PROFILE OF Dr. SRUTHI ANN ALEX

Name	: **Dr. SRUTHI ANN ALEX**
Date of Birth & Age	: 13-10-1990, 31 Years
Academic Qualifications	: M.Tech. (5 yrs Integrated), Ph.D.
Teaching Experience	: 2.5 Years
Research Experience	: 7 Years
Present Postion	: Teaching Fellow, Centre for Nanoscience & Technology Anna University, Chennai-600 025.

Education:

Degree	Institution	Period	Branch	Class
Ph.D.	Vellore Institute of Technology (VIT), Vellore	Feb 2014 – Apr 2019	Nanobiotechnology	By Thesis
Integrated M. Tech. (5 years)	Shanmuga arts, Science, Technology, Research Academy, Thanjavur	July 2008 – July 2013	M. Tech Medical Nanotechnology; B-Tech Bio-Engineering	I Class with Distinction

Professional Career:

Position	Period	Institution	Nature of work
Teaching Fellow	Aug 2019 – Till Date	Centre for Nanoscience and Technology, Anna University	Research & Teaching
Senior Research Fellow (CSIR)	Apr 2017 – Apr 2019	Vellore Institute of Technology (VIT), Vellore	Research
Project Fellow in UGC-DAE-CSR project	Jan 2014 – Mar 2017	Vellore Institute of Technology (VIT), Vellore	Research
Researcher (Semester abroad progamme)	Jan 2013 – Jul 2013	Collaboration of MIT, Harvard (Health Sciences and Technology) and Brigham and Women's hospital, USA.	Research

Research Interest:

- *Nanobiosensors*
- *Environmental nanotechnology*
- *Drug delivery*
- *Nanobiotechnology*

Other Academic Credentials.

Number of Publications in International/National Journals:		**37**
Papers presented in International conferences	:	**1**
International/National Workshop/Conference Organized	:	**1**
Member-Editorial Board	:	**2**
Number of M.Tech students guided	:	**4**

International Research Recognition:

Total Impact factor: 150.839

Research Citation: 608 *h*-Index: 14 (Google Scholar)

Research Citation: 514 *h*-Index: 13 (www.scopus.com)

Courses handled for M.Tech. Programme:

- **Synthesis and Applications of Nanomaterials**
- **Biological Nanostructures**
- **Nano Biosensors**
- **Processing and Properties of Nanostructured Materials**
- **Nanomaterial Synthesis Lab**
- **Physicochemical Characterization Lab**

Awards, Recognition and achievements:

- Qualified in **UGC-NET** exam for **Assistant Professorship** with **98.2** percentile.
- **TOEFL** score: **105/120**; **GRE** score of **304/340**.
- Obtained **Research Award** from **VIT** for publications in 2014, 2015, 2016, and 2017.
- Obtained **Certificate of Merit** in the **SASTRA** exams held; secured **second** place in Nov 2008 and **third** place in Apr 2009.
- Completed "5-day Online FDP on Universal Human Values" for Deeksharambh (Student Induction Program)" organized by NIT Patna during 23–27 Nov 2020.

Selected papers:

1. "Studies on photocatalytic degradation of acid violet 7 dye by green ZnO@Fe_3O_4 chitosan–alginate nanocomposite synthesized using *Camellia sinensis* extract" N. Roy, **S.A. Alex**, N. Chandrsekaran, K. Kannabiran, A. Mukherjee, ***Journal of Environmental Management***, 303 (2022), 114128.
2. "Toxicity evaluation of nano-TiO_2 in the presence of functionalized microplastics at two trophic levels: algae and crustaceans" V. Thiagarajan, Alex, **S.A. Alex**, R. Seenivasan, N. Chandrasekaran, A. Mukherjee S.A. Alex, ***Science of the Total Environment***, 784 (2021) 147262.
3. "In-situ coating of Fe/Pd nanoparticles on sand and its application for removal of tetracycline from aqueous solution" K.V.G. Ravikumar, H. Kubendiran, R. Gupta, A. Gupta, P. Sharma, **S.A. Alex**, C. Natarajan, B. Das, A. Mukherjee, ***Journal of Water Process Engineering***, 36 (2020) 101400.
4. "Bimetallic gold nanorods with enhanced biocorona formation for doxorubicin loading and sustained release" D. Chakraborty, L. Mohan, **S.A. Alex**, N. Chandrasekaran, A. Mukherjee, ***Biomaterial Science***, 7 (2019) 63–75. ***[Featured in the outside front cover]***

5. "Using gold nanorod-based colorimetric sensor for determining chromium in biological samples" **S.A. Alex**, N. Chandrasekaran, A. Mukherjee, ***Journal of Molecular Liquids***, 264 (2018) 119–126.
6. "Impact of gold nanorod functionalization on biocorona formation and their biological implication" **S.A. Alex**, N. Chandrasekaran, A. Mukherjee, ***Journal of Molecular Liquids***, 248 (2017) 703–712.
7. "Significance of surface functionalization of Gold Nanorods for reduced effect on IgG stability and minimization of cytotoxicity" **S.A. Alex**, S. Rajiv, S. Chakravarty, N. Chandrasekaran, A. Mukherjee, ***Materials Science and Engineering C: Materials for Biological Applications***, 71 (2017) 744–754.
8. "A comprehensive investigation of the differential interaction of Human Serum Albumin with Gold nanoparticles based on the variation in morphology and surface functionalization" **S.A. Alex**, D. Chakraborty, N. Chandrasekaran, A. Mukherjee, ***RSC Advances***, 6 (2016) 52683–52694.
9. "State-of-the-art strategies for the colorimetric detection of heavy metals using gold nanorods based on aspect ratio reduction" **S.A. Alex**, N. Chandrasekaran, A. Mukherjee, ***Analytical Methods***, 8 (2016) 2131–2137. ***[Featured in the outside front cover]***
10. "Combined toxicity of two crystalline phases (anatase and rutile) of Titania nanoparticles towards freshwater microalgae: *Chlorella* sp." V. Iswarya, M. Bhuvaneshwari, **S.A. Alex**, S. Iyer, G. Chaudhuri, P.T. Chandrasekaran, G.M. Bhalerao, S. Chakravarty, A.M. Raichur, N. Chandrasekaran, A. Mukherjee, ***Aquatic Toxicology***, 161 (2015) 154–169. ***[Enlisted in Top 20 Articles in the Domain of BioMedLib, Since 2014]***

BOOK CHAPTERS

1. **Alex, S.A.**, Chakraborty, D., Chandrasekaran, N., Mukherjee, A. "Protein Corona: Applications and Challenges" In 'Nanoparticle-Protein Corona: Biophysics to Biology' In Issues in Toxicology No. 40, Edited by Ashutosh Kumar and Alok Dhawan, ISBN: 978-1-78801-853-1, Chapter 10, pp. 265–286, 2019, **RSC**.
2. Paul, I.E., Kumar, D.N., Rajeshwari, A., **Alex, S.A.**, Karthiga, D., Raichur, A.M., Chandrasekaran, N., Mukherjee, A., "Detection of food contaminants by gold and silver nanoparticles" In Nanobiosensors in Nanotechnology in the Food Industry, Edited by Alexandru Mihai Grumezescu, ISBN: 978-0-12-804301-1, Volume 8, pp. 129–159, 2017, **Elsevier**.