

Curriculum Vitae – Dr. Anas. S

Address/Professional: Associate Professor

Department of Chemistry
T.K.M. College of Arts and Science
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Address/ Permanent: Nellimoottil Thekkathil

Chemmanthoor South
Punalur, Kollam
Kerala, India 691305

Teaching Experience:

September 2012- September 2024

Assistant Professor, Dept. of Chemistry, T. K. M. College of Arts and Science, Kollam.

September 2024- Tilldate

Associate Professor, Dept. of Chemistry, T. K. M. College of Arts and Science, Kollam.

Academic Details: Post-Doctoral (2011- 2012)

Northwestern University and Argonne National Lab, USA

Project: “Semiconductor nanocomposites to harvest light energy to drive CO₂ reduction and photocatalytic oxidation”

Advisor: Prof. Kimberly A. Gray

Ph.D. Degree in Chemistry (2006-2011)

NIIST-Thiruvananthapuram, Kerala, India

(Registration: Kerala University)

Advisor: Dr. S. Ananthakumar, NIIST, Trivandrum

Thesis: “ZnO Nanostructures and Nanocomposites for Functional and ‘Smart’ Varistor Applications”

M.Sc. Degree in Chemistry (2002-2004), First Class

Kerala University, Kerala, India

Thesis: “Synthesis and Characterization of Bismuth-Rare Earth Oxide Pigments”

Advisors: Dr. M.L.P. Reddy & Dr. P. Prabhakar Rao, NIIST

B.Sc. Degree in Industrial Chemistry (1999-2002)

(3 Main Courses), First Class with distinction in Industrial Chemistry, Chemistry and Mathematics

Kerala University, Kerala, India

Thesis: “Titanium Dioxide Pigments” (KMML, Kollam)

Fellowships/ Awards/Honours/Recognitions:

1. Royal Society of Chemistry (RSC) - Research Grant (2022-23)
2. Royal Society of Chemistry (RSC) – Associate Member (2021-25)
3. Guest Editor of the International Journal of Materials Research (2021)
4. Guest Editor of Materials Today Proceedings: Elsevier (2021)
5. Guest Editor of AIP Conference Proceedings (2020)
6. Conference Chair of 'iCEE' International Conference (12/12/2019- 14/12/2019).
7. Post-doctoral Fellowship (Northwestern & ANL, USA, 2011-12)
8. CSIR (India) – CNR (Italy) Bilateral Exchange Fellow- 2010-11
9. CSIR-Senior Research Fellow (2008-2011)
10. CSIR-UGC- NET for Lectureship (2007)
11. Graduate Aptitude Test in Engineering (GATE) (2006)

Research Experience (>15 Years):**Publications: Book Chapter-4****International & National Publications-40****Papers Presented in International/National Conferences: >40**

Ph.D. Guideship: Research Guide of the University of Kerala, under the Faculty of Science, under the discipline of Chemistry, from 2015 onwards.
No. of Research Scholars- 4, Kerala University)

Ph.D. Students:

1. Rekha Chandran P R– ID- 16080 (21/12/2017)
2. Reshma Mariyam Jacob- ID-21701 (14/10/2020)
3. Gopakumar. G- ID-21992 (15/10/2020)
4. Sharija.K.S. - ID-24013002002 (12/07/2024)

Editorial Board Member: Associate Editor of TIJMR

Memberships in Professional Bodies:

Associate Member- RSC (ID- 702005)
Academy of Chemistry Teachers –ACT - Kerala
Flair Teacher- Higher Education Council of Kerala
Electron Microscopic Society of India
Indian Institute of Ceramics

Reviewer of International Journals (Recent):

Environmental Science: Nano-4 (RSC, 2024)
Materials Today Communications-2 (Elsevier, 2024)
Environmental Science: Process and Impacts (RSC, 2024)
Environmental Sci. and Pollution Research-7 (Elsevier, 2018-24)
RSC Advances-4 (RSC, 2020-24)

Funded Research Projects:**Project Co-ordinator:**

DST-FIST Project (2015- 2025)

Project Committee Member

Teacher Co-ordinator of RUSA Project (2018- 2025)

Principal Investigator:

1. **RSC sponsored research project** on “Phytotoxicity of Engineered TiO₂ Nanoparticles” (2022-23) - 4000 Pounds. Project No: R21-5086741923.
2. **UGC research project** on 'Superhydrophobicity of solvothermally synthesized hierarchically organized nanostructured photocatalysts' (2014 - 16) - 2 Lakhs.

Supervisor of Funded M.Sc. Projects: KSCSTE -2, ASPIRE- 12

M.Sc. Project Dissertations Guided: 24

B.Sc. Project Dissertations Guided: 12 Team Projects

Question Paper Setter:

1. Ph.D. Coursework (Calicut University, Kerala University and Kerala Technical University)
2. M.Phil Programme (Calicut University)
3. UG Programme (Autonomous Colleges)

Syllabus Contributor:

PG, UG and FYUGP Chemistry Syllabus - University of Kerala

Best Paper Awards in International/National Conferences: 6

Academic Enrichment Programmes Conducted (National Level): 8

Resource Person: DBT-Vigyan Programme, Kannur University PG, Colleges

FDP Programmes Attended: Orientation- 1, Refresher-1, STC-7, FDP-10

Research Instruments (Hands on Experience):

- SEM, TEM
- X-Ray Diffractometry
- BET Surface Area Analysis
- Thermal Analysis (TGA, DTA, TMA)
- FT-IR and EPR
- I/V Analyzer and Contact Angle Analyzer
- UV-Vis-NIR and PL Spectrophotometry

Key Duties Performed @ T.K.M.C.A.S.

- Dean of Research (2024 Onwards)
- Head, Department of Chemistry (1 June 2019 - 31 May 2024)
- Tutor of PG Programmes: 2014-16, 16-18, 19-21, 22-24
- Tutor of UG Programmes: 2013-17
- Convener, DST-FIST (2016-2025)
- Convener- Research Instruments & Sample Analysis (2016 Onwards)
- Convener, Research Cell (2019-2024)
- RUSA- Teacher Representative (2018 Onwards)
- Admission Committee Incharge- 2019
- Department Admission Committee Member (2019-25)
- Additional and Chief Examiner – UG, PG, M.Phil & Ph.D (2013 Onwards)

Profile Links

Orcid id: 0000-0002-3062-9198.

Google Scholar: <https://scholar.google.com/citations?user=U7BN0MYAAAAJ&hl=en>

LinkedIn:

<https://www.linkedin.com/in/anas-shereef-16315583/?originalSubdomain=in>

Research Gate: https://www.researchgate.net/profile/Anas_Shereef2

TKM College of Arts and Science: <https://tkmcas.ac.in/chemistry/>

Key Research Areas: Nano healthcare, Phytotoxicity, Ecotoxicology, Nanonutrients, Gas Sensing and Conversion, Green Energy, Photocatalysis and Superhydrophobicity.

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Declaration:

I hereby declare that all the above-mentioned details are true to the best of my knowledge.

Kollam
29.07.2025

Dr. Anas. S