A: Chem* **424** (2022) **113610** (Impact factor **5.141**)
14. *Polyethylene Glycol-Mediated Fusion of Extracellular Vesicles with Cationic Liposomes for the Design of Hybrid Delivery Systems*, D. Mukherjee, D. Paul, S. Sarkar, M. N. Hassan, R. Ghosh, S. Prasad, P. K. Vemula, **R. Das**, A. Adhikary, S. K. Pal and T. Rakshit, *ACS Appl. Bio Mater.* 2021, 4, 12, 8259–8266
15. *Host assisted molecular recognition by human serum albumin: Study of molecular recognition controlled protein/drug mimic binding in a microfluidic channel*, D. Mukherjee, P. Singh, S. Singh, D. Singh Roy, S. Singha, U. Pal, J. Sengupta, R. J. Obaid, S. A. Ahmed, T. S. Dasgupta, **R. Das** and S. K Pal, *Int. J. Biol. Macromol.* 176(2021)137-144. (Impact factor **8.025**)
16. *Differential Flexibility Leading to Crucial Microelastic Properties of Asymmetric Lipid Vesicles for Cellular Transfection: A Combined Spectroscopic and Atomic Force Microscopy Studies*, D. Mukherjee, T. Rakshit, P. Singh, S. Mondal, D. Paul, M. Ahir, A. Adhikari, T. P. P. Purayil, P. K. Vemula, D. Senapati, **R. Das** and S. K. Pal, *Colloids and Surfaces B: Biointerfaces* **196** (2020) **111363** (Impact factor **5.999**)
17. *Deciphering the Response of Asymmetry in Hydrophobic Chains of Novel Cationic Lipids towards Biological Function*, D. Mukherjee, P. Singh, T. Rakshit, T. P. P. Purayil, P. K. Vemula, J. Sengupta, **R. Das** and S. K. Pal, *Phys. Chem. Chem. Phys.* **22** (2020) **1738**. (Impact factor **3.945**)
18. *Flexibility Modulates Catalytic Activity of a Thermostable Enzyme: Key Information from Optical Spectroscopy and Molecular Dynamics Simulation*, P. Biswas, A. Adhikari, U. Pal, P. Singh, M. Das, T. Saha-Dasgupta, S. S. Choudhury, **R. Das**, and S. K. Pal, *Soft Matter* **16** (2020) **3050**. (Impact factor **4.046**)

19. *Selective and Fast Responsive Sensitized Micelle for Detection of Fluoride Level in Drinking Water*, A. Halder, S. Singh, A. Adhikari, P. Singh, P.K. Sarkar, U. Pal, R. Ghosh, D. Sikha, Y. S. Solanki, M. Agarwal, A.B. Gupta, R. Chakraborty, T. Saha-Dasgupta, **R. Das**, S.K. Pal, *ACS Sustainable Chem. Eng.* 7(2019)16355-16363 (**Impact Factor 9.224**)
20. *Modulation of Kinetic Pathways of Enzyme-Substrate Interaction in a Microfluidic Channel: Nanoscopic Water Dynamics as a Switch*, P. Singh, D. Mukherjee, S. Singha, **R. Das**, S.K. Pal, *Chemistry A Eur. J.*, 25(2019)9728-9736 (**Impact Factor 5.02**)
21. *Unraveling the Role of Monoolein in Fluidity and Dynamical Response of a Mixed Cationic Lipid Bilayer*, P. Singh, V.K Sharma, S. Singha, V.G. Sakai, R Mukhopadhyay, **R. Das**, S. K. Pal, *Langmuir* 35(2019)4682-4692 (**Impact Factor 4.331**)
22. *Probing relaxation dynamics of a cationic lipid based non-viral carrier: a time-resolved fluorescence study*, P Singh, D Mukherjee, S Singha, VK Sharma, I Althagafi, S. A. Ahmed, R. Mukhopadhyay, **R. Das**, S. K. Pal, *RSC Adv.* 9(2019)35549-35558.
23. *Modulation of Solvation and Molecular Recognition of a Lipid Bilayer under Dynamical Phase Transition*, P. Singh, S Choudhury, V.K Sharma, S Mitra, R Mukhopadhyay, **R. Das**, S. K. Pal, *Chem Phys Chem* 19(2018)1-9. (**Impact Factor 3.52**)
24. *Picosecond Solvation Dynamics in Nanoconfinement: Role of Water and Host–Guest Complexation*, S. Biswas, S. Santra, S. Yesylevskyy, J. Maiti, M. Jana, **R. Das**, *J Phys Chem B.* 122(2018)3996-4005 (**Impact Factor 3.466**)
25. *A sensitive fluorescent probe for the polar solvation dynamics at protein-surfactant interfaces*, P. Singh, S. Choudhury, S. Singha, Y. Jun, S. Chakraborty, J. Sengupta, **R. Das**, K. H. Ahn, S. Pal, *Phys Chem Chem Phys.* 19(2017)12237-12245. (**Impact Factor 3.945**)

26. *Environment sensitive fluorescent analogue of biologically active oxazoles differentially recognizes human serum albumin and bovine serum albumin: Photophysical and molecular modeling studies*, J. Maiti, S. Biswas, A. Chaudhuri, S. Chakraborty, S. Chakraborty, **R. Das**, *Spectrochimica Acta Part A* 175(2017)191–199 (**Impact Factor 4.831**)
27. *Slow solvation dynamics in supramolecular systems based on bile salts: Role of structural rigidity of bile salt aggregates*, J. Maiti, V. Kalyani, S. Biswas, F.R. Prieto, M. Mosquera, **R. Das**, *J.Photochem.Photobiol.A:Chemistry* 346 (2017) 17–23 (**Impact factor 5.141**)
28. *An efficient Two-Step synthesis of 2,5-Disubstituted Oxazole derivatives involving Cu- promoted carbon-carbon single bond formation*, J. Maiti, S. Biswas, **R. Das**, *Asian J. Chem.*, 28(2016)1519-22 **Group A of UGC-CARE List (as of 31st August 2019)**
29. *Photophysical study of a charge transfer oxazole dye in Micelles: role of surfactant headgroups*, J. Maiti, Y. Sarkar, P. Parui, S. Chakraborty, S. Biswas and **R. Das**, *J. Luminescence*, 163(2015)21-27. (**Impact factor 4.171**)
30. *Conquering 2-Aminopurine's Deficiencies: Highly Emissive Isomorphic Guanosine Surrogate Faithfully Monitors Guanosine Conformation and Dynamics in DNA*, M. Sholokh, R.Sharma, D. Shin, **R. Das**, O A. Zaporozhets, Y. Tor, Y. Mely, *J. Am. Chem. Soc.* 137(2015)3185–3188. (**Impact factor 16.383**)
31. *Fluorescent Amino Acid Undergoing Excited State Intramolecular Proton Transfer for Site-Specific Probing and Imaging of Peptide Interactions*, M. Sholokh, O M. Zamotaiev, **R. Das**, V. Y. Postupalenko, L. Richert, D. Dujardin, O A. Zaporozhets, V.G. Pivovarenko, A S. Klymchenko and Y. Mely, *J. Phys. Chem. B.*, 119(2015)2585-2595. (**Impact Factor 3.446**)
32. *Tuning Excited-State Proton Transfer Dynamics of a 3-hydroxychromone Dye in Supramolecular Complexes via Host-Guest Steric Compatibility*, **R. Das**, S. Chakraborty, A. Ghose, R. Ludovic, G. Duportail, A. Klymchenko, S. Yesylevskyy and Y. Mely, *Phys. Chem. Chem. Phys.*, 16(2014)776 (**Impact Factor 3.945**)

33. *Effect of Surface Charge of Phospholipid Membranes on the photophysics of 4'-(diethylamino)-3-hydroxyflavone dye*, R. Bhattacharyya and R. Das, *J.Ind.Chem.Soc.*, 91(2014)81. (**Impact Factor 0.243**)
34. *Exploring liquid crystalline and gel phase of lipid vesicles via the photophysics of a 4'-(diethylamino)-3-hydroxyflavone dye*, R. Das *J.Ind.Chem.Soc.*,90(2013)1105 (**Impact Factor 0.243**)
35. *Modulation of the Proton Transfer Dynamics of a 3-hydroxychromone Dye in Nonionic Micelles : The Role of the Hydrophile-Lipophile Balance parameter*, R. Das, *J.Ind.Chem.Soc.*, 90(2013)1093 (**Impact Factor 0.243**)
36. *Sensing Micelle Hydration by Proton-Transfer Dynamics of a 3-Hydroxychromone Dye: Role of the Surfactant Headgroup and Chain Length*, R. Das, G. Duportail, L. Richert, A.S. Klymchenko, and Y. Mély *Langmuir*, 28(2012)7147 (**Impact Factor 4.331**)
37. *Photocatalytic Properties of mixed oxides of BaCrO₄ and TiO₂*, T.K. Ghorai, C. Roy Choudhury, S. Biswas, M. Chakraborty, R. Das, J. Sengupta, *SMC Bulletin*, 2(2011)40. **ISSN 2394-5087**
38. *Unusually slow proton transfer dynamics of a 3-hydroxychromone dye in protic solvents*, R. Das, A. Klymchenko, G. Duportail and Y. Mely, *Photochem. Photobiol. Sci.*, 8(2009)1583 (**Impact factor 4.328**)
39. *Excited state proton transfer and solvent relaxation of a 3-hydroxyflavone probe in lipid bilayers*, R. Das, A.Klymchenko, G.Duportail and Y.Mely, *J.Phys.Chem.B.*, 112(2008)11929 (**Impact factor 3.446**)
40. *Interaction of Glutathione S-Transferase with Hypericin: A Photophysical Study*, M. Halder, P. K. Chowdhury, R. Das, P. Mukherjee, W. M. Atkins and J. W. Petrich, *J.Phys.Chem.B.*, 109(2005)19484 (**Impact Factor 3.446**)

41. *Excited state intermolecular proton transfer and caging of salicylidine-3,4,7-methylamine in cyclodextrins*, M. Mukhopadhyay, D. Banerjee, A. Koll, A. Mandal, A. Filarowski, D. Fitzmaurice, **R. Das** and S. Mukherjee, *J.Photochem.Photobiol. A:Chem.*, 175(2005)94
(Impact factor 5.141)
42. *Proton transfer reaction of 4-methyl-2,6-dicarbomethoxyphenol in nonpolar and weakly polar solvents*, A. Mandal, S. Mitra, **R. Das**, D.N.Nath and S. Mukherjee *J.Chem.Phys.*, 117(2002)5280
(Impact Factor 4.304)
43. *Proton transfer reaction of 4-methyl-2,6-diacetylphenol and an analysis with AM1 potential energy surfaces*, A. Mandal, D. Guha, **R. Das**, S. Mitra and S. Mukherjee, *J.Chem.Phys.*, 114(2001)1336 **(Impact Factor 4.304)**
44. *Ground and excited state proton transfer in some orthohydroxy aromatic compounds and solvent effect*, D. Guha, A. Mandal, **R. Das**, S. Mitra and S. Mukherjee, *Israel.J.Chem.*, 39(1999)375
(Impact Factor 3.357)
45. *Photoinduced proton transfer in 3-methyl-6-hydroxy-m-phthalic acid*, **R. Das**, S. Mitra, D. Guha and S. Mukherjee, *J. Luminescence.*, 81(1999)61 **(Impact factor 4.171)**
46. *Luminol fluorescence quenching by triethyl amine and non-linear Stern-Volmer plot: Solvent effect*, D. Guha, S. Mitra, **R. Das**, S. Mukherjee, *Ind.J.Chem.*, 38A(1999)760 *(Impact Factor 0.412)*
47. *Study of proton transfer reactions in binary solvent mixtures by steady state and nanosecond spectroscopy*, S. Mitra, **R. Das**, D. Guha, S. Mukherjee, *Spectrochimica Acta Part A.*, 54(1998)1073 **(Impact Factor 4.831)**
48. *Intramolecular proton transfer in Inclusion complexes of Cyclodextrins : role of water and highly polar nonaqueous media*, S. Mitra, **R. Das** and S. Mukherjee, *J.Phys.Chem.B.*, 102(1998)3730
(Impact Factor 3.446)

49. *Interaction of 3-aminophthalhydrazide with 5-hydroxytetracycline and chloramphenicol : a fluorescence quenching study*, D. Guha, S. Mitra, **R. Das**, U. Bhattacharjee and S. Mukherjee, *Spectrochimica Acta Part A* 54A(1998)525 (**Impact Factor 4.831**)
50. *Intramolecular charge transfers probing reaction: Fluorescence monitoring of Protein-Surfactant interaction*, **R. Das**, S. Mitra, S. Kar, S. Lahiri and S. Mukherjee, *J.Phys.Chem.A.*,101(1997)4042 (**Impact Factor 2.944**)
51. *Fluorescence studies on Luminol in water-organic solvent mixtures*, D. Guha, **R. Das**, S. Mitra and S.Mukherjee, *Ind.J.Chem.*,36A(1997)307 (**Impact Factor 0.412**)
52. *Energetic and kinetic aspects of intramolecular proton transfer in 4-methyl-2,6- diformylphenol: A detailed analysis with AM1 potential energy surfaces*, S. Mitra, **R. Das**, S. P. Bhattacharyya and S.Mukherjee, *J.Phys.Chem.A.*,101(1997)293 (**Impact Factor 2.944**)
53. *Excited state proton transfer as a probe for the microenvironment of a binding site of Bovine Serum Albumin: Effect of Urea*, **R. Das**, S. Mitra, D. N. Nath and S. Mukherjee, *J.Phys.Chem.*,100(1996)14514
54. *Spectroscopic studies and fluorescence quenching of luminol in aqueous medium*, U.Bhattacharjee, S.Mitra, **R. Das** and S.Mukherjee, *Ind.J.Chem.*,35A(1996)633 (**Impact Factor 0.412**)
55. *Ground and excited state proton transfer of o-hydroxybenzaldehyde and 4-methyl-2,6-diformylphenol in aqueous medium*, S. Mitra, **R. Das** and S. Mukherjee, *Spectrochim.Acta.*,52A(1996)373 (**Impact Factor 4.831**)
56. *Dynamical solvent effect on the intramolecular proton transfer reaction of 4-methyl-2,6-diformylphenol in mixed solvents*, S.Mitra, **R.Das** and S.Mukherjee, *J.Mol.Liquids.*,68(1996)65 (**Impact factor 6.633**)

57. *Dynamic processes of the excited state proton transfer of 4-methyl-2,6-diacetylphenol in protic solvents at room temperature and 77K : interaction with base*, **R. Das**, S. Mitra and S. Mukherjee, *J.Chimie.Physique.*,93(1996)458
58. *Absorption and emission spectra of 4-methyl-2,6-diformylphenol in protic solvents: interaction with amine bases*, R. Ray, S. Mitra, **R. Das** and S. Mukherjee, *Proc.Ind.Acad.Sci(Chem.Sci.)*, 108(1996)79 presently known as *J.Chem.Sci (Impact Factor 2.15)*
59. *Complex formation and photophysical properties of luminol: solvent effects*, S.Mitra, **R. Das** and S.Mukherjee, *J.Photochem.Photobiol.A:Chem.*,87(1995)225 (**Impact factor 5.141**)
60. *Effect of alkyl group of some alcohols on the proton transfer reaction of 4-methyl-2,6-diformylphenol and interaction with triethylamine*, **R. Das**, S.Mitra and S.Mukherjee, *Acta.Chemica.Scandinavica.*,49(1995)469
61. *Ground and excited state proton transfer of 4-methyl-2,6-diacetylphenol in some highly polar aprotic solvents: interaction with base*, **R.Das**, S.Mitra, D.N.nath and S.Mukherjee, *Ind.J.Chem.*,34A(1995)850 (**Impact Factor 0.412**)
62. *Excitation wavelength and solvent dependent emission spectra in weakly polar aprotic solvents in room temperature and 77K*, S. Mitra, **R. Das** and S.Mukherjee, *Spectrochimica Acta Part A*,50(1994)1301 (**Impact Factor 4.831**)
63. *Emission spectra of 4-methyl-2,6-diacetylphenol in 3-methylpentane at room temperature and 77K*, S. Mitra, **R. Das** and S. Mukherjee, *Chem.Phys.Letts.*228(1994)363 (**Impact Factor 2.719**)
64. *Proton transfer and excitation wavelength dependent fluorescence and phosphorescence spectra of 4-methyl-2,6-diformylphenol: interaction with triethylamine*, S.Mitra, **R.Das** and S.Mukherjee, *J.Photochem.Photobiol.A:Chem.*,79(1994)49 (**Impact Factor 5.141**)

65. *Intramolecular proton transfer in the first excited singlet state of 4-methyl-2,6- diformylphenol: effect of nonpolar and weakly polar aprotic solvents*, **R. Das**, S. Mitra and S. Mukherjee, *Spectrochim.Acta.*,51A(1994)363 (**Impact Factor 4.831**)
66. *Ground and excited state proton transfer of 4-methyl-2,6-diformylphenol in different solvent mixtures*, **R. Das**, S. Mitra and S.Mukherjee, *Chem.Phys.Letts.*,221(1994)368 (**Impact Factor 2.719**)
67. *Proton transfer and anion formation in the ground and excited states of 4-methyl-2,6- diformylphenol in highly polar aprotic solvents*, **R. Das**, S. Mitra and S. Mukherjee, *J.Photochem.Photobiol.A:Chem.*,76(1993)33 (**Impact Factor 5.141**)
68. *Proton transfer in the ground and excited electronic state of 4-methyl-2,6- diformylphenol:Role of alcoholic solvents*, **R. Das**, S. Mitra and S. Mukherjee, *Bull.Chem.Soc.Jpn.*,66(1993)2492 (**Impact Factor 5.121**)
69. *Intramolecular proton transfer in the first excited electronic states of 4-methyl-2,6- diformylphenol in some hydrocarbon solvents*, S. Mitra, **R. Das** and S. Mukherjee *Chem.Phys.Letts*, 202(1993)549 (**Impact Factor: 2.719**)

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