

# Curriculum Vitae and Scientific Profile



Name : **RAJALINGAM RENGANATHAN**  
Address : **UGC-Emeritus Fellow**  
School of chemistry  
Bharathidasan University  
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Date of Birth : 15<sup>th</sup> December 1955

Gender : Male

Category  
(Gen/SC/ST/OBC) : OBC

Nationality : Indian

## ACADEMIC QUALIFICATIONS

Degree	University	Subject	Year
Ph.D.,	University of Madras	Physical Chemistry	1985
M.Phil.	University of Madras	Physical Chemistry	1979
M.Sc.,	Annamalai University	Chemistry	1978

## POSITIONS HELD

- July 2016 onwards : UGC-Emeritus Fellow,  
School of Chemistry  
Bharathidasan University, Tiruchirappalli
- Jan 2003-June2016 : Professor, School of Chemistry, Carrying out  
Research work in frontier areas: Electron Transfer  
Reactions, Photochemistry, Photobiology, Radiation  
Chemistry and Photocatalysis
- Jan.1995 – Dec 2002 : Reader, Department of Chemistry  
Bharathidasan University, Tiruchirappalli
- Nov. 1987 - Dec.1994 : Lecturer, Department of Chemistry,

Bharathidasan University, Tiruchirappalli

June 1987 - Nov 1987 : CSIR-Research Pool Officer  
Department of chemistry  
Bharathidasan University, Tiruchirappalli  
Tamil Nadu, India

Aug 1985 - Jan 1987 : Post-doctoral Research Associate  
Max-Planck-Institut fur strahlenchemie,  
D-4330, Mulheim, GERMANY  
Research interest: Pulse Radiolytic  
Studies on Organic Electron Transfer  
reactions involving biologically important  
radicals

1984 - 85 : Assistant professor of Chemistry  
Government Arts College  
Tamil Nadu, India

1982 - 84 : Senior Research Fellow  
Department of Energy  
University of Madras  
Madras, India

1980 - 82 : Junior Research Fellow  
Department of Chemistry  
University of Madras Postgraduate Centre  
Tiruchirappalli, India

**RESEARCH INTEREST:**

- Photoinduced reactions of TiO<sub>2</sub> with visible light absorbing for dye-sensitized solar cells and organic light-emitting diodes applications.
- Designing visible light absorbing and emitting molecules for photovoltaic applications
- Fluorescence quenching of dyes by TiO<sub>2</sub>, DBO, Amino acridine as fluorescence probe for estrogens, catechols, flavonoids, FRET involving semiconductor quantum dots and porphyrins.

**Number of Ph.D. Students guided: 15**

**Number of M. Phil Students guided: 10**

## **COMPLETED PROJECT**

<b>S. No</b>	<b>Agency</b>	<b>Title of the project</b>	<b>Amount</b>	<b>Year</b>
1.	DST	Investigation of electron transfer reactions of hydroxyl aminic acid complexes of Fe, Co & Ni	2 lakhs	1991-1994
2.	UGC	Investigation of bimetallic oxidation of certain nucleic acid components	2 lakhs	1994-1997
3.	DST	Photolytic investigation on the reactions of certain porphyrins /metalloporphyrins in zeolite with quinines	6.5 lakhs	1997-2000
4.	DST	Investigations on the Fluorescence Quenching of 2,3-diazabicyclo [2.2.2]oct-2-ene (DBO) as Fluorescence probe for certain antioxidants	17 lakhs	2003-2006
5.	CSIR	Investigations on Visible Light Induced Reactions of TiO <sub>2</sub> -Hypocrellin A&B with DNA and its Components	13 lakhs	2008-2011
6.	DST	Photoinduced Reactions between Nanosized Quantum dots of CdTe and Porphyrin/Metalloporphyrins	22 lakhs	2008- 2011
7.	DST	Investigations on photoinduced Reactions of certain Perylene derivatives with colloidal undoped and doped TiO <sub>2</sub>	30 lakhs	2011-2014

## **ONGOING PROJECT**

<b>S. No</b>	<b>Agency</b>	<b>Title of the project</b>	<b>Amount</b>	<b>Year</b>
1.	DST-NM	Investigations on photoinduced reactions of certain porphyrins with metal nanoclusters modified TiO <sub>2</sub>	36 lakhs	2014- 2017
2.	UGC	“Investigations on fluorescence quenching of certain porphyrins by doped TiO <sub>2</sub> nanoparticles”	13 lakhs	2014-2017

## **FOREIGN VISITS:**

- (i) TWAS Research Associate at INIFTA, 1999, (two months) Laplata, Argentina
- (ii) Guest Researcher at Max-Planck-Institute, 1999, (one month) Mulheim, Germany.
- (iii) INSA Overseas Fellow at Universitat Bielefeld, 2000, three weeks, Bielefeld, Germany.
- (iv) INSA Overseas Fellow at Max-Plank Institute for Polymer Research, Mainz, Germany, March 2006- June 2006 (three months).
- (v) DAAD sponsored Research visit to University of Hannover, Germany, June 2009- August 2009.
- (vi) INSA Overseas Fellow at Max-Plank Institute for Polymer Research, Mainz, Germany, July 2011- September 2011 (three months).
- (vii) INSA-DFG Overseas short term visit University of Hannover, Germany, June- August (2015).

## **Award:**

- i) Fellow, Academy of Science 2015, Chennai.

## **MEMBERSHIP:**

- a) Life Member of Indian Society for Photochemical Sciences, Bhabha Atomic Research Centre, Mumbai.
- b) Member of Catalysis society of India.
- c) Convener (Academic) in the Symposium on Theoretical and Computational Chemistry - Frontiers and Challenges (STCC-FC) held at School of Chemistry, Bharathidasan University, Trichy.

## **Editorial board:**

- i) Indian J. Chem., A (2008-10).

## **SEMINAR AND CONFERENCES ATTENDED**

1. Presented a paper on, Photoradchem 2007 (PRDM 2007) organized by School of Chemical sciences, Mahatma Gandhi University, Kottayam, Kerala, India held on 8-11<sup>th</sup> February 2007.
2. Presented a paper on, 14<sup>th</sup> National Symposium on Catalysis, Anna University, Chennai, India, and December 16-18, 1998.

3. Paper presented on, "National Seminar on Social Relevance of Some Advanced Chemical Research in Independent India", Bharathidasan University, Tamil Nadu, India, March 16- 17, 1998.
4. Paper presented on, "Proceedings of Trombay Symposium on Radiation and, Photochemistry" Bhabha Atomic Research Centre, Mumbai, India, Jan 14-19, 1998.
5. Paper presented on "Workshop on National Centre for Ultrafast Processes" University of Madras, Chennai, India, November 28, 1997.
6. Paper presented on, "National Symposium on Correlation Analysis", Bishop Heber College, Tiruchirappalli, India, August 30, 1997.
7. Presented a paper on "TiO<sub>2</sub> promoted photooxidation of certain Uracils", at International conference on photochemical conversion and storage of solar energy, Indian Institute of Science, Bangalore, July 28 – August 2, 1996.
8. Attended a discussion meeting on Fast Reactions, Inter University Consortium, Indore, July 30-31, 1993.
9. Attended Seminar on "Photochemistry, Laser chemistry, Photobiology and it's Applications, University of Madras, India, Jan 7-9, 1991.
10. Attended National Symposium on New Materials, Their Characteristics and Applications, Madurai Kamaraj University, India, Feb 26 & 27, 1990.
11. Attended International Symposium on Biological Oxidation System held at Indian Institute of Science, Bangalore, India, Oct 23-26, 1989.
12. Presented a paper on "Stopped flow Investigation of Permanganate Ion Oxidation of Uracils" in the National Seminar on "Current Research in Heterocyclic Chemistry" held at Bharathidasan University, Tiruchirappalli, March 23-25, 1989.
13. Presented a paper on "One-Electron Reduction of Anthraquinone-2,6- disulfonate by Pyrimidine-6-yl radicals: A pulse Radiolytic investigation" in the National Symposium on "Current Trends in Physical Organic chemistry" held at Madurai Kamaraj University, Madurai, February 27 to March 1, 1989.
14. Attended the National Symposium on "New Materials" and 57<sup>th</sup> Annual session of the National Academy of Science, India held at Bharathidasan University, Tiruchirappalli, 1987.
15. Symposium on "Radiation induced strand breaks in DNA" organized by the Max-Planck Institute fur Strahlenchemie, Mulheim, Germany, 1985.

16. The 69<sup>th</sup> session of the Indian Science Association held at the University of Mysore, 1982.
17. The Annual Convention of chemists hosted jointly by Indian Institute of Technology, Madras and University of Madras, 1981.
18. Symposium on Theoretical and Computational Chemistry Frontiers and Challenges (STCC FC 2013) School of Chemistry BARD Trichy - 620 024.
19. RSC–South India sponsored Workshop on Photocatalysis for Sustainability: Fundamentals and Applications Department of Chemistry, Bharathidasan Institute of Technology, Anna University Trichy-620 024.
20. Science academies Sponsored Two day lecture Workshop on Recent Advances in Materials Chemistry organized by Department of Chemistry, Bharathidasan Institute of Technology, and Anna University Trichy-620 024.

#### **LIST OF PUBLICATIONS:**

1.	R. Somuthevan, <b>R. Renganathan</b> and P. Maruthamuthu, “Kinetics and Mechanism of Oxidation of Tris (2,2’bypy) Iron (II) sulphate by Peroxomonosulphate”, <i>Inorg. Chim. Acta Letters</i> <b>L45</b> (1980) 165.
2.	<b>R. Renganathan</b> and P. Maruthamuthu, “Kinetics and Mechanism of Oxidation of Ascorbic Acid by Peroxomonosulphate”, <i>Oxidation Commun.</i> <b>7</b> (1984) 57.
3.	<b>R. Renganathan</b> and P. Maruthamuthu, “Kinetics and Mechanism of Oxidation of aliphatic aldehydes by Peroxomonosulphate”, <i>Int. J. Chem.Kinet.</i> <b>18</b> (1986) 49.
4.	<b>R. Renganathan</b> and P. Maruthamuthu, “Kinetics and Mechanism of Oxidation of Aromatic aldehydes by Peroxomonosulphate”, <i>J.Chem.Soc. Perkin Trans.II</i> <b>285</b> (1986).
5.	S. Lakshmi, <b>R. Renganathan</b> , “Photolytic determination of OH and SO <sub>4</sub> reaction rate constants with certain Pyrimidines”, <i>Z. Phys. Chem.</i> <b>1</b> (1991)172-185.
6.	S. Lakshmi, <b>R. Renganathan</b> and S. Fujita, “Study on TiO <sub>2</sub> mediated Photocatalytic Degradation of Methylene blue”, <i>J. Photochem. Photobiol. A: Chem.</i> <b>88</b> (1995) 163.
7.	S. Lakshmi, <b>R. Renganathan</b> , “Stopped Flow Kinetic Investigation of the Oxidation of Ascorbic Acid by Fe(III)benzohydraxamic acid complex”, <i>J. Inorg. Biochem.</i> <b>61</b> 153 (1996).
8.	S. Lakshmi and <b>R. Renganathan</b> , “Kinetics of Oxidation of certain Pyrimidine bases by Ce(IV)”, <i>Int. J. Chem. Kinet.</i> <b>28</b> (1996) 713.
9.	M.R. Dhananjeyan, R. Annapoorani, S. Lakshmi and <b>R. Renganathan</b> , “An Investigation on TiO <sub>2</sub> Assisted Photooxidation of Thymine”, <i>J. Photochem. Photobiol. A: Chem.</i> <b>9</b> (1996) 187.
10.	S. Lakshmi, <b>R. Renganathan</b> and S. Fujita, “A Pulse Radiolytic Study On the Reactions of Certain Uracil-6-yl radicals with Cu(II)-amino acidComplexes”, <i>Radiat. Phys. Chem.</i> <b>48</b> (1996) 643.
11.	R. Annapoorani, M.R. Dhananjeyan and <b>R. Renganathan</b> , “Investigation on ZnO Photocatalysed Oxidation of Uracil”, <i>J. Photochem.Photobiol. A: Chem.</i> <b>111</b>

	(1997) 215.
12.	M. R. Dhananjeyan, R. Annapoorani, and <b>R. Renganathan</b> , "A Comparative Study on TiO <sub>2</sub> Mediated photooxidation of Uracil, Thymine, and 6-Methyluracil". <i>J. Photochem. Photobiol. A: Chem.</i> <b>109</b> (1997) 147.
13.	M. R. Dhananjeyan, V. Kandavelu and <b>R. Renganathan</b> , "An Investigation of the effects of Cu <sup>2+</sup> and heat treatment on TiO <sub>2</sub> photooxidation of certain pyrimidines" <i>J. Mol. Catal. A: Chem.</i> <b>158</b> (2000) 577.
14.	V. Kandavelu, M. R. Dhananjeyan, <b>R. Renganathan</b> , S. K. Badamali and P.Selvam, "Photocatalysed Reaction of meso-Tetraphenylporphyrin on Mesoporous TiMCM-41 Molecular Sieves". <i>J.Mol.Catal.A:Chem.</i> <b>157</b> (2000) 189.
15.	M. R. Dhananjeyan, V. Kandavelu and <b>R. Renganathan</b> , "A Study on the Photocatalytic Reactions of TiO <sub>2</sub> with Certain Pyrimidine Bases: Effects of Dopants (Fe <sup>3+</sup> ) and Calcination". <i>J. Mol.catal. A: Chem.</i> <b>151</b> (2000) 217.
16.	G. Chandramohan, S. Kalyanasundharam and <b>R. Renganathan</b> , "Oxidation of Indole-3-acetic acid by peroxomonosulphate: A kinetic and mechanistic study", <i>Int. J. Chem. Kinet.</i> <b>34</b> (2002) 569.
17.	P. Raja, A.S. Faritha, N. Kumaraguru and <b>R. Renganathan</b> , "Free Radical Mediated Oxidation of Ascorbic Acid by Peroxomonosulphate", <i>Research on Chemical Intermediates</i> <b>29</b> (2003) 393.
18.	P. Raja, M. Bensimon, A. Kulik, R. Foschia, D. Lauk, P. Albers, <b>R. Renganathan</b> and J. Kiwi, "Dynamics and characterization of an innovative Raschig rings-TiO <sub>2</sub> composite photocatalyst", <i>J. Mol. Catal. A: Chem.</i> <b>237</b> (2005) 215-223.
19.	P. Raja, A. Bozzi, W. F. Jardin, G. Mazola, <b>R. Renganathan</b> and J. Kiwi, "Reductive/ Oxidative treatment with superior performance relative to Oxidative treatment during the design of 4-Chlorophenol", <i>Applied Catalysis, B: Environmental.</i> <b>59</b> (2005) 249-257.
20.	S.Kalyanasundaram, G. Chandramohan, M. Suresh, V. Anbazhagan, S. Lavanya and <b>R. Renganathan</b> , "A Kinetic and Mechanistic study on the Oxidation of Indole-3-acetic acid by Peroxodisulphate". <i>Int. J. Chem. Kinet.</i> <b>37</b> (2005) 355-360.
21.	V. Anbazhagan, A. Kathiravan, M. Asha Jhonsi and <b>R. Renganathan</b> , "Fluorescence quenching study on electron transfer from certain amines to excited state Triphenylpyrylium ion (TPP <sup>+</sup> )". <i>Z. Phys. Chem.</i> <b>221</b> (2007) 929-939.
22.	A. Kathiravan, V. Anbazhagan, M. Asha Jhonsi and <b>R. Renganathan</b> , "Fluorescence quenching of Xanthene dyes by TiO <sub>2</sub> ", <i>Z. Phys. Chem.</i> <b>221</b> (2007) 941-948.
23.	A. Chandramohan, R. Bharathikannan, M.A. Kandaswamy, J. Chandrasekaran, <b>R. Renganathan</b> , and V. Kandavelu, "Synthesis, spectral, thermal and NLO properties of N,N-Dimethyl anilinium picrate". <i>Cryst. Res. Technol</i> <b>43</b> (2008) 173–178.
24.	A. Kathiravan, V. Anbazhagan, M. Asha Jhonsi and <b>R. Renganathan</b> , "Photosensitization of Colloidal TiO <sub>2</sub> with ZnTPP and Pyrene", <i>Z. Phys.Chem.</i> <b>222</b> (2008) 647-654.
25.	V. Anbazhagan, V. Kandavelu, A. Kathiravan and <b>R. Renganathan</b> , "Investigation on the fluorescence quenching of 2,3 diazabicyclo[2.2.2]ocene (DBO) by estrogens and catechols", <i>J. Photochem. Photobiol. A: Chem.</i> <b>193</b> (2008) 204-212.
26.	V. Anbazhagan, A. Kalaiselvan, M. Jaccob, P. Venuvanalingam and <b>R. Renganathan</b> , "Investigation on the fluorescence quenching of 2,3

	diazabicyclo[2.2.2]oct-2-ene (DBO) by certain flavonoids”, <i>J. Photochem. Photobiol. B: Biol.</i> <b>91</b> (2008) 143-150.
27.	A. Kathiravan, V. Anbazhagan, M. Asha Jhonsi and <b>R. Renganathan</b> , “Fluorescence quenching of meso-tetrakis(4-sulfonatophenyl)porphyrin by colloidal TiO <sub>2</sub> ”, <i>Spectrochim. Acta A</i> <b>70</b> (2008) 621-624.
28.	A. Kathiravan and <b>R. Renganathan</b> , “Interaction of Colloidal TiO <sub>2</sub> with Bovine Serum Albumin: A Fluorescence quenching study”, <i>Colloidal and Surfaces A</i> <b>324</b> (2008) 176-180.
29.	V. Anbazhagan and <b>R. Renganathan</b> , “Study on the binding of 2,3-diazabicyclo[2.2.2]oct-2-ene with bovine serum albumin by fluorescence spectroscopy” <i>J. Luminescence</i> <b>128</b> (2008) 1454-1458.
30.	A. Kathiravan, V. Anbazhagan, M. Asha Jhonsi and <b>R. Renganathan</b> , “Fluorescence quenching of Eosin by certain organic dyes”, <i>Z. Phys. Chem.</i> <b>222</b> (2008) 1013-1021.
31.	A. Kathiravan and <b>R. Renganathan</b> , “Fluorescence quenching of meso-tetrakis (4-sulfonatophenyl) porphyrin by certain organic dyes”, <i>Z. Phys. Chem.</i> <b>222</b> (2008) 987-995.
32.	M. Asha Jhonsi, A. Kathiravan and <b>R. Renganathan</b> , “Interaction between certain porphyrins and CdS colloid: A steady state fluorescence quenching study”, <i>Spectrochim. Acta: A</i> <b>71</b> (2008) 1507-1511.
33.	A. Kathiravan and <b>R. Renganathan</b> , “Photoinduced interaction between Riboflavin and TiO <sub>2</sub> colloid”, <i>Spectrochim. Acta: A</i> <b>71</b> (2008) 1080-1083.
34.	A. Kathiravan and <b>R. Renganathan</b> , “An Investigation on Electron Transfer Quenching of Zinc(II) meso-tetraphenylporphyrin (ZnTPP) by colloidal TiO <sub>2</sub> ”, <i>Spectrochim. Acta: A</i> <b>71</b> (2008) 1106-1109.
35.	M. Asha Jhonsi and <b>R. Renganathan</b> , “Photoinduced electron transfer from meso-tetrakis(N-methylpyridyl)porphyrin (TMPyP) to colloidal CdS”, <i>Z. Phys. Chem.</i> <b>222</b> (2008) 1601-1610.
36.	A. Kathiravan, J. Thiruvengadam, M. Asha Jhonsi and <b>R. Renganathan</b> , “Photoinduced Electron Transfer between Triphenylpyrylium Ion (TPP <sup>+</sup> ) and Certain Phenols”, <i>Z. Phys. Chem.</i> <b>222</b> (2008) 1591-1599.
37.	A. Chandramohan, R. Bharathikannan, J. Chandrasekaran, P. Maadeswaran, <b>R. Renganathan</b> , V. Kandavelu, “Synthesis, crystal growth and characterization of a new organic NLO material: Caffeinium picrate (CAFP) - A charge transfer molecular complex salt”, <i>Journal of Crystal Growth</i> <b>310</b> (2008) 5409-5415.
38.	R. Bharathikannan, A. Chandramohan, M. A. Kandhaswamy, J. Chandrasekaran, R. Renganathan and V. Kandavelu, “Synthesis, crystal growth and properties of the charge transfer complex adduct of 2-nitroaniline with picric acid – An organic non-linear optical material”, <i>Cryst. Res. Technol.</i> <b>43</b> (2008) 683–688.
39.	A. Kathiravan, M. Chandramohan, <b>R. Renganathan</b> and S. Sekar, “Cynaobacterial chlorophyll as a sensitizer for colloidal TiO <sub>2</sub> ”, <i>Spectrochim Acta A</i> <b>71</b> (2009) 1783-178.
40.	A. Kathiravan, S. Anandan and <b>R. Renganathan</b> , “Interaction of Colloidal TiO <sub>2</sub> with Human Serum Albumin: A Fluorescence Quenching, Study”, <i>Colloids and Surfaces A</i> <b>333</b> (2009) 91-95.
41.	A. Kathiravan, P. Sathish Kumar, <b>R. Renganathan</b> and S. Anandan, “Photoinduced electron transfer reactions between meso-tetrakis(4-



	sulfonatophenyl)porphyrin and metal-semiconductor nanoparticles”, <i>Colloids and Surfaces A</i> <b>333</b> (2009) 175-181.
42.	A. Kathiravan, <b>R. Renganathan</b> and S. Anandan, “Interaction of Colloidal AgTiO <sub>2</sub> nanoparticles with Bovine Serum Albumin”, <i>Polyhedron</i> <b>28</b> (2009) 157-161.
43.	A. Kathiravan, V. Anbazhagan, M. Asha Jhonsi and <b>R. Renganathan</b> , “Excited singlet State Reactions of meso-tetrakis (p-sulfonatophenyl) porphyrin (TSPP) with pyrimidines: A Steady State and Time-Resolved fluorescence quenching study”, <i>J. Mol. Struct.</i> <b>919</b> (2009) 79-82.
44.	A. Kathiravan, M. Chandramohan, <b>R. Renganathan</b> and S. Sekar, “Spectroscopic studies on the interaction between phycoerythrin and bovine serum albumin”, <i>J. Mol. Structure</i> <b>919</b> (2009) 210-214.
45.	A. Kathiravan, M. Chandramohan, <b>R. Renganathan</b> and S. Sekar, “Photoinduced Electron Transfer from Phycoerythrin to Colloidal Metal Semiconductor Nanoparticles”, <i>Spectrochim Acta A</i> <b>72</b> (2009) 496-501.
46.	A. Kathiravan and <b>R. Renganathan</b> , “Effect of anchoring group on the photosensitization of colloidal TiO <sub>2</sub> with porphyrins”, <i>J. colloid interface sci.</i> <b>331</b> (2009) 401-407.
47.	V. Anbazhagan and <b>R. Renganathan</b> , “Investigation on the fluorescence quenching of 2,3-diazabicyclo [2.2.2] oct-2-ene (DBO) by Uracils” <i>J. Lumi.</i> <b>129</b> (2009) 382-388.
48.	M. Asha Jhonsi, A. Kathiravan and <b>R. Renganathan</b> , “Photoinduced interaction between Xanthene dyes and colloidal CdS”, <i>J. Mol. Struct.</i> <b>921</b> (2009) 279-284.
49.	A. Kathiravan and <b>R. Renganathan</b> , “Photoinduced interactions between colloidal TiO <sub>2</sub> nanoparticles and Calf thymus-DNA”, <i>Polyhedron</i> <b>28</b> (2009) 1374-1378.
50.	M. Asha Jhonsi, A. Kathiravan and <b>R. Renganathan</b> , “An Investigation on Fluorescence Quenching of Certain Porphyrins by Colloidal CdS”, <i>J. Lumi.</i> <b>129</b> (2009) 854-860.
51.	A. Kathiravan and <b>R. Renganathan</b> , “Photosensitization of Colloidal TiO <sub>2</sub> nanoparticles with phycoerythrin pigment”, <i>J. colloid interface sci.</i> <b>335</b> (2009) 196-202.
52.	M. Asha Jhonsi, A. Kathiravan and <b>R. Renganathan</b> , “Spectroscopic studies on interaction of colloidal capped CdS with Bovine serum albumin”, <i>Colloids and Surfaces B</i> <b>72</b> (2009) 167-172.
53.	A. Kathiravan, G. Paramaguru and <b>R. Renganathan</b> , “Interaction of Colloidal Zinc Oxide with Bovine Serum Albumin: A Fluorescence Quenching Study”, <i>J. Mol.struc.</i> <b>934</b> (2009) 129-137.
54.	G. Paramaguru, A. Kathiravan, S. Selvaraj, P. Venuvanalingam and <b>R. Renganathan</b> , “Interaction of anthraquinone dyes with lysozyme: Evidences from spectroscopic and docking studies”, <i>J. Hazard. Mater.</i> <b>175</b> (2010) 985-991.
55.	M. Asha Jhonsi and <b>R. Renganathan</b> , “Study on the photoinduced interaction between TGA capped CdTe quantum dots and certain porphyrins by using spectroscopic techniques”, <i>J. colloid interface Sci.</i> <b>344</b> (2010) 596-602.
56.	S. Naveenraj, S. Anandan, A. Kathiravan, <b>R. Renganathan</b> and M. Ashokkumar, “The Interaction of Sonochemically Synthesized Gold Nanoparticles with Serum Albumins”, <i>J. Pharm. Biomed.</i> <b>53</b> (2010) 804-810.
57.	A. Kathiravan and <b>R. Renganathan</b> , “Photoinduced electron transfer from

	meso-tetrakis(p-carboxyphenyl)porphyrin into colloidal TiO <sub>2</sub> and AuTiO <sub>2</sub> nanoparticles”, <i>J. colloid interface sci.</i> <b>348</b> (2010) 642-648.
58.	Kathiravan and <b>R. Renganathan</b> , “Photoinduced electron transfer from xanthene dyes into colloidal AgTiO <sub>2</sub> nanoparticles”, <i>Adv. Sci. Lett.</i> <b>3</b> (2010) 470- 475.
59.	A. Kathiravan and <b>R. Renganathan</b> , “Fluorescence quenching of phycoerythrin by anthraquinonedyes”, <i>Z.Phys.Chem.</i> <b>224</b> (2010)1337-1346.
60.	M. Asha Jhonsi, A. Kathiravan, G. Paramaguru, C. Manivannan and <b>R. Renganathan</b> , “Fluorescence quenching of Tris(2,2'-bipyridine)ruthenium(II) dichloride by certain Organic Dyes”, <i>J. Sol. Chem</i> <b>39</b> (2010) 1520–1530.
61.	S. Jagadeeswari, M. Asha Jhonsi, A. Kathiravan and <b>R. Renganathan</b> , “Photoinduced interaction between MPA capped CdTe QDs and certain anthraquinone dyes”, <i>J. Lumin.</i> <b>131</b> (2011) 597-602.
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