

CURRICULUM - VITAE

Name : **T. Daniel Thangadurai**
Date of Birth : 30th June, 1972.
Sex : Male
Nationality : Indian
Marital Status : Married
Address for Communication : Assistant Professor



Department of Bio & Nano Chemistry
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Teaching Experience

- ❖ **Assistant Professor** : Department of Bio & Nano Chemistry, College of Natural Science, Kookmin University, Seoul, Republic of Korea from March' 2010 to at present.

Teaching: Undergraduate/Graduate/Ph.D. students

Subject(s): General Chemistry, Inorganic Chemistry, Advanced Inorganic Chemistry, Advanced Nano Chemistry, Bio and Nano Sensors, Analytical Chemistry, Applied Physical Chemistry and Electrochemistry

Research Work: (1) Synthesis and Applications of Bio & Nano Sensors
(2) "Synthesis of Light Emitting Devices-Nanophotonics"

Research Experience

- ❖ **Research Professor**, Anastro Laboratory, Department of Chemistry, Changwon National University, Changwon, 641-773, Republic of Korea from March' 2009 to Feb'2010.

Research Work: (1) "Ruthenium Capped Derivatives as Nonlinear Optics"
(2) "Synthesis of Chemical Sensors"
(3) "Identification of Chiral compounds using UPLC- ESI-MS/MS"

Teaching: Undergraduate/Graduate students

Practical's: Conducted Practical Classes for Graduate students

Advisor: Professor Yong Ill Lee

- ❖ **Post – Doctoral Fellowship**, Chemical Science Programme, School of Distance Education, Universiti Sains Malaysia, Penang, Malaysia, from July' 2008 to Jan'2009.

Research Work: “Organometallic & Coordination Chemistry”

Teaching: Graduate students

Practicals: Conducted Practical Classes for Graduate students

Advisor: Professor Omar Bin Shawkataly

- ❖ **Post – Doctoral Fellowship**, Synthetic Organic Chemistry Laboratory, Department of Chemistry, Pohang University of Science and Technology (POSTECH), Pohang 790-784, Republic of Korea, from June' 2006 to June' 2008.

Research Work: (1) “Natural Product-Total Synthesis using organometallic catalysts”

(2) “Peptide Synthesis and Quantitation”

Advisor: Assistant Professor Young Ho Rhee

- ❖ **Post – Doctoral Fellowship**, Center for Superfunctional Materials, Department of Chemistry, Pohang University of Science and Technology (POSTECH), Pohang 790-784, Republic of Korea, from July' 2004 to May' 2006.

Research Work: “Molecular Recognition – Synthesis of Anion Sensors”

Advisor: Professor Kwang Soo Kim

- ❖ **Research Fellow**, Department of Chemistry, Bharathiar University, Coimbatore -641046, Tamilnadu, India, from Feb'2004 to July 2004.

Research Work: “Synthesis and Characterisation of Metal complexes and their Catalytic and Biological applications”

Advisor: Professor K. Natarajan

- ❖ **Post – Doctoral Fellowship**, CNRS UMR 8601, Laboratory for Chemistry and Biochemistry Pharmacology and Toxicology, Université René Descartes , Paris – V, 45 rue des Saint-Peres, 75270 Paris, Cedex 06, France, from Jan' 2003 to Jan'2004.

Research Work: “Supramolecular Chemistry – Preparation of Metalated Calixarene”

Advisor: Professor Olivia Renaud

- ❖ **Post – Doctoral Fellowship**, National Research Laboratory for Environmental Catalysis, Department of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science and Technology (KAIST), Daejeon 305 – 701, Republic of Korea, from Nov’ 2001 to Nov’ 2002.

Research Work: “Preparation of Ruthenium Schiff base complexes and their applications in Industrial and Antimicrobial studies”

Advisor: Professor Son Ki Ihm

Educational Career

- ❖ **Ph.D.**, Department of Chemistry, Bharathiar University, Coimbatore 641 046, Tamilnadu, India, from Nov’ 1997 to April’ 2001. (Highly Recommended)

Research Work: “Synthesis, Characterization and Biological activity of Ruthenium(II) and Ruthenium(III) Complexes”

Advisor: Professor K. Natarajan

- ❖ **M.Phil.**, Department of Chemistry, Bharathiar University, Coimbatore 641 046, Tamilnadu, India, from Nov’ 1995 to Dec’ 1996. (Highly Recommended)

Research Work: “Studies on the Reactions of some Tetradentate Schiff bases with Ruthenium(III)-Complexes Containing PPh_3 or $AsPh_3$ ”

Advisor: Professor K. Natarajan

- ❖ **M.Sc.**, Department of Chemistry, Bishop Heber College, Bharathidasan University, Trichy, Tamilnadu, India, from June’ 1993 to May’ 1995.

Project Work: “Adsorption Potential”

Advisor: Professor N. Balasubramaniam

- ❖ **B.Sc.**, Department of Chemistry, Govt. Arts College, Bharathiar University, Coimbatore, Tamilnadu, India, from June’ 1989 to May’ 1992.

Area of Specialization

Inorganic Chemistry	: -Organometallic Chemistry, Coordination Chemistry -Catalytic and Antimicrobial studies
Organic Chemistry	: -Supramolecular Chemistry - Metalated Calixarenes -Total Synthesis/Natural Product

Analytical Chemistry	: -Protein Quantitation and Identification -Chiral Recognition of Peptides/DNA-Conjugate adducts
Nano Technology	: -Bio & Nano Sensors and Devices -Synthesis of Light emitting diodes

Experience in Instruments Operation

- Electronic Spectrum (Hittachi Perkin-Elmer 20/200 Spectrometer)
- Infrared Spectrum (FTIR Shimadzu 8200 Spectrophotometer)
- Cyclic Voltammetry (BAS CV-27 Electro Chemical Analyser)
- Gas Chromatography (Hewlett packard -FTZ -serienprfnr C-128/83)
- Nuclear Magnetic Resonance spectroscopy (Varion FX 90 Q)
- Electron Paramagnetic Resonance spectroscopy (Bruker Model ER 200-D)
- HP-Liquid Chromatography (Young-Lin M 720 Absorbance Detector)
- Total Organic Carbon Analyser (Shimadzu TOC-V CSH)
- Chemisorption and Physical Adsorption (ASAP 2000 Micromeritics)
- Liquid Chromatography (flash master personnel with reference - FC-150 SI-3P SUP)
- Fluorescence Spectrometer (Shimadzu RF-5301 PC Spectrofluorophotometer)
- VP-IsoThermalCalorimeter (MicroCalorimeter)
- Solid/Liquid Phosphorescence (Model PMU-130/120)
- Ultra-Process Liquid Chromatography – Mass Spectrometry
- Laser Raman Spectrophotometer (JASCO- NRS 3300)

Profile

- Highly innovative, inquisitive, resourceful and a fast learner - excited by challenging research problems - skills proficient in collaboration and working as a team - excellent experimental and communication skills.

Awards and Honours

- ✓ Bharathidhasan University IVth rank holder at Postgraduate level.
- ✓ BK 21 Fellowship from Nov' 2001 to Nov' 2002.
- ✓ BK 21 Fellowship from June' 2006 to Jun' 2008.
- ✓ Korea Research Foundation Fellowship from March' 2009 – Feb'2010.
- ✓ Chair Person of 2nd ICCCE '2011 held on Jul'28-Aug' 1 at Chengdu, China.

- ✓ Resource Person of Physical Science group in Research Convention held on Feb'21-23, 2012 at Avinashilingam University, Coimbatore, India.

Extra-curricular Activities

- ❖ Sports, Gardening, Visiting Tourist and Historical Places

Membership Societies

- ❖ Korean Analytical and Chemical Sciences
- ❖ American Chemical Society
- ❖ Korean Chemical Society

Acting as a Reviewer for following Journals

- Tetrahedron Letters (**Elsevier Publication**)
- Microchemical Journal (**Elsevier Publication**)
- Bulletin Korean Chemical Society (**Korean Chemical Society Publication**)
- Spectrochimica Acta: Part A – Molecular and Biomole. Spectro. (**Elsevier Publication**)
- Industrial & Engineering Chemistry Research (**ACS publication**)
- European Journal of Medicinal Chemistry (**Elsevier Publication**)
- Organic Letters (**ACS Publication**)
- Chemical Communication (**RSC Publication**)
- Bioorganic and Medicinal Chemistry (**Elsevier Publication**)
- Medicinal Chemistry Research (**Springer Publication**)
- Current Organic Synthesis (**Bentham Science Publishers**)

Research Publications and Experiences

- ✓ Total Research Experience – *13 yrs. (M.Phil. – 1, Ph.D. – 4, PDF – 8)*
- ✓ Teaching Experience – *3 yrs. (as Assistant Professor)*
- ✓ Papers published- *40* (First author *and/or* Corresponding author – *28*)
- ✓ Papers to be published - *7*
- ✓ Books - *Nil*
- ✓ Patents - *1*
- ✓ Conference Presentations - *16*
- ✓ Invited talks: *International conferences – 5; National conferences – 5.*

Research Project Funding (in Collaboration with Prof. Sungho Yoon)

Funding Agency: Korea Energy Research Foundation

Project Title: “Carbon Capture Storage”

Amount sanctioned: 150,000 USD for 3 years

Period of project: 01.01.2011 – 31.12.2013.

Visited Universities/Research Institutes

- Indian Institute of Science, Bangalore, India (1998)
- Inha University, Incheon, Republic of Korea (2001)
- Institute of Molecular Science, Okazaki, Nagoya, Japan (2002)
- Korea Research Institute of Chemical Technology, Daejeon, Republic of Korea (2002)
- University of Geneva, Geneva, Switzerland(2003)
- Ecole Nationale Supérieure de Chimie de Paris (ENSCP), Paris, France (2004)
- University of Technology, Skudai, Johore, Malaysia (2008)
- University of Malaya, Kuala Lumpur, Malaysia (2008)
- Hongik University, Jochiwon, Republic of Korea (2009)
- Kyusu University, Fukuoka, Japan (2010)
- Korea University, Seoul, Republic of Korea (2010)
- Sichuan University, Chengdu, China (2011)
- Avinashilingam University, Coimbatore, India (2012)

As Visiting Professor

- ✓ Avinashilingam University, India (Jan-Feb, 2012)
- ✓ Avinashilingam University, India (Jul-Aug, 2012)

Research Collaborations

- ✓ Bharathiar University, India (Prof. Thamarai Selvi)
- ✓ Changwon National University, Korea (Prof. Yong-III Lee)
- ✓ Kookmin University, Korea (Prof. Sungho Yoon)

List of Papers Published

40. A tailor designed fluorescent 'turn-on' sensor for formaldehyde based on the BODIPY Motif, Hyesun Song, Senkuttuvan Rajendiran, Namseok Kim, Soon Kwan Jeong, Eunhae Koo, Gyoosoon Park, Thangaian Daniel Thangadurai* Sungho Yoon,* **Tet. Letters**, 53, 4913-4916 (2012) (**Impact factor: ~ 2.70**).
39. Fluorescence enhancement of N₂O₂-type dipyrin ligand in two step responding to Zinc(II) ion: A Dual purpose signaling system for in vivo imaging and preparing bright chromophore, Hyesun Song, Senkuttuvan Rajendiran, Eunhae Koo, Byoung Koun Min, Soon Kwan Jeong, **T. Daniel Thangadurai**,* Sungho Yoon,* **Jl. of Luminescence**, 132, 3089-3092 (2012) (**Impact factor : ~ 2.00**).
38. A novel colorimetric and fluorescent sensor for fluoride and pyrophosphate based on fluorenone signaling units, **T. Daniel Thangadurai**, Chang Jun Lee, Su Hee Jeong, Jun Young Shin, Sunghak Yoon and Yong-Ill Lee, **Microchemical Jl.** (in press) (**Impact factor : ~ 2.50**).
37. On-line chiral analysis of benzylmercapturic acid and phenylmercapturic acid in human urine using UPLC-QToF mass spectrometry with the kinetic method, Hua Jin, **T. Daniel Thangadurai**, Sung-Chan Jo, Dongri Jin, Shengyun Cui, Yong-Ill Lee, **Microchemical Journal**, 103, 170-176 (2012) (**Impact factor : ~ 2.50**).
36. Microwave-assisted synthesis and pharmacological studies of novel 5-deazaalloxazine derivatives, Vetrivel Nadaraj, Senniappan Thamarai Selvi,* Sellappan Mohan and Thangaian Daniel Thangadurai*, **Medicinal Chemistry Research**, 21, 2911-2919 (2012).
35. Microwave solvent-free condition synthesis and pharmacological evaluation of pyrano[3,2-*c*]quinolines, V. Nadaraj, S. Thamarai Selvi,* E. Helen Pricilla Bai and **T. Daniel Thangadurai***, **Medicinal Chemistry Research**, 21, 2902-2910 (2012).

34. A simple fluorescent “ON–OFF” receptor for biologically important anions based on urea moieties, **T. Daniel Thangadurai**,^{*} S. Thamarai Selvi, A. B. V. Kiran Kumar and Yong-Il Lee, **International Proceedings of Chemical, Biological & Environmental Engineering**, 14, 23-30 (2011); published through 2nd International Conference on Chemistry and Chemical Engineering (ICCCE 2011) held on July 29-31, 2011, at Chengdu, Republic of China (**ISSN 2010-4618**).
33. Differentiation of *Cis*- and *Trans*-isomers of the Naphthalene-Aza Receptor by Naked-Eye Colorimetric Anion sensing, **T. Daniel Thangadurai**, Gyusung Chung, Ohyun Kwon and Yong Il Lee, **Tet. Letters**, 52, 6465-6469 (2011) (**Impact factor: ~ 2.70**).
32. A Fluorescent Ammonia Sensor Based on a Porphyrin Cobalt(II)-Dansyl Complex, Jiyeon Kim, Si-Hyung Lim, Byoung Koun Min, **T. Daniel Thangadurai**^{*}, Sungho Yoon^{*}, **Tet. Letters**, 52, 2645-2648 (2011) (**Impact factor: ~ 2.70**).
31. Microwave Synthesis of pyrimido[5,4,-c]quinolines by Modified Biginelli Reaction and Evaluation of Their Antimicrobial Activity, Vetrivel Nadaraj, Senniappan Thamarai Selvi,^{*} and **Daniel Thangadurai**^{*}, **Journal of Pharmacy Research**, 4, 1541-1544 (2011).
30. Non-Extractive Simultaneous Spectrophotometric Determination of Microgram Quantities of Palladium(II) and Tungsten(II), J. Srinivas, A.B.V. Kiran kumar, **T. Daniel Thangadurai**, Suryanarayana Rao, Yong-Il Lee, **Analytical Letters**, 44, 815-823 (2011) (**Impact factor : ~ 2.00**).
29. Aliphatic dipeptide tags for multi 2-plex protein quantification, Min-Soo Suh, Jongcheol Seo, **T. D. Thangadurai**, Young Ho Rhee, Seung Koo Shin and Hye-Joo Yoon, **Analyst**, 136, 1614-1619 (2011) (**Impact factor: ~ 3.50**).
28. Synthesis and characterization of novel semi-interpenetrating silver nanocomposite hydrogels and its antibacterial studies, Kyoung-Yon Kim, R. Babu, **T. Daniel Thangadurai**, Yong-Il Lee, **Bull. Kor. Chem. Soc.**, 32, 553-558 (2011).
27. Microwave-assisted effective synthesis and biological activities of 3-cyano-1-phenylbenzo[g] [1,8]naphthyridone and their derivatives, Vetrivel Nadaraj, Senniappan

- Thamarai Selvi,* Sellappan Mohan, and **Daniel Thangadurai***, **Journal of Pharmacy Research**, 3, 3129-3131 (2010).
26. Antibacterial and Luminescent properties of New Donor-Acceptor Ruthenium Triphenylphosphine-Bipyridinium Complexes, **T. Daniel Thangadurai**, Suhee Jeong, Sunghak Yun, Sangsu Kim, Changdae Kim and Yong-Ill Lee, **Microchemical Journal**, 95, 235-239 (2010) (**Impact factor : ~ 2.50**).
25. Detoxification of cytotoxic alachlor by glutathione: characterization of conjugated adducts by electrospray ionization tandem mass spectrometry, Sung-Gun Park, Hua Jin, **T. Daniel Thangadurai**, Yong-Ill Lee, **Jl. Agricultural and Food Chemistry**, 57, 9838-9847 (2009) (**Impact factor : ~ 2.50**).
24. Gold(I)-catalyzed Tandem Cyclization of 3-(tert-Butoxycarbonyloxy)-1,6-enynes, J.Y. Cheong, H. J. Bae, B. Baskar, **D. Thangadurai**, M. J. Kim, Y. H. Rhee, **Bull. Kor. Chem. Soc.**, 30, 1239-1240 (2009).
23. [1,3-Bis(diphenylphosphino)(1,3-dimethyl)propane]-tetracarbonylchromium(0), Omar B. Shawkataly, **T. Daniel Thangadurai**, S. M. S. I. Dulal and H. K. Fun, **Acta Cryst.**, E65, m250-m251 (2009).
22. Mass-Balanced 1H/2H-Isotope Dipeptide Tag for Simultaneous Protein Quantitation and Identification, Jongcheol Seo, Min-Soo Suh, **T. Daniel Thangadurai**, Jinhee Kim, Young Ho Rhee, Hye-Joo Yoon, and Seung Koo Shin, **Analytical Chemistry**, (**Accelerated Article**), 80, 6145-6153 (2008) (**Impact factor : ~ 6.00**).
21. Gold(I)-Catalyzed Cycloisomerization of 3-Methoxy-1,6-enynes Featuring Tandem Cyclization and [3,3]-Sigmatropic Rearrangement, Hyo J. Bae, Baburaj Baskar, Sang E. An, Jae Y. Cheong, **Daniel T. Thangadurai**, In-Chul Hwang and Young H. Rhee, **Angew. Chem. Int. Edn.**, 47, 2263 - 2266 (2008) (**Impact factor : ~12.50**).
20. Catalytic and Antimicrobial Studies of Ruthenium(III) Schiff Base Complexes Containing NS and NNSS Donor Atoms. **T. Daniel Thangadurai*** and Son-Ki Ihm. **Chinese Journal of Inorganic Chemistry**, 23, 1515 -1522 (2007).

19. 2-Dimensional Analytic Approach for Anion Differentiation using Chromo-Fluorogenic Receptors, **T. Daniel Thangadurai**, N. Jiten Singh, In-Chul Hwang, R. Prakash Chandran, Jung Woo Lee, and Kwang S. Kim, **J. Org. Chem.**, 72, 5461-5464 (2007) (**Impact factor : ~4.00**).
18. Quinoxaline-Imidazolium Receptors for Unique Sensing of Pyrophosphate and Acetate by Charge Transfer, N. Jiten Singh, Eun Jin Jun, Kavitha Chellappan, **T. Daniel Thangadurai**, R. Prakash Chandran, Hwang In-Chul, Juyoung Yoon, Kwang S. Kim, **Organic Letters**, 9, 485 - 488 (2007) (**Impact factor : ~5.00**).
17. Organic- inorganic hybrid compounds of Li with bisimidazole derivatives: Li ion binding study and topochemical properties. In-Chul Hwang, R. Prakash Chandran, N. Jiten Singh, Manish Khandelwal, **T. Daniel Thangadurai**, Jung-Woo Lee and Kwang S. Kim, **Inorganic Chemistry**, 45, 8062 - 8069 (2006). (**Impact factor : ~4.00**).
16. Ruthenium(II) carbonyl complexes containing NS and NNSS donor atoms. **T. Daniel Thangadurai*** and Son-Ki Ihm. **Chinese Journal of Inorganic Chemistry**, 22, 1055 -1061 (2006).
15. Chiral Schiff base ruthenium(II) carbonyl complexes: synthesis, characterization catalytic and antibacterial studies. **T. Daniel Thangadurai*** and Son-Ki Ihm. **Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry**, 36, 435 - 440 (2006).
14. Ruthenium(II) complexes derived from substituted cyclobutane and substituted thiazole Schiff base ligands: Synthetic, spectral, catalytic and antimicrobial studies. **T. Daniel Thangadurai*** and Son-Ki Ihm. **Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry**, 35, 499 – 507 (2005).
13. Novel bidentate ruthenium(III) Schiff base complexes: synthetic, spectral, electrochemical, catalytic and antimicrobial studies. **T. Daniel Thangadurai*** and Son-Ki Ihm. **Transition Metal Chemistry**, 29, 189 - 195 (2004).
12. Tetradentate Schiff base Ruthenium(II) carbonyl complexes: synthesis, characterization, catalytic and antibacterial activities. **T. Daniel Thangadurai*** and Son-Ki Ihm. **Journal of Industrial and Engineering Chemistry**, 9, 569 - 575 (2003).

11. Chiral Schiff base ruthenium(III) complexes: Synthesis, Characterisation, Catalytic and Antibacterial, Studies. **T. D. Thangadurai*** and Son-Ki Ihm. **Journal of Industrial and Engineering Chemistry**, 9, 563 - 568 (2003).
10. Biological activity of ruthenium(II) carbonyl complexes containing tetradentate Schiff bases. **T. Daniel Thangadurai**, D. Anitha and K. Natarajan. **Synthesis and Reactivity In Inorganic and Metal Organic Chemistry**, 32, 1335 - 1347 (2002).
9. Ruthenium(II) carbonyl complexes containing tridentate Schiff bases and their biocidal activities. **T. Daniel Thangadurai** and K. Natarajan. **Transition Metal Chemistry**, 27, 840 - 843 (2002).
8. Synthesis and characterisation of ruthenium(III) complexes containing dibasic tetradentate Schiff bases. **T. Daniel Thangadurai** and K. Natarajan. **Indian Journal of Chemistry**, 41A, 741 (2002).
7. Antibacterial activities of ruthenium(II) carbonyl complexes containing tetradentate Schiff bases. **T. Daniel Thangadurai**, and K.Natarajan. **Transition Metal Chemistry** , 27, 485 – 489, (2002).
6. Synthesis and characterization of Ruthenium(III) complexes containing monobasic bidentate Schiff bases and their biological activities. **T. Daniel Thangadurai**, M. Gowri and K. Natarajan. **Synth. and React. in Inorg. and Met.-Organic Chem.**, 32, 329 – 343, (2002).
5. Tridentate Schiffbase complexes of ruthenium(III) containing ONO/ONS donar atoms and their biocidal activities. **T. Daniel Thangadurai** and K.Natarajan. **Transition Metal Chemistry** , 26, 717 - 722 (2001).
4. Ruthenium(III) Complexes containing α,β - unsaturated- β -keto aminate and their biological activities. **T. Daniel Thangadurai** and K.Natarajan. **Indian Journal of Chemistry**, 40A, 573 – 576 (2001).
3. Mixed Ligand Ruthenium(II) Complexes containing Bidendate Schiff bases and their antibacterial activities. **T. Daniel Thangadurai** and K. Natarajan. **Transition Metal Chemistry**, 26, 500-504 (2001).

2. Synthesis and Characterization of Ruthenium (III) Complexes containing Tetradentate Schiff bases. **T. Daniel Thangadurai** and K.Natarajan. **Synthesis and Reactivity in Inorganic and Metal -Organic Chemistry**, 31, 549-567 (2001).
1. New Ruthenium (III) Complexes containing Tetradentate Schiff bases and their anti-bacterial activity. **T. Daniel Thangadurai** and K.Natarajan. **Transition Metal Chemistry**, 25, 347 - 351 (2000).

List of Papers to be published

1. Preparation Method of the RuO₂ Film on a Silver Substrate Using the Cyclic Voltammetry, Yeojin Jeon, **T. Daniel Thangadurai*** and Sungho Yoon*, **Jl. Of Material Science** (under review).
2. Synthesis and Characterization of Some Polyphosphonate Derivatives Containing Photosensitive Unsaturated Keto Group in the Main Chain, K. Kaniappan, S.C. Murugavel*, **T. Daniel Thangadurai***, **Macromolecular Research** (under revision).
3. Intrinsic dynamics of a dimanganese(II) carboxylate complex with water molecules, S. Kannan, G. Venkatachalam, **T. Daniel Thangadurai**, Hajin Lee, Young Rag Do, and Sungho Yoon, **J. Am. Chem. Soc.** (under review).
4. A One-step Facile Method to Prepare Size Controlled Fe₃O₄ Nanoparticles, Yejin Jun, Jiyeon Kim, Longhai Piao **T. Daniel Thangadurai,*** and Sungho Yoon,* **Mat. Lett.** (under review).
5. Synthesis and Magnetic Characterization of a Cubane-type Mn₄ Cluster, Housed in a Sterically Hindered Carboxylate Ligand Pocket, Dharmalingam Sivanesan, **Daniel T. Thangadurai**, Kwanghyo Son, Ha-Jin Lee, Key taek Park, Zeehoon Jang, Byoung Jin Suh, and Sungho Yoon, **Polyhedron** (under revision).
6. Poly [2-(cinnamoyloxy)ethyl methacrylate-co-octamethacryl-POSS] Hybrid Nanocomposites: Synthesis and Properties, A.B.V. Kiran Kumar, **T. Daniel Thangadurai**, and Yong-Ill Lee, **Reactive and Functional Polymers**, (under review).

7. Synthesis and Characterization of μ_3 -methoxy bridged Trinuclear Copper(II) complex: $[\text{Cu}_3(\text{O}_2\text{CR})_4(\mu_3\text{-OCH}_3)(\mu_2\text{-CH}_3)(\text{OHCH}_3)_2]$, Namsuck Kim, **T. Daniel Thangadurai**,* Sungho Yoon,* **Chem. Comm.**, (under preparation).

Patents

1. Labeling agent and simu analysing methods of amino-acid sequence and peptide quantifying using thereof, Jongcheol Seo, Hye-Joo Yoon, Seung Koo Shin, **T. Daniel Thangadurai**, Young Ho Rhee, and Jaiwook Park (Number 10-2008-0070272).

Selected Abstracts in Chemistry

1. Gold(I)-Catalyzed Cycloisomerization of 3-Methoxy-1,6-enynes Featuring Tandem Cyclization and [3,3]-Sigmatropic Rearrangement, **Q0050**, **Cheminform-Weekly News**, 39, 29-065 (2008).
2. Gold(I)-Catalyzed Tandem Cyclization of 3-(tert-Butoxycarbonyloxy)-1,6-enynes, R0170, **Cheminform-Weekly News**, 40, 45-125 (2009).

List of papers presented / accepted in Conferences

1. 17th Indian Council of Chemists conference, November 26-28, 1998, Department of Chemistry, Madras University, Chennai, Tamilnadu, India, *Synthesis and Characterization of Ruthenium(III) Complexes containing Tetradentate Schiff bases*, **T. Daniel Thangadurai** and K. Natarajan has presented in poster presentation session.
2. National Conference on Recent Research in Coordination, March 4-5, 1999, Department of Chemistry, Regional Engineering College, Trichy, Tamilnadu, India, *New Ruthenium(III) Complexes containing Tetradentate Schiff bases and their anti-bacterial activity*, **T. Daniel Thangadurai** and K. Natarajan has presented in oral presentation session.
3. 19th Indian Council of Chemists conference, November 27-29, 2000, Department of Chemistry, Kuvembu University, Shimoga, Karnataka, India, *Synthesis and characterization*

of Ruthenium(III) complexes containing bidentate Schiff bases, **T. Daniel Thangadurai**, M.Gowri and K.Natarajan has presented in oral presentation session.

4. Gordon Research Conferences, July 15-20, 2001, Department of Chemistry at Salve Regina University, Newport, US, *Biological activity of Ruthenium(III) complexes containing tetradentate Schiff bases*, **Daniel T. Thangadurai** and Karuppanan Natarajan has accepted for poster presentation .
5. Europacat V conference, September 02-07, 2001 at University of Limerick, Limerick, Ireland, *Studies of the catalytic activity of Ruthenium(III) complexes by the synthesis of Oxazole*, **Daniel T. Thangadurai** and Karuppanan Natarajan has accepted for poster presentation.
6. XXXVth International Conference on Coordination Chemistry (ICCC 35), held on July 21-26, 2002, Heidelberg, Germany, *Ruthenium (II) carbonyl complexes: Synthesis, characterization, catalytic and antibacterial studies*, **T. Daniel Thangadurai** and Son-Ki Ihm, has been accepted for poster presentation (Abstract: # P 4.119; Page # 657).
7. 7th International Symposium on Applied Bioinorganic Chemistry, to be held on April 1-5, 2003, Guanajuato, Mexico, *Ruthenium(II) complexes containing substituted Schiff base ligands: Synthetic, spectral, catalytic and antimicrobial studies*, **T. Daniel Thangadurai** and Son-Ki Ihm, has been accepted for poster presentation (Abstract id # : PO-36).
8. 11th Asian Chemical Congress for the Quantum Leap of Asian Chemistry (Organised by The Korean Chemical Society) held on August 24-26, 2005, at Korea University, Seoul, Republic of Korea, *Novel Caliximidazolium Derivatives as Anion Receptors*, Ji eun Moon, Jung-Woo Lee, R. P. Chandran, Sing N. Jiten, **T. Daniel Thangadurai**, In-Chul Hwang, Kwang S. Kim, has presented in poster presentation session. (PW # 229; Page # 252).
9. Pacificchem 2005, held on December 15-20, at Honolulu, Hawaii, USA, *Calix[4]imidazolium[2]pyridine: A novel Fluoride Selective Receptor*, Hwang In-Chul, Singh N. Jiten, Chellappan Kavitha, Lee Jung-Woo, Chandran R. P., **Thangadurai Daniel**, Kwang S. Kim, has presented in oral presentation session.
10. HUPO 6th Annual World Congress, held on October 6-10, 2007, at Seoul, Republic of Korea, *Mass Balanced Isotope Tags-The Simple and Tunable Isobaric Tagging Strategy for the Simultaneous Peptide Sequencing and Quantitation*, J. Seo, M.-S. Suh, **T. D.**

Thangadurai, Y. H. Rhee, B. J. M. Reddy, J. Park, H. J. Ham, H.-J. Yoon, S. K. Shin, has presented in poster presentation session (HA-0658).

11. IUPAC/ICOS-17 (International Conference on Organic Synthesis), held on June 22-27, 2008, at Daejeon Conventional Center, Daejeon, Republic of Korea. *A New Gold(I)-Catalyzed Cycloisomerization of 3-Methoxy-1,6-enynes*, Hyo J. Bae, Baburaj Baskar, **Daniel T. Thangadurai** and Young H. Rhee, has presented in poster presentation session (PR-38).
12. IUPAC/ICOS-17 (International Conference on Organic Synthesis), held on June 22-27, 2008, at Daejeon Conventional Center, Daejeon, Republic of Korea. *A Gold(I)-Catalyzed divergence in the Reactivity of 3-Silyloxy-1,6-enynes*, San E. An, Baburaj Baskar, **Daniel T. Thangadurai**, Young H. Rhee and Stefan F. Krisch, has presented in poster presentation session (PR-111).
13. 42nd Korean Analytical and Chemical Sciences held on May 21-22, 2009, at Taebaek, Republic of Korea, *Ruthenium capped Thiophene derivatives as Nonlinear Optical Materials*, **Daniel T. Thangadurai**, and Young-Il Lee, has presented in poster presentation session (PF-74).
14. 104th Fall Meeting of the Korean Chemical Society, held on October 29-30, 2009, at Daejeon Conventional Center, Daejeon, Republic of Korea. *A simple fluorescent "ON-OFF" receptor for biologically important anions based on urea moieties*, Sung Hak Yun, **T. Daniel Thangadurai**, and Yong-Il Lee, as presenting in poster presentation session .
15. 104th Fall Meeting of the Korean Chemical Society, held on October 29-30, 2009, at Daejeon Conventional Center, Daejeon, Republic of Korea. *Anionic and Cationic recognition property of a new Luminescent molecular probe*, Su Hee Jeong, **T. Daniel Thangadurai**, and Yong-Il Lee, presented in poster presentation session.
16. 108th Fall Meeting of the Korean Chemical Society held on Sep' 29-30, 2011, at Daejeon Conventional Center, Daejeon, Republic of Korea. *A dipyrin based Zinc(II) complex with enhanced fluorescence emission*, Senkuttuvan Rajendiran, Daniel Thangadurai* and Sungho Yoon*, presented in poster session.

Keynote/Invited talk in National/International Symposium/Conference

1. 7th Changwon International Symposium on Advanced Science and Technology held on May 28-29, 2009, at Changwon, Republic of Korea, *Naked-eye Colorimetric detection of Anions by Chromofluorogenic Receptors.*
3. International Biotechnology Symposium held on November 5th, 2009 at Hongik University, Jochiwon, Republic of Korea, *Ruthenium(III) Schiff base Complexes containing ONO/ONS donor atoms as Antibacterial drugs.*
4. National Symposium on Multioxide Hybrid Materials and Recent Research Developments held on December 21st, 2009 at Changwon National University, Changwon, Republic of Korea, *Can Colorimetric Anion Detection Differentiate Isomers?.*
5. International Pharmaceutical science Symposium held on February 19th, 2010 at Changwon National University, Changwon, Republic of Korea, *Ruthenium(III) Schiff base Complexes as Antibacterial drugs.*
6. 2nd International Conference on Chemistry and Chemical Engineering (ICCCE 2011) held on July 29-31 at Chengdu, Republic of China, *Fluorescent "On-Off" Sensor for Biological Anions.*
7. Biomedical Engineering Society of India held on Feb'15, 2012 at Department of Biomedical Instrumentation Engineering, Avinashilingam University, Coimbatore, India.
8. Chemistry Association held on Aug'1st, 2012 at Department of Chemistry, Avinashilingam University, Coimbatore, India.
9. The International Symposium for Advanced Materials and Analytical Techniques will be held on Nov'20,21, 2012 at Changwon National University, Changwon, Republic of Korea.

Participated in National/International Training School/Workshop

1. Participated in the workshop on Environmental Awareness on Quality Management of Irrigation Water, held at Bharathiar University, Coimbatore, India, on February 17-18, 2000.
2. Participated in New Trends of Biochemical Physics, Asian Winter School held at Institute of Molecular Science, Okazaki, Japan, on 8-11 of March, 2002.
3. Participated in 4th Sol-Gel School on Inorganic-organic hybrids for Optical and Dielectric applications and Interconnection Technology, held at Department of Materials Science, Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea, on September 25, 2002.
4. Participated in one day Symposium on Developments in Molecular Mechanisms of Biological Significance held at School of Chemistry, Ecole Nationale Supérieure de Chimie de Paris (ENSCP), France on 21 March, 2003 conducted by Royal Society of Chemistry – Dalton Division in association with the Société Française de Chimie.
5. Participated in New Faculty Orientation Programme held at Adonis Resort, Pocheon, Republic of Korea, on 12-13 of March, 2010.
6. Participated in Faculty Orientation Programme for Kookmin University Foreign faculties held at Yongpyong, Republic of Korea, on June 21-22, 2010.
7. Participated in One day Teaching Workshop for Foreign Faculties – How to Teach Kookmin University Students Well? held at Department of Graduation & Business Administration, Kookmin University, Seoul, Republic of Korea, on August 24, 2010.
8. Participated in International Science & Technology symposium held at Kookmin University, Seoul, Republic of Korea, on February'24, 2011.
9. Participated in Conference of International Students Majoring in Chemistry – KCS Festival for International Students and Scholars held on December 10, 2010 at Korea University, Seoul, Republic of Korea.

10. Participated in The 2011 Summer Bioinorganic Chemistry Symposium held on July 15-16, 2011 at Ewha Woman's University, Chung-ju, Republic of Korea.
11. Participated in The 2011 Summer Inorganic Chemistry Symposium held on August 25-26, 2011 at Cheonan, Republic of Korea.
12. Participated in Mossbauer-Nano Symposium 2011 (Nano Technology and Applications) held on Nov'25, 2011 at Department of Nano and Electronic Physics, Kookmin University, Seoul, Republic of Korea.
13. Participated in International Multi Disciplinary Conference on Solar Energy (IMDCSE 2012) held on Feb'1-3, 2012 at Meenakshi Sundararajan Engineering College, Chennai, India.
14. Acted as referee for Poster session in 4th Indo Korean Conference on Integrative Bioscience Research held on Feb'10-11, 2012 at Avinashilingam University, Coimbatore, Chennai.

I declare that the above said informations are true, and best of my knowledge.

Thank you very much for your attention.

Sincerely Yours,
T. Daniel Thangadurai.