



Dr. R. RAMESH
Professor and Coordinator
(Centre for Organometallic Chemistry)

- # World's Top 2% Scientist by Stanford University
- # Highly Ranked Scholar, ScholarGPS
- # Placed in World Scientists Rank, AD Scientific Index

Contact

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Academic Qualifications

M.Sc. 1988, University of Madras, Chennai.
M.Phil. 1990, Bharathiar University, Coimbatore.
Ph.D. 1996, Bharathiar University, Coimbatore.
Postdoctoral Research, 2005, POSTECH, S. Korea

Title of Ph.D. Thesis

Synthesis, Spectra and Electrochemistry of Ru(III) complexes

Teaching and Research Experience: 27 Years

Additional Responsibilities

1. Coordinator, Centre for Organometallic Chemistry (2021-Till date)
2. Director (Projects), Bharathidasan University (2021-Till date)
3. Chair, School of Chemistry, Bharathidasan University (2021-24)

4. Chairman, PG Board of Studies, Bharathidasan University. (2021-24)
5. Convener, CRSI – Trichy-Madurai local Chapters (2020-23)
6. Coordinator, National Institutional Ranking Framework (NIRF), BDU (2017-19)
7. Head, Department of Chemistry, Bharathidasan University (2018-19)
8. Chair, School of Chemistry, Bharathidasan University (2017-18)
9. Syndicate Member, Bharathidasan University (2008-11)

Areas of Research

Organometallics - Bio-Inorganic Chemistry -Metal Mediated Organic synthesis

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	21	03
	M.Phil.	17	00
Project	PG	90	06
	PDF	02	0

Publications

Total No. of Publications	:	132
Total No. of Conferences Attended	:	72
Cumulative Impact Factor (as per JCR)	:	249
h- index	:	41
i- 10 index	:	96
Total Citations	:	4895

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In Lakhs)
		From	To		
1	SERB	2017	2020	Development of organoruthenium catalysts for direct synthesis of amides and amines/imines	32.00
2	CEFIPRA (Indo-French)	2014	2017	Influences of the resorcin[4] arene on the catalytic outcomes	189.60
3	SERB	2013	2016	A new series of Ru(II) and Pd(II) aroylhydrazone complexes: synthesis, structures and catalytic applications to transfer hydrogenation and carbon - carbon coupling reactions	40.00
4	CSIR	2013	2016	Ruthenium complexes featuring N-heterocyclic carbenes: Synthesis, structures, redox properties and catalytic applications	23.30
5	UGC	2011	2014	Novel binuclear ruthenium(III) complexes: Synthesis, structure, spectral, magnetic and electrochemical Properties	8.25
6	CSIR	2008	2011	Novel organo-ruthenium(III) metalla-cycles: New catalysts for transfer hydrogenation of ketones	14.36
7	DST	2007	2010	Development of novel ruthenium pincer organometallic catalysts: Synthesis, structure and catalytic transfer hydrogenation	18.96
8	DST	2007	2009	Synthesis of Uranium and Mercury phosphoylide complexes: reactivity towards carbonyl compounds, isocyanides and deprotonating agents	3.84
9	UGC	2006	2009	New families of Ru(II) carbonyl complexes: Synthesis, spectra, redox and catalytic Properties	4.42
10	CSIR	2005	2008	Novel Ru(III) complexes of multidentate ligands: Synthesis, spectra, electrochemistry and bioactivity	5.40

11	UGC	2001	2001	Ru(II) Schiff base complexes: Synthesis, characterization and antimicrobial activity	0.15
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Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC	2021	2023	UGC-BSR Mid-Career research grant	10.00
2	RUSA 2.0	2021	2022	Catalytic process for fine chemical synthesis- Heterocycles using alcohols	16.04
3	SERB	2023	2025	Pincer supported nickel(II) catalysed sustainable synthesis of N-heterocyclic compounds via acceptorless dehydrogenative coupling strategy	34.5
4	ICMR	2023	2026	Development of new arene ruthenium(II) complexes as potential DDR inhibitor targeting ATM and ATR DNA repair pathways in cervical cancer	68.0

Distinctive Achievements / Awards

1. World's Top 2% Scientist by Standford University, 2024.
2. Associate Editor in '**Frontiers in Catalysis**'-2022.
3. **UGC-BSR** Mid-Career Award, 2021.
4. Fellow, Royal Society of Chemistry (**FRSC**), UK, 2021.
5. **CRSI-Bronze Medal** conferred by Chemical Research Society of India for outstanding contribution to Research-2020.
6. Tamil Nadu Scientist Award (**TANSA**), 2016.
7. Bharathidasan University has created "Centre for Organometallic Chemistry" (**COMC**) based on the research output and nominated as Coordinator
8. Fellow of Academy of Sciences (**FASc**), University of Madras, Chennai, 2015.
9. **INSA -NRF** Visiting Fellowship Award, S. Korea, 2010.
10. **INSA-KOSEF** visiting fellowship Award, S. Korea, 2004.
11. Indian Academy of Sciences Visiting Fellowship Award, Hyderabad, 2002.
12. Senior Research Fellowship Award (**SRF**), CSIR, 1993.
13. **Gold Medal** in B.Sc. Chemistry, 1985.

Overseas Exposure / Visits

1. University of Strasbourg, **France**, May - June, 2015.
2. University of Stuttgart, **Germany**, May, 2015.

3. University of Zurich, **Swiss**, May, 2014.
4. University of Strasbourg, **France**, May, 2014.
5. University of Rennes, **France**, March, 2012.
6. INSA-NRF visiting fellowship, Chonbuk National University, **S. Korea**, Sep, 2010.
7. Visiting Scientist, POSTECH, **S. Korea**, Mar-Apr-2010
8. Brain Pool Invitation Fellowship, POSTECH, **S. Korea**, Nov 2005- Oct -2006.
9. INSA-KOSEF visiting fellowship, POSTECH, **S. Korea**, July-Sep, 2004.
10. Indian Academy of Sciences, University of Hyderabad, June-Aug, 2002.

Events organized in leading roles

1. Convener – A Two-Day Workshop on Fostering Research Culture to the College Teachers – Aug 18th and 19th, 2023 sponsored by DST-SERB
2. Convener –CRSI-SRC College for Women, Tiruchirappalli, Sep 17th, 2021
3. Convener –CRSI-Cauvery College for Women, Tiruchirappalli, Sep 11th, 2021
4. Convener –CRSI- VHNSNC, Virudhunagar, Jan 29th, 2021.
5. Convener –CRSI- St. Xavier College, Palayamkottai, Dec 7th, 2020.
6. Convener –National Chemistry Week – CRSI- Nov 2nd-7th, 2020.
7. Convener –(By Invitation) DST-ACS publishing workshop, Bharathidasan University, Dec- 2019.
8. Convener – International Conference on Sustainable Energy Technologies (**i-SET**), June-2018.
9. Co-Convener -10th - CRSI Symposium, BDU-NIT, July – 2015.

Chapters in Edited Books

1. R. Ramesh, Metal Carbonyls: Synthesis, Properties, and Structure, 87-105, Wiley-VCH GmbH, 2023. <https://doi.org/10.1002/9783527840946.ch5>
ISBN: 978-3-527-84093-9.
2. Chemistry Text Book, Volume II, Higher Secondary First Year, Tamil Nadu Text Book Corporation, 2011.

List of Publications

132	Ruthenium–Hydride Complexes Facilitated Sustainable Synthesis of Isoxazolones via Acceptorless Dehydrogenative Annulation of Alcohols S. Clinton, V. Tamilthendral and R. Ramesh*, J. Org. Chem. , IF:3.4; ISSN: 1520-6904.
131	Synthesis and structure of binuclear arene Ru (II) N [^] O chelating complexes: synthesis of pyrimidinones via acceptorless dehydrogenative annulation using alcohols S Monika, R. Ramesh* and JG Malecki, New. J. Chem. , IF: 3. 3; ISSN: 1369-9261.

130	Sustainable Synthesis of Substituted 1, 3, 5-Triazines by [ONO]-Pincer-Supported Nickel (II) Complexes via an Acceptorless Dehydrogenative Coupling Strategy P.Anandaraj, R. Ramesh* and Jan Grzegorz Malecki, J. Org. Chem. , IF:3.4; ISSN: 1520-6904.
129	NNO Pincer-Supported Pd(II)-Catalyzed Reductive N-Alkylation of Challenging Nitroarenes with Alcohols via Borrowing Hydrogen Strategy S. Pranesh Kavin, R. Ramesh* and S. Balaji J. Org. Chem. , 89(2024), 11161–11172 https://doi.org/10.1021/acs.joc.4c00621 IF:3.4; ISSN: 1520-6904.
128	One-Pot Sustainable Synthesis of Highly Substituted Pyrimidines via Acceptorless Dehydrogenative Annulation of Alcohols Using Pincer Ni(II)–NNS Catalysts S. Clinton, R. Ramesh,* and Jan Grzegorz Malecki , J. Org. Chem. , 89(2024), 11148–11160. https://doi.org/10.1021/acs.joc.4c00587 IF:3.4; ISSN: 1520-6904.
127	Analysis of Antiproliferative activity of New Half-sandwich Arene Ru (II) thiophene based aroylhydrazone complexes. P. Ramya, A. Abirami, and R. Ramesh*, Dalton Trans. , 53 (2024), 13469. https://doi.org/10.1039/D4DT01845A . IF: 4.0. ISSN: 1477-9234.
126	Dinuclear arene ruthenium (II) arylthiourea complexes: Synthesis, structure, cancer cell growth inhibition and apoptosis induction studies. S. Balaji, M. K. M. Subarkhan, G. Balamurugan and R. Ramesh* Appl. Organomet. Chem. , 38 (2024), e7574. https://doi.org/10.1002/aoc.7574 IF:3.9; ISSN: 1099-0739.
125	Promoting the Anticancer Activity with Multidentate Furan-2-Carboxamide Functionalized Aroyl Thiourea Chelation in Binuclear Half-Sandwich Ruthenium(II) Complexes T. Sathiya Kamatchi, M.M. Khan and R. Ramesh*, Inorg. Chem. , 63 (2024), 7520–7539 https://doi.org/10.1021/acs.inorgchem.4c01265 . IF: 4.6. ISSN: 1520-510X.
124	Exploring the Cytotoxicity of Dinuclear Ru (II) p-cymene Complexes Appended N, N'-Bis (4-substituted benzoyl) hydrazines: Insights into the Mechanism of Apoptotic Cell Death A. Abirami, U. Devan, R. Ramesh*, A. Antony Joseph Velanganni, and J.G. Małecki, Dalton Trans. , 53 (2024) 5167 - 5179. https://doi.org/10.1039/D3DT04234K IF: 4.0. ISSN: 1477-9234.
123	Nickel Pincer Complexes Catalysed Sustainable Synthesis of 3,4-dihydro-2H-1,2,4-benzothiadiazine-1,1-dioxides via Acceptorless Dehydrogenative Coupling of Primary Alcohols P. Anandaraj and R. Ramesh* J. Org. Chem. , 89 (2024) 2494-2504 https://doi.org/10.1021/acs.joc.3c02508 IF:4.1; ISSN: 1520-6904.
122	Arene Ruthenium(II)-Catalyzed Sustainable Synthesis of 2,4-Disubstituted Quinazolines via Acceptorless Dual Dehydrogenative Coupling of Alcohols S. Saranya, V. Tamilthendral, P. Anandaraj, and R. Ramesh* J. Org. Chem. , 88 (2023) 16967–16977. https://doi.org/10.1021/acs.joc.3c01808 ; IF:4.1; ISSN: 1520-6904.
121	Naphthoyl Benzhydrazine - Decorated Binuclear Arene Ru(II) Complexes as Anticancer Agents Targeting Human Breast Cancer Cells

	A. Abirami, U. Devan, R. Ramesh,* A. Antony Joseph Velanganni, and J G Małecki, Dalton Trans. , 52 (2023), 16376-16387. https://doi.org/10.1039/D3DT02552G . IF: 4.56; ISSN: 1477-9234.
120	N-alkylation of benzamides/sulfonamides using alcohols via borrowing hydrogen approach by well-defined Pd (II) pincer complexes P. Anandaraj, and R. Ramesh*, Appl. Organomet. Chem. 2023; e7228. https://doi.org/10.1002/aoc.7228 . IF:3.9; ISSN: 1099-0739.
119	New dinuclear arene Ru(II) benzilbis(furoylhydrazone) complexes: synthesis, structure and anticancer activity S. Monika and R. Ramesh*, New. J. Chem. , 47 (2023) 15622-15630. DOI: 10.1039/d3nj02869k ; IF:3.3; ISSN: 1369-9261.
118	Synthesis and Structure of Pd(II) Pincer Complexes: Catalytic Application to β -Alkylation of Secondary Alcohols Involving Sequential Dehydrogenation of Alcohols via Borrowing Hydrogen Approach S. Pranesh Kavin and R. Ramesh*, Dalton Trans. , 52 (2023)10038-10044. DOI: 10.1039/D3DT01628E ; IF: 4.56; ISSN: 1477-9234.
117	Arene Binuclear Ru(II)-Promoted Sustainable Synthesis of 2 Substituted Pyrazoles from Alcohols via Acceptorless Dehydrogenative Annulation V. Tamilthendral and R. Ramesh*, Org. Lett. 25(2023) 4162-4167. https://doi.org/10.1021/acs.orglett.3c01452
116	Orthometallated Pd(II) C ^N S pincer complex catalyzed sustainable synthesis of bis(indolyl)methanes via acceptorless dehydrogenative coupling of alcohols S. Clinton, R. Ramesh* and J. G. Małecki, Catal. Sci. Technol. 13(2023)3358-3365. DOI: 10.1039/d3cy00333g
115	Exploration of Antiproliferative Activity and Apoptosis Induction of New Nickel(II) Complexes Encompassing Carbazole Ligands P. Ramya, R. Ramesh,* T. Sathiya Kamatchi, and J. G. Małecki, ACS Omega , 8(2023) 12584-12591. https://doi.org/10.1021/acsomega.3c01252
114	Synthesis and structural characterization of palladium pincer complexes: Sustainable synthesis of benzothiazoles P. Anandaraj, S. Saranya and R.Ramesh*, Appl. Organomet Chem. 2023; e7062., https://doi.org/10.1002/aoc.7062 IF: 4.105; ISSN: 1099-0739.
113	Direct synthesis of benzimidazoles by Pd(II) N ^N S-pincer type complexes via acceptorless dehydrogenative coupling of alcohols with diamines P.Anandaraj, R.Ramesh* and J.G. Malecki, J. Organomet. Chem. , 985(2023)122577. https://doi.org/10.1016/j.jorganchem.2022.122577 .
112	Investigation on Anticancer Activity of New Ni(II) Cuminaldehyde based Benzhydrazone Complexes P. Ramya, R. Ramesh* and P. Kumaradhas, Inorganica Chim. Acta. , 546(2023) 121312. https://doi.org/10.1016/j.ica.2022.121312
111	One-pot synthesis of 1,3-disubstituted imidazo[1,5-a]pyridines via acceptorless dehydrogenative coupling of primary alcohols promoted by binuclear ruthenium(II) N ^O -chelating complexes S. Monika and R. Ramesh*, Appl. Organometal. Chem. , 37(2022) e6986. https://doi.org/10.1002/aoc.6986 IF: 4.105; ISSN: 1099-0739.

110	New ruthenium(II) catalysts enable the synthesis of 2-amino-4H-chromenes using primary alcohols via acceptorless dehydrogenative coupling V. Tamilhendral, R. Ramesh* and J.G. Malecki, New. J. Chem. , 46 (2022)21568-21578. https://doi.org/10.1039/d2nj03268f , IF:3.925; ISSN: 1369-9261
109	Impact of Biphenyl Benzhydrazone-Incorporated Arene Ru(II) Complexes on Cytotoxicity and the Cancer Cell Death Mechanism A. Abirami , R.Ramesh ,* U.Devan and A. Antony Joseph Velanganni, Organometallics , 41 (2022) 2474-2486. https://doi.org/10.1021/acs.organome , IF: 3.876; ISSN: 1099-0739
108	Arene Ru(II)- Catalyzed Facile Synthesis of <i>N</i> -Acylhydrazones via Acceptorless Dehydrogenative Coupling Strategy S. Saranya, R. Ramesh*, P. Anandaraj and S. David, Appl. Organometal. Chem. , 36 (2022) e6857. DOI:10.1002/aoc.6857. IF: 4.105; ISSN: 1099-0739.
107	NNO Pincer Ligand-Supported Palladium(II) Complexes: Direct Synthesis of Quinazolines via Acceptorless Double Dehydrogenative Coupling of Alcohols S. Balaji, R. Ramesh* and David Semeril, Organometallics. , 41(2022) 1314-1324. DOI: https://doi.org/10.1021/acs.organomet.2c00062 ; IF: 3.876; ISSN: 1099-0739.
106	Concise Access to Perimidines by Palladium (II) Complexes via Acceptorless Dehydrogenative Coupling of Alcohols S. Clinton, R. Ramesh* and J. G. Małecki, Appl. Organometal. Chem. , 36(2022) e6708. DOI: https://doi.org/10.1002/aoc.6708 IF: 4.105; ISSN: 1099-0739.
105	N [^] N [^] O Hydrazone Capped Pincer Type Palladium Complex Catalysed Construction of Quinazolinones from Alcohols P. Anandaraj, R. Ramesh* and T. Sathiya Kamatchi, Inorg. Chem. Commun. , 137 (2022)109190. DOI: https://doi.org/10.1016/j.inoche.2021.109190 ; IF: 2.495; ISSN: 1387-7003
104	Ru(II)-NNO pincer-type complexes catalysed E-olefination of alkyl-substituted quinolones/pyrazines utilizing primary alcohols V. Tamilhendral, R. Ramesh* and G. Malecki, Appl. Organomet. Chem. , 36 (2021) e6561. https://doi.org/10.1002/aoc.6561 ; IF:4.105; ISSN:1099-0739
103	Nickel(II)-Catalyzed Selective (E)-olefination of Methyl Heteroarenes Using Benzyl Alcohols via Acceptorless Dehydrogenative Coupling Reaction G. Balamurugan and R. Ramesh*, ChemCatChem. , 13 (2021)1-9. IF:5.686; ISSN: 1867-3880. https://doi.org/10.1002/cctc.202101455
102	Assessment of Antiproliferative activity of New Half-sandwich Arene Ru(II) furylbenzhydrazone complexes P. Ramya, R. Ramesh*, U. Devan, A.A.J. Velanganni and J. G. Małecki, Appl. Organomet. Chem. , 36(2022) e6512. IF: 4.105; ISSN:1099-0739. https://doi.org/10.1002/aoc.6512

101	<p>Palladium(II) N,N,O-Pincer Type Complexes Mediated Dehydrogenative Coupling of Alcohols to Quinazolines P. Anandaraj, R. Ramesh* and P. Kumaradhas, New. J. Chem., 45(2021)16572-16580 https://doi.org/10.1039/D1NJ03146E, IF:3.591; ISSN: 1369-9261</p>
100	<p>Palladium(II) N[^]O Chelating Complexes Catalyzed One-pot Approach for Synthesis of Quinazolin-4(3H)-ones via Acceptorless Dehydrogenative Coupling of Benzyl alcohols and 2-Aminobenzamide S. Balaji, G. Balamurugan, R. Ramesh* and D. Semeril, Organometallics, 40 (2021) 725–734. https://doi.org/10.1021/acs.organomet.0c00814; IF: 3.876; ISSN:1099-0739.</p>
99	<p>Arene Diruthenium(II) Mediated Synthesis of Imines from Alcohols and Amines Under Aerobic Condition V. Tamilthendral, R. Ramesh* and G. Malecki, Appl. Organomet. Chem.,35(2021), e6122. Doi.org/10.1002/aoc.6122, IF:4.105; ISSN:1099-0739</p>
98	<p>Non-pincer-type Arene Ru(II) Catalysts for the Direct Synthesis of Azines from Alcohols and Hydrazine under Aerobic Conditions S. Saranya, R. Ramesh* and D. Semeril, Organometallics, 39 (2020) 3194-3201. DOI:10.1021/acs.organomet.0c00367, IF: 3.876; ISSN:1099-0739.</p>
97	<p>Investigations on Antiproliferative Activity and Apoptosis Mechanism of New Arene Ru(II) Carbazole based Hydrazone Complexes T. Sathiya Kamatchi, M.M. Khan, R. Ramesh*, H. Wang and G. Malecki, Dalton Trans., 49 (2020), 11385-11395. DOI: 10.1039/D0DT01476A ; IF:4.174; ISSN: 1477-9234.</p>
96	<p>Nickel(II) – N[^]N[^]O Pincer Type Complexes Catalyzed N-alkylation of Amines with Alcohols via Hydrogen Auto Transfer Reaction G. Balamurugan, R. Ramesh* and G. Malecki, J. Org. Chem., 85 (2020)7125-7135. DOI: 10.1021/acs.joc.0c00530; IF:4.335; ISSN: 1520-6904</p>
95	<p>Synthesis and Structure of Arene Ru(II) N[^]O-Chelating Complexes: In Vitro Cytotoxicity and Cancer Cell Death Mechanism, S. Balaji, M.M. Khan, R. Ramesh*, H. Wang and D. Semeril, Organometallics, 39 (2020) 1366-1375. DOI: 10.1021/acs.organomet.0c00092; IF: 3.804; ISSN:1099-0739</p>
94	<p>Efficient construction of C-C bonds from aryl halides/aryl esters with arylboronic acids catalysed by palladium(II) thiourea complexes T.S. Manikandan, R. Ramesh* and G. Malecki , Appl. Organomet. Chem., 33(2019), e5181. DOI:10.1002/aoc.5181; IF:3.259; ISSN:1099-0739</p>
93	<p>Synthesis of the First Resorcin[4]arene-Functionalized Triazolium Salts and Their Use in Suzuki Miyaura Cross-Coupling Reactions D. Sémeril,* D. Matt and R. Ramesh, Catalysts, 9 (2019) 388. DOI: 10.3390/catal9040388; IF:3.444; ISSN:2073-4344</p>

92	<p>Direct synthesis of 2,4,5-trisubstituted imidazoles from primary alcohols by diruthenium(II) catalysts under aerobic conditions S. Saranya and R. Rengan*, Organic & Biomolecular Chemistry, 17 (2019) 1402-1409. DOI: 10.1039/C8OB02785D; IF:3.490; ISSN: 1477-0539</p>
91	<p>The Tandem C–H/N–H Activation of N-Methyl Arylamide Catalyzed by Dinuclear Pd(II) Benzhydrazone Complex: A Concise Access to Phenanthridinone T.S. Manikandan, R. Ramesh* and D. Semeril, Organometallics, 38 (2019) 319-328. DOI:10.1021/acs.organomet.8b00714; IF:4.100; ISSN: 1520-6041</p>
90	<p>Synthesis and Structures of Arene Ruthenium(II)-NHC complexes: Efficient catalytic α-alkylation of ketones via hydrogen auto transfer reaction. G. Balamurugan, S. Balaji, R.Ramesh* and N. Bhuvanesh, Appl.Organomet.Chem., 33(2019) e4696. DOI:10.1002/aoc.4696; IF:3.259; ISSN:1099-0739</p>
89	<p>Chiral calixarene and resorcinarene derivatives: Conical cavities substituted at their upper rim by two phosphito units and their uses as ligands in Rh- catalysed hydroformylation N. Natarajan, M. Pierrevekin, D. Semeril, C. Bauder, D. Matt and R. Ramesh, Catalysis Commun., 118 (2019) 70–75. DOI: 10.1016/j.catcom.2018.09.020; IF: 3.674; ISSN: 1566-7367</p>
88	<p>Synthesis and structure of arene ruthenium(II) complexes: one pot catalytic approach to synthesis of bioactive quinolines under mild condition S. Muthumari, S. Saranya and R. Ramesh*, Appl.Organomet.Chem., 32(2018), e4582. DOI: 10.1002/aoc.4582; IF: 3.259; ISSN:1099-0739</p>
87	<p>Synthesis and structure of arene ruthenium(II) benzhydrazone complexes: Antiproliferative activity, apoptosis induction and cell cycle analysis R. Raj Kumar, R. Ramesh* and G. Malecki, J. Organomet. Chem., 862 (2018) 95-104. DOI: 10.1016/j.jorganchem.2018.03.013; IF: 2.173; ISSN: 0022-328X</p>
86	<p>Synthesis and structure of Ru(II) complexes of thiosemicarbazones: Highly selectivecatalysts for oxidation of olefins to aldehydes S. Muthumari and R. Ramesh*, ChemistrySelect 3 (2018) 3036–3041. DOI: 10.1002/slct.201800163; IF: 1.716; ISSN:2365-6549</p>
85	<p>Direct aerobic strategy for selective synthesis of imines via alcohols and amines promoted by ruthenium(II) (η^6-cymene) complexes T. S. Manikandan, S. Naveen, N. Loknath and R. Ramesh*, ChemistrySelect, 3 (2018) 1561-1568. DOI:10.1002/slct.201800083; IF: 1.716; ISSN:2365-6549</p>
84	<p>Synthesis, antiproliferative activity and apoptosis promoting effects of arene Ru(II) complexes with N, O chelating ligands N. Mohan, M.M. Khan and R. Ramesh*, J. Organomet. Chem., 859 (2018) 124-131. DOI: 10.1016/j.jorganchem.2018.01.022; IF: 2.173; ISSN: 0022-328X</p>

83	Synthesis and structure of new binuclear ruthenium(II) arene benzil bis(benzoylhydrazone) complexes: Investigation on antiproliferative activity and apoptosis induction M. Subarkhan, S. Saranya, and R. Ramesh*, Inorg. Chem. Front. , 5 (2018) 585-596. DOI:10.1039/C7QI00761B; IF: 5.934; ISSN: 2409-3424
82	Cavitand chemistry: nickel half-sandwich complexes with imidazolylidene ligands bearing one or two resorcinarenyl substituents N. Natarajan, T. Chavagnan, D. Sémeril*, E. Brenner, D. Matt, R. Ramesh, and L. Toupet, Eur. J. Inorg. Chem. , (2018) 890-896 DOI: 10.1002/ejic.201701143 ; IF:2.578; ISSN:1099-0682
81	Cyclometalated Ru(II)-NHC complexes as effective catalysts for transfer hydrogenation: Influence of wintip group on catalytic outcomes G. Balamurugan, R. Ramesh* and G. Małecki., ChemistrySelect , 2 (2017) 10603-10608. DOI: 10.1002/slct.201702102 ; IF: 1.716; ISSN:2365-6549
80	One-pot catalytic approach for the selective aerobic synthesis of imines from alcohols and amines using efficient arene diruthenium(II) catalysts under mild condition S. Saranya, R. Ramesh* and G. Małecki., Eur. J. Org. Chem. ,45 (2017) 6726-6733. DOI: 10.1002/ejoc.201701408 ; IF:2.578; ISSN:1099-0682
79	Versatile coordination ability of thioamide ligand in Ru(II) complexes: synthesis, computational studies, in vitro anticancer activity and apoptosis induction R. Raj Kumar, R. Ramesh* and G. Malecki, New. J. Chem. , 41 (2017) 9130-9141. DOI:10.1039/C7NJ01828B ; IF: 3.069; ISSN: 1369-9261
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Others

1. No. of Ph.D. Thesis evaluated : 74
2. No. of Ph.D. Public Viva Voce Examination conducted : 75

Events Participated

Conferences / Seminars / Workshops:

1. A new route to the synthesis of novel hydrido complexes by the abstraction of a hydride ion from the coordinated β -diketonate ligands on ruthenium(II) complexes. UGC – DRS National Seminar on New trends in Dynamic and Structural Studies in Inorganic and Physical Chemistry, Madurai Kamaraj University, 1995.
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- Symposium in Chemistry, CLRI, Chennai, February 2003.
5. Synthesis, characterisation, redox properties and biological studies of Ru(II) carbonyl complexes, 6th CRSI National Symposium, IIT Kanpur, February 2004.
 6. Ruthenium(III) arylazophenolate complexes containing triphenylphosphine/ arsine, 6th CRSI National Symposium, IIT Kanpur, February 2004.
 7. Synthesis, Characterization and Bioactivity studies of ruthenium(II) carbonyl complexes containing triphenylphosphine and Monobasic Bidentate Schiff bases, 6th CRSI National Symposium, IIT Kanpur, February 2004.
 8. Synthesis, characterization, redox property and biological activity of Ru(II) carbonyl complexes containing O,N-donor ligands and heterocyclic bases, National Symposium on Current Trends in Chemical Research at Guwahati University, Guwahati, February 2004.
 9. Synthesis, spectra, dioxygen affinity and antifungal activity of Ru(III) Schiff base complexes, National Symposium on Current Trends in Inorganic Chemistry, Cochin University of Science and Technology, Cochin, March 2004.
 10. Dioxygen affinity and catalytic activity of Ru(III) complexes containing N₂O₂ donors, National Symposium on Current Trends in Inorganic Chemistry, Cochin University of Science and Technology, Cochin, March 2004.
 11. Catalytic and biological activities of Ru(II) carbonyl complexes containing N₂O₂ donor ligands, National Symposium on Current Trends in Inorganic Chemistry, Cochin University of Science and Technology, Cochin, March 2004.
 12. Synthesis, structure and redox properties of cycloruthenated complexes: Crystal structure of bis(triphenylphosphine) carbonyl-2-(phenylazo)-4-methylphenalato ruthenium(II), 2nd CRSI, Bharathidasan University, Tiruchirappalli, January 2005.
 13. Cyclometallated Ruthenium(III) Complexes: Synthesis, Crystal Structure, Catalytic Transfer Hydrogenation of Ketones and Biological Activity, 7th CRSI National Symposium, IACS Kolkatta, February 2005.
 14. Synthesis of Ru(II) Carbonyl Complexes Containing 2N₂O Donor Ligands Towards Catalyzed Coupling Reactions, 7th CRSI National Symposium, IACS Kolkatta, February 2005.
 15. Ru(II) Carbonyl Complexes with N₂O₂ Donors: Catalytic Isomerisation of Allylic Alcohols and Biological Activity, 7th CRSI National Symposium, IACS Kolkatta, February 2005.
 16. Synthesis, Spectral, Redox and Biological studies of Schiff base Ruthenium(III) Complexes Derived from 3-acetyl-6-methyl-2H-pyran-2,4(3H)-dione, 7th CRSI National Symposium, IACS Kolkatta, February 2005.
 17. Orthometallated Mononuclear Ruthenium(III) Complexes Containing C,N,O Donors, National Symposium on Electron Magnetic Resonance Spectroscopy (NSEMRS), Pondicherry University, Pondicherry, February 2005.
 18. Pt(II)/Pd(II) pincer complexes that show C-H...Cl hydrogen bonding: Synthesis and application in catalytic aldol and silylcyanation reactions, National Seminar on Current trends in Chemistry, Cochin University of Science and Technology, Cochin, January 2008.
 19. Ruthenium(III) complexes of amine-bis(phenolate) ligands as catalysts for transfer hydrogenation of ketones, Modern Trends in Inorganic Chemistry

- (MTIC-XIII) at Indian Institute of Science, Bangalore-560 012, from December 2009.
20. Pt(II)/Pd(II) pincer complexes that show C-H...Cl hydrogen bonding: Synthesis and application in catalytic aldol and silylcyanation reactions, 38th National Seminar on Crystallography, University of Mysore, Mysore, February 2009.
 21. Synthesis, crystal structure and catalytic activity of ruthenium(II) carbonyl complexes containing ONO and ONS donor ligands, International Conference on Coordination and Organometallic Chemistry (ICCO-2009), Bharathiar University, Coimbatore, March 2009.
 22. Ruthenium(II) mediated C-H activation of substituted acetophenone thiosemicarbazones: Synthesis, structural characterization, luminescence and electrochemical properties, International Conference on Coordination and Organometallic Chemistry (ICCO-2009), Bharathiar University, Coimbatore, March 2009.
 23. Luminescence Properties of Organoruthenium(II) Thiosemicarbazone Complexes, International Conference on Materials of the Millennium (MATCON-2010), CUSAT, Cochin, January 2010.
 24. Hydrazone Containing Transition Metal Complexes – Synthesis, Electrochemical Studies and Structural Aspects, National Conference on Recent Advances in Electroanalytical Techniques, Gandhigram Rural Institute, Gandhigram, February 2010.
 25. Synthesis, characterization and Electrochemical Behaviour of Transition Metal Complexes Incorporating Hydrazone Ligand, National Conference on Recent Advances in Electroanalytical Techniques, Gandhigram Rural Institute, Gandhigram, February 2010.
 26. Luminescence and Electrochemical Properties of Cyclometallated Ruthenium(II) Complexes of Incorporating Thiosemicarbazones, National Seminar on Current Trends in Chemistry (CtriC-2011), Cochin University of Science and Technology, Cochin, March 2011.
 27. Arene ruthenium(II) phenylthiosemicarbazone complexes mediated transfer hydrogenation of ketones, National Seminar on Current Trends in Chemistry (CtriC-2011), Cochin University of Science and Technology, Cochin, March 2011.
 28. Synthesis, structural characterization, luminescence, electrochemical behaviour and DFT investigation of ruthenium(II) carbonyl complexes containing benzhydrazone ligands, 3rd Asian Conference on Coordination Chemistry (ACCC3-2011), New Delhi, October 17-20, 2011.
 29. Pd(II) thiocarboxamide complexes catalyzed Suzuki coupling of aryl halides, 3rd Asian Conference on Coordination Chemistry (ACCC3-2011), New Delhi, October 17-20, 2011.
 30. Dinuclear palladium(II) bis(thiosemicarbazone) catalyzed Mizoroki-Heck reaction, International Green Catalysis Symposium and Advanced Spring School on Green Catalysis, University of Rennes, March 7-9, 2012.
 31. Synthesis, Characterisation and Catalytic Applications of Cationic Arene ruthenium(II) phenylhydrazone complexes, International Green Catalysis Symposium and Advanced Spring School on Green Catalysis, University of Rennes,

March 7-9, 2012.

32. Arene ruthenium(II) complexes bearing thiocarboxamide ligands and their catalytic activity in oxidation of alcohols, International Green Catalysis Symposium and Advanced Spring School on Green Catalysis, University of Rennes, March 7-9, 2012.
33. National Seminar on Recent advances in synthetic Organic Chemistry 1990, Bharathiar University, Coimbatore.
34. UGC-DRS National Seminar on New Trends in Dynamic and Structural Studies in Inorganic and Physical Chemistry, Madurai Kamaraj University, 1995.
35. Indian Science Congress, Calcutta, 1995.
36. 2nd Winter School on Organometallic Chemistry, IIT, Kharagpur, Jan 2001.
37. Winter School on Bio-inorganic Chemistry, Department of Chemistry, Bharathidasan University, Trichy, Dec 2002.
38. Second Regional CRSI Symposium in Chemistry, School of Chemistry, Bharathidasan University, Trichy, Jan 2005.
39. Workshop on Organometallic Chemistry, Bhaba Atomic Research Centre (BARC), Mumbai, Apr 2005.
40. Symposium on Modern Trend in Inorganic Chemistry, Indian Institute of Technology (IIT Madras), Chennai, Dec-2007.
41. National Seminar on Current trends in Chemistry, Cochin University of Science and Technology, Cochin, Jan 18-19th, 2008.
42. National Conference on Recent Trends in Coordination and Organometallic Chemistry, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore, July 17-18, 2008
43. 3rd CRSI-RSC Symposium at National Chemical Laboratory, Pune-411008, February 5, 2009.
44. 11th CRSI National Symposium in Chemistry at National Chemical Laboratory, Pune-411008, from February 6th to 8, 2009.
45. 38th National Seminar on Crystallography (38NSC2009) at University of Mysore, Mysore- 570006, from February 11th to 13, 2009.
46. "Modern Trends in Inorganic Chemistry" (MTIC-XIII) at Indian Institute of Science, Bangalore- 560 012, from December 7 to 10, 2009.
47. 12th CRSI National Symposium in Chemistry, Indian Institute of Chemical Technology, Hyderabad- 500 607, from February 4th to 7, 2010.
48. National Seminar on Current Trends in Chemistry, Cochin University of Science and Technology, Cochin, from March 4th to 5, 2011.
49. Chemical Research Society of India (CRSI), NIT, Surathkal, Mangalore.
50. Emerging Trends in Chemistry, December 13, 2013, SRC, Trichy.
51. Department of Chemistry, Anna University, December, 2013, Trichy.
52. Academy Staff College, Bharathidasan University, 4th Jan, 2014, Trichy.
53. Special Lecture on Bio-inorganic Chemistry, Thiagarajar College, Jan 2014, Madurai.
54. National Workshop on Advanced Characterisation techniques (Act-2015), Periyar University, January 29-30th, 2015.
55. Current Scenario In Material Chemistry (CSIMC-2015), Jamal Mohamed College, January 9-10th February, 2015.
56. One day UGC sponsored seminar, Periyar EVR Govt. Arts College, 19th Feb, 2015.
57. Faculty development programme, Anna University, BIT, Trichy, June - 2015.

58. 10th CRSI Symposium, National Institute of Technology, Trichy, July – 2015.
59. UGC sponsored National Seminar on Recent Advances in Chemistry, Kandaswami Kandar's College, Namakkal, Aug 13-14, 2015.
60. One day National seminar, ANJAC College, Sivakasi, March 11, 2016.
61. National Conference on the Recent Advances in the Applications of Macromolecular Materials (RAAMM - 2017), GRI, Ganghigram March 2, 2017.
62. One Day UGC - National Conference on Recent Advances in chemistry, Meenakshi College, Madurai, Jan-2020.

International Conference Attended/Participated

1. Workshop on Integrated Molecular System, Jeju Island, S. Korea, Feb - 2006.
2. The 12th Samsung International Symposium on Molecular Medicine, Seoul, S. Korea, Sep- 2006.
3. International Conference on Coordination and Organometallic Chemistry (ICCO-2009), Bharathiar University, Coimbatore, March 2009.
4. International Conference on Materials of the Millennium (MATCON), CUSAT, Cochin, Jan-2010.
5. 3rd Asian Conference on Coordination Chemistry (ACCC-3, 2011), New Delhi, October - 2011.
6. International Green Catalysis Symposium and Advanced Spring School on Green Catalysis, University of Rennes, March 7-9, 2012.
7. International Conference on Sustainable Energy Technologies (i-SET), BDU, June-2018.
8. International conference on research initiatives in chemistry for sustainable development (RICS), March, 2019.
9. International Conference ICACSEM, University of Madras, Jan-2020.

Other Training Programs Organised

1. Served as Coordinator – Refresher Course in Chemistry, UGC-HRDC, BDU, 2011.
2. Served as Coordinator – Refresher Course in Materials Science, UGC-HRDC, BDU, 2017.

Membership in Professional Bodies

1. Life Member: Academy of Sciences, University of Madras.
2. Life Member: Chemical Research Society of India (CRSI).
3. Member in American Chemical Society (ACS).
4. Member in Royal Society of Chemistry (RSC).

Academic Bodies

1. Member, Board of Studies, JJ College of Arts and Science, Pudukkottai (2022-25).
2. Member, Board of Studies, Bharathiar University, Trichy (2021-24).
3. Member, Board of Studies, Bharathidasan University, Coimbatore (2021-24).

4. Member, Board of Studies, H.H. The Rajah's College, Pudukkottai (2021-24).
5. Member, Board of Studies, Srimud Andavan Arts and Science College, Trichy (2021-24).
6. Member, Board of Studies, Govt. Arts College, Kumbakonam (2021-24).
7. Member, Academic Council, H.H. The Rajah's College, Pudukkottai (2021-24).
8. Member, Academic Council, Holy Cross College, Trichy (2019-22).
9. Member, Academic Council, Jamal Mohamed College, Trichy (2019-22).
10. Member, Selection Committee, CAS, GRI, Gandhigram (2019).
11. Member, Selection Committee, CAS, Annamalai University, Chidambaram (2019).
12. Member, Academic Council, JJ College of Arts and Science, Pudukkottai (2019).
13. Member, Board of Studies, Srimud Andavan Arts and Science College, Trichy (2018-21).
14. Member, College Committee, Jairams Arts and Science College, Karur (2018-21).
15. Member, College Committee, Mahatma Arts and Science College, Pudukkottai (2018-21).
16. Member, Board of Studies, Annamalai University, Chidambaram (2018).
17. Member, Board of Studies, Bharathiar University, Coimbatore (2018-20).
18. Member, Academic Council, JJ College of Arts and Science, Pudukkottai (2018).
19. Member, Research Committee, St. Joseph College, Trichy (2018).
20. Member, Academic Council, SRC, Trichy (2018).
21. Member, Academic Council, Jamal Mohamad College, Trichy (2018).
22. Member, Board of Studies, Annamalai University, Chidambaram (2017-20).
23. Member, Board of Studies, Thiruvalluvar University, Vellore (2017-20).
24. Member, Board of Studies, AVC College, Mayiladudurai (2016-18).
25. Member, Academic Audit meeting ANJAC, Sivakasi (2016).
26. Member, Board of Studies, SRC College, Trichy (2016).
27. Member, Scrutiny committee, Bharathiar University, Coimbatore (2016).
28. Selection Committee Member, Poombukar College, Poombukar (2016).
29. Selection Committee Member, Urumu Dhanalakshmi college, Trichy (2016).
30. Member, Board of Studies, Theivanai Ammal College For Women, Villupuram (2016).
31. Selection Committee Member, Alagappa University, karaikudi (2015).
32. Selection Committee Member in Appointment of JRF, NIT Trichy (2015).
33. Selection Committee Member in Appointment of JRF, GRI Ganghigram (2014).
34. Selection Committee Member in Appointment of Asst. Prof., CNC, Erode (2013).
35. Member, Board of Studies, PSGR, Krishnammal College for Women, Coimbatore (2012-14).
36. Member, Board of Studies, Jamal Mohamed College, Trichy (2012-13).
37. Member, Board of Studies, Bishop Heber College, Trichy (2012-13).
38. Member in Scrutiny Committee, C U T N, Tiruvarur (2012).
39. Board of Studies, Bishop Heber College, Trichy (2010-12).
40. Member in Academic Council, AVC College, Mayiladudhurai (2008-10).
41. Member in Academic Council, AVVM Sri Pushpam College, Poondi (2008-10).
42. Member, Selection Committee, SRC Trichy (2007).
43. Member, Board of Studies, SRC, Trichy (2006-07).
44. Member, Board of Studies, Jamal Mohamed College, Trichy (2004-06).

Others

1. Served as Syndicate Member, Bharathidasan University, 2008-11.
2. Served as Research Hostel Warden, Bharathidasan University, 2008.

Editorial Board

1. Editorial Board Member in 'Frontiers in Catalysis'-2022.
2. The Open Catalysis Journal, Bentham Publication.

Reviewer for the following Journals

1. Organometallics, ACS
2. Organic Letters, ACS
3. ChemCatChem, Wiley
4. Dalton Transactions, Royal Society of Chemistry.
5. Inorganic Chemistry Frontiers
6. Journal of organometallic chemistry
7. Polyhedron, Elsevier
8. Inorganic Chemistry Communication – Elsevier
9. Inorganic Chimica Acta, Elsevier
10. Spectrochimica Acta Part A: Mol. and Biomol. Spectroscopy – Elsevier
11. Journal of Molecular Structure – Elsevier
12. Indian Journal of Chemistry: Sec. A – CSIR, India
13. Applied Organometallic Chem., Wiley

Resource persons in various capacities

I. Invited lectures in India

1. Academy Staff College, Bharathidasan University, April 2000, Trichy.
2. SRC College, Feb 2007, Trichy
3. National Conference on Recent Trends in Coordination and Organometallic Chemistry, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore, July 17-18, 2008.
4. Endowment Lecture given in S R College, Trichy.
5. J. J. College of Arts and Science, J. J. Nagar, Pudukkottai.
6. Academy Staff College, Bharathiar University, Feb 02, 2008, Coimbatore.
7. Thiagarajar College, March 2008, Madurai.
8. Sri Ramakrishna Mission Vidyalaya College, July 17-18, 2008, Coimbatore.
9. Holy Cross College, June 29, 2010, Trichy.
10. Academy Staff College, Bharathidasan University, Oct 18, 2010, Trichy.
11. Academy Staff College, Bharathiar University, October 13, 2010, Coimbatore.
12. Modern research in chemical sciences, Srinivasan College of Arts and Science, Jan 2011, Perambalur,
13. Academy Staff College, Bharathiar University, Sep 12, 2011, Coimbatore.
14. UGC sponsored competence-building programme for teachers, Chikkaiah Naicker College, March 2011, Erode.

15. One day Regional workshop on modern research in chemical sciences, Jan 2011, Perambalur.
16. National seminar on current trends in chemistry, chaired a session, March 2011, Cochin.
17. New Vistas in Chemistry, Jamal Mohamed College, Jan 2012, Trichy.
18. Resonance 2012, Gandhigram Rural University, Feb 2012, Gandhigram.
19. "National seminar on New Vistas in Catalysis and surface science, March 16-17, 2012, Annamalai University, Chidambaram.
20. National seminar on advanced materials, Bharathiar University, April 2012, Coimbatore.
21. Academy Staff College, Bharathiar University, May 11, 2012, Coimbatore.
22. Ayya Nadar Janaki Ammal College, October 01, 2012.
23. Manonmanium Sundaranar University, September 10, 2012.
24. PSGR, Krishnammal College for Women, July 19, 2013, Coimbatore.
25. Academy Staff College, Bharathiar University, August 20, 2013, Coimbatore.
26. CRSI mid-year symposium, National Institute of Technology, Surathkal, Karnataka, July 12-13, 2013.
27. Emerging Trends in Chemistry, December 13, 2013, SRC, Trichy.
28. Department of Chemistry, Anna University, December, 2013, Trichy.
29. Academy Staff College, Bharathidasan University, 4th Jan, 2014, Trichy.
30. Special Lecture on Bio-inorganic Chemistry, Thiagarajar College, Jan 2014, Madurai.
31. Academy Staff College, Bharathiar University, October 27, 2014, Coimbatore.
32. National Workshop on Advanced Characterisation techniques (Act-2015), Periyar University, January 29-30th, 2015.
33. Current Scenario In Material Chemistry (CSIMC-2015), Jamal Mohamed College, January 9-10th February, 2015.
34. One day UGC sponsored seminar, Periyar EVR Govt. Arts College, 19th Feb, 2015.
35. Faculty development programme, Anna University, BIT, Trichy, June - 2015.
36. 10th CRSI Symposium, National Institute of Technology, Trichy, July - 2015.
37. UGC sponsored National Seminar on Recent Advances in Chemistry, Kandaswami Kandar's College, Namakkal, Aug 13-14, 2015.
38. One day National seminar, ANJAC college, Sivakasi, March 11, 2016.
39. Academy Staff College, Bharathiar University, Coimbatore, July 2016.
40. Faculty development programme, BIT, Trichy, August 2016.
41. Chemistry association inauguration, National College, Trichy, September 2016.
42. Guest lecture in UGC-Sponsored National Seminar, V.H.N.S.N college, Virudhunagar January 19, 2017.
43. Invited lecture in National conference, GRI, Gandhigram March 2, 2017.
44. Special lecture on Mossbauer spectroscopy, Periyar University, Salem March 30, 2017.
45. Invited lecture, UGC Academic Staff College, Bharathidasan University, Jan 6th, 2018.
46. Invited lecture, UGC Academic Staff College, Bharathidasan University, March 21nd, 2018.
47. Invited lecture, Pondicherry University, March 29th, 2018.
48. Invited lecture, Chemistry Association, UDC college, Trichy, 20th July, 2018.
49. Invited lecture, UGC-HRDC, Bharathiar University, 23rd July 2018, Coimbatore.

50. Invited lecture, Two day National Seminar (ABCD), Saratha Niketan college for Women, devakottai, Sep-28th, 2018.
51. Invited lecture, International Conference on Sustainable Energy Technolgies (i-SET), BDU, June-2018.
52. Invited lecture, International conference on research initiatives in chemistry for sustainable development (RICS), March, 2019.
53. Invited lecture, International Conference ICACSEM, University of Madras, Jan-2020.
54. Invited lecture, UGC-HRDC, Madurai Kamaraj University, Dec 11th, 2020.
55. Invited lecture, UGC-HRDC, Bharathiar University, Dec 12th, 2020.
56. Academic Staff College, Bharathidasan University, Trichy Dec 2021.
57. Arignar Anna Govt. Arts College, Musiri, March 29th, 2022.
58. Pondicherry University, Pondicherry, June 4th, 2022.
59. Invited lecture, UGC-HRDC, Bharathiar University, Oct10th, 2022.
60. Invited lecture, IFET College of Engineering, Villupuram, June 13th, 2023.
61. Invited lecture, Cauvery college for women, Tiruchirappalli, Feb 28th, 2024.
62. Invited lecture, Arignar Anna Govt. Arts College, Musiri, April 2nd, 2024.
63. Invited lecture, SRC, Trichy, 19th July, 2024.

II. Invited lectures (International Conference)

1. Department of Chemistry, POSTECH, Sept-2004, S. Korea.
2. Department of Chemistry, Kookmin University, Apr-2010, S. Korea.
3. Department of Chemistry, Pusan National University, Sept-2010, S. Korea.
4. Department of Chemistry, Chonbuk National University, Sept-2010, S. Korea.
5. CNRS, University of Strasbourg, May 2014, France.
6. Department of Chemistry, University of Zurich, May 2014, Swiss.
7. Invited lecture, International Conference, Srimad Andavan Arts and Science College, 6th-Dec, 2023.
8. Invited lecture, International Conference(MTIC-XX), IISC, Bangaluru, Dec14-17, 2023.
9. Invited lecture, International Conference, PSG Krishnammal College, Coimbatore, Jan-29, 2024