

Faculty Profile



Name : Dr. K. KANIAPPAN
Designation : Associate Professor of Chemistry
Address : Chikkanna Govt. Arts College,
Tirupur-641602.
Contact Number : +919976323568
Email ID : kaniappank@gmail.com
Date of Joining in Collegiate Education : 28.02.2011
Date of Joining in the Present College : 10.08.2012

Academic Profile

Degree	Institute/College	University	Period
B.Sc., Chemistry	Govt. Arts College, Coimbatore	Bharathiar University	1989-1992
M.Sc., Chemistry	PSG College of Arts and Science, Coimbatore	Bharathiar University	1992-1994
M.Phil. Chemistry	PSG College of Arts and Science, Coimbatore	Bharathiar University	1994-1995
Ph.D Chemistry	PSG College of Technology, Coimbatore	Bharathiar University	2001-2009

Teaching Experience

i) **Total** : **26 Years 10 Months**
ii) **UG** : 26 Years 10 Months
iii) **PG** : 11 Years 5 Months

Name of the college	Position held	Period
PSG College of Technology & Polytechnic, Coimbatore.	Teaching Assistant	19.08.1996 - 30.04.1997
PSG College of Technology & Polytechnic, Coimbatore.	Lecturer	11.06.1997 - 03.10.1997
Sri Ramakrishna Engg. College, Coimbatore.	Lecturer	06.10.1997 - 17.08.1999

Sri Ramakrishna Polytechnic, Coimbatore.	Lecturer	18.08.1999 - 28.01.2000
PSG College of Technology, Coimbatore.	Lecturer to Asst. Professor	28.06.2000 - 26.02.2011
Arignar Anna Govt. Arts College, Namakkal.	Asst. Professor	28.02.2011 –10.08.2012 FN
Chikkanna Govt. Arts College, Tirupur-641602.	Asst. Professor	10.08.2012 AN – Till date

Honors and Research Awards

- Received Best NSS Programme Officer Award from Anna University, Chennai for the year 2005-2006.
- In appreciation to the service rendered during Tsunami, received the appreciation certificate from the honourable Governor of Tamil Nadu on 26.12.2005.

Field of Interest

- i) **Teaching** : Organic Chemistry, Polymer Chemistry
 ii) **Research** : Polymer Chemistry
 iii) **Proficiency in instrumentation** : IR and DSC

Research Guidance

Guidance Number

: M.Phil : 23694-1/A2/2014 & 04/12/2014
 Date of Recognition: 03/12/2014
 Ph.D: 16131/3/ CRE5/2021 & 17/03/2022
 Date of Recognition: 04/03/2022

S. No	M.Phil/ Ph.D	Name of the Student	Thesis Title	Completed /ongoing
1.	M.Phil	Mrs. R. Roja Preethi	Preparation and characterization of starch-poly(vinyl alcohol) blends using glycerol triacetate as plasticizer	Completed, June, 2018.
2.	M.Phil	Mrs. M. Sindhu	Formulation and characterization of copolyphosphonate ester containing starch-poly(vinyl alcohol) ternary blends	Completed, Aug, 2019.
3	Ph.D	Ms. T. Keerthana	Biodegradable Polymer Blends (Tentative)	Ongoing (Joined on 01.11.2022)

Funded Projects

: Nil

Membership in Professional Bodies :

S. No	Name of the Professional Body	Membership Detail with Number
1.	Indian Society for Technical Education	Life Member
2.	Society of Polymer Science India	Life Member

Research Publications

- i) **Research Papers** : **See Annexure – I**
- ii) **Book/Book Chapters** : Engineering Chemistry, First Edn, RK Publishers, July 2003, Pages 220, Price Rs.170.

National and International Conferences : **See Annexure – II****Conference/Seminars Organized** :

- Organizing Committee Member, 19th State level two days conference on “Quality Higher Education for Everyone – Challenges and Achievements”, conducted by Tamilnadu Government Collegiate Teachers Association (TNGCTA) at Bharathiar University, Coimbatore, 5 & 6 January 2019.
- Second National Conference on Recent Trends in Polymer Science and Technology (NCRTPST-2008) at PSG College of Technology, 21 & 22 November 2008.
- National Conference on Recent Trends in Polymer Science and Technology (NCRTPST-2006) at PSG College of Technology, 14 & 15 July 2006.

Workshop /Training courses attended :

- National workshop on “Theory and Practice of Advanced Techniques for the Characterization of Nanomaterials”, 20th & 21st January 2011, conducted by PSG College of Technology & PSG Institute of Advanced Studies, Coimbatore.
- Training course on thermal analysis, 3rd June 2009, conducted by TA instruments, Bangalore at Hotel Residency, Coimbatore.
- One day transition course on ISO 9001:2008, 2nd May 2009, organized by Zandig Knowledge Management Pvt Ltd, Bangalore at Hotel Legends Inn, Coimbatore.
- One day faculty training workshop on “How and Why of value Education”, 6th Feb 2009, conducted by Mechanical and Humanities Department, PSG College of Technology, Coimbatore.
- One day Workshop on “Research Methodology for College Teachers”, 3rd Dec 2005, Educational Technology Centre, PSG College of Technology, Coimbatore.
- Workshop on Spectroscopy and its applications, 26-27 Feb 2005, Kongunadu College of Arts and Science, Coimbatore.
- National Workshop-cum-Symposium on complex fluids, 3-7 Dec 2002, Indian Institute of Science, Bangalore.

- Instrumental evaluation and curriculum planning and Design, 06 Jan 2001, Educational Technology Centre, PSG College of Technology, Coimbatore.
- Training course on internal quality audit training, 01-02 Nov 2000, Zandig TQM Solutions Private Limited at PSG College of Technology. Coimbatore.

Resource Person/Invited Lectures :

- Delivered a Special Lecturer on Conducting Polymers at Arignar Anna Govt. Arts College, Namakkal on 02.09.2016.

Faculty Development Programs Attended :

Course	University/Institute	Subject	Period
Summer School	Government College of Technology, Coimbatore.	Engineering and Science	May 19 - June01, 2003
Orientation course for NSS Programme Officers	Training and Orientation Centre of Avinashilingam Deemed University, Coimbatore.	NSS	December 01-12, 2003
Refresher course for NSS Programme Officers	Training and Orientation Centre of Avinashilingam Deemed University, Coimbatore.	NSS	July 25-29, 2005
Orientation course	University of Madras, Chennai.	General	May 04 - June02, 2011
Refresher Course	Academic Staff College, Bharathidasan University, Trichy.	Chemistry	Feb 01 - Feb 21, 2014
Online Refresher Course	SWAYAM –Sri Guru Tegh Bahadur Khalsa College, University of Delhi, Delhi.	Chemistry	Nov 01, 2018 - Feb 28, 2019
Refresher Course	Academic Staff College, Bharathiar University, Coimbatore.	Human Rights	Sep 12 - 25, 2019
Refresher Course	Academic Staff College, Bharathidasan University, Trichy.	Material Science	July 05 - 18, 2022
FDP on International Regulatory Requirement in Good Manufacturing Practices (NM Course)	Bharathiar University, Coimbatore in association with Pharmagenie Training Partner	Chemistry	July 17 – 21, 2023
FDP on EV Battery Management (NM Course)	Bharathiar University, Coimbatore in association with CADD CENTRE	Electronics	Jan 22 – 30, 2024

Academic Activities

i) Subject Handled

- Organic Chemistry, Physical Methods in Chemistry (Spectroscopy), Polymer Technology, General Chemistry, Allied Chemistry, Gravimetric and Physical Chemistry Laboratory and all Practical courses.

ii) Class Advisor

- 2012-2015 Batch B.Sc., Chemistry
- 2018-2020 Batch M.Sc., Chemistry
- 2021-2024 Batch M.Sc., Chemistry

iii) Student Community Beneficial Activities

- Acted as Judge for Science Exhibitions held at various Government Schools, conducted by the Govt. of Tamilnadu.

iv) Co-curricular and extra-curricular activities

- Department Library In-charge from 2015 to till date,
- College NIRF Member from 2018 to till date.

Professional Activities

Reviewer:

- Journal of Theoretical and Applied Physics, Springer Publications.

Examiner:

- Bharathiar University theory and practical External Examiner.
- Theory and practical External Examiner for Autonomous Colleges.

Annexure – I

Research Papers

PAPERS PUBLISHED IN NATIONAL JOURNALS:

1. K. Kaniappan, Polyphosphoric acid catalyzed indolization of 4-piperidonephenyl hydrazones, *Oriental Journal of Chemistry*, Vol. 14(1), January-April 1998, pp.51-54.
2. K. Kaniappan and M. Murugesan, Studies on carbolines derivatives: Nitrosation of 1,3-Diphenyl-1,2,3,4-tetrahydro- γ -carbolines, *Indian Journal of Heterocyclic Chemistry*, Vol. 7, October-December 1997, pp. 147-148.
3. K. Kaniappan and M. Murugesan, Synthesis of some γ -carbolines through thermal indolization of 4-piperidones, *Indian Journal of Heterocyclic Chemistry*, Vol. 7, July-September 1997, pp. 69-70.
4. D. Rajaji and K. Kaniappan, Synthesis and Spectral Studies of Carcinogenic Carbolines Identified in Processed Foods, "*TECHNOLOGY*"- A Journal of the PSG College of Technology and Polytechnic, March 1997, pp.55-59.
5. D. Rajaji, S. Vidhyasankar, K. Kaniappan, K. Uma Maheswari and M. Kumaravel, Recycling of Biowaste – Isolation and testing of Natural Dyes from Grape Fruit Skin, "*TECHNOLOGY*"- A Journal of the PSG College of Technology and Polytechnic, March 1997, pp.51-54.
6. M. Murugesan and K. Kaniappan, Indolization of 4-piperidones: Synthesis of 1,3-Diphenyl-1,2,3,4-tetrahydro- γ -carbolines, *Indian Journal of Chemistry*, Vol.36B, January 1997, pp. 83-85.

PAPERS PUBLISHED IN INTERNATIONAL JOURNALS:

1. K. Kaniappan, S.C. Murugavel, and T. Daniel Thangadurai, A Review on Photopolymers for Polymer Nanocomposite Applications, *Journal of Environmental Nanotechnology*, Volume 3, No.3 pp. 01-15, September 2014.
[doi: 10.13074/jent.2014.09.143104](https://doi.org/10.13074/jent.2014.09.143104)
2. K. Kaniappan, S.C. Murugavel, and T. Daniel Thangadurai, Synthesis and properties of few polyphosphonate derivatives containing photosensitive unsaturated keto group in the main chain, *Macromolecular Research*, Springer, Volume 21, No. 10, pp 1045-1053, October 2013.
<https://link.springer.com/article/10.1007/s13233-013-1149-8>

3. K. Kaniappan and S. Latha, Certain Investigations on the Formulation and Characterization of Polystyrene / Poly(methyl methacrylate) Blends, *International Journal of ChemTech Research*, Volume 3, No.2, pp 708-717, April-June 2011.
<https://pdfs.semanticscholar.org/c28f/a340040676ba970f0a9a3013aaa00d946118.pdf>
4. K. Kaniappan and S.C. Murugavel, Photocrosslinkable phosphorus containing homo and copolyesters: Synthesis, characterization, and photosensitive properties, *Journal of Applied Polymer Science*, Volume 111, Number 3 / 2009, 1606-1614.
<https://doi.org/10.1002/app.29190>
5. K. Kaniappan and S.C. Murugavel, Synthesis and Characterization of Photosensitive Phosphorus Based Polymers Containing α , β -Unsaturated Ketones in the Main Chain, *Journal of Macromolecular Science Part A: Pure and Applied Chemistry*, Taylor & Francis, Volume 42, Number 12 / 2005, 1589-1602.
<https://doi.org/10.1080/10601320500246636>
6. S. Priyarega, A. Muthusamy, K. Kaniappan and S.C. Murugavel, Synthesis and Characterization of Photosensitive Polyesters by Phase Transfer Catalysed Polycondensation, *Designed Monomers & Polymers*, Brill Academic Publishers, Netherlands, Volume-6, April-June 2003, pp.187-196.
<https://doi.org/10.1163/156855503768338241>

Annexure – II

National and International Seminar/Conferences

Participated

1. Tamilnadu State Council for Science and Technology sponsored one day national seminar on smart and functional materials, 2nd August 2019, conducted by PSG College of Arts and Science, Coimbatore.
2. All India Federation of University and College Teachers Organizations (AIFUCTO), XXXI Academic Conference, 23rd to 25th November 2018, organized by JAC(MUTA, TNGCTA & AUT) Tamilnadu, Kanyakumari.
3. A one day state level seminar on “Higher Education for All”, 12th October 2015, organized by Tamilnadu College Teachers Association, Chennai.
4. A one day national seminar on nanomaterials research, 21st Feb 2015, conducted by Sri Ramakrishna Engg. College, Coimbatore.
5. UGC sponsored one day seminar on “NAAC BENCHMARKING POINTERS”, 10th Jan 2015, conducted by IQAC, Chikkanna Government Arts College, Tirupur.
6. UGC sponsored national conference on “Advanced Materials for the Emerging Technologies”, 11th & 12th July 2013, conducted by Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore.
7. UGC sponsored state level seminar on “Nanotechnological Treatment of dyeing unit Effluents”, 7th & 8th March 2013, conducted by Chikkanna Govt. Arts College, Tirupur.
8. Third national conference on recent trends in polymer science & technology, 26-27th August 2011, conducted by PSG College of Technology, Coimbatore.
9. National Seminar on “Applications of Polymer nanocomposite Materials in Various Fields”, 16th July 2011, conducted by Kongu Engineering College, Erode.
10. Seminar on Technologies for Rural Development and NSS Exhibition, 3rd March 2006, conducted by NSS Cell, Anna University at Coimbatore Institute of Technology, Coimbatore.
11. State level Seminar on Recent Advances in Conducting Polymers, 30-31 Mar 2005, Sri Ramakrishna Mission Vidhyalaya College of Arts and Science, Coimbatore.
12. Seminar on Environmental Management for Clean & Green Coimbatore, 25th March 2005, conducted by Environmental Cell Division, WRO/PWD at PSG College of Technology, Coimbatore.

13. Seminar on Technologies for Rural Development and NSS Exhibition, 3rd March 2005, conducted by Anna University at Coimbatore Institute of Technology, Coimbatore.

Paper Presented/Published in National Conferences:

1. K. Kaniappan and S. C. Murugavel, Synthesis, characterization and photosensitive properties of phosphorus containing homo and copolymers, *National Conference on Polymeric Materials - MACRO 09*, 9-11 March 2009, IIT Madras, Chennai.
2. A. Muthusamy, K. Kaniappan and S.C. Murugavel, Studies on certain linear, unsaturated, photosensitive, fluorescent polyesters, *National Conference on Recent Trends in Polymer Science and Technology* (NCRTPST-2006), 14-15 July 2006, PSG College of Technology, Coimbatore.
3. P. S. Balakrishnan, K. Kaniappan and S.C. Murugavel, Synthesis and characterization of novel dual-functional epoxy resin, *National Conference on Recent Trends in Polymer Science and Technology* (NCRTPST-2006), 14-15 July 2006, PSG College of Technology, Coimbatore.
4. K. Kaniappan and S.C. Murugavel, Synthesis and characterization of phosphoruscontaining polyesters for photoresist applications, *National Conference on Futuristic Polymer Materials*, 23-24 Sept 2005, R.V. College of Engineering, Bangalore.
5. K. Kaniappan and S.C. Murugavel, UV, IR and NMR spectral studies on photocrosslinkable polyphosphoramidate esters, *National Conference on Recent Advances in Molecular Interactions (NCRAMI-2004)*, 26-27 Mar 2005, PSG College of Arts and Science, Coimbatore.
6. A. Muthusamy, K. Kaniappan and S.C. Murugavel, Synthesis and Spectral, Thermal Photocrosslinking of poly (benzylidene cyclohexanone) esters, Proceedings of the *14th Annual General Meeting of Materials Research Society of India & Theme Symposium on Novel polymeric Materials*, 2003, PPO-39, 94.
7. K. Kaniappan, Studies in Indolothiopyrimidine compounds: A novel synthesis of New 1,3-Diphenyl-1,2,3,4-tetrahydrothiopyrano(4,3-b)indole derivatives, Proceedings of the *34th Annual convention of Chemists*, Dec 1997, p.C12.
8. K. Kaniappan, M. Murugesan and D. Rajaji, Synthesis and Reactions of 4-Substituted-1,3-Diphenyl-1,2,3,4-tetrahydro- γ -carbolines, Proceedings of the *34th Annual convention of Chemists*, Dec 1997, p.C6.

Paper Presented/Published in International Conferences:

1. K. Kaniappan, A. Muthusamy and S. C. Murugavel, Synthesis and characterization of polyphosphoramidate esters containing α , β -unsaturated ketones, *International Seminar on Advances in Polymer Technology*, Cochin University of Science & Technology, 16-17 Jan, 2004, Cochin.
2. Muthusamy, S. Priyarega, K. Kaniappan and S.C. Murugavel, Synthesis and Characterization of Photoreactive chalcone containing Polyesters, Proceedings of the *International Seminar on the Frontiers of Polymer Science and Engineering*, MACRO-2002, 2002, O2.6.

ARTICLES PUBLISHED:

1. K. Kaniappan and S. C. Murugavel, Heavy metals and Human health, *Science India*, Vol.5, July 2002, pp. 17–19.
2. R. Narayanasamy, M. Kumaravel and K. Kaniappan, Funding research in India: A boon or bane? *Current Science*, Vol. 82(4), February 2002, p.375.
3. K. Kaniappan, Role of science in higher education, *Current Science*, Vol. 81(3), August 2001, pp.233-234.
4. K. Kaniappan, Science fundamental to engineering courses, *The Hindu*, Open pagecolumn, July 20, 1999.
5. K. Kaniappan, Withering of science in engineering education, *Current Science*, Vol.76(9), May 1999, p.1173.
