

PROFILE

Dr. V. Marimuthu, M.Sc., B.Ed., M.Phil., Ph.D.,

GUEST LECTURER

Research Department of Chemistry
Thiru Vi Ka Government Arts
College, (Affiliated to Bharathidasan
University, Thiruchirappalli -24)
Nagai Main Road, Kidarankondan,
Thiruvavur-03, Tamil Nādu, India

Email: marimuthucool@gmail.com / velumarimuthu@live.com

Phone: 04366-220478

Mobile: +91 9626373039 / 6381033459

<http://scholar.google.co.in/citations?user=i5M3VxMAAAAJ&hl=en>

https://www.researchgate.net/profile/Marimuthu_V



ACADEMIC PROFILE

Apr 2013 – July 2016 Bharathidasan University

DOCTOR OF PHILOSOPHY, Physical Chemistry

Tiruchirappalli, Tamil Nādu, India

Jul 2010 – Jul 2011 Bharathidasan University (Percentage secured: 78.30%)

MASTER OF PHILOSOPHY, General Chemistry

Tiruchirappalli, Tamil Nādu, India

Jun 2008 – Jul 2010 H.H The Rajah's College (Percentage secured: 67.39%)

MASTER OF SCIENCE, General Chemistry

Tiruchirappalli, Tamil Nādu, India

Aug 2007 – Sep 2008 Bharathidasan University (Percentage secured: 68.00%)

BACHELOR OF EDUCATION, Physical Science

Tiruchirappalli, Tamil Nādu, India

Jun 2004 – Aug 2007 H.H The Rajah's College (Percentage secured: 69.29%)

BACHELOR OF SCIENCE, General Chemistry

Pudukkottai, Tamil Nādu, India

May 1996 – Jun 2004 Government Higher Secondary School,

SCHOOL EDUCATION, Karambakkudi,

Pudukkottai, Tamil Nādu, India

DETAILS OF PROFESSIONAL AND RESEARCH EXPERIENCE

Jan. 2023 – Till Date	GUEST LECTURER Department of Chemistry Government Arts and Science College, Karambakudi, Tamil Nādu, India
Dec. 2015 – Jan. 2023	GUEST LECTURER Research Department of Chemistry Thiru Vi Ka Government Arts College, Thiruvarur, Tamil Nādu, India
Aug 2015 – Dec. 2015	ASSISTANT PROFESSOR AND HEAD Department of Chemistry Sir Issac Newton Arts and Science College Nagapattinam, Tamil Nādu, India
Aug. 2012 – Aug.2015	JUNIOR RESEARCH FELLOW (MRP-UGC) Thiru Vi Ka Government Arts College, Thiruvarur, Chemistry Thiruvarur, Tamil Nādu, India
April 2013 –Ap. 2015	DOCTOR OF PHILOSOPHY Bharathidasan University Tiruchirappalli, India (Research Supervisor: Dr. S. ARIVOLI, M.Sc., M.Phil., Ph.D., Associate Professor and Head Research Department of Chemistry Thiru Vi Ka Government Arts College, Thiruvarur – 610003)
Title of Thesis	“Pollution Abatement by Activated Nano Materials Derived from Natural Plants and Minerals”
July 2011- July 2012	ASSISTANT PROFESSOR OF CHEMISTRY Srinivasan College of Arts and Science (Co-Ed), Perambalur, Tamilnadu, India.
Jan. 2013-June 2013	VISITING FACULTY Department of Chemistry University College of Engineering, Anna University: Chennai Thirukkuvalai Campus.

Raja Serfoji Government Arts College, Thanjavur-05, TN, India
“An Eco-friendly Synthesis of 2,4-dibenzoyl-1,3,5-triphenylcyclohexane-1-ol by Michael Addition reaction under solvent free conditions”

PUBLICATION HIGHLIGHTS, JOURNAL PUBLICATIONS

1. **Marimuthu V**, S Arivoli and T Rose Judith: *Kinetic, Equilibrium and Mechanistic Studies of Nickel Adsorption on Activated Pistia Stratiotes Leaves*. SMART Academy, United Kingdom. 2014; 1(1):15-22.
2. **Marimuthu V**, A Kasthuri, S Arivoli, A Peter Pascal Regis: *Kinetic, Thermodynamic and Isotherm Studies on the Removal of Methylene Blue Dye using Acid Activated Abutilon Indicum*. Journal of Applied Chemistry 2014; 6(5):1-8, DOI:10.9790/5736-0650108.
3. **Marimuthu V**, S Arivoli, T Rose Judith: *Equilibrium and Thermodynamics Studies on the Removal of Iron (III) Onto Activated Pistia Stratiotes Leaves Nano Carbon*. Research & Reviews: Journal of Chemistry. 2014; 3(1):15-22.
4. **Marimuthu V**, P Pandian, S Arivoli, A Peter Pascal Regis: *Research Article Kinetic, Equilibrium and Mechanistic Studies of Nickel Adsorption on Acid Activated Ipomoea Carnea Leaves*. An International Publisher for Academic and Scientific Resources. 2014; 2(1):60-67.
5. **Marimuthu V**, S Arivoli, AR Mohamed Jahangir: *Kinetics of Batch Adsorption of Iron (II) ions from Aqueous Solution using Activated carbon from Strychnos Nux-Vomica L*. International Journal of Scientific and Engineering Research 12/2013; 4(12):407.
6. **Marimuthu V**: *Adsorption of Cu (II) Ions from Aqueous Solution by Activated Calcite Powder: Equilibrium, Isothermal and Kinetic Approach*. International Peer Review E-3 Journal of Sciences. 11/2013; 2(4):1083.
7. **Marimuthu V**, K Kavitha, M M Senthamilselvi and S Arivoli: *Adsorption of Cu (II) Ions from Aqueous Solution by Acid Activated Vitexnegundo Stem: Equilibrium, Isotherms and Kinetic Approach*. International Journal of Research in Pharmaceutical and Biomedical Sciences 11/2013; 4(4):1110.
8. **Marimuthu V**, A R Mohamed Jahangir: *Equilibrium, Kinetic and Thermodynamic Study on Chromium (VI) Removal from Aqueous Solution Using Strychnos Nux-*

Vomica L. Journal of Engineering Research and Applications. 11/2013; 3(6):1321.

9. **Marimuthu V**, S Arivoli, K R Shankar: *Adsorption of Cu(II) Ions from Aqueous Solution By Activated Plaster of Paris : Equilibrium Isotherms and Kinetic Approach*. Asian Academic Research Associate. 10/2013; 1(16):176.
10. **Marimuthu V**, S Arivoli, P Pandian: *Kinetic, Thermodynamic and Isotherm Studies on the Removal of Methylene Blue Dye using Acid Activated Ipomoea Carnea*. 08/2013;
11. **Marimuthu V**, KR Sankar, BR Venkatraman, S Arivoli: *Kinetic, Thermodynamic and Isotherm Studies on the Removal of Methylene Blue Dye Using Plaster of Paris*. Global Institute for Research and Education. 08/2013; 2(4):33.
12. **Marimuthu V**, P Pandian, S Arivoli, A Peter Pascal Regis: *Adsorption of Cu (II) Ions from Aqueous Solution by Activated Ipomoea Carnea: Equilibrium Isotherms and Kinetic Approach*. International Journal of Engineering and Innovative Technology. 07/2013; 3(1):156.
13. **Marimuthu V**, M Hema, K R Sankar, S Arivoli: *Adsorption of Chromium Ion by Activated Plaster of Paris-Kinetic, Mechanistic, Thermodynamic and Equilibrium Studies*. Society of Education.03/2013; 4(1).
14. **Marimuthu V**, A. Kasthuri, S Arivoli: *Adsorption of Chromium Ion by Acid Activated Abutilon Indicum-Kinetic, Mechanistic, Thermodynamic and Equilibrium Studies*. International Journal of Current Research. 02/2013; 5(2):354.
15. **Marimuthu V**, S Arivoli, T Ravichandran, M Hema: *Kinetic, Equilibrium and Mechanistic Studies of Nickel Adsorption on a Low Cost Activated Calcite Powder*. Ind. J. Sci. Res. and Tech. 01/2012; 1(1):41.
16. **Arivoli S and Marimuthu V**, et al., *Mechanistic studies of Copper (II) ion adsorption on activated Pongamia pinnata shell nano carbon*. European Journal of Environmental Ecology, 12/2015; 2(1): 21.
17. **Arivoli S and Marimuthu V**, et al., *Equilibrium, Kinetic and Thermodynamic Study on Rhodamine-B Removal from Aqueous Solution Using Activated Corchorus Olitorius-L Leaves*. IJPAJX, 10/2014; 5(1): 208.
18. **Arivoli S and Marimuthu V**, et al., *Kinetic, Equilibrium and Mechanistic Studies of Nickel Adsorption on Activated Corchorus Olitorius L-Leaves*. International Journal of Advanced Research in Chemistry, 2014; 1(1): 11.

19. **Arivoli S and Marimuthu V**, et al., *Equilibrium, Kinetic and Thermodynamic study on Copper (II) removal from aqueous solution using Strychnos nux-vomica L.* International Journal of Bioassays, 01/2015; 4(1): 3611.
20. **Arivoli S and Marimuthu V**, et al., *Kinetics of batch Adsorption of Iron(II) ions from Aqueous solution using Activated carbon from Corchorus Olitorius - L - Leaves.* Indian Journal of Current Research, 02/2015; 2(1): 33.
21. **Arivoli S and Marimuthu V**, et al., *Adsorption mechanism of Cu (II) ion Removal from Aqueous Solution using Acid Activated Madhuca longifolia Stem.* Science and Technology, 2015; 1(5): 137.
22. **Arivoli S and Marimuthu V**, et al., *A study on the removal of malachite green dye from aqueous solution using activated cyamopsis Tetragonoloba nano carbon.* International Journal of Current Science and Technology, 2016; 4(5): 21-31.
23. **Arivoli S and Marimuthu V**, et al., *A Study on the Adsorption of Copper (II) Ions from Aqueous Solution using Thermo Chemical Activated Ananas Comosus Leaves.* Journal of Chemical, Biological and Physical Sciences, 2016; 6(3): 921-931.
24. **Arivoli S and Marimuthu V**, et al., *Kinetic, Thermodynamic and Isotherm Studies on the Removal of Rhodamine B Dye using Activated Cyamopsis Tetragonoloba Stem Nano Carbon.* Journal of Chemical, Biological and Physical Sciences, 2016; 6(3): 932-943.
25. **Arivoli S and Marimuthu V**, et al., *Isotherm analysis on the removal of hexavalent chromium using nano adsorbents.* International Journal of Current Science and Technology, 2016; 4(6): 224-233.
26. **Arivoli S and Marimuthu V**, et al., *Equilibrium and Thermodynamics Analysis on the Removal Iron (III) Onto Activated Senna Alata Bark.* International Journal of Engineering Research and Management, 2016; 3(8): 01-06.
27. **Arivoli S and Marimuthu V**, et al., *A Study on the Removal Characteristics of Nickel Ion from Wastewater by Low-Cost Nano Adsorbent.* International Journal of Environment, Agriculture and Biotechnology, 2017; 2(1): 30-39.
28. **Arivoli S and Marimuthu V**, et al., *Kinetics, Thermodynamics and Isotherm Analysis on the Removal of Rhodamine B dye onto PONC.* International Journal of Medicinal Chemistry & Analysis, 2017; 7(1): 24-34.
29. **Arivoli S and Marimuthu V**, et al., *Adsorption Characteristics of AZJ-NC for Removing Basic Red 111 Dye From Wastewater.* Global Journal for Research Analysis, 2017; 6(1): 644-650.

30. **Arivoli S and Marimuthu V**, et al., *Adsorption characteristics of ZizyphusJujuba seed shell activated nano porous carbon for removing copper (II) ions from waste water*. International Journal of Research, 2017; 4(12): 226-241.
31. **Arivoli S and Marimuthu V**, et al., *Adsorption And Removal of Methylene Blue Dye From Aqueous Solution Using Low-Cost Adsorbent*. International Journal of Research and Analytical Reviews, 2019; 6(2): 468-482.
32. **Arivoli S and Marimuthu V**, et al., *Adsorption Thermodynamics and Isotherm Analyses of Cr(VI) Ion from Aqueous Solution Using Low-Cost Adsorbent*. Journal of Emerging Technologies and Innovative Research, 2019; 6(6): 1044-1060.
33. **Arivoli S and Marimuthu V**, et al., *Adsorption Isotherm, Kinetic Modeling and Thermodynamics of Malachite Green dye by Low-Cost Activated Carbon*. Journal of Information and Computational Science, 2019; 9(12): 578-597.
34. **Arivoli S and Marimuthu V**, et al., *Adsorption, Kinetics and Isotherm Analyses of Pollutants by Low-Cost Adsorbent*. The International Journal Of Analytical And Experimental Modal Analysis, 2019; 11(12): 34-49.
35. **Arivoli S and Marimuthu V**, et al., *Batch Adsorption, Thermodynamic, and Isotherm Studies of Lead Adsorption on Natural Adsorbent Synthesized from Thespesia populnea Bark*. Russian Journal of Physical Chemistry A, 2021; 95(2): S359-S364.
36. **K Palanisamy and Marimuthu V**, et al., *Cu (II) Mediated Synthesis of 2-Iminobenzopyran Analogues Via Solvent Free Green Chemistry Technique And Their Larvicidal, Antifeedant, And Molecular Docking Studies*. Journal of Natural Remedies, 2021; 9(1): 102-116.
37. **Arivoli S and Marimuthu V**, et al., *Adsorption Isotherm, Kinetic Modeling and Thermodynamics of Malachite Green dye by Low-Cost Activated Carbon*. Journal of Information and Computational Science, 2019; 9(12): 578-592.

CONFERENCE PUBLICATIONS

1. **Arivoli S and Marimuthu V**, "Isotherm analysis for the removal of Basic Red-111 dye by nano carbon", *UGC sponsored International Conference (ICEWEST-2015)*, Research Department of Chemistry, Presidency College, Chennai TamilNadu, India on 05th-06th Feb 2015.
 2. **Arivoli S and Marimuthu V**, "Kinetic and Isotherm Studies on the adsorption of Methylene Blue by Nano Carbon", *UGC sponsored National Conference*
-

(RACS-2015), Department of Chemistry, Gandhigram Rural Institute, Gandhigram, TamilNadu, India on 05th-06th March 2015.

3. **Marimuthu V**, "Isotherm analysis on the adsorption of Methylene Blue dye by Nano Carbon", *Royal Chemical Society sponsored National Symposium on (Recent Development in Catalyst)*, Department of Chemistry, National Institute of Technology, Thiruchirapalli, TamilNadu, India on 25th Nov 2016.
4. **Marimuthu V**, "The adsorption of p-Nitro phenol from wastewater using activated carbon", *National Conference on (New Vistas in Material Science)*, Department of Chemistry, JJ College of Arts and Science, Pudukkottai, TamilNadu, India on 08th and 9th March 2018.

UNDER COMMUNICATIONS

1. **Marimuthu V and S Arivoli**, *Thermodynamics and Isotherm Analyses on the Removal of Chromium (VI) ion by Fire Clay Minerals*. **Indian Journal of Fibre and textile Research**, In Review.
2. **Marimuthu V and S Arivoli**, *Isotherm, Kinetic and Thermodynamic Analyses on Copper (II) ion Removal from Aqueous solution using Argemone Mexicana seed Ash*. **Applied Surface Science**, In Review.
3. **Marimuthu V and S Arivoli**, *Isotherm Analyses of Direct Red 81 dye Removal from Aqueous solution using Activated Nano Porous Carbon*. **Environment Science and Pollution Research**, In Review.
4. **Marimuthu V and S Arivoli**, *Kinetic, Equilibrium and Isotherm Analyses of Malachite Green dye Removal from Aqueous solution using Argemone Mexicana seed Waste Activated Nano Porous Carbon*. **Journal of Water Chemistry and Technology**, In Review.
5. **Marimuthu V and S Arivoli**, *Isotherm Studies and Equilibrium Sorption of Malachite Green dye onto Activated Fire Clay Minerals*. **Iranian Journal of Environmental Health and Engineering**, In Review.
6. **Marimuthu V and S Arivoli**, *Isotherms analysis for the removal of Basic red-111 dye by Activated minerals*, **Ion Exchange Letters**. In Review.
7. **Marimuthu V and S Arivoli**, *Sorption Studies on the Removal of Copper (II) ion from Aquatic Environment using Activated Fire Clay Minerals*, **Water and Energy International**, In Review.

MEMBERSHIP IN BODIES ON EDUCATION

- ✓ **Served as an Examiner** for U. G Theory and Practical examinations of the Bharathidasan University from 2011 to till date.
- ✓ **Served as a member for NAAC committee** of Thiru Vika Government Arts College Thiruvarur from 2014 to till date.
- ✓ **Served as a nodal officer for AISHE** of Thiru Vika Government Arts College Thiruvarur from 2013 to till date.
- ✓ **Served as a member for IQAC committee** of Thiru Vika Government Arts College Thiruvarur from 2013 to till date.

SKILLS & ACTIVITIES

Skills	Kinetic Modeling, Adsorption, Equilibrium, Water and Wastewater Treatment, Green Chemistry Technology, Kinetics, Surface Adsorption, Surface Properties, Physisorption, Nanomaterial's, Wastewater Treatment, Heterogeneous Catalysis, Heavy Metals, Catalyst Characterization, Chemical Kinetics, Nanotechnology, Printing, Environmental Chemistry, Green Chemistry, Leather, ACP, Porous Materials, Textiles, Reaction Kinetics, Catalyst Synthesis, Advanced Oxidation Processes, BET Surface Area Measurement, Gas Adsorption, N ₂ Adsorption, Catalyst Deactivation	
Languages	English, Tamil	
Scientific Memberships	AATCC – Environment & a subgroup of American Association of Textile Chemists and Colorists	Sustainability
Interests	Listen Music, Story Writing and Playing Cricket	

STATISTICS OF RESEARCH GATE

RG Score	24.19
Publications	41
Total Impact Points	7.55
Views	8884
Downloads	3884

GOOGLE SCHOLAR CITATIONS

Publication 41
Over all citation 68
h-index 05

PERSONAL DETAILS

Name: Marimuthu V

Father Name: Velu T

Date of Birth: 21 May 1986

Age: 36 Years

Sex: Male

Marital Status: Married

Religion: Hindu

Residential Address No. 168/144, Edayappatti,
Veladippatti (Post), Karambakkudi (Taluk),
Pudukkottai, (District),
Pin code: 613301,
Mobile: 9626373039.

Communication V. Marimuthu,
Assistant Professor, (GL)
Address Research Department of Chemistry
Thiru Vi Ka Government Arts College,(Affiliated to
Bharathidasan University, Thiruchirapalli -24)
Nagai Main Road, Kidarankondan,
Thiruvavarur- 610 003, Tamil Nādu, India