

CURRICULUM VITAE

Dr. VASANTHA KUMAR S

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OBJECTIVE

Assistant Professor position in procurement where excellent technical skills and my professional experiences will add value to operation.

EDUCATIONAL DETAILS

Course	Name of College	University	Marks secured	Subjects	Year of passing examination
B.Sc	Yuvaraj's College, Mysore	University of Mysore	74.84	PCM	2008
M.Sc	DOS in Chemistry Manasagangothri	University of Mysore	61.5	Chemistry	2010
Ph.D	Defence Food Research Laboratory (DFRL-DRDO) Mysore	Bharathiar University, Coimbatore	DRDO	Chemistry	2020

M.Sc. Dissertation Work

“Synthesis of Amino Acid Conjugated Benzisoxole and Piperizene Derivatives of Biological Interest” under the guidance of Prof. D.Channe Gowda, DOS in Chemistry, Manasagangothri, Mysore.

Ph.D topic

“Isolation and Characterization of Starch Nanocrystals from Various Natural Sources and Development of Food Packaging Applications”

Ph.D Guide Dr. V A Sajeevkumar
Scientist 'F'
Food Engineering and Packaging division
Defence Food Research Laboratory
Siddarthanagar, Mysore-11 Karnataka

PROFESSIONAL EXPERIENCE

COLLEGE/INSTITUTE	DESIGNATION	YEAR	EXPERIENCE
Vidya Vikas Institute of Technology, Mysore	Project Fellow	Aug 2010 to June 2014	4 Years
Vidyaashram pu college, Mysore	Lecturer	July 2010 to June 2012	2 Years (PT)
GSSS PU College, Siddarthanagar, Mysore	Lecturer	June 2012 to June 2014	2 Years (PT)
DFRL-DRDO, Siddarthanagar, Mysore	Research Fellow	June 2014 to June 2018	4 Years
Parivarthana pu college Srirangapatna	Senior Lecturer	June 2017 to Feb 2021	3+ Year
DOS in Chemistry, UOM Manasagangothri, Mysore	Guest Faculty	Feb 2021 to till date	0.5+ Years

CONFERENCE ATTENDED

1. **S. Vasantha kumar** Faculty Development Programme on testing and characterization of polymeric materials, 15-20 Sept 2014, SJCE, Mysore
2. **S. Vasantha kumar** National conference on Batteries, Biofuels and the Sustainable Energy Landscape, Nov 2014, conducted in SJCE, Mysore
3. **S. Vasantha kumar** and V A Sajeevkumar. Preparation and characterization of rice starch nanocrystals / nanosilver /PVA nanocomposites has been presented in ICFOST – XXIII at NIFTEM Campus, Kundli, Haryana on 13th-14th December 2014.
4. **S. Vasantha kumar** and V A Sajeevkumar. Preparation and characterization of starch and starch nanocrystals from different natural sources has been presented in International Symposium on Chemical Biology at University of Mysore, Mysore on 18th-19th February 2015.

5. **S. Vasantha kumar** and V A Sajeevkumar. Physico-mechanical, morphological, thermal and barrier properties of cross linked PVA / TA nanocomposites films has been presented in 103rd Indian Science Congress at University of Mysuru, Mysuru on 3rd - 7th January 2016.
6. **S. Vasantha kumar** and V A Sajeevkumar. Enhancing properties of PVA film using Sorghum starch nanocrystals has been presented in International Conference on Advanced Materials and Technology at SJCE, Mysore on 26th-28th May 2016.
7. **S. Vasantha kumar** and V A Sajeevkumar. A study of superior physico - mechanical and thermal properties of PVA with wheat starch nanocrystals has been presented in International Conference on Science & Technology: Future Challenges & Solutions at Vijnana Bhavan, University of Mysore, Mysore on 8th-9th August 2016.
8. **S. Vasantha kumar** Virtual Conference on Recent Advances in Chemical Science and Medicinal Chemistry, On 14th March, 2022. Department of Studies in Organic Chemistry, Manasagangotri, Mysuru-570006
9. **S. Vasantha kumar** Design and development of self learning material for open distance learning conducted by KSOU. Nov 15 th – 17 th 2021.
10. **S. Vasantha kumar** NEP – 2020 – Changed the scenario of teacher education.
11. **S. Vasantha kumar** Cloud computing & computer graphics, 26 th March 2022.
12. **S. Vasantha kumar** National symposium on “Trends in drug discovery” Organized by Vijnana Bhavan, DOS in Organic Chemistry, University of Mysore, Manasagangothri, Mysore. 26 th February 2022.
13. **S. Vasantha kumar** One day national symposium on “Molecular Biology of the Cell” Organized by DOS in Molecular Biology, University of Mysore, Manasagangothri, Mysore. 4 th March 2022.
14. Gangadhara C, **Vasantha Kumar S**, Ningappa C. Synthesis and characterization of cellulose and cellulose nanocrystals from sugar cane bagasse and development of dye - sensitized solar cell fabrication by using their sources. 22nd National Conference on Solid State Nuclear Track Detectors and Their Applications (SSNTD-22) November 18-20, 2022.

PAPERS & PUBLICATIONS

1. **S Vasantha Kumar**, V A Sajeevkumar and Sunny Kumar. The influence of bound water on the FTIR characteristics of starch and starch nanocrystals obtained from selected natural sources. Starch – Starke, 2019,71, 1700026 (1 - 9).

2. **S. Vasantha Kumar**, V.A. Sajeevkumar*, Johnsy George, and Sunny Kumar. Enhancing Properties of Polyvinyl Alcohol Film using Sorghum Starch Nanocrystals. Defence Life Science Journal, 2017, 2, 169-177.
3. **S. Vasantha Kumar**, Johnsy George, V. A. Sajeevkumar. PVA Based Ternary Nanocomposites with Enhanced Properties Prepared by Using a Combination of Rice Starch Nanocrystals and Silver Nanoparticles. Journal of Polymers and the Environment, 2018, 26, 3117–3127.
4. Yogananda.K.C, Easwaramoorthi Ramasamy, Sajeev Kumar, **S Vasantha Kumar**, Navya Rani. M, Dinesh Rangappa, Novel Rice Starch based aqueous gel electrolyte for Dye Sensitized Solar Cell Application, Elsevier, Materials today Proceedings, 2017, 4, 11.
5. Yogananda K C , Eswaramoorthy, **S Vasantha kumar**, Dinesh Rangappa,"Synthesis, Characterization, and Dye-sensitized solar cell fabrication using Potato starch and Potato starch nanocrystal based gel electrolytes". Ionics. Ionics volume 25, pages6035–6042 (2019).
6. Yogananda K C, **Vasantha Kumar S**, Easwaramoorthi Ramasamy, Dinesh Rangappa."Ragi starch (finger millet) based gel electrolytes for Dye Sensitized Solar Cell application" Bulletin of Materials Science volume 44, Article number: 211 (2021).
7. Nagaveene V. M.Ningappa C., **S Vasantha Kumar**, Daraka Prasad B, Suresh Kumar H M. Comparative study of Thermo luminescence, Optical absorption and Micro hardness in (KCl) 0.9-x (KBr) x (NaI) 0.1 doped with lithium sulphate. Journal of Scientific Research, 65,1,2021.
8. **S Vasantha Kumar**, Naveen S , Ningappa C and Yogananda K C. Superior thermo-mechanical, optical and barrier properties of PVA – nano composites films using rice starch nanocrystals. international journal of innovative science, engineering and technology. 8, 8, 2021.
9. **S Vasantha Kumar**, and V A Sajeevkumar. Preparation of crosslinked PVA films: a study of mechanical, thermal and barrier properties. (Applied to Indian patent)
10. Nagaveene V. M. Ningappa C, **Vasantha Kumar S**, Naveen S, Gopala J. Comparative study of Thermo luminescence, Optical absorption and Micro hardness in (KCl) 0.9-x (KBr) x (NaI) 0.1 doped with lithium sulphate. Gradiva Review Journal 8, (2), 2022.
11. Noor Fathima Anjum, Dhivya Shanmugarajan, **Vasanth Kumar Shivaraju**, B. R. Prashantha Kumar. Novel derivatives of eugenol as potent anti-inflammatory agents via

PPAR γ agonism: rational design, synthesis, analysis, PPAR γ protein binding assay and computational studies. RSC Advances, 2022, 12, 16966.

12. M. Mahadevaswamy, Srilatha Rao Paniyadi, Chandrashekarappa, KhaledGiasin, **Vasanth Kumar Shivaraju**, Malliarjuna B. ManoilLinul. Plant-mediated synthesis of NiO(II) from Lantana camara flowers: a study of photo-catalytic, electrochemical, and biological activities. Journal of Materials Research and Technology, 19, 2022, 4543-4556.
13. Namburu Lalitha Naishima, MS, Syed Faizan, **Vasanth Kumar Shivaraju**, Prashantha Kumar BR, Design, Synthesis, Analysis, Evaluation of Cytotoxicity Against MCF-7 Breast Cancer Cells, 3D QSAR Studies and EGFR, HER2 Inhibition Studies on Novel Biginelli 1,4-Dihydropyrimidinones. (Article in press: Manuscript Number: MOLSTRUC-D-22-05608)
14. **S Vasantha Kumar**, V A Sajeevkumar and R Rajamanikkum. Augmented properties of polyvinyl alcohol film using ragi starch nanocrystals – A cost effective filler from natural source. (In press)
15. **S Vasantha Kumar**, and V A Sajeevkumar. Development and Characterization of PVA Nanocomposites films: A study of Superior Physico-Mechanical and Thermal Properties of PVA film using Wheat Starch Nanocrystals. (communicated)

TECHNICAL SKILLS

- ❖ Operation of XRD, FTIR, FT-RAMAN
- ❖ Operation of STM, AFM SEM
- ❖ Operation of UV-VIS Spectrometer
- ❖ Operation of Particle size analyzer.
- ❖ Operation UTM, OTR, WVTR, etc

PERSONAL DETAILS

Date of Birth : 28-07-1986
Nationality : Indian
Languages Known : English, Hindi, Kannada

Date:

Place: Mysore

Yours Faithfully

(Dr Vasantha Kumar S)