

**PERSONAL INFORMATION****Dr. KOTAGIRI YUGENDER GOUD**

**Current Address:**

Ramanujan Fellow  
Department of Chemistry  
Indian Institute Technology, Palakkad  
Ahalia Integrated Campus  
Kerala 678557, India

**Permanent Address:**

#4-42, Mecharajupally (Village & Post),  
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**Date of Birth:** 7<sup>th</sup> April 1988 | **Gender:** Male | **Nationality:** Indian | **Marital Status:** Married

**Website:** <https://yugenderkotagiri.wixsite.com/mysite> ;  
**ORCID:** <https://orcid.org/0000-0002-0530-0489> ;

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

**Total Publications:** 45    **h-index:** 20    **i10-index:** 28

**PROFESSIONAL EXPERIENCE**

- May 2022 – Present:**    **Ramanujan Fellow**  
Department of Chemistry  
**Indian Institute of Technology Palakkad, India**
- Dec 2021 – April 2022:**    **Postdoctoral Researcher**  
Research Supervisor: **Prof. Peter Searson**  
Institute for Nanobiotechnology  
**Johns Hopkins University, USA, USA**
- July 2018 – Dec 2021:**    **Postdoctoral Researcher**  
Research Supervisor: **Prof. Joseph Wang**  
Department of Nanoengineering  
**University of California San Diego (UCSD), USA**
- Feb 2018 – June 2018:**    **Postdoctoral Research Fellow**  
Research Supervisor: **Ki-Hyun Kim**  
Air Quality & Materials Application Lab Department of Civil & Environmental  
Engineering, **Hanyang University, Seoul, South Korea**
- Nov 2017 – Jan 2018:**    **Research Assistant**  
Research Supervisor: **Prof Naveen Kumar Navani**  
Department of Biotechnology, **Indian Institute of Technology Roorkee, India**
- Sept 2015 – July 2017:**    **EUPHRATES Doctoral Research Exchange Student**  
Research Supervisor: **Prof Jean Louis Marty**  
BAE Laboratory, **University of Perpignan, France**
- April 2012 – Aug 2012:**    **Project Assistant**  
Research Supervisor: **Prof Bhaskar Datta**  
Department of Chemistry, **Indian Institute of Technology Gandhinagar.**

**EDUCATION**

- July 2013 – Nov 2017:**    **Doctor of Philosophy (Ph.D.)**  
**Thesis Title:** " [Development of Optical and Electrochemical Affinity-based Biosensors for Detection of Mycotoxins](#) " **Awarded on 4<sup>th</sup> December 2017**  
Research Supervisor: **Prof. K. V. Gobi**  
Department of Chemistry, **National Institute of Technology Warangal, India**
- July 2009 – June 2011:**    **Master of Science in Chemistry (M.Sc.)**  
Department of Chemistry, **National Institute of Technology Warangal, India**  
Cumulative Grade Point Average: **7.5**

**June 2006 – April 2009: Bachelor of Science (B. Sc.) - Biotechnology, Biochemistry, Chemistry**  
**Kakatiya University**, Warangal, Telangana, India  
Percentage of Marks: **79.7 %**

**June 2001 – March 2003: Intermediate - Botany, Zoology Physics and Chemistry**  
Board of Intermediate Education, Andhra Pradesh, India  
Percentage of Marks: **87.9 %**

**June 2000 – March 2001: Secondary School Certificate (High School)**  
Board of Secondary Education, Andhra Pradesh, India  
Percentage of Marks: **87.0 %**

## RESEARCH INTERESTS

- Electro-analytical Chemistry
- Biosensors ([Aptasensors](#), [Immunosensors](#), [Enzymatic sensors](#))
- Wearable Sensors ([Microneedle](#), [Textile](#), [Glove](#), [Tattoo](#), [Catheter](#), [on-body sensors](#))
- Target Analytes ([Mycotoxins](#), [Organophosphates](#), [G-type nerve-agents](#), [Biomarkers](#), [Pharmaceutical Drugs](#), [Explosives](#))
- Recognition Elements ([MIP: Molecular Imprinted Polymers](#), [MOF: Metal-Organic Frameworks](#))
- Chemical Sensors ([Carbon Nanomaterials](#), [Metal Nanoparticles](#), [Bimetallic Selenides](#), [Polymer Nanocomposites](#), [Hybrid Nanostructured Materials](#), etc.)
- Agriculture, Food, Security, Forensic, Environmental, and Biomedical applications
- Micro/Nanofabrication, Multiplexed Sensing
- Electroanalytical Techniques ([Amperometry](#), [CV](#), [DPV](#), [SWV](#), [EIS](#))
- Optical Sensors ([Fluorescence](#), [Plasmon resonance](#))
- Ion Selective Electrodes (ISEs), Potentiometric Sensors
- Energy Applications ([Fuel Cells](#), [Biofuel Cells](#))

## SUMMARY OF RESEARCH EXPERIENCE

- Postdoctoral research @ **the Institute for Nanobiotechnology, Johns Hopkins University, Baltimore** on the research topic "[Development of point of care and a wearable sensor for sweat chloride sensing toward cystic fibrosis management](#)"
- Previous postdoctoral research @ **University of California San Diego** was focused on the "[Wearable stretchable electrochemical/optical sensors for the detection of opioids, organo-phosphates, and various biomarkers](#)"
- Previous postdoctoral research @ **Hanyang University Seoul** was focused on the "[Electrochemical biosensors for mycotoxins detection](#)"
- Erasmus Mundus Euphrates Ph.D. research @ **the University of Perpignan** was focused on "[Development of electrochemical and optical biosensors for the detection of mycotoxins](#)".
- Hands-on experience of [Electrochemical techniques](#) - Chronoamperometry, Cyclic Voltammetry, Differential Pulse Voltammetry and Electrochemical Impedance Spectroscopy using different workstations [Palm Sense](#), [CH Instruments](#), [Metrohm Autolab](#), and [Zahner-Elektrik](#)
- Experience in handling various recognition elements like [aptamers](#), [antibodies](#), [enzymes](#), [metal-organic frameworks](#), and [molecular imprinted polymers](#)
- Experience in [wearable sensors](#) such as [gloves](#), [tattoos](#), [microneedles](#), and [textile on-body sensors](#).
- Experience in [micro/nanofabrication](#), [clean room exposure](#), printing on PET, Textile substrates, 3D printing of microneedles
- Synthesis and functionalization of various nanomaterials CNT, Graphene oxide, and their hybrid nanocomposites with the combination of metal and metal oxide nanoparticles.
- Instrumental characterization of the materials using FT-IR, Raman, XRD, XPS, SEM-EDX, and TEM
- Experience in writing research proposals for grants, project expedition, laboratory safety management, technical presentation, and teaching.
- Experience in sensing of mycotoxins, organophosphates, nerve agents, explosives, disease biomarkers, and pharmaceutical drugs

**RESEARCH PUBLICATIONS**

(\*Corresponding, #Equal contribution)

1. Hazhir Teymourian, Farshad Tehrani, Kuldeep Mahato, **K. Yugender Goud**, Juliane R. Sempionatto, , Irene Litvan, Joseph Wang  
*"Closing the loop for Parkinson disease patients: where are we?"*  
**Nature Reviews Neurology 2022** (IF 44.711)  
<https://www.nature.com/articles/s41582-022-00674-1>
2. **K. Yugender Goud**, Samar S. Sandhu, Jose, Lu Yin, Nicholas Tostado, Lee C. Moores, Steven P. Harvey, Joseph Wang  
*"Miniaturized multiplexed sensor array chip for remote field detection of organophosphorus neurotoxins"*  
**ChemElectroChem 2022** (IF 4.78)  
<https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/celec.202200349>
3. **K. Yugender Goud**, Kuldeep Mahato, Hazhir Teymourian, Joseph Wang  
*"Wearable microneedle sensor for continuous monitoring of apomorphine toward Parkinson's disease management"*  
**Sensors and Actuators B: Chemical 2022, 131234** (IF 9.22)  
<https://www.sciencedirect.com/science/article/pii/S0925400521018025>
4. Pratik Joshi, Parand Riley, **K Yugender Goud#**, Rupesh K. Mishra, Roger Narayan  
*"Recent advances of boron doped diamond electrochemical sensors toward environmental applications"*  
**Current Opinion in Electrochemistry 2022, 100920** (IF 7.664)  
<https://www.sciencedirect.com/science/article/pii/S2451910321002349>
5. **K. Yugender Goud\***, Ahmed Khorshed, K. Koteswara Reddy, John Amalraj, V. Sunil Kumar, Rupesh K Mishra, and K. Vengatajalabathy Gobi  
*"Electrochemical Diagnostics for Viral Infectious Diseases: Trends and Challenges"*  
**Biosensors and Bioelectronics 2021 180, 113112** (IF 12.545)  
<https://www.sciencedirect.com/science/article/pii/S0956566321001494>
6. **K. Yugender Goud**, Samar S. Sandhu, Hazhir Teymourian, Lu Yin, Nicholas Tostado, Lee C. Moores, Steven P. Harvey, Joseph Wang  
*"Wearable textile-based all-solid-state fluoride sensor: Application toward the detection of G-type nerve agents"*  
**Biosensors and Bioelectronics 2021, 182, 113172** (IF 12.545)  
<https://www.sciencedirect.com/science/article/pii/S0956566321002098>
7. Samar S. Sandhu, **K. Yugender Goud#**, Hazhir Teymourian, Lu Yin, Nicholas Tostado, Lee C. Moores, Steven P. Harvey, Joseph Wang  
*"Green MIP-202(Zr) Catalyst: Degradation and Thermally Robust Biomimetic Sensing of Nerve Agents"*  
**Journal of American Chemical Society 2021, 143, 43, 18261–18271** (IF 16.383)  
<https://pubs.acs.org/doi/abs/10.1021/jacs.1c08356>
8. Shekher Kummari; V. Sunil Kumar; **K. Yugender Goud**; K Vengatajalabathy Gobi  
*"Electrodissolution-induced deposition of nanoAu particle on poly-(3-amino-5-hydroxypyrazole) coated carbon paste electrode for highly sensitive detection of valacyclovir in-vitro"*  
**Journal of Electroanalytical Chemistry 2021, 115859** (IF 4.598)  
<https://www.sciencedirect.com/science/article/pii/S1572665721008857>
9. Atul Sharma, Rupesh Kumar Mishra, **K. Yugender Goud\***, Mona A. Mohamed, Shekher Kummari, Swapnil Tiwari, Zhanhong Li, Roger Narayan, Lia A. Stanciu, JL Marty  
*"Optical Biosensors for Diagnostics of Infectious Viral Disease: A Recent Update"*  
**Diagnostics 2021, 11, 2083** (IF 3.992)  
<https://www.mdpi.com/2075-4418/11/11/2083>
10. Rupesh, K. Mishra, **K. Yugender Goud#**, Zhanhong Li, Mona Ali, Chochanon Moonla, Joseph Wang

- “Simultaneous detection and discrimination of nerve agent and opioid using minimally-invasive multiplexed wearable microneedle sensors”*  
**Journal of American Chemical Society (JACS) 2020, 142, 13, 5991-5995** (IF 16.383)  
<https://pubs.acs.org/doi/abs/10.1021/jacs.0c01883>
11. K. Koteswara Reddy, M. Satyanarayana, Harshad Bandal, **K. Yugender Goud**, K. Vengatajalabathy Gobi, Tippabattini Jayaramudu, John Amalraj, Hern Kim  
*“Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials”*  
**Advanced Science, (2020) 1902980** (IF 17.521)  
<https://onlinelibrary.wiley.com/doi/pdfdirect/10.1002/advs.201902980>
12. Juliane R. Sempionatto, Ahmed A. Khorshed, Aftab Ahmed, Andre N. De Loyola e Silva, Abbas Barfidokht, Lu Yin, **K. Yugender Goud**, Mona Ali, Eileen Bailey, Jennifer May, Claude Aebischer, Claire Chatelle, Joseph Wang  
*“Epidermal Enzymatic Biosensor for Sweat Vitamin C: Towards Personalized Nutrition”*  
**ACS Sensors (2020), 5, 6, 1804–1813** (IF 9.618)  
<https://pubs.acs.org/doi/10.1021/acssensors.0c00604>
13. **K. Yugender Goud**, Hazhir Teymourian, Samar S. Sandhu, Nicholas Tostado, Rupesh K Mishra, Lee C. Moores, Steven P. Harvey, Joseph Wang  
*“OPAA/fluoride biosensor chip towards field detection of G-type nerve agents”*  
**Sensors and Actuators B: Chemical (2020) 320, 128244** (IF 9.22)  
<https://www.sciencedirect.com/science/article/abs/pii/S0925400520306894>
14. Chochanon Moonla<sup>1</sup>, **K. Yugender Goud**<sup>#</sup>, Tanin Tangkuaram, Jerry Ingrande, Preetham Suresh, Joseph Wang  
*“Simultaneous propofol/fentanyl monitoring using an integrated dual microcatheter sensor”*  
**Talanta (2020) 218, 121205** (IF 6.556)  
<https://www.sciencedirect.com/science/article/abs/pii/S0039914020304963>
15. V. Sunil Kumar, Shekar Kummari, **K. Yugender Goud**, M Satyanarayana, K. Vengatajalabathy Gobi  
*“One-pot Synthesis of Pd20-xAux Nanoparticles Embedded in Nitrogen Doped Graphene as High-Performance Electrocatalyst Toward Methanol Oxidation”*  
**International Journal of Hydrogen Energy (2020) 45 (1), 1018-1029** (IF 7.139)  
<https://doi.org/10.1016/j.ijhydene.2019.10.197>
16. **K. Yugender Goud**, Chochanon Moonla, Rupesh K. Mishra, Chunmei Yu, Roger Narayan, Irene Litvan, Joseph Wang  
*“Wearable electrochemical microneedle sensor for continuous monitoring of levodopa: Toward Parkinson Management”*  
**ACS Sensors (2019), 4, 2196-2204** (IF 9.618)  
<https://pubs.acs.org/doi/abs/10.1021/acssensors.9b01127>
17. **K. Yugender Goud**<sup>\*</sup>, Sunil Kumar V, Akhtar Hayat, K. Vengatajalabathy Gobi, Jean Louis Marty  
*“Polymer scaffold layers of screen-printed electrodes for homogeneous deposition of silver nanoparticles: Application to the detection of small molecules”*  
**Microchimica Acta (2019) 186, 810** (IF 6.408)  
<https://doi.org/10.1007/s00604-019-3963-y>
18. **K. Yugender Goud**<sup>\*</sup>, K. Koteswara Reddy, M. Satyanarayana, Shekar Kummari, K. Vengatajalabathy Gobi  
*“A review on recent developments in optical and electrochemical aptamer-based assays for mycotoxins using advanced nanomaterials”*  
**Microchimica Acta, Invited Review (2019) 187, 1-29** (IF 6.408)  
<https://doi.org/10.1007/s00604-019-4034-0>
19. M. Satyanarayana, **K. Yugender Goud**, K. Koteswara Reddy, K. Vengatajalabathy Gobi  
*“Silver nanoparticles impregnated chitosan layered carbon nanotube as sensor interface for electrochemical detection of clopidogrel in-vitro”*  
**Materials Science & Engineering C (2019) 101, 103-110** (IF 8.457)

- (<https://www.sciencedirect.com/science/article/pii/S0928493118337111>)
20. Sarah A. Goodchild, Lee J. Hubble, Rupesh, K. Mishra, Zhanhong Li, **K. Yugender Goud**, Abbas Barfidokht, Rushabh Shah, Kara Bagot, Joseph Wang  
*"Ionic liquid-modified disposable electrochemical sensor strip for analysis of fentanyl"*  
**Analytical Chemistry (2019) 91, 3747-3753** (IF 8.008)  
(<https://pubs.acs.org/doi/abs/10.1021/acs.analchem.9b00176>)
  21. **K Yugender Goud**, V Sunil Kumar, Akhtar Hayat, K Vengatajalabathy Gobi, Ki-Hyun Kim, Jean Louis Marty  
*"A highly sensitive electrochemical immunosensor for zearalenone using screen-printed disposable electrodes"*  
**Journal of Electroanalytical Chemistry (2019), 832, 336-342** (IF 4.598)  
(<https://www.sciencedirect.com/science/article/pii/S1572665718307240>)
  22. **K Yugender Goud**, Suresh Kumar Kalisa, Vanish Kumar, Yiu Fai Tsang, S Lee, K. Vengatajalabathy Gobi, Kim  
*"Progress on nanostructured electrochemical sensors and their recognition elements for detection of mycotoxins: A review"*  
**Biosensors and Bioelectronics (2019) 121, 205-222** (IF 12.545)  
(<https://www.sciencedirect.com/science/article/pii/S0956566318306262>)
  23. Abdelmonaim Azzouz, **K Yugender Goud**, Nadeem Raza, Evaristo Ballesteros, Sung-Eun Lee, Jongki Hong, Akash Deep, Ki-Hyun Kim  
*"Nanomaterial-based electrochemical sensors for the detection of neurochemicals in biological matrices"*  
**Trends in Analytical Chemistry (2019) 110, 15-34** (IF 14.908)  
(<https://www.sciencedirect.com/science/article/pii/S0165993618302796>)
  24. H Zejli, **K. Yugender Goud**, and Jean Louis Marty  
*"An electrochemical aptasensor based on polythiophene-3-carboxylic acid assisted methylene blue for aflatoxin B1 detection"*  
**Sensing and Biosensing Research (2019) 25, 100290** (IF -)  
(<https://www.sciencedirect.com/science/article/pii/S2214180419300480>)
  25. V. Sadagopan Krishnan, **K. Yugender Goud**<sup>#</sup>  
*"Magnetic Particle Bioconjugates: A Versatile Sensor Approach"*  
**Magnetochemistry (2019) 5, 64** (IF 3.336)  
(<https://doi.org/10.3390/magnetochemistry5040064>)
  26. Xiaobing Hu, **K. Yugender Goud**, V. Sunil Kumar, Gaëlle Catanante, Zhanhong Li, Zhigang Zhu, Jean Louis Marty  
*"Disposable electrochemical aptasensor based on carbon nanotubes- V<sub>2</sub>O<sub>5</sub>-chitosan nanocomposite for detection of ciprofloxacin"*  
**Sensors and Actuators B: Chemical (2018) 268, 278-286** (IF 9.22)  
(<https://www.sciencedirect.com/science/article/pii/S0925400518306531>)
  27. H Zejli, **K. Yugender Goud**, Jean Louis Marty  
*"Label-free aptasensor for ochratoxin A detection using polythiophene-3 carboxylic acid"*  
**Talanta (2018) 18, 513-519** (IF 6.556)  
(<https://www.sciencedirect.com/science/article/pii/S003991401830328X>)
  28. Sajid Rauf, Jahanzaib Azhar, **K. Yugender Goud**, Rupesh Mishra, Akhtar Hayat, Jean Louis Marty  
*"Carboxylic group riched Graphene Oxide based Disposable Electrochemical Immunosensor for Cancer Biomarker Detection"*  
**Analytical Biochemistry (2018) 545, 13-19** (IF 3.365)  
(<https://www.sciencedirect.com/science/article/pii/S0003269718300083>)
  29. V. Sunil Kumar, **K. Yugender Goud**, M. Satyanarayana K. Vengatajalabathy Gobi  
*"Pd Nanoparticles Embedded Carbon Nanotube Interface for Electrocatalytic Oxidation of Methanol towards DMFC Applications"*



- Clean Technologies and Environmental Policy (2018) 20, 759-768** (IF 4.700)  
(<https://link.springer.com/article/10.1007%2Fs10098-017-1449-3>)
30. **K. Yugender Goud**, Gaëlle Catanante, Akhtar Hayat, K. Vengatajalabathy Gobi, Jean Louis Marty  
"Aptamer-based zearalenone assay based on the use of a fluorescein label and a functional graphene oxide as a quencher"  
**Microchimica Acta (2017)184, 4401-4408** (IF 6.408)  
(<https://link.springer.com/article/10.1007/s00604-017-2487-6>)
31. **K. Yugender Goud**, Gaëlle Catanante, Akhtar Hayat, Satyanarayana M, K. Vengatajalabathy Gobi, Jean Louis Marty  
"An electrochemical aptasensor based on functionalized graphene oxide assisted electrocatalytic signal amplification of methylene blue for aflatoxin B1 detection"  
**Electrochimica Acta (2017) 244, 96- 103** (IF 7.336)  
(<https://www.sciencedirect.com/science/article/pii/S001346861731085X>)
32. M. Satyanarayana, **K. Yugender Goud**, K. Koteswara Reddy, K. Vengatajalabathy Gobi  
"Conducting Polymer Layered Carbon Nanotube as Sensor Interface for Electrochemical Detection of Dacarbazine in-vitro"  
**Electrocatalysis, (2017) 17, 8, 204-223** (IF 2.933)  
(<https://link.springer.com/article/10.1007/s12678-017-0357-y>)
33. Atul Sharma, **K. Yugender Goud**, Akhtar Hayat, Sunil BAND, Jean Louis Marty  
"Recent Advances in Electrochemical Aptasensors Platforms for Aflatoxins Detection"  
**Chemosensors 2017, 5(1), 1** (IF 4.229)  
(<https://www.mdpi.com/2227-9040/5/1/1>)
34. K. Koteswara Reddy, M. Satyanarayana, **K. Yugender Goud**, K. Vengatajalabathy Gobi  
"Carbon nanotube ensembled hybrid nanocomposite electrode for direct electrochemical detection of epinephrine in pharmaceutical tablets and urine"  
**Materials Science & Engineering C 79 (2017) 93–99** (IF 8.457)  
(<https://www.sciencedirect.com/science/article/pii/S0928493116324523>)
35. **K. Yugender Goud**, G Catanante, A Hayat, M Satyanarayana, K. Vengatajalabathy Gobi, Jean Louis Marty  
"Disposable and portable electrochemical aptasensor for label-free detection of aflatoxin B1 in alcoholic beverages"  
**Sensors and Actuators B: Chemical (2016) 235, 466-473** (IF 9.22)  
(<https://www.sciencedirect.com/science/article/pii/S0925400516307973>)
36. **K. Yugender Goud**, Atul Sharma, G Catanante, A Hayat, KV Gobi, Ana Maria Gurban, Jean Louis Marty  
"TAMRA Quenching Based Aptasensing Platform for Aflatoxin B1: Analytical performance comparison of two aptamers"  
**Analytical Biochemistry (2016) 508, 19-24** (IF 3.365)  
(<https://www.sciencedirect.com/science/article/pii/S0003269716300938>)
37. **K. Yugender Goud**, M Satyanarayana, K. Koteswara Reddy, K. Vengatajalabathy Gobi  
"Development of highly selective electrochemical impedance sensor for detection of sub-micromolar concentrations of 5-Chloro-2,4-dinitrotoluene"  
**Journal of Chemical Sciences (2016) 128, 763-770** (IF 1.573)  
(<https://link.springer.com/article/10.1007/s12039-016-1078-0>)
38. M. Satyanarayana, **K. Yugender Goud**, K. Koteswara Reddy, K. Vengatajalabathy Gobi  
"Biopolymer Protected Gold Nanoparticle Decorated Carbon Nanotube-based Sensor for Electrochemical Detection of 5-Fluorouracil in-vitro"  
**Electrochimica Acta 178 (2015) 608-616** (IF 7.336)  
(<https://www.sciencedirect.com/science/article/pii/S0013468615302863>)
39. S. Ghosh Datta, C. Reynolds, **Yugender K. Goud**, Bhaskar Datta  
"Interaction of YOYO-1 with guanine-rich DNA"

**Journal of Biomolecular Structure and Dynamics 32 (2014) 1155–1163** (IF 3.310)  
<https://www.tandfonline.com/doi/full/10.1080/07391102.2013.807752>

40. Pabbiseti Vayu Nandana Kishore, Sai Shankar Madhuvarasu, Vengal Rao Pachava, **Yugender Goud K**, Srinivasa Rao Gudipati  
 “Study on polymer-coated etched optical fiber for pH sensing”  
**Fiber optics and photonics (2014) (ISBN: 978-1-55752-882-7)**  
<https://www.osapublishing.org/abstract.cfm?uri=Photonics-2014-T3A.11>

#### UNDER REVIEW

41. V. Sunil Kumar, **K. Yugender Goud\***, Gaëlle Catanante, K. Vengatajalabathy Gobi, Jean Louis Marty  
 “Biopolymer protected Pd-CNT nanocomposite based impedimetric immunosensor for zearalenone detection”  
**Sensors and Actuators B: Chemical (manuscript under review)** (IF 7.460)
42. K. Koteswara Reddy, M. Satyanarayana, **K. Yugender Goud\***, Gaëlle Catanante, K. Vengatajalabathy Gobi, Jean Louis Marty  
 “Selective Electrocatalytic Detection of Hydrochlorothiazide using Functionalized CNT”  
**Electrochimica Acta (manuscript under review)** (IF 7.460)

#### UNDER PREPARATION

43. K. Koteswara Reddy, Harshad Bandal, **K. Yugender Goud**, M. Satyanarayana, K. Vengatajalabathy Gobi, Tippabattini Jayaramudu, John Amalraj, Hern Kim  
 “A Critical Review on Transition Metallic Selenides – Synthetic Methods and Potential Applications”  
**(Manuscript under preparation)**
44. **K. Yugender Goud\***, Atul Sharma, Shekar Kummari, K. Koteswara Reddy  
 “Biopolymer protected hybrid nanocomposites for electrochemical sensing applications: Point of care analysis to wearable sensor technologies”  
**(Manuscript under preparation)**
45. V. Sunil Kumar, **K. Yugender Goud\***, Gaëlle Catanante, K. Vengatajalabathy Gobi, Jean Louis Marty  
 “Development of PEG aptamer assisted impedimetric aptasensor for zearalenone detection”  
**(Manuscript under preparation)**
46. V. Sunil Kumar, Shekher Kummari, **K. Yugender Goud**, M. Satyanarayana, K. Vengatajalabathy Palladium Nanoparticles Supported on Nitrobenzene-Functionalized Multiwalled Carbon Nanotube as Efficient Electrocatalysts for Methanol Oxidation.  
**(Manuscript under preparation)**

#### BOOK CHAPTER

- 1) **K. Yugender Goud**, Satyanarayana M, Akhtar Hayat, K. Vengatajalabathy Gobi, Jean Louis Marty  
 Chapter 7: Nanomaterial-based electrochemical sensors in pharmaceutical applications  
*Nanoparticles in Pharmacotherapy, (2019) 195-216 – ELSEVIER (ISBN - 978-0-12-816504-1)*  
<https://www.sciencedirect.com/science/article/pii/B978012816504100z0156>
- 2) K. Koteswara Reddy, **K. Yugender Goud**, Satyanarayana M, Shekar Kummari, K. V Gobi,  
 Chapter 4 “Metal Oxide-Metal Nanocomposite Modified Electrochemical Sensors for Toxic Chemicals”  
*Metal Oxide-Metal Nanocomposite Modified Electrochemical Sensors for Toxic Chemicals, Elsevier*  
<https://www.elsevier.com/books/metal-oxides-in-nanocomposite-based-electrochemical-sensors-for-toxic-chemicals/pandikumar/978-0-12-820727-7>
- 3) Naveen Pai Rupesh Kumar Mishra **K. Yugender Goud\***, Roger Narayan, Vinay Sharma,  
 Recent developments of molecular/biosensor diagnostics for SARS CoV 2 detection

"Advanced Biosensors for Virus Detection: Smart Diagnostics to Combat Against SARS-CoV2 Pandemic" *Publisher: Elsevier*

(<https://www.sciencedirect.com/science/article/pii/B978012824494400014X>)

- 4) **K. Yugender Goud\***, Roger Narayan, Vinay Sharma, Rupesh Kumar Mishra  
Electrochemical wearable sensors for biomedical and security applications  
Nanosensors for Futuristic Smart and Intelligent Healthcare Systems  
*Publisher: CRC Press, Taylor & Francis Group (Accepted for publication)*
- 5) Kuldeep Mahato, Ashuthosh Kumar, Buddadev Purohit, **K. Yugender Goud**, Pranjal Chandra  
Onsite quality controls for food safety based on miniaturized sensing  
*Publisher: Springer*  
([https://link.springer.com/chapter/10.1007/978-981-16-9897-2\\_11](https://link.springer.com/chapter/10.1007/978-981-16-9897-2_11))

## INTERNATIONAL CONFERENCE PROCEEDINGS

1. An electrochemical immunosensor for Zearalenone based on bovine serum albumin immobilization on the screen-printed electrode  
**K. Yugender Goud**, Eszter Takács, Akhtar Hayat, Gaëlle Catanante, K. Vengatajalabathy Gobi, Jean Louis Marty  
"Sixteenth International Symposium on Electroanalytical Chemistry (16th ISEAC)", during August 17 – 20, 2017 at Changchun, Jilin, China
2. An electrochemical Impedimetric immunosensor for Zearalenone  
**K. Yugender Goud**, Eszter Takács, Akhtar Hayat, Gaëlle Catanante, K. Vengatajalabathy Gobi, Jean Louis Marty  
"Matrafured 2017: International Conference on Electrochemical Sensors" during June 11-16, 2017, in Budapest, Hungary
3. A facile functional graphene oxide-based electrochemical biosensor using methylene blue tagged aptamers as a signaling molecule  
**K. Yugender Goud**, Satyanarayana M, Akhtar Hayat, Gaëlle Catanante, K. Vengatajalabathy Gobi, Jean Louis Marty  
Proceedings of the "XXI TRANSFRONTIER MEETING ON SENSORS AND BIOSENSORS TMSB 2016", during September 29-30, 2016, at Institute of Catalan studies Barcelona, Spain
4. A Label-Free Electrochemical Impedimetric Aptasensor for Aflatoxin B1 Detection  
**K. Yugender Goud**, Satyanarayana M, Akhtar Hayat, Gaëlle Catanante, K. Vengatajalabathy Gobi, Jean Louis Marty  
Proceedings of the "9a Trobada de Joves Investigadors dels Països Catalans Societat Catalana de Química – Perpinyà", 3-5 February 2016, Perpignan, France.
5. A Sensitive Detection of Dacarbazine at Conducting Polymer Patterned Carbon Nanotubes Paste Electrode as a Sensor Interface  
Satyanarayana M, **K. Yugender Goud**, K. Vengatajalabathy Gobi, Jean Louis Marty  
Proceedings of the "XX TRANSFRONTIER MEETING ON SENSORS AND BIOSENSORS TMSB 2015", during October 1-2, 2015, at University of Perpignan (UPVD), Perpignan, France.
6. Development of Highly Selective Electrochemical Impedance Sensor for Detection of Parts-per-billion Levels of 5-Chloro-2,4-dinitrotoluene  
**K. Yugender Goud**, K. Koteswara Reddy, M. Satyanarayana, B. V. Appa Rao, K. Vengatajalabathy Gobi  
Proceedings of the "4Th International Conference on Natural Polymers and Biomaterials" from April 10th to 12th 2015 at Mahatma Gandhi University, Kottayam, Kerala, India.
7. Molecular Imprinted Polymer-based Electrodes for Electrochemical Impedimetric



Detection of DNT Derivatives

**K. Yugender Goud**, K. Koteshwara Reddy and K. Vengatajalabathy Gobi

Proceedings of the “[International conference ICONEST-2014 organized by Electrochemical Society of India \(ECSI\)](#)”, during August 7-9, 2014, at [Indian Institute of Science Bangalore, India](#).

- Highly Sensitive Nanocomposite-based Electrochemical Sensor for Determination of Serotonin in the presence of Dopamine, Ascorbic Acid, and Uric Acid  
Satyanarayana M, **K. Yugender Goud** and K. Vengatajalabathy Gobi (ELAC-2014) 97-101  
Proceedings of “[International conference Eleventh ISEAC International Discussion Meet on Electrochemistry and its Application](#)” organized by Indian Society for Electroanalytical Chemistry (ISEAC) during February 20-25, 2014, at [Amritsar, Punjab, India](#).

### TRAINING / WORKSHOPS / SUMMER SCHOOL

- Attended the Summer School Programme “[DST SERB SCHOOL ON FUNDAMENTAL ELECTROCHEMICAL PRINCIPLES APPLIED TO PROBLEMS IN SCIENCE AND ENGINEERING](#)” during August 10-14<sup>th</sup>, 2014, at [Department of Chemical Engineering, IIT Madras](#).
- Attended the summer school program “[ADVANCED MATERIALS CHARACTERISATION TECHNIQUES](#)” During November 1-2<sup>nd</sup>, 2014, at the [Department of Material Science and Material Engineering, IIT Hyderabad](#).
- Attended the National Workshop on **Modern Instrumental Methods of Inorganic Chemical Analysis of Engineering Materials** during 22-26 October 2013 organized by the Department of Chemistry, *N I T Warangal*, Telangana, India
- Attended the National Workshop on **Innovations in Electrochemical Science and Technology** during 10-14, December 2013 by the Department of Chemistry, *N I T Warangal*, Telangana, India.

### EXPERIENCE AS REVIEWER AND GUEST EDITOR

- Reviewer:** Biosensors and Bioelectronics, Scientific Reports, Sensors and Actuators B Chemical, Bioelectrochemistry, Journal of Alloys and Compounds, Talanta, Materials Communications, Journal of Pharmaceutical and Biomedical Analysis, Journal of Hazardous Materials, Toxins, Sensors, Biosensors” etc.
- Guest Editor: MDPI Sensors (IF 3.576)** Special Issue on "Wearable Sensors for Biomedical, Environmental, and Security Applications"  
([https://www.mdpi.com/journal/sensors/special\\_issues/wearable\\_stretchable\\_sensors](https://www.mdpi.com/journal/sensors/special_issues/wearable_stretchable_sensors) )
- Guest Editor: MDPI Biosensors (IF 5.519)** Special Issue on " Label and Label-Free Aptasensors"  
([https://www.mdpi.com/journal/biosensors/special\\_issues/label\\_aptasensors](https://www.mdpi.com/journal/biosensors/special_issues/label_aptasensors))

### HONOURS AND AWARDS

- "**Ramanujan Fellowship**" from Department of Science and Technology, India, 2021-22
- I have been awarded 22 months **Erasmus Mundus EUPHRATES exchange fellowship** between NIT Warangal and the University of Perpignan, France
- I have been awarded the **best poster** presentation at Sixteenth International Symposium on Electroanalytical Chemistry (16<sup>th</sup> ISEAC), Changchun, Jilin, China
- Qualified in Graduate Aptitude Test in Engineering (**GATE**) 2013, India.
- Secured 54<sup>th</sup> rank in National Institute of Technology Warangal Entrance Test (**NITWET**) 2009 for M.Sc. Admissions.