

Curriculum Vitae of Dr. Anitha Pius



1. Present Position : Associate Professor
2. Educational Qualifications : M.Sc., Ph.D.
3. Teaching and Research Experience : Teaching 18 years
Research 21 years
4. Research Guidance : Ph.D : 2 (submitted)
2 (currently working)

5. Research Projects undertaken

- **Major Research Project:** Assessment of Ecological/Environmental loss caused by tanneries in and around Dindigul (Rs.3.5 lakhs) sanctioned by the Loss of Ecology Authority of India (Prevention and payment of compensation).
- **Major Research Project:** Study on the contribution of fluoride through water and food to the prevalence of fluorosis and its interaction with selected elements (Rs.5.6 lakhs) sanctioned by University Grants Commission.
- **Minor Research Project:** A study on the levels of fluoride in commercially available and locally grown tea and coffee samples. (UGC, New Delhi)

6. List of Publications :

Papers in refereed Journals

- Transport of methyl methacrylate monomer through natural rubber
Jacob John, Sam kunchandy, Anil kumar, **Anitha Pius**, Saba Thomas, Journal of materials science, Springer (Published on line 22 oct 2009).

- Determination of calcium dose for minimizing fluoride bioavailability in rabbits. **Anitha Pius** and G.Viswanathan. Current Science. Vol:95,No.6, Sep 2008.
- Absolute bioavailability of fluoride from sodium fluoride. **Anitha Pius** and G. Viswanathan, Indian Journal of Environmental Protection. Vol.27, No.10, 911-914, 2007.
- Effect of certain macro and micro minerals on fluoride toxicity. G.Karthikeyan, **Anitha Pius** and G.Viswanathan. Indian Journal of Environmental Protection, Vol.25(7), 601-608, 2005.
- Fluoride adsorption studies of montmorillonite clay. G.Karthikeyan, **Anitha Pius** and G. Alagumuthu. Indian Journal of Chemical Technology, Vol.12, May 2005, pp.263-272.
- Kinetic and thermodynamic studies on adsorption of fluoride by dolomite. G.Karthikeyan, **Anitha Pius** and G. Alagumuthu. Indian Journal of Chemical Technology, Vol.9, Sep. 2002, pp.397-401.
- Calcium requirements for minimizing fluoride toxicity. G.Karthikeyan, **Anitha Pius** and B.V. Appa Rao. Bull. Chem. Soc. Ethiop. 13(1), 23-29, 1999.
- Role of Calcium in the amelioration of fluorosis - A case study. **Anitha Pius**, B.V. Appa Rao and G.Karthikeyan. Indian Journal of Environmental Health, 41(2), p.121-125, 1999.
- Contribution of fluoride in water and food to the prevalence of fluorosis in areas of Tamil Nadu in South India. G.Karthikeyan, **Anitha Pius** and B.V. Appa Rao. Fluoride, Vol.29, No.3, p.151-155, 1996.
- Ground water pollution due to tannery effluents in certain areas of Dindigul town of Tamil Nadu. B.V. Appa Rao, V. Gopal, G.Karthikeyan, **Anitha Pius** and S. Meenakshi. Indian Journal of Environmental Protection, Vol.11, No.8, August 1991.
- pH dependence of efficiency of activated alumina in defluoridation of water. S. Meenakshi, **Anitha Pius**, B.V. Appa Rao and G.Karthikeyan. Indian Journal of Environmental Protection, Vol.11, No.7, July 1991.

Papers in Conference Proceedings

- Fluoride levels of certain food stuffs and beverages in fluorotic and non fluorotic areas Anitha Pius and G.Viswanathan. Proc. of the International Conference on the Challenges and strategies for the sustainability of safe drinking water. P.140, October 2006.

- Effect of Calcium phosphate and calcium gluconate on the bioavailability of fluoride Anitha Pius and G.Viswanathan. Proc. of the International Conference on the Challenges and strategies for the sustainability of safe drinking water. P.168, October 2006.
- A study on the Deteriorating Quality of some major lakes in Bangalore and its Environmental implications. E.Jerome Xavier and Anitha Pius. Proc. of the International Conference on the Challenges and strategies for the sustainability of safe drinking water. P.131, October 2006.
- Quality Assessment of Ground water in an Industrial area of Bangalore. Charmaine Jerome and Anitha Pius. Proc. of the International Conference on the Challenges and strategies for the sustainability of safe drinking water. P.131, October 2006.
- A comparative studies on the adsorption of fluoride using naturally occurring clays and calcium carbonates. G.Karthikeyan, Anitha Pius and G.Alagumuthu. Proc. of the International Conference on the Challenges and strategies for the sustainability of safe drinking water. P.131, October 2006.
- Contribution of water and soil on the levels of fluoride in agricultural products. G.Viswanathan and Anitha Pius. Proc. of the National Seminar on Novel Trends in Synthesis, structure, reaction, dynamics and biological studies of Coordination compounds, March 3-4, 2005.
- Correlation studies of fluoride with alkalinity and hardness. G.Karthikeyan, Anitha Pius and S.Meenakshi. Proc. of the 26th WEDC conference in water, sanitation and hygiene: Challenges of the millennium, Dhaka, Bangladesh, 2000.
- A simple method for the determination of total fluoride intake. G.Karthikeyan, Anitha Pius and B.V.Appa Rao. Proc. of 2nd International workshop on fluorosis and defluoridation of drinking water. Addis Ababa, Ethiopia, November 1997.
- Prevalence of fluoride toxicity in the village of Bargur block of Dharmapuri District in Tamil Nadu. G.Karthikeyan, Anitha Pius and A.Shanmugasundarraaj. Proc. of the National seminar on the Water Quality Surveillance and Sustainability issues held at Gandhigram during 10-13 December 1997.
- Assessment of the magnitude of fluorosis and mapping of fluorotic zones using isopleths techniques. Anitha Pius, S.Meenakshi and G.Karthikeyan. Proc. of the Workshop on Water pollution, assessment and management, Hyderabad, 1997.
- Fluoride toxicity: Prevention and control. G.Karthikeyan, S.Meenakshi and

Anitha Pius. Science article published in Dinamalar, Tamil Daily, Chennai.

- Effect of Calcium intake in the alleviation of fluorosis. G.Karthikeyan, Anitha Pius and B.V.Appa Rao. Proc. of the Regional Symposium on water Treatment for domestic / industrial sector. Organized by Centre for Water Development and Management, Calicut, March 1996.
- Problem of potable water for rural community in the context of industrial pollution – A case study. G.Karthikeyan, Anitha Pius and B.V. Appa Rao. Proc. in the Second Water Congress held at Anna University, Chennai, April 1995.
- Fluoride toxicity in selected fluorotic environments. G.Karthikeyan, Anitha Pius and B.V.Appa Rao. Proc. of 1st Annual Conference on Role of NGO's in the conservation of environment convened by National Environmental Science Academy, New Delhi, August, 1995.
- Role of Calcium in reducing fluoride toxicity: A quantitative study in selected fluorotic and non fluorotic areas of Tamil Nadu. G.Karthikeyan, Anitha Pius and B.V.Appa Rao. Proc. of the 3rd Tamil Nadu Science Congress held at Pondicherry, December 1994.
- Fluoride toxicity: Role of both fluoride and calcium intake – A quantitative study in certain fluorotic and non fluorotic villages of Tamil Nadu, South India. G.Karthikeyan, Anitha Pius and B.V.Appa Rao. Proc. of the International Seminar on Environment Health and Development organized by International Geographical Union and Madurai Kamaraj University, January 1994.
- Fluoride in Ground Water – Mapping of fluoride affected villages. G.Karthikeyan, Anitha Pius and B.V.Appa Rao. Proc. of the International Conference on Affordable water supply and sanitation, organized by WEDC, London at Colombo in August 1994.
- Fluoride through water, food and total fluoride intake in certain fluorotic and non fluorotic villages of Tamil Nadu, South India. G.Karthikeyan, Anitha Pius, B.V.Appa Rao. Proc. of the XX International Society for Fluoride Research Conference (ISFR) held at Beijing, September 1994.
- Levels of fluoride and several other parameters in drinking water sources of certain fluorotic and non fluorotic areas of Tamil Nadu, South India. G.Karthikeyan, Anitha Pius and B.V.Appa Rao. Proc. of XX International Society for Fluoride Research Conference (ISFR) held at Beijing, September 1994.

7. Short term courses attended

- Orientation programme conducted by Academic Staff College of Madurai Kamaraj University, Madurai
- Refresher Course organized by Department of Chemistry of Gandhigram Rural Institute, Gandhigram in association with Academic Staff College

8. Seminar / Conferences organised

International:

International Conference on the Challenges and Strategies for the Sustainability of Safe Drinking Water ICSDW 2006, 25-27th October 2006.

National:

National seminar on Water Quality Surveillance and Sustainable Issues, 10-13th December 1997

9. Seminar / Conferences attended

International Conference	:	3
National Conference	:	8
Regional Conference	:	5

10. Membership in Scientific Bodies

Member of the Board of Studies in Chemistry, GRI
Member of the Academic Council, GRI