

RESUME

Name : **Dr. P. SAMI**
Age & Date of Birth : **56 & 11.04.1966**
Nationality : **Indian**
Community : **Backward Class**
Educational Qualification : **M.Sc., M.Phil., Ph.D.,**
Designation : **Associate Professor of Chemistry**



Address for Communication

Official	Residential
Associate Professor of Chemistry, V.H.N.Senthikumara Nadar College (Autonomous), Virudhunagar-626 001. e-mail ID: samirishi2614@gmail.com sami@vhnsnc.edu.in	M6/14-15 B- S.V.P.N.S. Colony, Allampatty, Virudhunagar-626 001 Phone: 04562 281442 Mobile: 9443613294

I Academic Qualifications

B.Sc., : 1986 – Sri Paramakalyani College, Alwarkurichi.
M.Sc., : 1989 – V.H.N.Senthikumara Nadar College, Virudhunagar.
M.Phil., : 1990 - V.H.N.Senthikumara Nadar College, Virudhunagar.
Ph.D., : 2009 - V.H.N.Senthikumara Nadar College, Virudhunagar.
Thesis Title : **“Investigations on Polyoxometalates”**

II Teaching Experience: 27 years

1995 – 1998: Lecturer in Chemistry, Dr. Sivanthi Aditanar College of Engineering,
Tiruchendur.
1998 – 2012: Assistant Professor of Chemistry,
V.H.N.Senthikumara Nadar College, Virudhunagar.
2012 onwards: Associate Professor of Chemistry
V.H.N. Senthikumara Nadar College (Autonomous), Virudhunagar.

III Position held

1. Serving as **Dean-Student Services** since 2012.
2. Activity Coordinator for **“Youth Employability Training Program”** sponsored by Tata Consultancy Services under its CSR activities for our 2022 passed out students held in our campus from 1.08.2022 to 06.09.2022.

3. Coordinator for the ***NEET-JEE Main Coaching Classes*** for “Out-standing Higher Secondary School Students of Virudhunagar organized by KVS Managing Board’s SPGCN School of Excellence from 2021.
4. Coordinator for the ***NEET-JEE Main Coaching Classes*** for “Out-standing Higher Secondary School Students of Virudhunagar organized by VHNSN College Managing Board during 2017 to 2019.
5. Activity Coordinator for “***Training Programme on Entrepreneurship Development Skills***” sponsored by ***Rajiv Gandhi National Institution of Youth Development Ministry of Skill Development, Entrepreneurship, Youth Affairs & Sports, Government of India, Sriperumbudur*** held from ***07.01.2017 to 09.01.2017***.
6. Activity Coordinator for ***REDINGTON EMPLOYABILITY SKILLS DEVELOPMENT TRAINING PROGRAM*** sponsored by ***Foundation for CSR@ REDINGTON*** since 2016.
7. Activity Coordinator for “Training Programme on Employability Skills” sponsored by ***Rajiv Gandhi National Institute of Youth Development***, Youth-led Development Outreach Programme (YDP) in Higher Educational Institutions, Government of India, Sriperumbudur – 602 105, Tamil Nadu, held on 21st January to 23rd January 2015.
8. Coordinator for Entrepreneurship Development Cell of VHNSN College and organized Entrepreneurship Awareness Programme on “Business Orientation & Self-Employment for Students (BOSS-2015)” Sponsored by ***Entrepreneurship Development Institute (EDI)***, Govt. of Tamil Nadu, Chennai conducted in three phases on 16.02.2015 - 17.02.2015; 23.02.2015 - 24.02.2015 & 09.03.2015 – 10.03.2015.
9. Take care of the “***Differently Abled Students***” studying in our college and organized several programme for them since 2011.
10. Organized the ***TNSCST*** sponsored Young Student Scientists Programme (YSSP) as Co-coordinator during the summer vacation of 2012 & 2013.
11. ***Chief Warden***: V.H.N. Senthikumara Nadar College Boys Hostel (2011 – 2013).
12. ***Warden*** - V.H.N. Senthikumara Nadar College Boys Hostel (2010 – 2011).
13. Good orator in Tamil and deliver talks and special lectures in several forums in our college & nearby institutions.
14. Serving as ***master of ceremony*** of our college functions

IV Area of Research: POLYOXOMETALATE CHEMISTRY

1. List of Research Scholars working for their Ph.D

S.No	Name of the Candidate	Title of the work	Remarks
1.	Mrs. T. Shanmugaprabha	Investigations on Heteropolyoxometalates and their Derivatives	Awarded Ph.D Viva date: 03.08.2017
2.	Mr. K. Selvakumar	Characterization and Applications of Polyoxometalate Based Compounds	Awarded Ph.D Viva Date 22.06.2018
3.	Mr. M. Kumaresan	Applications of Polyoxometalates and their Derivatives	Awarded Ph.D Viva Date 11.11.2020
4.	Mrs. A. Prasanna,	Studies on polyoxometalates and related compounds	Submitted the thesis on 10.10.2022
5.	Mrs. Mariselvi	Synthesis and characterization of nano-composites	Full time (Co-Guide)

2. Details of Research Projects

S.No	Title of the project	Funding agency	Duration of the project	Amount
1.	Spectral and Electrochemical Characterization and Applications of Heteropoly acids and their Derivatives as Eco-Friendly Redox Catalysts	UGC, NewDelhi F. No-42- 349/2013 (SR) dated 31.03.2013	4 years (2013-2017) 01.06.2013- 23.03.2017	7,97,914/-
2.	Studies on Electron transfer reaction and Antimicrobial Activities of Mixed Addenda Heteropolyoxometalates	UGC, NewDelhi F.No. 34-361/2008	3 years (2009-2012) 01.06.2009 – 31.01.2012	8,05,289/-

No. of h-index: **11**;
Research Interest Score: **168.4**
Citations: **300**

Awards Received: **“SAHYOG BEST TEACHER AWARD 2017”** given by Redington @ CSR, Chennai

3. List of Research Articles Published in Journals (Updated on 26.10.2022)

1. Synthesis of benzoimidazoquinazolinone and indolylxanthenone derivatives using Keggin- type heteropoly-11-molybdo-1-vanadophosphoric acid supported on Montmorillonite K-10 clay as catalyst: A green approach, **Prasanna Antony Muthu**, Kumaresan Murugan, Karuppaiah Selvakumar, Swaminathan Meenakshisundaram & Sami Ponnusamy *Research on Chemical Intermediates*, <https://doi.org/10.1007/s11164-022-04859-7>
2. Rational design of single tungsten/cobalt atom oxide anchored on the TiO₂-rGO: A highly efficient electrocatalyst for water splitting and photocatalyst for decomposition of pharmaceutical pollutant, Karuppaiah Selvakumar, Tae Hwan Oh, Yueshuai Wang, Antony Muthu Prasanna, Muthuraj Arunpandian, Thangarasu Sadhasivam, Ponnusamy Sami and Meenakshisundaram Swaminathan, *Separation and Purification Technology* **303** (2022) 122298. (<https://doi.org/10.1016/j.seppur.2022.122298>)
3. Green synthesis, characterization and applications of TiO₂ nanoparticles using aqueous extract of Erythrina variegata leaves, Jayaram Mari Selvi, Mariappan Murugalakshmi, Ponnusamy Sami, Mariappan Gnanaprakash and R. Thanalakshmi, *Current Science*, **123**, (2022), 59 – 66; doi: 10.18520/cs/v123/i1/59-6.
4. Synthesis and Characterization of Nano-TiO₂ using Aqueous Extract of Erythrina variegata Leaves, Jayaram Mari Selvi, Mariappan Murugalakshmi, and Ponnusamy Sami, *Asian Journal of Chemistry*, **33**, (2021), 3139-3144; <https://doi.org/10.14233/ajchem.2021.23535>.
5. Keggin-type heteropoly-11-molybdo-1-vanadophosphoric acid supported montmorillonite K-10 clay-catalysed one-pot multi-component synthesis of chromeno[2,3-b] indoles, **Prasanna Antony Muthu**, Kumaresan Murugan, Swaminathan Meenakshisundaram & Sami Ponnusamy, *Research on Chemical Intermediates* (2021) **47**:3583–3595 <https://doi.org/10.1007/s11164-021-04483-x>. (Springer Nature)
6. Keggin-Type Heteropoly-11-molybdo-1- vanadophosphoric Acid Supported on Montmorillonite K-10 Clay as a Catalyst for the Synthesis of Indeno[1,2-b]quinolinones: A Solvent Free Approach, **Kumaresan Murugan** & Sami Ponnusamy, *Organic Preparations and Procedures International*, (2021) **53**:585-589; <https://doi.org/10.1080/00304948.2021.1978777>. (*Taylor & Francis: Impact Factor 1.134*)
7. A green solid acid catalyst 12-tungstophosphoric acid H₃[PW₁₂O₄₀] supported on g-C₃N₄ for synthesis of quinoxalines, **M. Kumaresan**, V.Saravanan, P. Sami & M. Swaminathan, *Research on Chemical Intermediates* (2020) **46**:4193–4209. DOI:10.1007/s11164-020-04200-0. (Springer Nature)
8. Eco-friendly heteropoly acid supported on natural clay for the synthesis of calix[4]resorcinarene derivatives, **Karuppaiah Selvakumar**, Murugan Kumaresan, Ponnusamy Sami & Meenakshisundaram Swaminathan, *Indian Journal of Chemical Technology* Vol. 27, March 2020, pp. 185-191

9. Catalytic Efficiency of Heteropoly 11-Tungsto-1-Vanadophosphoric Acid -Activated Clay in the Condensation Reaction of Thiourea with 4-Chlorobenzaldehyde, **K. Selvakumar**, A. Raja, M. Arunpandian, P. Sami, M. Swaminathan, *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249 – 8958, Volume-9, Issue-1S4, December 2019; DOI: 10.35940/ijeat.A1155.1291S419.
10. Green synthesis of naphtho[2,3-f]quinolin-13-one and naphtho[2,3-a]acridin- 1(2H)-one derivatives catalyzed by heteropoly acid supported montmorillonite K-10 clay, **M. Kumaresan**, V. Karthika, K. Selvakumar and P. Sami, *Synthetic Communications*, 2019, 49 (21) 2856-2868. DOI: 10.1080/00397911.2019.1646287.(*Taylor & Francis: Impact Factor 1.134*)
11. Efficient photo catalyst degradation of ciprofloxacin and bisphenol A under visible light using Gd₂WO₆ loaded ZnO/bentonite nanocomposite, **K. Selvakumar**, A. Raja, M. Arunpandian, K. Stalindurai, P. Rajasekaran, P. Sami, E. R. Nagarajan and M. Swaminathan, *Applied Surface Science* 481, 2019, 1109-1119. <https://doi.org/10.1016/j.apsusc.2019.03.178>. (*Impact Factor 4.439*).
12. Biogenic fabrication of gold nanoparticles using *Camellia japonica* L. leaf extract and its biological evaluation T. Sanjay Kanna Sharma, **K. Selvakumar**, K. Yuan Hwaa, P. Sami and M. Kumaresan, *Journal of Materials Research and Technology*, 8, 1412-1418, (2018) <https://doi.org/10.1016/j.jmrt.2018.10.006>. (Brazilian Metallurgical, Materials and Mining Association ABM: *Impact Factor 3.398*)
13. Heteropoly acid supported on activated natural clay-catalyzed synthesis of 3,4-dihydropyrimidinones/thiones through Biginelli reaction under solvent-free conditions, **K. Selvakumar**, T. Shanmugaprabha, M. Kumaresan, and P. Sami, *Synth. Commun.*, **48** (2), 223–232 (2018). (*Taylor & Francis: Impact Factor 1.134*)
14. Synthesis of pyrimido [4,5-b] indoles using heteropoly-11-molybdo-1-vanadophosphoric acid supported on montmorillonite K10 clay as catalyst: A Green Approach, **M. Kumaresan**, K. Selvakumar and P. Sami, *Materials Today: Proceedings* **4**, 12437–12447 (2017).(*Elsevier*)
15. Kinetics of the outer-sphere oxidation of thiourea by heteropoly α_2 - 17-tungsto-1-vanadodiphosphate anion, **T. Shanmugaprabha**, K. Selvakumar, M. Vairalakshmi, K. Rajasekaran and P. Sami, *Transition Met. Chem.*, **42**, 95-103(2017). (*Springer: Impact Factor 1.358*)
16. One-pot multi-component synthesis of N,N'- alkyldiene bisamides and imidazoles using heteropoly-11-tungsto-1-vanadophosphoric acid supported on natural clay as catalyst: A green approach, **K. Selvakumar**, T. Shanmugaprabha, M. Kumaresan and P. Sami, *Synth. Commun.*, **47** (22), 2115-2126 (2017). (*Taylor & Francis: Impact Factor 1.134*)
17. One-pot three-component synthesis of bis(indolyl)methanes under solvent-free condition using heteropoly-11-tungsto-1-vanadophosphoric acid supported on natural clay as catalyst, **K. Selvakumar**, T. Shanmugaprabha, R. Annapoorani and P. Sami, *Synth. Commun.*, **47** (9), 913-927 (2017). (*Taylor & Francis: Impact Factor 1.134*)

18. Electrochemically modified crystal orientation, surface morphology and optical properties using CTAB on Cu₂O thin films, **K.P. Ganesan**, N. Anandhan, V. Dharuman, P. Sami, R. Pannerselvam and T. Marimuthu, *Results in Physics*, **7**, 82 - 86 (2017)doi.org/10.1016/j.rinp.2016.11.064(*Elsevier: Impact Factor 1.259*)
19. A kinetic study of the oxidations of 2-mercaptoethanol and 2- mercaptoethylamine by heteropoly 11-tungsto-1- vanadophosphate in aqueous acidic medium T. Shanmugaprabha, **K. Selvakumar**, K. Rajasekaran and P. Sami, *Transition Met Chem*, **41** 77-85 (2016). (*Springer: Impact Factor 1.358*)
20. Proton-coupled electron transfer reactions: kinetic studies on the oxidation of dihydroxybenzenes by heteropoly 10-tungstodivanadophosphate in aqueous acidic medium , **T. Shanmugaprabha**, K. Selvakumar, M. Vairalakshmi, K. Rajasekaran and P. Sami, *Transition Met Chem*, **40** 197–205 (2015). (*Springer: Impact Factor 1.358*)
21. Studies on electron transfer reactions: oxidation of phenol and ring-substituted phenols by heteropoly 11-tungstophosphovanadate(V) in aqueous acidic medium; **M. Vairalakshmi**, V. Raj, P. Sami, and K. Rajasekaran, *Transition Met. Chem.*,**36** (2011) 875 - 882.
22. Vanadium(V)-substituted Keggin-type heteropolyoxotungstophosphates as electron transfer and antimicrobial agents: oxidation of glutathione and sensitization of MRSA towards β-lactam antibiotics; **P. Sami**, T. Durai Anand, M. Premanathan and K. Rajasekaran, *Transition Met. Chem.*,**35** (2010) 1019 - 1025.
23. Studies on electron transfer reactions: reduction of heteropoly 10-tungstodivanado phosphate by thioglycolic acid in aqueous medium; **P. Sami**, N. Mariselvi, K. Venkateshwari, A. Sarathi and K. Rajasekaran, *J. Chem. Sci.*, **122** (2010) 335-340.
24. Activation-controlled outer-sphere electron transfer reactions: reduction of heteropoly 11-tungstovanadophosphate and heteropoly 10-tungstodivanadophosphate by thiourea in aqueous acid medium; **P. Sami**, N. Mariselvi, K. Venkateshwari, M. Vairalakshmi, A. Sarathi and K. Rajasekaran, *Transition Met. Chem.*,**35** (2010) 563 - 570.
25. Studies on electron transfer reactions: reduction of heteropoly 10-tungstodivanado phosphate by L-cysteine in aqueous acid medium; **P. Sami**, K. Venkateshwari, N. Mariselvi, A. Sarathi and K. Rajasekaran, *Transition Met. Chem.*,**35** (2010) 137-142.
26. Studies on electron transfer reactions: reduction of heteropoly 11-tungstophosphovanadate(V) by L-cysteine and thioglycolic acid in aqueous acid medium; **P. Sami**, K. Venkateshwari, N. Mariselvi, A. Sarathi and K. Rajasekaran, *Transition Met. Chem.*,**34** (2009) 733 - 737.
27. Studies on electron transfer reactions of Keggin-type mixed addenda heteropolytungstovanadophosphates with NADH; **P. Sami** and K. Rajasekaran, *J. Chem. Sci.*, **121** (2009) 155 - 161.

28. Synthesis and characterization of $Cd_{1-x}Zn_xS$ material by chemical route, P. Sriramachandran, **D. Padma**, S. Kadagalakshmi, R. Suriyakala, P. Sami and R. Shanmugavel, *Asian J. Spect.*, **13** (2009) 31-34.
29. Copper (II) complex of 3-cinnamalideneacetylacetone: Synthesis and characterization; **A. Veeraraj**, P. Sami and N. Raman, *Proc. Indian Acad. Sci. (Chem. Sci.)*, **112** (2000) 515 - 521.
30. EPR study of Mn(II)-doped $CoH_6CeMo_{12}O_{42} \cdot 12H_2O$: Host site symmetry and spin-lattice relaxation time; **T. Jeyabalan**, P. Sami, A. Shunmugasundaram and R. Murugesan, *Spectrochim. Acta (A)* **55** (1999) 2187 - 2193.
31. Guest - host interactions in Hofmann - T_d - type aniline clathrates: IR spectral study; R. Murugesan, **A. Thamarachelvan** and P. Sami, *J. Inclusion Phenomena and Macrocyclic Chemistry*, **34** (1999) 235 - 243.
32. Synthesis, spectroscopic characterization and redox properties of titanium and vanadium substituted Keggin-type heteropolyanions; R. Murugesan, **P. Sami**, T. Jeyabalan and A. Shunmugasundaram, *Transition Met. Chem.*, **23** (1998) 583 - 588.
33. 12-B heteropolyanions as ligands: Synthesis, spectral characterisation and solution studies of $[Mn^{IV}ThMo_{12}O_{42}]^{4-}$, $[Mn^{IV}UMo_{12}O_{42}]^{4-}$ and $[V^{IV}CeMo_{12}O_{42}]^{4-}$; R. Murugesan, T. Jeyabalan **P. Sami** and A. Shunmugasundaram, *Proc. Indian Acad. Sci. (Chem. Sci.)*, **110** (1998) 7 - 19.
34. Spectral and voltammetric studies on titanium substituted Keggin-type heteropolyanions; R. Murugesan, **P. Sami**, T. Jeyabalan and A. Shunmugasundaram, *Proc. Indian Acad. Sci. (Chem. Sci.)*, **10** (1995) 1 - 10.

4. List of Research Papers Published in ISBN Edited Book

1. **Stress Management**, S. Jeyasiba Ponmani and P. Sami and, *Life Skills Education.:* An edited book, Edited by P. Sundara Pandian *et-al*, *VHNSN College Virudhunagar*; ISBN 978-81-942052-3-4 (2020); pp 143-157.
2. An environmentally benign one-pot three component synthesis of N,N'-alkylidene bisamide derivatives catalysed by heteropoly acid supported on natural clay, K. Selvakumar, T. Shanmugaprabha, A. Prasanna and **P. Sami**, *A Treatise on Emerging Trends in Bio-inorganic Chemistry*, (Edited Book; ISBN 978-93-81723-31-9) (2015) 52 - 59.
3. Synthesis of bis(indolyl)methanes using heteropoly acid supported on natural clay; K. Selvakumar, T. Shanmugaprabha, R. Boominathan and **P. Sami**, *International Conference on Recent Advances in Materials and Chemical Sciences (ICRMCS – 2015)* 10. (ISBN978-93-85477-46-1).
4. Electron transfer reaction of biologically important thiol group by vanadium(V) substituted heteropolyoxometalate; T. Shanmugaprabha, K. Selvakumar, K. Rajasekaran and **P. Sami**, *International Conference on "Recent Advances in Materials and Chemical Sciences"* (ICRMCS – 2015) 112. (ISBN978-93-85477-46-1).

5. Thirucheeralaivai Skanthaputkarani Neerin Menmai; **P. Sami**, An article in Tamil in “Sevviyal Ilakkiyathil Neer Vazhankal” Edited by R. Jeeva, VHNSN College (Autonomous), (June 2015) 52-55; ISBN No: 978-93-81723-39-5.
6. Studies on electron transfer reactions: oxidation of antioxidant catechol by heteropoly-10-tungstodivanadophosphate in aqueous acidic medium; T. Shanmugaprabha, K. Selvakumar, K. Rajasekaran and **P.Sami**, A Treatise on Modern Trends in Chemical Sciences, (Edited Book; ISBN 978-93-81723-25-8) (2014) 55-57.
7. Heteropoly 11-tungsto-1-Vanadophosphoric acid supported on activated natural clay: preparation, characterization and investigation of its catalytic performance in the condensation reaction of thiourea with 4-chlorobenzaldehyde; K. Selvakumar, R. Rajeswaran, T. Shanmugaprabha and **P.Sami**, A Treatise on Modern Trends in Chemical Sciences, (Edited Book; ISBN 978-93-81723-25-8) (2014) 81-83.

5. List of Research Papers Presented in Conferences

1. Assembly of copper-quinoxaline-polyoxometalate hybrid metal organic framework and its application towards the photodegradation studies, **A. Prasanna**, V. Karthika, M. Kumaresan and Sami Ponnusamy, National Conference on “Emerging Trends in Multidisciplinary Research” Organized by the Department of Chemistry and Research, Annai Velankanni College, Tholayavattam, Kaniyakumari, 8th October 2021, Proceedings of ETMR – 2021, Page:44-47.
2. Synthesis of benzo[4,5]imidazo[2,1-b]quinazolin-1(2H)-one derivatives using Keggin-type heteropoly-11-molybdo-1-vanadophosphoric acid supported on montmorillonite K-10 clay as catalyst: A green approach, **A. Prasanna**, M. Kumaresan and Sami Ponnusamy, Indo-Malaysian Two-day International e-Conference “Recent trends in Natural Products Research and their applications” (RTNPRA-21). Organized by School of Chemistry, Madurai Kamara University, Madurai & BioSES Research Interest Group, Faculty of Science and Marine Environment, Universiti Malasia, Terengganu, 16 & 17th September 2021, P.P-08.
3. Green synthesis of indolylxanthenones using Keggin-type heteropoly-11-molybdo-1-vanadophosphoric acid, $H_4[PVMo_{11}O_{40}]$ supported on montmorillonite K-10 clay as catalyst, **A. Prasanna**, **M. Kumaresan** and P. Sami, *International seminar on Recent Trends in Interdisciplinary Science (RTIS-2019)*, organized by Standard Fireworks Rajaratnam College for Women, Sivakasi, 20th September, 2019 (PP11).
4. Erythrina variegata mediated TiO_2 nanoparticles against photocatalytic application under UV-light source at 365 nm, **J. Mari Selvi**, **M. Murugalakshmi** and P. Sami, *International seminar on Recent Trends in Interdisciplinary Science (RTIS-2019)*, organized by Standard Fireworks Rajaratnam College for Women, Sivakasi, 20th September, 2019 (PP73).
5. Synthesis of chromeno[2,3-b]indole derivatives using heteropoly-11-molybdo-1-vanadophosphoric acid supported on montmorillonite K-10 clay as catalyst: a green approach, **M. Kumaresan**, V. Karthika and P. Sami, *International Conference on Advanced Functional Materials for Energy, Environment and Health Care*

(AFMEEHC-2019), organized by University of Mysore, Mysore, 18-20 March 2019 (Poster344).

6. Synthesis, characterization and photocatalytic degradation ability of new organic-inorganic hybrid polyoxometalate compound $[\text{Co}(\text{diphqx})_6(\text{PW}_{12}\text{O}_{40})]$ **M. Kumaresan**, V. Karthika, K. Selvakumar and P. Sami, *SERB Sponsored National Seminar on Emerging Trends In Bioinorganic And Pharmaceutical Chemistry (ETBPC-2019)*, VHNSN College (Autonomous), Virudhunagar, 27th-28th, February (2019), Page No38.
7. Synthesis, characterization and photocatalytic efficiency of nickel oxide nanoparticles using chemical reduction method, **J. Mari Selvi**, **M. Murugalakshmi** and P. Sami, International Seminar on “Interdisciplinary Science Studies”, SFR College for Women, Sivakasi, 3rd September (2018); PP27(Won the Best Poster Award)
8. Green synthesis of copper oxide nanoparticles and its applications in photocatalytic dye degradation and antimicrobial activity, **J. Mari Selvi**, M. Murugalakshmi and P. Sami, International Conference on Modern Trends in Chemistry (MTC-25), Vivekananda College, Thiruvadakam West, Madurai, 23rd February (2018); P46; ISBN 978-81-933998-6-6.
9. Synthesis of Nickel Oxide Nanoparticles Using Chemical Reduction Technique and its Applications in Photocatalytic Dye Degradation and Antimicrobial Activity, **J. Mari Selvi**, M. Murugalakshmi and P. Sami, 2nd International Conference on Materials and Technology – Synthesis, Processing and Applications (ICMAT – SPA) 2018 Organized by Department of Physics, Sri S. Ramasamy Naidu Memorial College, Sattur, 20.02.2018 & 21.02.2018, OP.
10. Assembly of cobalt-quinoxaline-polyoxometalate hybrid metal organic frame work and its applications towards the biological studies, **M. Kumaresan**, K. Selvakumar and P. Sami, International Conference on Antimicrobial Resistance, SASTRA Deemed University, Thanjavur, 19th & 20th January (2018); ICAR-2018- DS181.
11. Heteropoly Acid Supported on Natural Clay for the Synthesis of Calix[4]resorcinarene Derivatives: A green approach, K. Selvakumar, **M. Kumaresan**, and P. Sami, CSIR & DAE Sponsored 4th National Seminar on “Technologically important Crystalline and Amorphous Solids (TICAS-2018)”, Kalasalingam Academy of Research and Education (Deemed to be University), Krishnankoil, 2nd & 3rd March (2018), Page No251.
12. Synthesis indeno-[1,2-b]-quinoline-7-one derivatives using heteropoly acid supported on Montmorillonite K-10 clay: A green approach, **M. Kumaresan**, K. Selvakumar and P. Sami, CSIR & DAE Sponsored 4th National Seminar on “Technologically important Crystalline and Amorphous Solids (TICAS-2018)”, Kalasalingam Academy of Research and Education (Deemed to be University), Krishnankoil, 2nd & 3rd March (2018), Page No254.
13. Synthesis and Characterization of Copper oxide Nanoparticles and its Antimicrobial efficiency, **J. Mari Selvi**, M. Murugalakshmi and P. Sami, UGC Sponsored National Seminar on Recent Advances in Plant Biology Organized by Department of Botany,

The Standard Fireworks Rajaratnam College for Women (Autonomous), Sivakasi-626 123. 13.7.2017 & 14.7.2017 Presented a Poster and **won the 1st Prize.**

14. Synthesis and Characterization of Copper oxide Nanoparticles Using *Erythrina Variiegata* Leaves Extract, **J. Mari Selvi**, M. Murugalakshmi and P. Sami, UGC Sponsored National Conference on Advanced Materials and Its Applications – NCAMA 2017 Organized by Department of Physics, The Standard Fireworks Rajaratnam College for Women (Autonomous), Sivakasi-626 123, 6th & 7th July, 2017 Presented a Poster and **won the Best Poster Award.**
15. Enhancement of antibacterial activity of cephalothine in combination with vanadium (V) substituted Keggin-type heteropolyoxotungstates against MRSA strains, **T. Shanmugaprabha**, K. Selvakumar, T. Durai Anand, K. Rajasekaran and P. Sami, *UGC sponsored National Seminar on Recent Advances in Chemical Research (RACR-2017)*, VHNSN College (Autonomous), Virudhunagar, 24-25, January 2017 (OP-20).
16. Green synthesis of quinoxaline derivatives using heteropoly-11-molybdo-1-vanadophosphoric acid supported on montmorillonite K10 clay as catalyst and the evolution of their pharmaceutical efficiency, **M. Kumaresan**, K. Selvakumar and P. Sami, *UGC sponsored National Seminar on Recent Advances in Chemical Research (RACR-2017)*, VHNSN College (Autonomous), Virudhunagar, 24-25, January 2017 (PP-23).
17. Effect of CTAB Surfactant on Crystal Orientation and Optical Properties of Electrochemically Synthesized Cu₂O Thin Films, **K.P. Ganesan**, N. Anandhan, R. Panneerselvam, T. Marimuthu, P. Sami, *International Conference on Functional Materials (ICFM-2016)*, organized by Centre for Scientific and Applied Research, PSN College of Engineering and Technology, Tirunelveli, 7-10, September 2016 (P-74).
18. Phenolic acid derivatives of plant extracts used in home remedies as anti-obesity drugs, **R. Annapoorani**, M. Ramamoorthy and P. Sami, *9th NABS National Conference on "New Biological Researches: Opportunities and Challenges for Sustainable Development"* organized by School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai & National Academy of Biological Sciences (NABS), Chennai, 11-12, August 2016 (BP21).
19. Synthesis of Quinoxaline Derivatives using Heteropoly Acid Supported on Montmorillonite K10 Clay: A Green Approach, **M. Kumaresan**, K. Selvakumar and P. Sami, *International Conference Science and Technology: Future Challenges and Solutions (STFCS-2016)*, organized by University of Mysore, Mysore, 8, 9 August 2016 (Poster C23).
20. Synthesis of pyrimido[4,5-b]indoles using heteropoly-11-molybdo-1-vanadophosphoric acid supported on montmorillonite K10 clay as catalyst: A Green Approach, **M. Kumaresan**, K. Selvakumar and P. Sami, *International Conference on Materials for Sustainable Future (ICMSF 2016)*, organized by Department of Chemistry, School of Chemical and Biotechnology, Sastra University, Thanjavur, 14, 15 July 2016 (PP-42).

21. Synthesis of bis(indolyl)methanes using heteropoly acid supported on natural clay under solvent free condition, **R. Annapoorani**, J. Kanagalakshmi, K. Selvakumar, T. Shanmugaprabha and P. Sami, National Level Seminar on “Modern Trends in Chemistry” (MTC – 2016) OP-9.
22. Heteropoly acid supported on natural clay as an efficient catalyst for one-pot synthesis of substituted imidazole derivatives through four component condensation of benzyl, aldehyde, ammonium acetate and aniline; **D. Cathrin Kiruba**, S. Kasthuri, E. Selvakumar, K. Selvakumar and P. Sami, Modern Trends in Chemistry (MTC – 2016) PP-12.
23. Synthesis of bis(indolyl)methanes using heteropoly acid supported on natural clay; **K. Selvakumar**, T. Shanmugaprabha, R. Boominathan and P.Sami, “International Conference on Recent Advances in Materials and Chemical Sciences” December 14-15 (2015), Organised by Department of Chemistry, The Gandhigram Rural Institute – Deemed University, Gandhigram, (ICRAMCS-2015), 10.
24. Electron transfer reaction of biologically important thiol group by vanadium(V) substituted heteropolyoxometalate; **T. Shanmugaprabha**, K. Selvakumar, K. Rajasekaran and P.Sami, International Conference on “Recent Advances in Materials and Chemical Sciences” December 14-15 (2015), Organised by Department of Chemistry, The Gandhigram Rural Institute – Deemed University, Gandhigram, (ICRAMCS – 2015) 112.
25. Activation controlled outer sphere electron transfer reaction: Oxidation of thiourea by heteropoly- α_2 -[P₂V^VW₁₇O₆₂]⁷⁻ in aqueous medium; **T. Shanmugaprabha**, K. Selvakumar, K. Rajasekaran and P.Sami, National Seminar on “Recent Trends in Organic Synthesis and Chemical Biology” (RTSB-2015), October 9 - 10, 2015, organized by Department of Chemistry, Annamalai University, Annamalainagar, PP-31.
26. Heteropoly acid supported on natural clay as catalyst for the one-pot multicomponent synthesis of substituted imidazole derivatives under solvent-free conditions; **K. Selvakumar**, T. Shanmugaprabha, R. Boominathan and P.Sami, National Seminar on “Recent Trends in Organic Synthesis and Chemical Biology” (RTSB-2015), October 9 - 10, 2015, organized by Department of Chemistry, Annamalai University, Annamalainagar, OP-37.
27. Synergistic effect of heteropoly 9-tungsto-3-vanadophosphate in combination with β -lactam antibiotics against MRSA; **T. Shanmugaprabha**, K. Selvakumar, R. Poornima, R. Iswarya and P. Sami, Frontier Areas in Chemistry (FAC 2015), organized by Department of Chemistry, Thiagarajar College, Madurai, February 26th & 27th (2015) OP-10; Page 46.
28. Electron transfer reactions: kinetic studies on the oxidation of thiourea by heteropoly 11-molybdo-1-vanadophosphate in aqueous acidic medium, **T. Shanmugaprabha**, K. Selvakumar, R. Poornima, R. Iswarya and P. Sami, Frontier Areas in Chemistry, (FAC 2015), organized by Department of Chemistry, Thiagarajar College, Madurai, February 26th & 27th (2015) PP-23; Page 46.

29. An environmentally benign one-pot three component synthesis of N,N'-alkylidene bisamide derivatives catalysed by heteropoly acid supported on natural clay, **K. Selvakumar**, T. Shanmugaprabha, A. Prasanna and P. Sami, "Emerging Trends in Bio-inorganic Chemistry" (ETBIC-2015) organized by Department of Chemistry, V.H.N.S.N. College, Virudhunagar, January 23rd and 24th (2015) (OP-5).
30. Studies on electron transfer reactions: oxidation of antioxidant catechol by heteropoly 10-tungstodivanadophosphate in aqueous acidic medium; **T. Shanmugaprabha**, K. Selvakumar, K. Rajasekaran and P.Sami, UGC sponsored National Conference on Modern Trends in Chemical Sciences, (MTCS-2014) organized by Department of Chemistry, V.H.N.S.N. College, Virudhunagar, July 18th and 19th, 2014 (OP -09)
31. Heteropoly 11-tungsto-1-Vanadophosphoric acid supported on activated natural clay: preparation, characterization and investigation of its catalytic performance in the condensation reaction of thiourea with 4-chlorobenzaldehyde; **K. Selvakumar**, R. Rajeswaran, T. Shanmugaprabha and P.Sami, UGC sponsored National Conference on Modern Trends in Chemical Sciences, (MTCS-2014) organized by Department of Chemistry, V.H.N.S.N. College, Virudhunagar, July 18th and 19th, 2014 (PP-03)
32. "Know about your battery- a review", **P. Sami**, "MNRE., Govt of India Sponsored National Seminar on "Innovative Strategy for Technological developments and Designing New Business Model in Renewable Energy Sector", organized by Department of Physics & IQAC, V.H.N.S.N. College, Virudhunagar, March 3 & 4, 2011 (Page-52).
33. "Exchange coupled system: EPR of paramagnetic cluster of Cu(II) encapsulated in diamagnetic Dawson-Wells type heteropolyanions", K. Rajasekaran and **P. Sami**, "DST Sponsored National Seminar on "Recent Trends in Bio-Inorganic Chemistry" (RTBIC-2011), organized by Department of Chemistry, V.H.N.S.N. College, Virudhunagar, February 17 & 18, 2011 (OP-24).
34. "Activation controlled outer-sphere electron-transfer reaction: Reduction of heteropoly 11-tungstovanadophosphate by thiocyanate ion in weakly aqueous acidic medium", **P. Sami**, A. Sarathi, S. Dhanalakshmi, P. Shanthi and K. Rajasekaran, "UGC, CSIR & DST Sponsored National Seminar on "Emerging Trends in Chemistry" (ETC-03, 2010), organized by Department of Chemistry, C.P.A. College, Bodinayakanur, September 23 & 24, 2010 (OP-17).
35. "EPR of heteropoly 17-tungstodiphosphatoferrate(III) anion", **P. Sami** and K.Rajasekaran, UGC-SAP, DST and CSIR Sponsored "National Seminar on New Frontiers in Chemistry", (NSNFC-2010) organized by Department of Chemistry, Annamalai University, Annamalainagar, March 15 & 16, 2010 (PP-21).
36. "Studies on electron transfer reactions: Reduction of Keggin-type mixed-addenda heteropoly 10-tungstodivanadophosphate by L-cysteine" **P. Sami** and K.Rajasekaran, UGC., Sponsored Two Day National Conference on "The Emerging Areas in Chemistry" (NACEAC-2009), Organized by Department of Studies in Chemistry, University of Mysore, Manasagangothri, Mysore, July 31 & August 1, 2009 (PP-58)

37. “Studies on reduction of heteropoly 11-tungstophosphovanadate(V) by L-cysteine in aqueous medium”, K. Rajasekaran, **P. Sami**, A. Sarathi and K. Venkateshwari, UGC sponsored Two Day National Conference on “The Emerging Areas in Chemistry” NACEAC-2009, organized by Department of Studies in Chemistry, University of Mysore, Manasagangothri, Mysore, July 31 and August 1, 2009 (PP-59)
38. “Oxidation of NADH by Keggin-type mixed addenda hetero-polytungstovanadophosphates”, **P. Sami** and K. Rajasekaran, Three Day International Conference on Frontiers in Chemical Research (ICFCR – 2008), organized by the Department of Chemistry, Mangalore University, Mangalagangothri, December 29– 31, 2008 (PP8).
39. “Reduction of vanadium substituted Keggin-type heteropolytungstophosphates by Glutathione”, **P. Sami** and K. Rajasekaran, UGC sponsored National Level Conference on “Recent Advances In The Study of Transition Metal Complexes” (RAITS-TMC-08), organized by the Department of Chemistry, VHNSN College, Virudhunagar, August 13 & 14, 2008 (17@ RAITS-TMC-08).
40. “Antibacterial activity of heteropolyanions singly and in synergistic combination with some β -lactam antibiotics against MRSA and MSSA strains”, **T. Durai Anand**, M. Premanathan, P. Sami, S. Anandhajothi and K. Rajasekaran, 48th Annual Conference of Association of Microbiologists of India – “Microbes: Biofactories of the future” organized by Department of Biotechnology, Indian Institute of Technology Madras, Chennai, December 18-21, 2007 (ME-30).
41. “Effect of pH on the size of CdS nanoparticles”, N. Prithivikumaran, **P. Umadevi** and P. Sami, UGC., Sponsored “National Seminar on Emerging Trends in Physics” organized by Department of Physics, Jeyaraj Annapackiam college for women (Autonomous) Periyakulam, August 30 & 31, 2007 (OP 22).
42. “Optical and EPR investigations on transition metal substituted Dawson-type heteropolyanions”, **P. Sami** and K. Rajasekaran, UGC & CSIR Sponsored National Seminar on “Recent Trends in Heteroatom Chemistry”, organized by Department of Chemistry, Annamalai University, Annamalainagar, March 28 & 29, 2007 (PP 37).
43. “Antibacterial activity of heteropolyoxometalates: Singly and in synergistic combination with some β -lactam antibiotics, against methicillin-resistant *Staphylococcus aureus* (MRSA)” **T. Durai Anand**, M. Premanathan, D. Kodimunthiri, P. Sami and K. Rajasekaran, UGC., Sponsored National Level Conference on “Recent Trends in Chemistry of Biologically Interesting Compounds”, organized by Department of Chemistry, V.H.N.S.N. College, Virudhunagar, July 22 & 23, 2005 (Retchembic-07).
44. “Keggin-type molybdenum and vanadium containing heteropolyoxometalates as antimicrobial agents: Singly and in synergistic combination with some β -lactam antibiotics” **D. Kodimunthiri**, P. Sami, K. Rajasekaran and T. Durai Anand, UGC., Sponsored National Level Conference on “Recent Trends in Chemistry of Biologically Interesting Compounds”, organized by Department of Chemistry, V.H.N.S.N. College, Virudhunagar, July 22 & 23, 2005 (Retchembic-28).
45. “Physico-chemical and bacteriological examination of borewells water of Virudhunagar(Tamil Nadu)”, A. Shunmugasundaram, **P. Sami**, A. Sarathi and

- P.Ponnuthurai, UGC Sponsored National Seminar on "Chemistry of Environmental Pollution and its Impact on Health" (Green - 2K), organized by Department of Chemistry, Seethalakshmi Ramaswami College, Tiruchirapalli, July 26 & 27, 2000 (OP 8).
46. "Synthesis, structural, antibacterial ESR studies of Cu(II) complexes derived from 3-cinnamalideneacetylacetone", N. Raman, **A. Veeraraj** and P. Sami, Proceedings of the International Conference on Chemistry & 36th Annual Convention of Chemists, Calcutta, December 1999.
 47. "Polyoxometalates as building blocks for novel magnetic materials: Synthesis, structure and magnetic properties of $\text{Na}_{16}[\text{M}_x\text{N}_{4x}(\text{H}_2\text{O})_2(\text{P}_2\text{W}_{15}\text{O}_{56})_2] \cdot 53 \text{H}_2\text{O}$ (M = Cu, N = Zn, x = 2,3 & 4)", R. Murugesan, T. Jeyabalan, **P. Sami** and A.Shunmugasundaram, Newer Vistas in Synthetic Protocols and Structural Elucidation in Chemistry, Madurai, April 1998, Abstracts, O-45.
 48. "Conductivity studies on single crystals of $\text{H}_4[\text{SiW}_{12}\text{O}_{40}]$ from 77 to 303 K", D.P. Padiyan, **S.J. Ethilton** and P. Sami, Proceedings of the National Seminar on Materials Science an Indian Scene, Organized by Department of Physics, Bharathidasan University, Trichy, January 19 & 20, 1998, Abs.,P-45.
 49. "Kinetics of oxidation of meta- and para-substituted phenols by heteropolytungstovanado(V) phosphate, $\text{K}_4[\text{PVW}_{11}\text{O}_{40}] \cdot 2\text{H}_2\text{O}$ ", **V. Raj**, P. Sami, K. Rajasekaran and A. Shunmugasundaram, Fourteenth Annual Conference of Indian Council of Chemists, Bombay, December 1995.
 50. "Synthesis and study of electron transfer in manganese(IV) 12-heteropolymolybdothorate(IV)", R. Murugesan, A. Shunmugasundaram T. Jeyabalan and **P. Sami**, UGC - DRS National Seminar on New Trends in Dynamic and Structural Studies in Inorganic and Physical Chemistry, Madurai Kamaraj University, Madurai, March 1-3, 1995, Abstracts, P-53.
 51. " ^1H NMR relaxation studies of organs under the condition of cardiac hypertrophy", S. Sakthivel, **P. Sami**, R.Murugesan and C.Rajamanickam, 62nd Annual Meeting of Society of Biological Chemists(INDIA), School of Biological Sciences, Madurai Kamaraj University, Madurai, December, 19 – 22, 1993, Abs.,BSFDO22.
 52. "Models for mixed valence heteropoly blues: Synthesis, spectral and Voltammetric studies on titanium and vanadium substituted Keggin-type heteropoly tungstaophosphates", R. Murugesan, **P. Sami**, T. Jeyabalan and A. Shunmugasundaram, National Level Symposium on Modern Trends in Inorganic Chemistry, Indian Institute of Science, Bangalore, August 1993, Abstracts, P-3.
 - 53.. "Synthesis and characterisation of titanium substituted heteropolytungstoborate ($\text{BTiW}_{11}\text{O}_{40}$)⁷⁻", R. Murugesan, **P. Sami**, T. Jeyabalan and A.Shunmugasundaram, Eleventh Annual Conference of Indian Council of Chemists, Muzaffarpur, March 1993, Abstracts, IO-53.
 54. "Heteropolymanganate as oxidants: The positional effect of Mn(IV) on the kinetics of oxidation of D-glucose", R. Murugesan, T. Jeyabalan, A.Shunmugasundaram and

P. Sami, Eleventh Annual Conference of Indian Council of Chemists, Muzaffarpur,
March 1993, Abstracts, PO-44.

@@@@@