



Name: Dr. Smitha Sasidharan
Designation: Assistant Professor
Department: Chemistry
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Residential Address : Karadiyil, Thruckothamangalam, Puthuppally, Kottayam
Date of Entry into Service: 10/10/2012
Date of Retirement: 31/3/2035
Qualifications: MSc. PhD, PDF
Area of Interest: Nanomaterials
Subjects Handled: Inorganic Chemistry, Physical Chemistry
Field of Research: Aerogels, Coatings, Magnetic Nanomaterial
Experience: 9 years in teaching both UG and PG
Memberships in Learned Bodies/Societies: Member of Academy of Chemistry Teachers
Extension Activities: IQAC Coordinator, Research Committee Coordinator

Papers Published:

1. S. Smitha, V. S. Haseena, T. N. Narayanan, A. P. Reena Mary, P. M. Ajayan, J. Puthumana, A. A. Aziz, Fluorescent Superparamagnetic Iron Oxide Core–Shell Nanoprobes for Multimodal Cellular Imaging, **Materials Express**, 2, (2012) 265
2. **S. Smitha**, P. Shajesh, K. G. K. Warriar, Investigations on the Effect of Experimental Parameters on the Porosity Features of Silica Aerogels Synthesized at Ambient Drying Conditions, **Materials Chemistry and Physics**, 131, (2011) 507.
3. P. Shajesh, **S. Smitha**, P. R. Aravind and K. G. K. Warriar, *Effect of 3-glycidoxypropyltrimethoxysilane Precursor on an Ambient Pressure Process for Silica Aerogels*, **Journal of Sol-Gel Science and Technology**, 50 (2009) 353
4. P. Shajesh, **S. Smitha**, P. R. Aravind and K. G. K. Warriar, *Synthesis, structure and properties of cross linked $R(\text{SiO}_{1.5})/\text{SiO}_2$ ($R=3\text{-glycidoxypropyl}$) Porous Organic Inorganic Hybrid Networks dried at Ambient Pressure*, **Journal of Colloid and Interface Science**, 336 (2009) 69
5. **S. Smitha**, P. Shajesh, P. Mukundan, K. G. K. Warriar, *Synthesis of mesoporous hydrophobic silica microspheres through a modified sol–emulsion–gel process*, **Journal of Sol-Gel Science and Technology**, 48 (2008) 356.
6. **S. Smitha**, P. Shajesh, P. Mukundan, K. G. K. Warriar, *Sol-gel synthesis of biocompatible silica-chitosan hybrids and hydrophobic coatings*, **Journal of Materials Research**, 23 (2008) 2053.

7. **S. Smitha**, P. Mukundan, K. G. K. Warriar, *Synthesis of Biocompatible Hydrophobic Silica-Gelatin Nano Hybrid by Sol-Gel Process*, **Colloids and Surfaces B: Biointerface**, 55 (2007) 38.
8. **S. Smitha**, P. Shajesh, P. Mukundan, K. G. K. Warriar, *Antiwetting Silica-Gelatin Nanohybrid And Transparent Nano Coatings Synthesised Through An Aqueous Sol-Gel Process*, **Journal of Sol-Gel Science and Technology**, 42 (2007) 157.
9. **S. Smitha**, P. Mukundan, P. Krishna Pillai, K. G. K. Warriar, *Silica-Gelatin Bio-Hybrid and Transparent Nano Coatings through Sol-Gel Technique*, **Materials Chemistry and Physics**, 103 (2007) 318.
10. **S. Smitha**, P. Shajesh, P. R. Aravind, S. Rajesh Kumar, P. Krishna Pillai, K. G. K. Warriar, *Effect of aging temperature on the porosity characteristics of subcritically dried silica aerogels*, **Journal of Porous Materials**, 14 (2007)1.
11. **S. Smitha**, P. Shajesh, P. R. Aravind, S. Rajesh Kumar, P. Krishna Pillai, K. G. K. Warriar, *Effect of Aging Time and Concentration of Aging Solution on the Porosity Characteristics of Subcritically Dried Silica Aerogels*, **Microporous and Mesoporous Materials**, 91 (2006) 286.
12. Parakkulam Ramaswamy Aravind, Palantavida Shajesh, **Sashidharan Smitha**, Poothayil Mukundan, Krishna Gopakumar Warriar, *Non-Supercritically Dried Silica-Alumina Aerogels-Effect of Gelation pH*, **Journal of the American Ceramic Society**, 91 (2008) 1326.

Major Research Projects: DST Fast Track project entitled " Development of surface engineered multifunctional super paramagnetic iron oxide nanoparticles for biological application." Registration No:CS-366/2011-

Orientation Courses Attended: 2/11/2017 to 29/11/17, Academic Staff College, Kerala University

Refresher Courses Attended: 1) Material Science, Academic Staff College, Kerala University
From 29/11/2016 to 19/12/16

Programmes Organised:

1. Conducted seminar on Ozone Day awareness during 25-26th September 2017 sponsored by KSCSTE at SN College Kollam
2. Conducted Two Day Workshop on "Research Methodology, Writing Practices, Language and Soft Skills" held during 27-28 March 2017 sponsored by KSCSTE at SN College Kollam
3. Conducted seminar on Ozone Day awareness on 25th November 2017 sponsored by KSCSTE at SN College Chengannur.
4. Conducted Two Day Workshop on "Computational Modeling and Drug Design" sponsored by KSCSTE at SN College Chengannur on 4&5 April 2018
5. Conducted an International Webinar on "Practicality of Studying Science" on 25th August 2020

FDP's attended

1. Online FDP at SNM College, Ernakulam on Research and Carrier from 19th to 23rd October 2020.
2. Online FDP at Sree Narayana College, Chengannur on Moodle Learning Management System from 25/5/20 to 29/5/20
3. Short term Faculty Development Programme on Digital content management on e-learning from June 13th to June 19th of 2021 organized by Sree Narayana College for Women,, Kollam
4. Online FDP at DB College Towards a Digital Era of Teaching and Learning from August 12-18 , 2020
5. Faculty Development Programme organized by PG Department of Chemistry of Vimala College "A Century of Polymer Science" from 17-21 August 2020

Paper presentation in Seminars/Conferences

1. Presented a paper entitled "Functionalized super para magnetic nanoparticles for biomedical applications on International Symposium On Supramolecular And Photochemistry (SPC-2020) January 17, 2020 at SD College Alappuzha
2. Presented a paper entitled "Functionalized Magnetic Nanoparticles For Chemotherapeutic Applications" at New horizons in Cancer Treatment and Prevention: From Bench to Bedside organised by SN College Kollam on 16th & 17th March 2018
3. Presented a paper entitled Synthesis Of Superparamagnetic Iron Oxide Nanoparticles And Its Functionilization Using A Chemotherapeutic Drug at Recent Trends in Advanced Chemistry Research - RTACR-2017, on May 25th & 26th at SN College Kollam

Academic Responsibilities Undertaken: Invigilation, Valuation, Question paper setting

Duties Performed at College: PTA Secretary, Tutorial Committee Coordinator