

Journals

1. Synthesis and characterization of poly(3-hydroxy-4-acetyl phenylacrylate)-metal complexes, T.Kaliyappan, S. Nanjundan and A.V.R. Reddy, J.Polymer mater., 10, p 169-174 (1993).
2. Synthesis and characterization of poly(2-hydroxy-4-methacryloyloxy acetophenone-formaldehyde)-metal complexes, T. Kaliyappan, P. Kannan and A.V.R. Reddy, J.Polymer mater., 11, p121-128 (1994).
3. Synthesis and characterization of poly(2-hydroxy-4-acryloyloxy acetophenone-formaldehyde)-metal complexes, T.Kaliyappan, P. Kannan and A.V.R. Reddy, IraninanJ.Polymer Sci. and Tech., mater., 4, p 18-25 (1995).
4. Studies on poly(2-hydroxy-4-acryloyloxy benzophenone-formaldehyde)-metal complexes, T. Kaliyappan and P. Kannan, J.App.polym.Sci., 60, p 947-953 (1996).
5. Synthesis, spectral and thermal properties of poly(2-hydroxy-4-methacryloyloxy benzaldehyde)-metal complexes, T. Kaliyappan and P. Kannan, J.Poly.Sci.part A: Polymer Chemistry, 34, p 3551-3557 (1996).
6. Synthesis and characterization of a new metal chelating polymer derived Ni(II) and Cu(II) complexes, T.Kaliyappan, C.S. Swaminathan and P. Kannan, Polymer, 37, p 2865-2869 (1996).
7. Studies on poly(2-hydroxy-4-methacryloyloxy benzophenone-formaldehyde)-metal complexes, T.Kaliyappan, C.S. Swaminathan and P. Kannan, Eur. Polym. J., 33 p 59-65 (1997).

8. Synthesis, spectral, thermal & photocrosslinking studies of poly(benzylidene phosphoramidate ester)s, T.Kaliyappan, S.C. Murugavel, C.S. Swaminathan and P. Kannan, J. Appl. Polym. Sci., 65, p 2151-2157 (1997).
9. Studies on various divalent metal complexes of Poly(2-hydroxy-4-acryloyloxybenzophenone) in aqueous medium, T.Kaliyappan and P. Kannan, Polym. Inter., 45, p 278-284 (1998).
10. Studies on Poly(8-acryloyloxyquinoline) and its metal complexing ability in aqueous medium, T.Kaliyappan, Anupriya Raman and P. Kannan J. Macro.Sci. Pure and Appl. Chem., 4, p 1054-1068 (1999).
11. Studies on poly(acrylate)s containing pendant ligand with carbonyl and hydroxyl functions and their various divalent metal complexes, T. Kaliyappan, S. Rajagopan and P. Kannan, J. Applied Polymer science, 90, p 2083 - 2087 (2003).
12. New polymeric Schiffâ€™s base and its metal complexes, T.Kaliyappan, S. Rajagopan and P. Kannan, J. Applied polymer Science, 91, p 494-500 (2004).
13. Studies on poly(8-hydroxy-azoquinolinephenylmethacrylate) and its metal complexes S. Vijayalakshmi, S. Subramanian, S. Rajagopan and T.Kaliyappan, J. Applied polymer science, 99, p 1516-1522 (2006).
14. Studies on poly(8-hydroxy-azoquinolinephenol-formaldehyde) and its metal complexes S. Vijayalakshmi, S. Subramanian, S. Rajagopan and T.Kaliyappan, J. Applied polymer Science, 101, p 1506-1510 (2006).
15. Studies on poly(8-hydroxy-azoquinolinephenylacrylate) and its metal complexes S. Vijayalakshmi, R. Sankar, S. Subramanian, S.

Rajagopan and T.Kaliyappan, J. Designed monomers and polymers, 9, p 425. (2006).

16. Synthesis and metal uptake studies on poly(8-hydroxy-5-azoquinolinephenylacrylate-formaldehyde) resin and its metal complexes S. Vijayalakshmi, R. Sankar, S. Subramanian, S. Rajagopan and T.Kaliyappan, J. Applied polymer science, 104, p 797-802 (2007).

17. Synthesis and chelation properties of new polymeric ligand derived from poly(8- hydroxy-5-azoquinoline hydroxy benzene), S. Vijayalakshmi, R. Sankar, S.

Subramanian, S. Rajagopan, and T.Kaliyappan, European polymer journal 43, 4639-4646 (2007).

18. Synthesis and chelating properties of poly(2,4-dihydroxy acetophenone-N-phenylimine-formaldehyde) R. Sankar, S. Vijayalakshmi, S. Rajagopan and S. Subramanian, and T. Kaliyappan J. Applied polymer science, 110, p 1110-1120 (2008).

19. Synthesis and characterization of Aurivillius-Phase $\text{Bi}_4\text{Sr}_{n-3}\text{Ti}_{n+3}\text{O}_{3n+3}$ ($n= 3$ and 4) nano ferroelectric ceramics. T.Kaliyappan, R. Sridharane, S. Subramanian, and R. Murugan. Vol 8, 2009 p 1-13.

20. Random hcp and fcc structures in thermoresponsivemicrogel crystals.T.KaliyappanJ. Brijitta, B. V. R. Tata, R. G. Joshi. The journal of Chemical Physics 131, 074904 2009.

21. Phase Behavior of Poly(N-isopropylacrylamide) Nanogel Dispersions: Temperature Dependent Particle Size and Interactions, T.Kaliyappan J. Brijitta, B. V. R. Tata. Journal of Nanoscience and Nanotechnology Vol.9, 5323-5328, (2009)

22. Synthesis, Spectral, Thermal and chelation potentials of polymeric hydrazone based on 2, 4-dihydroxybenzophenone, T.Kaliyappan, R.Sankar, S.Vijayalakshmi, S.Rajagopan and. Journal of Applied Polymer Science, 117, p 2146–2152 (2010).

23. A Confocal Laser Scanning Microscopic Study on Thermo-responsive Binary Microgel Dispersions Incorporated with CdTe Quantum Dots, T.Kaliyappan J. Brijitta, B. V. R. Tata, K. Saravanan, B. K. Panigrahi and, Pramana: J. Physics., vol 75, p– 1215–1220, 2010.

24. Synthesis, characterization, thermal and chelation properties of new polymeric hydrazone based on 2, 4-dihydroxy benzaldehyde. T.Kaliyappan, R. Sankar, M. Sasidaran and, High performance polymer, 2011, 23(1) 32–39.

25. Removal of Chromium, copper and Nickel ions using bidentate polymeric ligand derived from 4-Aminophenol and Salicylaldehyde. T.Kaliyappan* P.Kandasamy, M. Sasidaran, N. Janaki, and. Journal of Applied Polymer Science. 2012, 124 (5), 3600–3605,

26. Chelating and biological properties of an azo polymer resin: synthesis, characterization and its application. T.Kaliyappan¹*, Manjiny Sasidaran¹, Ramasamy Sankar², Periyasamy Kandasamy¹, Soundarajan Vijayalakshmi¹ and High Performance Polymers, 2011, 23(8) 602–609.

27. Experimental Investigation on a 0.25 m² Solar Gel Pond. T.Kaliyappan*, T.Senthilvelan, Sozhan.N, Vijayakrishna Rapaka.E, and IJRSET Journal, vol.2, Issue 8, pp.3384–3397, August 2013

28. Experimental Investigations on a 1 m² Solar Gel Pond. T.Kaliyappan*, T.Senthilvelan, Sozhan.N, Vijayakrishna Rapaka.E,

Applied mechanics and Materials, Trans Tech Publications, Vols.592-594,pp.2360-2364,2014

29. Synthesis And Liquid Crystal Properties of Supramolecular Side Chain Liquid Crystalline Polymers Containing Poly (Acrylic Acid) Intermolecular Hydrogen Bonding T.Kaliyappan*, P.Kandasamy, R. Keerthiga , S. Vijayalakshmi Molecular Crystals And Liquid Crystals Vol 606,pp 1-11, 2015

30. Metal Uptake Properties Of Chelating Azo Polymeric Resin;Synthesis, Characterization And Biological Properties.T.Kaliyappan*, S. Vijayalakshmi, R. Keerthiga. International Journal of ChemTech Researchvol 7, pp 2886-2893, 2015

31. Adsorption of Cu(II) ions from aqueous solution onto polymer based N₂ activated carbon prepared from waste compact discs (CDs) and digital versatile discs (DVDs), David Premkumar Arokiasamy, Ramesh Kaliyaperumal, Kaliyappan Thananjayan and Rajappa Arumugam, Journal of Advanced Science Research, 2020;11(1), Suppl.8, pp. 270-279.

32. Convenient preparation of activated carbon from waste CD/DVDs and its application in super capacitor studies, David Premkumar Arokiasamy, Ramesh Kaliyaperumal, Kaliyappan Thananjayan and Rajappa Arumugam, Journal of Advanced Science Research, 2020;11(4), Suppl.8, pp. 159-163.

33. Study on synthesis and investigation of Supramolecular cupric (Cu(II)) metallomesogens with Smectic C phase, Keerthiga Rajendiran, Kaliyappan Thananjeyan, Suman Thodal Yoganandham, Inorganic Chemistry Communications, 2020;117, pp. 107-954.

34. Co-ordination Polymers, T. Kaliyappan and P. Kannan, Progress in polymer science, 25, 342-370(2000)

35. An overview of liquid crystalline mesophase transition and photophysical properties of π -block, σ -block and (SCO) spin-crossover metallomesogens in the optoelectronics, Keerthiga Rajendiran, Suman Thodal Yoganandham, Sivaranjani Arumugam, Dhivya Arumugam, Kaliyappan Thananjeyan, Journal of Molecular Liquids, 2021; 321, pp. 114-793

Conferences

1. T.Kaliyappan and P.Kannan, π -Synthesis and characterization of Poly(2-hydroxy-4-methacryloyloxybenzaldehyde)-metal complexes, national symposium on recent advances in new polymer material, Polymer'95, 14-15 May, 1995, Ravenshaw College, Cuttack-753 003, Orissa.

2. T.Kaliyappan and P.Kannan, π -Studies on Poly(2-hydroxy-4-methacryloyloxybenzaldehyde)-metal complexes, 36th IUPAC Macro Seoul'96, International symposium on Macromolecules, 4-9 August, 1996, Seoul, Korea.

3. T.Kaliyappan and P.Kannan, π -Studies on polyacrylate pendant ligand containing carbonyl and hydroxyl functions and their divalent metal complexes, 2nd International conference on APME'97, 17-24 April, 1997, Orlando, Florida, USA.

4. T.Kaliyappan and P.Kannan, π -Studies on polymeric Schiff's base and its metal complexes, National seminar on advances in science and technology of polymeric materials'97, 19-20 December, 1997, Indian Institute of Technology, Madras, Chennai 600 036.

5. T.Kaliyappan, R.Anupriya and P. Kannan, "Studies on poly(8-acryloyloxyquinoline) and its metal complexes", IUPAC MacroTM98, International symposium on advances in Polymer science and technology, 5-9 January, 1998, Chennai, India.
6. T.Kaliyappan, S.Subramanian and P.Kannan, "Studies on poly(2-hydroxy-4-acryloyloxybenzophenone-formaldehyde) and its metal complexes", National seminar on advances in plastics and rubber materials and processing, 7-8 January 2000, Anna University, Chennai.
7. T.Kaliyappan and S. Rajagopan, "Science and Technological advancements" A Seminar on contents of applied science in technical education, 2nd March 2002, Madras.
8. T.Kaliyappan, S. Vijayalakshmi, S. Rajagopan and S. Subramanian, "Studies on poly(8-hydroxy-4-azoquinolinephenyl methacrylate) and its metal complexes", National conference on Science and Technology of advanced Materials, 27-29 July 2005, P.E.C. Pondicherry.
9. T.Kaliyappan, S. Vijayalakshmi, S. Rajagopan and S. Subramanian, "Studies on poly(8-hydroxy-4-azoquinolinephenylacrylate) and its metal complexes" Polymer 2006, 10-12Feb 2006, IACS, Kolkata.
10. T.Kaliyappan, R. Sankar and S. Rajagopan, "Synthesis, characterization and metal ion uptake properties of poly(2,4-dihydroxyacetophenone-N-phenylimine-formaldehyde) resin and its metal complexes", Polymer 2006, 10-12Feb 2006, IACS, Kolkata.
11. T.Kaliyappan, R.Sankar and S.Rajagopan, "Studies on poly(2,4-dihydroxyacetophenone-N-phenylimine-formaldehyde

)resin and its metal complexesâ€”, NC RTPST 2006, 14-15 July 2006, PSG College of Technology, Coimbatore.

12. T.Kaliyappan R. Sankar, S.Rajagopan, S. Subramanian and â€œ Synthesis of metal uptake properties of new polymeric hydrazone derived from 2,4-dihydroxybenzaldehydeâ€”, 17-18th October 2008, organized by department of chemistry, Annamalai University.

13. T. Kaliyappan, R. Sankar, M. Sasidaran, P. Kandasamy, S. Vijayalakshmi, S. Rajagapooan, â€œ Synthesis characterization thermal and chelation properties of new polymeric hydrazone derived from 2,4-dihydroxy benzaldehydeâ€”, NC RTPST 2008, 21-22nd November 2008, PSG College of Technology, Coimbatore.

14 T.Kaliyappan, M.Sasidaran, R.Sankar, P.kandasamy, N.Janaki, S.Vijayalakshmi, Synthesis, Spectral, Thermal and chelation potentials of polymeric hydrazone based on 2, 4-dihydroxybenzophenone, December 15-17, Macro 2010, IIT New Delhi.

15. T.Kaliyappan, M.Sasidaran, R.Sankar, P.kandasamy, N. Janaki, S.Vijayalakshmi, Synthesis, spectral and metal binding study of chelating formaldehyde resin

Derived from 4-Hydroxyacetophenone and Anthranilic acid, December 15-17, Macro 2010, IIT New Delhi.

16. T.Kaliyappan P. Kandasamy, M. Sasidaran N. Janaki, S.Vijayalakshmi, The synthesis, characterization, thermal and optical properties of Poly[5-(2-hydroxy-4-iminobenzene-4-yl-oxy) phenyl methacrylate] and their copper and Nickel complexes., December 15-17, Macro 2010, IIT New Delhi

17. T.Kaliyappan, J Brijitta, B V R Tata, K. Saravanan, B. K. Panigrahi, Synthesis and imaging of green and red luminescent

CdTenanocrystals incorporated in thermo-responsive microgel particles, International Conference on Nanoscience and technology 2010, February, (2010), IIT Mumbai, India(Won Best Paper Award)

18. T.Kaliyappan J. Brijitta, B. V. R. Tata, K. Saravanan, B. K. Panigrahi , A Confocal Laser Scanning Microscopic Study on Thermo-responsive Binary Microgel Dispersions Incorporated with CdTe Quantum Dots, , National Laser Symposium, NLS-2009, BARC, Mumbai, January 11-14, 2010 India

19. T.Kaliyappan,M.Sasidaran,R.Sankar, P.kandasamy, N.Janaki, S.Vijayalakshmi, Chelation Potentials of new polymeric hydrazone Derived from 2, 4- DihydroxyBenzaldehyde, APM 2011, CIPET, Chennai.

20. T. Kaliyappan, P. Kandasamy, N. Janaki, M.Sasidaran, S.Vijayalaksmi,. Studies on 2,4-dihydroxybenzaldehyde mesogen containing side chain liquid crystalline polyacrylate, ICVC-2011, IGCAR, Kalpakkam, Chennai, October 11-13, 2011.

21. T. Kaliyappan, N.Janaki, P. Kandasamy, , M.Sasidaran, S.Vijayalaksmi,.Transition metal complexes from ONNO donor tetradentate Schiff base ligand Synthesis, Characterization and efficient antimicrobial activities, ICVC, Kalpakkam, Chennai. October 11-13, 2011.

22. T.Kaliyappan, M.Sasidaran,R.Sankar, P.kandasamy, N. Janaki, S.Vijayalakshmi, Synthesis, characterization and antibacterial activity of azo-Naphthol dyes containing formaldehyde resin and its metal complexes. 26th& 27thAugsut 2011, NC RTPST 2011, Coimbatore.

23. T.Kaliyappan, M.Sasidaran, R.Sankar, P.Kandasamy, R.Keerthiga, S.Vijayalakshmi Metal ion removal and functional properties of

chelating azo polymers. 22nd& 23rd March 2013, NSRAC, Pondicherry university.

24. T.Kaliyappan, R.Keerthiga, S.Vijayalakshmi, P.Kandasamy, M.Sasidaranâ€Synthesis, Spectral and chelating properties of azo polymeric ligand derived from bis(2-hydroxy benzaldehydeethylenediimine) and diazonium salt of 4- amino phenolâ€ May 15th to 18th 2013, 3rd FAPS polymer congress and MACRO , Indian Institute of Science, Bangalore.

25. T.Kaliyappan, R.Keerthiga, S.Vijayalakshmiâ€Metal Uptaking Properties of Chelating Azo Polymeric Resin: Synthesis, Characterization and Biological Propertiesâ€ Feb 5th and 6th 2015, ICEWEST -2015, Presidency College, Chennai.