Name: Dr. APPARAO THOTA

Employee ID: A5BSH00T104

Designation: Assistant Professor

Department: BS&H (Chemistry)

Date of Birth: 20-01-1987

Father Name: SATYAMU

Mother Name: RAMULAMMA

Reservation Category if Any: BC-B

Address: D.No: 4-253, Ponduru, Srikakulam, A.P-532168, India

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Date of Joining in the Institution: 01-11-2021

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph.D (Chemical Sciences)	CSIR-IICT & AcSIR, Hyderabad, India	FIRST Class with Distinction	April 2018
M.Sc (Physical Chemistry)	Andhra University, Vishakhapatnam, India	FIRST Class	April 2010
B.Sc (M.P.C)	Andhra University, Vishakhapatnam, India	FIRST Class	March 2008

Total Years of Experience (Teaching/Industry): 3 Years

Period		Organization/Institution/Industry	Designation
November 2021	Till Date	AITAM, Tekkali, India	Asst. Professor
May-2019	Feb-2021	Xi'An Technological University, China	Postdoctoral Research Associate
May-2018	March-2018	CSIR-IICT, Hyderabad, India	Project Researcher

Areas of Interest:

- Synthesis of polymers and polymeric nanocomposites by chemical and electrochemical methods
- Development of energy storage materials for supercapacitors and batteries applications
- Development of electrocatalysts for Fuel Cells applications
- CO_2 reduction materials, Water-Splitting, and Electrochemistry
- Polyurethane composites for coatings
- Development of Adhesives, and resins
- Engineering Chemistry

Co-Guided:

1. Co-Guided Ms. Arathy Madhu from January 2013 to April 2013 in partial fulfillment for the award of degree of Bachelor of Technology in Polymer Engineering, School of Technology and Applied Sciences, Mahatma Gandhi University, Kottayam, Kerala, India.
2. Co-Guided Ms. N. Tejaswani from June 2014 to August 2014 in partial fulfillment for the award of Master Degree in Chemistry, Kakatiya University, Warangal, Telangana, India
3. Co-Guided Ms. V. Rameshwari from June 2014 to August 2014 in partial fulfillment for the award of Master Degree in Chemistry, Kakatiya University, Warangal, Telangana, India
4. Co-Guided Ms. S. Blessy from December 2015 to May 2016 in partial fulfillment for the award of Master Degree in Nano Science and Technology, Bharathiar University, Coimbatore, Tamil Nadu, India

Honors and awards received:

- Qualified Joint CSIR-UGC test for Junior Research Fellowship and Eligibility for Lectureship (NET) in June-2012, UGC-JRF (Rank-80)
- Junior Research Fellow from Dec 2012 to Dec 2014 at Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad
- Senior Research Fellow from Dec 2014 to Dec 2017 at Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad

Details of Publications:

International Journals:

S.No	Authors, Title, Journal name, Year, Vol., Page No	Impact-Factor
1	**Apparao Thota**, Ravi Arukula, Ramanuj Narayan, Prabhakar Sripadi, Sreedhar Bojja, and Chepuri R. K Rao*, Electrochemical Synthesis and Reduction of Aniline-Tetramer: Application Prospect as MOR Electrocatalyst, ***Journal of The Electrochemical Society***, 2017, 164 (12), F1090-F1099.	4.316
2	**Apparao Thota**, Karteek Boga, Ramanuj Narayan, Sreedhar Bojja and Chepuri R. K Rao***,*** Synthesis of star shaped electroactive, LEB state aniline oligomer and its high performing Pt and Pt-Au nanocatalyst for MOR, ***International Journal of Hydrogen Energy***, 2019, 44, 11066-11078.	5.816
3	**Apparao Thota**, Ravi Arukula, Ramanuj Narayan, Chepuri R. K Rao* and K.V.S.N. Raju*, Energy storage and surface protection properties of dianiline co-polymers, ***RSC Advances***, 2015, 5 (129), 106523-106535.	3.361
4	**Apparao Thota**, Karteek Boga, Ravi Arukula, Ramanuj Narayan and Chepuri R.K. Rao*, Dianiline Conjugated Schiff Base Molecule: Electrical and Electrochemical Properties, ***Synthetic Metals,*** 2019, 247, 240-247.	3.266
5	**Apparao Thota**, Qiguan Wang*, Pan Liu, Zengyun Jian*, Highly electrochemical active composites based on capacitive graphene/aniline oligomer hybrid for high-performance sustainable energy storage devices, ***Electrochimica Acta,*** 2020, Vol. 368, Pag. 137587.	6.901
6	Zhang, Kai, Qiguan Wang, **Apparao Thota**, Wenzhi Zhang, Jian Chen, Yan Wang, Xinming Wu, and Sumin Wang, "Flexible 3D hierarchical porous $NiCo_2O_4$/CC electrode decorated by nitrogen-doped carbon from polyaniline carbonization for high-performance supercapacitors", ***Journal of Materials Science,*** 2020, 55, no. 14, 5982-5993.	4.220
7	Ravi Arukula, **Appa Rao Thota**, Chepuri R. K. Rao*, Ramanuj Narayan and B. Sreedhar, Novel electrically conducting polyurethanes with oligoanilines: Synthesis, conductivity, and electrochemical properties, ***Journal of Applied Polymer Science***, 2014, 131 (18), 40794.	3.125

8	Ravi Arukula, **Apparao Thota**, Kartheek Boga, Ramanuj Narayan, B. Sreedhar and Chepuri R.K. Rao*, Investigations on anticorrosive, thermal and mechanical properties of conducting polyurethanes with tetraaniline pendent groups, ***Polymers for Advanced Technologies***, 2018; 29 (6), 1620-1631.	3.665
9	Ravi Arukula, **Apparao Thota**, Karteek Boga, Ramanuj Narayan, B. Sreedhar and Chepuri R.K. Rao*, Aniline-nonamer segmented polyurea: A facile electrocatalyst for detection of ascorbic acid, ***Journal of Applied Polymer Science***, 2018, 135, 46630.	3.125
10	Himadri S. Karmakar, Ravi Arukula, **Apparao Thota**, Ramanuj Narayan and Chepuri R. K. Rao*, Polyaniline-grafted polyurethane coatings for corrosion protection of mild steel surfaces, ***Journal of Applied Polymer Science***, 2018,135 (6), 45806.	3.125

International Conferences:

1. **Presented the poster** in "MACRO-2015 (International symposium on Polymer Science and Technology)", 23-26 January 2015, at Indian Association for the Cultivation of Science (IACS), Kolkata.
   "*Synthesis and Characterization of Conducting Co-polymer poly (DA-T) and their application*".
   Apparao Thota, and Chepuri R.K. Rao*,
2. **Oral presentation** in the "ICGTES2016, Symposium on International Conference on Green Trends in Environmental Sustainability", 16-17, December 2016, at St. Ann's College for Women, Hyderabad. "*Oligoaniline supported Pt-nanocomposites for electrocatalytic methanol oxidation*".
   Apparao Thota, and Chepuri R.K. Rao*
3. **Presented the poster** in "MACRO-2017, International Conference on Polymer Science and Technology", 8-11 January 2017 Organized by SPSI THIRUVANANTHAPURAM CHAPTER AND VSSC-ISRO at TRIVENDRUM, KERALA. India
   "*Electrically Conductive Oligomeric Conjugated Aromatic Schiff Base- Synthesis and Characterization*".
   Apparao Thota, and Chepuri R.K. Rao*

National Conference:

1. Participated in the "2nd National symposium on polymers and coatings NSPC-2014", 25-26 April 2014, at the Polymers & Functional Materials Division, CSIR-IICT, Hyderabad.
2. **Presented the poster** in **"**Seventeenth National Congress on Corrosion Control", 21-23 August 2014, at CSIR-Central Electrochemical Research Institute, Karaikudi.

"*Urethane bonded branched oligoanilines: synthesis, characterization, and application*".
Apparao Thota, and Chepuri R.K. Rao*

T. Apparao

Signature