



P.E.S. College of Engineering, Mandya - 571401

(An Autonomous Institution, affiliated to VTU, Belagavi)

Faculty Profile

General

Name	Dr. Prashanth P A.
Designation,	Associate Professor
Department & Affiliated Institution	Department of Chemistry, P.E.S College of Engineering, Mandya – 571 401
Research Area	Chemical Kinetics & Material Science
Contact Number	+91 9663313591
Email ID	prsnthmysore@gmail.com



Academic Profile

Educational Qualifications

Degree	College	University	Year of Passing	% ge	Class
Ph. D	Department of Studies in Chemistry	University of Mysore, Mysuru	2007	-	-
M. Phil.,	Department of Studies in Chemistry	University of Mysore, Mysuru	1999	64	I - Class
M. Sc.,	Department of Studies in Chemistry	University of Mysore, Mysuru	1998	60	I - Class

Professional Experience

Organization and Department	Designation	Period	Total Experience
PES College of Engineering, Mandya.	Associate Professor	26-02-2018	Till date
Sai Vidya Institute of Technology, Bengaluru	Asst.Professor, Professor & Head	18-08-2008 to 24-02-2018	9 Years 5Months
Rajiv Gandhi Institute of Technology, Bengaluru	Asst.Professor & Head	13-06-2006 to 31-07-2008	2 Years 1Month

Reports on Academic and Research Activities

Academic Activities

Teaching Records (Details of courses taught)	Undergraduate: <i>Engineering Chemistry</i> -Chemical Energy Sources and Alternative fuels, Electrochemistry and Electrochemical cells, Battery technology, Corrosion science and Metal finishing, Material science and Polymer, Water pollution and Technology. <i>Engineering Chemistry Lab</i> - Quantitative analysis, <i>Industrial Chemistry</i> (Open Elective for 8 th semester)
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Research Guidance (Candidates Awarded / Pursuing Ph.D / M.Sc., Engg./ M.Phil)

Degree	Ph. D.	M.Sc., Engg.	M. Phil
Awarded	01	Nil	05
Pursuing	05	Nil	Nil

Sponsored Research Projects (List of Projects taken up /completed and funds receiver & funding sources)

Project Title	Project Funded by	Grants Sanctioned	Grants Received
	Nil		

Research Publications in Refereed Journals and Conferences/Symposia

Number of Publications in	National	International
Journals	34	3
Conferences/Symposia	2	2

Other Important Responsibilities Held in the College

1. Member – Board of studies	3. Member – Board of Examination
2. Coordinator – NBA processes	4. Coordinator – First year academics

LIST OF PUBLICATIONS

- [01] N P Bhagya, **P A Prashanth**, R Hari Krishna, B M Nagabhushana, H Ramachandra (2020). Enhancement of luminescence properties of SrTiO₃:Sm³⁺ nanophosphor by charge compensator Li⁺ ion. *Optical Materials*, Volume 107, Issue 3, Pages 110 – 115.
- [02] G S Arjun Kashyap, G K Prashanth, **P A Prashanth** & H G Nagendra (2020). Protocol for Medicine and Technology for COVID-19 - A Mini Review. *Asian Journal of Applied Science and Technology*, Volume 4, Issue 3, Pages 51 – 60.
- [03] K R Mohana, **P A Prashanth**, B M Nagabhushana, G M Krishnaiah, H G Nagendra, M S Dileep, G K Prashanth (2020). In vitro antibacterial and anticancer response of MgO nanoparticles prepared by solution combustion synthesis. *International Journal of Advanced Science and Technology*, Volume 29, Issue 8s, 2020, Pages 3668 – 3677.
- [04] H M Sathyananda, **P A Prashanth**, B M Nagabhushana, G M Krishnaiah, H G Nagendra, M S Dileep, G K Prashanth (2020). In vitro antibacterial, antioxidant and cytotoxicity response of CuO nanoparticles prepared by lemon juice and citric acid fueled solution combustion synthesis. *International Journal of Advanced Science and Technology*, Volume 29, Issue 8s, Pages 3678 – 3690.
- [05] Prashanth G K, **Prashanth P A**, Meghana Ramani, Ananda S, Nagabhushana B M, Krishnaiah G M, Nagendra H G, Sathyananda H M, Mutthuraju M, Rajendra Singh (2019). Comparison of Antimicrobial, Antioxidant and Anticancer Activities of ZnO Nanoparticles Prepared by Lemon Juice and Citric Acid Fueled Solution Combustion Synthesis. *BioNanoScience*, Volume 5, Issue 3, Pages 1-14.
- [06] N P Bhagya, **P A Prashanth**, R Hari Krishna, B M Nagabhushana, R S Raveendra (2017). Photoluminescence studies of Eu³⁺ activated SrTiO₃ nanophosphor prepared by solution combustion approach. *Optik - International Journal for Light and Electron Optics*, Volume 145, Pages 678-687.
- [07] G K Prashanth, **P A Prashanth**, S Ananda, G M Krishnaiah, H G Nagendra, H M Sathyananda, C Rajendra Singh, S Yogisha, S Anand, Y Tejabhiram (2017). Comparison of anticancer activity of biocompatible ZnO nanoparticles prepared by solution combustion synthesis using aqueous leaf extracts of *Abutilon indicum*, *Melia azedarach* and *Indigofera tinctoria* as biofuels. *Artificial cells, Nanomedicine and Biotechnology*, Volume 46, Issue 5, Pages 968 - 979.
- [08] Prashanth Gopala Krishna, **Prashanth Paduvarahalli Ananthaswamy**, Priyanka Trivedi, Vinita Chaturvedi, Nagabhushana Bhangi Mutta, Ananda Sannaiah, Amani Erra, Tejabhiram Yadavalli (2017). Antitubercular activity of ZnO nanoparticles prepared by solution combustion synthesis using lemon juice as bio-fuel. *Materials Science and Engineering: C*, Volume 75, Pages 1026-1033.
- [09] K V Brungesha, B M Nagabhushana, R Hari Krishna, M N K Harish, R S Raveendra, **P A Prashanth** (2017). Facile synthesis of CaAl₂O₄ nanoparticles by different fuel approach for Cr(VI) removal: a comparative study. *Desalination and Water Treatment*, Volume 77, Pages 331-341.
- [10] M Mahadeva Swamy, B M Nagabhushana, R Hari Krishna, Nagaraju Kottam, R S Raveendra, **P A Prashanth** (2017). Fast adsorptive removal of methylene blue dye from aqueous solution onto a wild carrot flower activated carbon: isotherms and kinetics studies. *Desalination and Water Treatment*, Volume 71, Pages 399–405.

- [11] R S Raveendra, **P A Prashanth**, R Hari Krishna, N P Bhagya, S Sathyanarayani, B M Nagabhushana (2017). Carbothermal Synthesis and Photoluminescence Characteristics of Pure Undoped ZnTiO₃ Nanocrystals. *Journal of Advanced Physical Sciences*, Volume 1, Issue 1, Page 1-3.
- [12] Prashanth Gopala Krishna, **Prashanth Pauvarahalli Ananthaswamy**, Veena Shivaprasad, Nagabhushana Bhangi Mutta, Krishnaiah Godayyanadoddi Mariyappa, Rajendra Singh, Sathyananda Hulivana Manchegowda, Purnimaa Sasikumar Dixit (2017). Comparison of antimicrobial and anticancer activity of ZnO nanoparticles prepared using different precursors by hydrothermal synthesis. *Journal of Chemical and Pharmaceutical Sciences*, Volume 10, Issue 1, Page 192-197.
- [13] Prashanth Gopala Krishna, **Prashanth Paduvarahalli Ananthaswamy**, Nagabhushana Bhangi Mutta, Manoj Gadewar, Utpal Bora (2017). In vitro antibacterial and anticancer studies of ZnO nanoparticles prepared by sugar fueled combustion synthesis. *Advanced Materials Letters*, Volume 8, Issue 1, Pages 24-29.
- [14] R S Raveendra, **P A Prashanth**, B M Nagabhushana (2016). Synthesis and spectral characterization studies of bio-active cobalt (II) complexes with Clomipramine ligand. *Journal of Advanced Chemical Sciences*, Volume 2, Issue 3, Page 334-336.
- [15] Prashanth Gopala Krishna, **Prashanth Paduvarahalli Ananthaswamy**, Tejabhiram Yadavalli, Nagabhushana Bhangi Mutta, Ananda Sannaiah, Yogisha Shivanna (2016). ZnO nanopellets have selective anticancer activity. *Materials Science and Engineering: C*, Volume 62, Page 919-926.
- [16] G K Prashanth, **P A Prashanth**, B M Nagabhushana, S Ananda, H G Nagendra, C Rajendra Singh (2016). In vitro antimicrobial, antioxidant and anticancer studies of ZnO nanoparticles synthesized by precipitation method. *Advanced Science Engineering and Medicine*, Volume 8, Issue 4, Page 306-313.
- [17] N P Bhagya, **P A Prashanth**, R S Raveendra, S Sathyanarayani, S Ananda, B M Nagabhushana, H. Nagabhushana (2016). Adsorption of hazardous cationic dye onto the combustion derived SrTiO₃ nanoparticles: Kinetic and isotherm studies. *Journal of Asian Ceramic Societies*, Volume 4, Issue 1, Pages 68-74.
- [18] R S Raveendra, P V Krupakara, **P A Prashanth**, B M Nagabhushana (2016). Enhanced mechanical properties of Al-6061 metal matrix composites reinforced with α -Al₂O₃ nanoceramics. *Journal of Material Science & Surface Engineering*, Volume 4, Issue 7, Page 483-487.
- [19] R S Raveendra, **P A Prashanth**, B M Nagabhushana (2016). Study on the effect of fuels on phase formation and morphology of combustion derived α -Al₂O₃ and NiO nanomaterials. *Advanced Material Letters*, Volume 7, Issue 3, Page 216-220.
- [20] G K Prashanth, **P A Prashanth**, Utpal Bora, Manoj Gadewar, B M Nagabhushana, S Ananda, G M Krishnaiah, H M Sathyananda (2015). In vitro antibacterial and cytotoxicity studies of ZnO nanopowders prepared by combustion assisted facile green synthesis. *Karbala International Journal of Modern Science*, Volume 1, Issue 2, Page 67-77.
- [21] **P A Prashanth**, R S Raveendra, R Hari Krishna, S Ananda, N P Bhagya, B M Nagabhushana, K Lingaraju, H Raja Naika (2015). Synthesis, characterization, antibacterial and photoluminescence studies of solution combustion derived α -Al₂O₃ nanoparticles. *Journal of Asian Ceramic Societies*, Volume 3, Issue 3, Page 345-351.
- [22] Brungesh K V, Nagabhushana B M, Raveendra R S, Hari Krishna R, **Prashanth P A**, and Nagabhushana H (2015). Adsorption of Cr(VI) from Aqueous Solution onto a Mesoporous

- [23] Rajanabilaguli Sannegowda Raveendra, **Paduvarahalli Aananthaswamy Prashanth**, Bhangi Mutta Nagabhushana (2015). Glycine assisted carbothermal approach for the synthesis of biologically important silver nanoparticles and its characteristic studies. International Journal of Current Biotechnology, Volume 3, Issue 7, Page 1-5.
- [24] R S Raveendra, **P A Prashanth**, B M Nagabhushana (2015). Synthesis, characterization of combustion derived Zn_2TiO_4 nanocrystals and its application to adsorption of azo dye. International journal of advanced scientific and technical research, Volume 5, Issue 5, Page 128-137.
- [25] N P Bhagya, **P A Prashanth**, R S Raveendra, B M Nagabhushana (2015). Adsorptive removal of Congo red dye using nano strontium titanate: A kinetic approach. International Journal of ChemTech Research, Volume 8, Issue 4, Page 1829-1835.
- [26] R S Raveendra, **P A Prashanth**, B R Malini, B M Nagabhushana (2015). Adsorption of Eriochrome Black-T azo dye from aqueous solution on low cost activated carbon prepared from *Tridax procumbens*. Research Journal of Chemical Sciences, Volume 5, Issue 3, Page 9-13.
- [27] R S Raveendra, **P A Prashanth**, R Hari Krishna, N P Bhagya, B M Nagabhushana, Raja Naika, K Lingaraju, H Nagabhushana, B Daruka Prasad (2014). Synthesis, structural characterization of nano $ZnTiO_3$ ceramic: An Effective azo dye adsorbent and antibacterial agent. Journal of Asian Ceramic Societies, Volume 2, Issue 4, Page 357–365.
- [28] Prashanth G K, Sathyananda H M, **Prashanth P A**, Nagabhushana B M, Nagendra H G, Rajendra Singh C (2014). Antifungal Studies of ZnO Nanopowder Prepared by Solution Combustion Method. International Journal of Latest Technology in Engineering, Management & Applied Science, Volume 3, Issue 5, Page 71-75.
- [29] **P A Prashanth**, S Ananda, K S Rangappa, M N Kumara (2014). Ru (III) chloride-catalysed oxidation of some α -amino acids by sodium-N-chloro-p-toluenesulfonamide (CAT) in hydrochloric acid medium: Mechanistic investigation and kinetic modelling. Journal of Molecular Catalysis A: Chemical, Volume 383 - 384, Page 203-208.
- [30] Sathyanarayani, Abida Begum, S Hari Krishna, S Vidhya, **Prashanth P A**, Raveendra R S Bhagya N P (2013). Enhancement of Inhibitor Efficiency of Atropine Methochloride in Controlling Corrosion of the Mild Steel in Sulphuric Acid. International Journal of Science Research, Volume 1, Issue 4, Page 335-341.
- [31] **P A Prashanth**, N C Sandhya, B K Kempegowda, D G Bhadregowda, K Mantelingu, S Ananda, Kanchugara Koppal S Rangappa, Manikyanahally N Kumara (2012). β -Cyclodextrin catalyzed oxidation of some α -amino acids with chloramine-T in alkaline medium: Kinetics and mechanistic studies. Journal of Molecular Catalysis A: Chemical, Volume 353, Page 111-116.
- [32] R S Raveendra, **P A Prashanth**, B Daruka Prasad, S Chandra Nayaka, G P Suresha, B M Nagabhushana, H Nagabhushana, N P Bhagya (2012). Synthesis, Characterization and Antibacterial Activity of Zinc Ferrite nanopowder. International Journal of Science Research, Volume 1, Issue 4, Page 543–547.
- [33] **P A Prashanth**, B K Kempe gowda (2011). Kinetics of Oxidation of α - Amino acids by Tripropylammonium fluorochromate (TriPAFC) in Acid medium. International Journal of Chem Tech Research, Volume 3, Issue 4, Page 1906-1913.

- [34] B K Kempe gowda, **P A Prashanth**, Shankaregowda, S Ananda (2011). Kinetics of oxidation of Aliphatic Primary amines by cab in alkaline medium catalyzed by β -Cyclodextrin. International Journal of Chemistry Research, 2, Issue 1, Pages 8-13.
- [35] A G Gopala Krishna, **P A Prashanth**, A Pragasam, K V Raghavendra, S Khatoon (2003). Unsaponifiable matter and oxidative stability of commercially produced Indian rice bran oils. Journal of Food Lipids. Volume 10, Issue 4, Page 329-340.
- [36] A G Gopala Krishna, **P A Prashanth**, P M Shiela (2002). Antioxidant effect of Red Chilli extract in groundnut oil. Beverage and food world, Volume 29, Issue 1, Page 65.
- [37] **P A Prashanth**, K Mantelingu, A S A Murthy, N Anitha, K S Rangappa (2001). Kinetics and mechanism of oxidation of hexoses by bromamine-T in alkaline medium. Journal of the Indian Chemical Society, Volume 78, Issue 5, Pages 241-245.

PUBLICATIONS IN CONFERENCES PROCEEDINGS/JOURNALS

- [1]G K Prashanth, **P A Prashanth**, G M Krishnaiah, B M Nagabhushana, H G Nagendra, H M sathyananda (2018). Antibacterial and cytotoxicity studies of ZnO nanoparticles prepared by bio-fueled solution combustion synthesis. International Journal of Scientific Research and Review, Volume 7, Issue 9, Pages 487- 491.
- [2] R S Raveendra, **P A Prashanth**, S Sathyanarayani, B M Nagabhushana (2018). NiO nanoparticles and its antibacterial activity. International Journal of Scientific Research and Review, Volume 7, Issue 9, Pages 492- 499.
- [3] R S Raveendra, **P A Prashanth**, B M Nagabhushana, H Nagabhushana (2013). ZnO-TiO₂ nano-composite by hydrothermal method: structure, morphology, and photocatalytic properties. National Conference proceedings. ISBN No: 978-81-928203-2-3. Pages 48-52.
- [4] R S Raveendra, **P A Prashanth**, B M Nagabhushana (2015). Synthesis, characterization of combustion derived Zn₂TiO₄ nanocrystals and its application to adsorption of azo dye. International journal of advanced scientific and technical research (IJST), Volume 5, Issue 5, Pages 128-137.