STAFF PROFILE

1) Name: Dr.N.Arunkumar

2) Designation: Assistant Professor

3) Department: Chemistry

4) Qualifications:

Academic: M.Sc., Ph.D

Additional:

5) Experience (in years): Teaching: 8 years Research: 8 years

6) Area of Specialization: Materials Chemistry

7) Contact: E-mail: arun.snc.mdu@gmail.com Mobile Number: 8015322446

8) Grants Received (Conference/Workshop/Seminar/any other): Nil

Event Title	Agency	Fund Received	Date

9) Project Completed: Nil

Project Title	Agency	Fund Received	Duration

10) Project ongoing: Nil

Project Title	Agency	Fund Received	Duration

11) Research Guidance:

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.		
M. Phil.		

12) Research Publications:

	International	National
Total Number of Publications	5	1

List of International Publications: 5

1. Facile synthesis of nanostructured trirutile antimonates M(II)Sb_2O_6 (M = Co, Cu, Ni, Fe) and its visible photocatalytic studies Nagarajan Arunkumar and Saraschadra Narginti Inorganic and Nano-Metal Chemistry Volume 52, 2022 - Issue 1.

2. Facile synthesis of N-$MgSb_2O_6$ trirutile antimonate and its enhanced photocatalytic performance Nagarajan Arunkumar and Saraschandra Naraginti International Journal of Environmental Analytical Chemistry Volume 102, 2022 - Issue 19.

3. Facile solid solution of trirutile and columbite structured oxides $Zn_{1-x}Li_xNb_{2-x}Mo_xO_6$ and $Zn_{1-x}Li_xNb_{2-x}W_xO_6$ (x = 0.0-1.0): synthesis and photocatalytic studies International Journal of Environmental Analytical Chemistry Volume 103, 2023 - Issue 10.
4. Band gap engineering and photocatalytic activity of new trirutile structure $Zn_{1-x}Mg_xSb_2O_6$ (0< x<1) solid solution Indian Journal of Chemistry Vol. 60A, February 2021, pp. 220-227
5. Enhanced Photocatalytic activity of Nanocrystalline N - doped $ZnSb_2O_6$: role of N doping, cation ordering, particle size and crystallinity, Nagarajan Arunkumar and Rajagopalan Vijayaraghavan, RSC Advance 2014,4, 65223-65231.

List of National Publications: 1

1. Band gap engineering and photocatalytic activity of new trirutile structure $Zn_{1-x}MgxSb_2O_6$ (0< x<1) solid solution Indian Journal of Chemistry
Vol. 60A, February 2021, pp. 220-227.

13) Chapters in Books: Nil

14) Other Publications (Proceedings):

15) Books Published: Nil

16) Presentation in Seminar / Conference:
International: 9

1. Enhanced Photocatalytic activity of Nanocrystalline N-doped $ZnSb_2O_6$: role of N doping, cation ordering, particle size and crystallinity, Arun Kumar N and R.Vijayaraghavan, Nano India 2015 (29-30th Jan 2015) Organized by SASTRA University, Thanjavur, India

2. Synthesis and Optical band gap modulation of $MgSb_2O_6$ trirutile solid solution, ArunKumar N and R.Vijayaraghavan, Indo-US Workshop on Engineered Electrodes for Electrochemical Energy Storage (3rd - 4th April 2014) Organized by CECRI – MadrasUnit, Tharamani, Chennai, India.

3. Synthesis and Optical band gap modulation of $Mg_{1-x}Co_xSb_2O_6$ (x = 0.0 - 1.0) trirutile solid solution, Arun Kumar N and R.Vijayaraghavan, International Union of Materials Research Society – International Conferences In Asia (IUMRSI –ICA 16 to 21st 2013) Organized by Indian Institute Of Sciences, Bangalore, India.

4. Synthesis, Characterization and Optical band gap of Trirutile type antimonates M(ll)Sb_2O_6 (M = Zn, Mg) Arun Kumar N and R.Vijayaraghavan, International conferences on Emerging Trends In Chemical Sciences (IETC - Dec 5 to 7 th 2013) Organized by VIT University Vellore, India.

5. Al-doped delafossite oxide $CuCrO_2$: Synthesis and Characterization, Arun Kumar N and R.Vijayaraghavan. Theme Meeting on Recent Trend in Materials Chemistry (RTMC – July 25-27th 2013) Conducted by VIT University, Vellore, India.

6. p-Type transparent conducting oxide $CuCr_{1-x}Al_xO_2$: synthesis and characterization Arun Kumar N and R.Vijayaraghavan. 24th Annual General Meeting (2013) Materials Research Society of India (MRSI) Organized by IGCAR, Kalppakam, India.

7. p-Type transparent conducting oxide $CuCrO_2$: synthesis and characterization Arun Kumar N and R.Vijayaraghavan. 4th International conferences on Advanced Nanomaterials (ANM - 2012) Organized by IIT Madras, Chennai, India.

8. Participated in International Conference on Recent Trends in Advanced Materials (IC RAM – 2012) organised by VIT University, Vellore during Feb. 20 – 22, 2012.

9. Synthesis and Fluorination of Hydroxyapatite Using Sodium Boro Fluoride by molten salt method, N. Arun Kumar, G.Buvaneswari, International Conference on sol- gel processing and advance Ceramics. Conducted by IGCAR, Kalppakam. India.

National: 2

1. Electrophoretic deposition of ZnO film and its optical property, Arun Kumar N and R.Vijayaraghavan. National conference on Recent Advance in Inorganic chemistry (RAIC – March 23-25 2012). Conducted by Bharathidasan University, Tiruchirappalli, India.
2. p-Type transparent conducting oxide CuCr1-xAlxO2: synthesis and characterization Arun Kumar N and R.Vijayaraghavan. 24th Annual General Meeting (2013) Materials Research Society of India (MRSI) Organized by IGCAR, Kalppakam, India.

17) Participation in Conference: Nil

18) Participation in Seminar: Nil

19) Participation in Workshop: 3

1. Indo-US Workshop on Engineered Electrodes for Electrochemical Energy Storage 3rd - 4th April 2014 Organized by CECRI – Madras Unit, Tharamani, Chennai, India.

2. National Workshop on Advanced Materials Characterization Techniques Organized by Department of Physics, S.V University, Tirupati, India.

3. National Workshop on Advanced Instruments for Characterization
Organized by Department of Nanosciences and Technology, Bharathiar University, Coimbatore, India.

20) Participation in Orientation Programme/ Induction Programme/ Short term Courses: **1**

1. Participated in the 28 days Orientation programme conducted by conducted by Ramanujan College, University of Delhi from 20-01-2022 to 19-02-2022

21) Participation in Faculty Development Programme**: 2**

1. Participated in the two week online faculty development programme on managing online class and co-creating MOOCS 3.0 conducted by Ramanujan College, University of Delhi from 25-07-2020 to 10-08-2020

2. Participated in the 14 days Refresher Course in Chemistry, conducted by Ramanujan College, University of Delhi from 30 June 2023 to 14 July, 2023

22) Conference/ Seminar/ Workshop Organized: Nil

23) Invited Speaker/ Session Chair – Conference/ Seminar/ Workshop: Nil

24) Other Co-curricular / Administrative Responsibilities: Nil

25) Member in Board of Studies: Nil

26) Editorial/ Review Board Member: Nil

27) Membership in Professional Bodies: Nil

28) Awards received: Nil

29) Consultancy: Nil

30) Patents: Nil

31) Any other information: Nil

* Note: Please provide the total Numbers and details for each metrics