

# CV of DR. NAGARAJ P. SHETTI M.Sc., Ph. D., Post-Doc.

## Head & Associate Professor

Center for Electrochemical Science & Materials

Department of Chemistry

KLE Institute of Technology, Hubballi-580030, Karnataka, India

Affiliated to Visvesvaraya Technological University, Karnataka, India

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## Academic Qualification

Degree	Board/University	Subjects
<b>Ph.D.</b> (2006- 2010) Full Time	P.G. Department of Studies in Chemistry, Karnatak University, Dharwad, India	<b>Ph.D. Thesis:</b> "Structure reactivity studies of some liquid phase oxidation reactions of biological importance" <b>Supervisor: Prof. S. T. Nandibewoor</b>
<b>M. Sc.</b> (2003- 2005) Full Time	P.G. Department of Studies in Chemistry, Karnatak University, Dharwad, India	Physical Chemistry
<b>B. Sc.</b> (2000- 2003) Full Time	Kittel Science College, Dharwad, Karnatak University, Dharwad, India	Physics, Chemistry & Mathematics

## Research Interest & Highlights

- Electro-analytical Chemistry (Analysis of Bio/Toxic Molecules)
  - Synthesis of Novel Materials (for Sensors & Photoelectrochemical water spitting)
  - Electrochemical Energy Systems (Bioenergy, Battery technology, Fuel cells, Supercapacitors)
  - Environmental Chemistry (Degradation of toxic molecules)
  - Reaction Kinetics & Catalysis (Degradation of toxic/bio molecules)
- **Students Guided for Ph.D.:** 02; **Students Pursuing Ph.D.:** 05;
- **Students Projects Undertaken:** PG < 60; UG < 150
- **International Publications** : 155 (Published); **Communicated:** 10; **Total Impact Factor** ≥ 340
- **Research articles:** 93 ; **Review articles:** 25 ; **Conference Proceedings:** 28 ; **Book Chapters:** 09
- **Book edited:** 00; **Book edited (under construction):** 04; **Book Chapters Under Construction:** 05;
- **No. of National/International Conferences/Seminars/Discussion Meet Attended:** 60;
- Research Work Cited in Text Books, Reviews and Journals > **2843 citations**;
- h-index = **33**; i10-index = **73** (from Google Scholar)

## Employments Details

S. No.	Organization	Position Held	Date of Joining	Date of Leaving
1	Department of Chemistry, KLE Institute of Technology, Hubballi, Karnataka, India	Head & Associate Professor	September, 2018	
2	Department of Chemistry and Biochemistry, Lamar University, Beaumont, TX, 77710, USA	Visiting Professor	July, 2018	September, 2018
3	Department of Chemistry, KLE Institute of Technology, Hubballi, Karnataka, India	Head & Associate Professor	November, 2016	July, 2018
4	Department of Chemistry, KLE Institute of Technology, Hubballi, Karnataka, India	Head & Assistant Professor	April, 2012	November, 2016
5	Materials Chemistry Lab, Department of Natural Science, Korea University, South Korea	Research Professor	April, 2011	April, 2012
6	Department of Chemistry, KLE Institute of Technology, Hubballi, Karnataka, India	Lecturer	April, 2010	April, 2011
7	Physical Chemistry, P.G. Department of Studies in Chemistry, Karnatak University, Dharwad, India	Guest Lecturer	August, 2007	June, 2008
8	Department of Chemistry, Anjuman Arts, Science and Commerce College, Bhatkal, Karnataka, India.	Lecturer	August, 2005	December, 2006

**\*Post-Doc research work** carried out in Materials Chemistry Lab, Department of Natural Science, Korea University, Seoul, South Korea on **“Electro-deposition of selenium on rotating disk electrode for the photovoltaic applications”** under the supervision of **Prof. Chi-Woo Lee** since 2011- 2012.

## Subjects Taught at Undergraduate Level

- Engineering Chemistry
  - Electrochemical Cells & Electrodes
  - Electrochemical Energy Storage Systems
  - Corrosion Science & Technology
  - Metal Finishing
  - Chemical Fuels & Bio-fuels
  - Water Technology
  - Waste Management
  - Instrumental Methods of Analysis (Theory & Laboratory Experiments)
  - Nanomaterials & Nanotechnology
  - Polymer Technology
- Physical Chemistry
  - Chemical Kinetics
  - Chemical Equilibrium
  - Chemical Thermodynamics
  - Electrochemistry
  - Spectroscopy

## Academic Responsibilities/Other Activities

1. **Head of the Department of Chemistry** in KLE Institute of Technology, Hubballi, since 2012.
2. **Examination Evaluator** for practical as well theory examinations, since 2012.
3. **Examination Co-ordinator**, in KLEIT, Hubballi, Karnataka, 2012-13.
4. **First Year Students Co-ordinator**, in KLEIT, Hubballi, Karnataka, 2013-14.
5. **Co-ordinator** for a **“Two days National Level Technical Fest- Advitiya-2014”** in KLEIT-2014
6. **Gymkhana Chairman** in KLE Institute of Technology, Hubballi, 2015-16.
7. **Member of Board of Examiner (BOE)** in Visvesvaraya Technological University (VTU), Belagavi, Karnataka, 2017-18.
8. **Managing Committee Board member of Indian Society for Electroanalytical Chemistry**, Bhabha Atomic Research Center, Trombay, Mumbai, 2017-2019.
9. **Gymkhana Chairman** in KLE Institute of Technology, Hubballi, 2018-19.
10. **External Referee** for **PhD thesis, other Scientific Reports and Projects**.
11. **Event Chairman** for **Workshop on Writing Scientific Research Articles** in KLEIT on Jan 2019.
12. **Entrepreneurship Cell Coordinator**, in KLE Institute of Technology, Hubballi, 2019-20.

## Social Responsibilities/Other Activities

13. **Secretary for 60<sup>th</sup> Birthday celebration of Prof. S. T. Nandibewoor & Felicitation**, 2014, raised funds are utilized to initiate **Lecture series and a Gold Medal** for Toppers in Department of Chemistry, Karnataka University, Dharwad and initiated **Young Researcher Award** for best research presentations in Indian Chemical Society Conference.
14. **New Generation Director**, Rotary Club of Hubli North, 2015-16, raising the funds and utilized for Distribution of education materials to poor students/orphans etc., hosted many competitions like Sports tournaments, Painting/Drawing, Quiz, Scientific projects etc.
15. **Event Chairman for "All India Open Fide Rating Rapid Chess Tournament"** organized by Rotary Club of Hubli North in association with KLE Institute of Technology, Hubballi. on 25<sup>th</sup> & 26<sup>th</sup> July 2015. Total Cash Prize: Rs. 1,50,000/- Total Trophies: 83; Total participants: 340 (from 16 states); Grand Master : 02; Women Grand Master : 02; International Masters : 08; Fide Masters : 05.
16. **Joint Secretary for Dharwad District Chess Association**, Dharwad, Karnataka, India.
17. **Event Co-ordinator for "Gossima- A State Level Table Tennis Tournament"** on 3<sup>rd</sup> -4<sup>th</sup> October 2015.
18. **Vocational Training Team member by Rotary International** to represent Rotary District -3170 to visit **Rotary District-5330 California, USA on Milk Analysis and Dairy Products**, (28<sup>th</sup> April – 25<sup>rd</sup> May, 2016)
19. **Vocational Service Director** in Rotary Club of Hubli North, 2016-17.
20. **Joint Secretary**, for **Go-Green** Program organized by Rotary Club of Hubli North in association with KLE Institute of Technology, Hubballi. We were planted 1000 trees in one day at KIADB Industrial Area, Gamanagatti, Hubballi, Karnataka.
21. **Joint-Secretary** in Rotary Club of Hubli North, 2017-18.
22. **Secretary** in Rotary Club of Hubli North, 2018-19.
23. **Event Chairman for "All India Open Fide Rating Chess Tournament"** organized by Rotary Club of Hubli North in association with KLE Institute of Technology, Hubballi on 27<sup>th</sup> & 31<sup>st</sup> October 2018. Total Cash Prize: Rs. 3,00,000/-; Total Trophies: 103; Total participants : 257 (from 11 states); Grand Master : 01; Women Grand Master : 01; International Masters : 04; Fide Masters : 02.
24. **Vice-President** in Rotary Club of Hubli North, 2019-20.

## Invited Talks/Lectures/Technical Session Chairman

1. **Lecture in Materials Chemistry Lab, Korea University, Sejong Campus, South Korea** 11<sup>th</sup> April 2012.
2. **Invited speaker in Analytical Chemistry Section** and worked as **presentation evaluator in Physical Chemistry section** in 34<sup>th</sup> Annual Conference **Indian Council of Chemists**, held at Department of Chemistry, UKA Tarsadia University, Bardoli, Surat, Gujarat, India on 26<sup>th</sup> -28<sup>th</sup> December 2015.

3. **Invited Speaker in Electrochemistry Section**, 12<sup>th</sup> Indian Society for Electroanalytical Chemistry-Discussion Meet 2016 (**12<sup>th</sup> ISEAC-DM, 2016**) in Acres Club, Chembur, Mumbai, India on 7<sup>th</sup> -8<sup>th</sup> December 2016.
4. **Involved and contributed to Faraday Discussion** held by Royal Society of Chemistry, Cambridge, UK held at **Indian Institute of Technology, Mumbai India** on 7<sup>th</sup> – 9<sup>th</sup> January, 2016.
5. **Invited Speaker** in Department of Chemistry, **PES's RSN College of Arts and Science, Farmagudi, Ponda-403001, Goa, India** on 30<sup>th</sup> January 2016.
6. **Invited speaker in Sensors Section** in International Conference on Nanotechnology: Ideas, Innovations & Initiatives-2017 (**ICN:3I-2017**), 6<sup>th</sup> -8<sup>th</sup> December 2017 in **Indian Institute of Technology, Roorkee, India**.
7. **Technical Session Co-Chairman in Sensors Section** in International Conference on Nanotechnology: Ideas, Innovations & Initiatives-2017 (**ICN:3I-2017**), 6<sup>th</sup> -8<sup>th</sup> December 2017 held at **Indian Institute of Technology, Roorkee, India**
8. **Invited speaker in Electroanalytical Section** in **CEAMCR-2018, DAE Convention Centre, Bhabha Atomic Research Centre, Trombay, Mumbai**, 15<sup>th</sup>-17<sup>th</sup> February 2018.
9. **Speaker** at International Symposium on Functional Materials (ISFM) by **Indian Institute of Technology, Kanpur, India, Panjab University, Chandigarh and University of Illinois at Chicago** held at Chandigarh on 13<sup>th</sup> – 15<sup>th</sup> April 2018.
10. **Discussions meet with Prof. Robert Curl, Prof. Tejraj M. Aminabhavi and Prof. Shyam S. Shukla** in **Department of Chemistry and Materials, Rice University, Houston, Texas, USA** on 5<sup>th</sup> August 2018.
11. **Discussions meet** in Department of Chemistry and Biochemistry, Lamar University, Beaumont, Texas 77710, USA on 16<sup>th</sup> August 2018.
12. **Invited speaker** in Analytical Chemistry Section in 37<sup>th</sup> Annual Conference, **Indian Council of Chemists** held at National Institute of Technology, Karnataka (NITK), on 12<sup>th</sup> -14<sup>th</sup> December 2018.
13. **Involved and contributed to Discussion Meet on Materials & Electrochemistry** organized by Department of Energy Science & Engineering, **IIT Bombay** and **Indian Society for Electroanalytical Chemistry, Bhabha Atomic Research Centre, Mumbai, India** in VMCC, IIT Bombay, India on 28<sup>th</sup> September 2019.
14. **Scientific Project Judge** for Avishkar, Inter School Science Fest-2019 organized by The Hindu and Excellent Science and Commerce PU College held at Shubhodaya Hall, Hubballi, Karnataka on 21<sup>st</sup> December 2019.
15. **Invited speaker** in Physical Chemistry Section in 38<sup>th</sup> Annual Conference, **Indian Council of Chemists** held at Jaipur National University, Jaipur, Rajasthan (JNU), on 26<sup>th</sup> -28<sup>th</sup> December 2019.
16. **Invited speaker** in International Conference on Electrochemistry in Industry, Health and Environment (EIHE-2020) organized by Indian Society for Electroanalytical Chemistry held at DAE

Convention Center, Bhabha Atomic Research Center, Mumbai, Maharashtra on 21<sup>st</sup> -25<sup>th</sup> January 2020.

17. **Resource Person** in Short Term Training Program on Outcome Based Education and NBA Accreditation, 27<sup>th</sup> January to 1<sup>st</sup> February 2020 Sponsored under TEQIP 1.3 organized by Visvesvaraya Technological University, Belagavi-18 held at KLE Institute of Technology, Hubballi, Karnataka on 1<sup>st</sup> February 2020.
18. Conference Session Chairman & Scientific Presentation Judge in National Level Conference Under CPE Programme on Recent Novel Approaches in Chemical Science organized by Department of Chemistry, Field Marshal KM Cariappa College, Madikeri, Constituent College of Mangalore University, Karnataka on 12<sup>th</sup> February 2020.

## Professional Society Memberships

1. Life Fellow of **Indian Council of Chemists**, Agra (LF No. 1350)
2. Life Member of **Indian Chemical Society**, Kolkata (LM No. 7228)
3. Life Member of **Chemical Research Society of India** (LM No. 1586)
4. Life Member of **Indian Society for ElectroAnalytical Chemistry**, (LM No. 244)
5. Member of **Royal Society of Chemistry, Cambridge, UK** (MRSC, 616546)
6. Member of **International Society for Electrochemistry**, USA
7. Member of **Rotary International**
8. Member of **Dharwad District Chess Association**
9. **Managing Committee Board member of Indian Society for Electroanalytical Chemistry**, Bhabha Atomic Research Center, Trombay, Mumbai, 2017-2019.

## Appreciation/Honors/Recognition Awards

1. **“Appreciation of Your Achievement Award”** by K. L. E. Society, Belgaum, Karnataka, India, September 2010 and March 2011.
2. **“Post-Doctoral Researcher”** under National Research Foundation of Korea, in Materials Chemistry Lab, Department of Natural Science, Korea University, South Korea.
3. **“Young Scientist Award”** by Indian Council of Chemists, India, 29<sup>th</sup> December 2012.
4. **“Appreciation Award”** by 60<sup>th</sup> birthday of Prof. S. T. Nandibewoor felicitation committee on 16<sup>th</sup> January 2014.
5. Selected from **Rotary International** as **Vocational Training Team Member** to visit California, U. S. A. 2016.
6. **MRSC** subtitle received from **Royal Society of Chemistry**, Cambridge, U. K.
7. **“Seed Money for Young Scientist”** by Vision Group of Science & Technology, Government of Karnataka State, Karnataka, India for the year 2016-17.

8. **“Maximum Participation from Single Institution Award”** in International Conference on Nanotechnology, Ideas, Innovatives, Initiatives: -2017, (ICN: 3I 2017) held at IIT, Roorkee, on 6-8 December 2017.
9. **Outstanding Contribution in Reviewing Award** from **Vacuum** Journal, Elsevier, Netherland.
10. **Received Invitation to visit** Department of Chemistry and Biochemistry, Lamar University, Texas State University, Texas, USA as **Visiting Professor**.
11. **Certificate of Recognition** received from Indian Society for Electroanalytical Chemistry (ISEAC), Bhabha Atomic Research Center, Mumbai for popularizing ISEAC activities in Karnataka region in the field of Electrochemical Science.
12. Received many **Awards in Chess and in Photography Competitions**.

## Research Grant Received

Sl. No.	Title of the project	Role	Funding Agency	Amount sanctioned	Duration
1	Modern Water Treatment Degradation Nanomaterials Applications by Method	Principal Investigator	Vision Group of Science & Technology, Government of Karnataka, Bangalore, Karnataka, India	Rs. 5,00,000/-	2017-2019

## Ph D Students Awarded/Pursuing

Sl No.	Name of the Student	Ph. D. Thesis Title & Examiners	Status
1	Dr. Shikandar D. B.	<b>Electrochemical studies of some bioactive compounds of pharmaceutical importance</b> Examiners: <b>Foreign Examiner:</b> Unknown <b>External Examiner:</b> Dr. Ashis K. Satpati, Scientist-G, Analytical Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai, India <b>Internal Examiner:</b> Dr. Nagaraj P. Shetti, KLEIT,	<b>Awarded in 2018</b>

		Hubballi	
2	<b>Mrs. Deepti S. Nayak</b>	<b>Electroanalysis of novel bioactive compounds</b> Examiners: <b>Foreign Examiner:</b> Unknown <b>External Examiner:</b> Prof. Rajendra N. Goyal, Emeritus Professor, Department of Chemistry, Indian Institute of Technology, Roorkee, India <b>Internal Examiner:</b> Dr. Nagaraj P. Shetti, KLEIT, Hubballi	<b>Awarded in 2018</b>
3	Mr. Davalabas Ilager	Application of some nanoparticles for the degradation of toxic molecules	Not submitted
4	Mr. Pramod D. V.	Electrooxidation of some bioactive molecules and analytical applications	Not submitted
5	Mr. Mahesh Shanbhag	Synthesis and characterisation of some nanoparticles for electrochemical sensors	Not submitted
6	Mrs. Lakshmi Kiledar	Novel carbon based electrodes for electrochemical sensors-a biomedical application	Not submitted
7	Ms. Tejashwini M. A.	Electroanalysis of some pharmaceutical molecules	Not submitted

## Students Achievements (PhD/Project Students)

1. **Miss Deepti S. Nayak (Ph.D. Student)** has received **DST Inspired Fellowship** under AORC Scheme, Ministry of Science and Technology, Department of Science and Technology, Government of India, New Delhi, India. (From: 27<sup>th</sup> October 2014; Fellowship No: IF140678).
2. **Mr. Shikandar D. B. (Ph.D. Student)** has received **Best Poster Award** in 2<sup>nd</sup> National Conference on Emerging Trends in Chemistry and Materials Science on 23<sup>rd</sup> January 2016, GIT, Belagavi, Karnataka. Presentation Title: Electrochemical Sensing Base for Furosemide at Ag-doped TiO<sub>2</sub> nanoparticles modified electrode and its analytical application
3. **Mr. Shikandar D. B. (Ph.D. Student)** has received **Best Paper Presentation Award** in UGC Sponsored National Seminar on The Scope of Materials Science, 24<sup>th</sup> -25<sup>th</sup> March 2017 at G. S. S. College, Belagavi, Karnataka, India.
4. **Miss Deepti S. Nayak (Ph.D. Student)** has received "**Young Scientist Award**" in 35<sup>th</sup> annual national conference of **Indian Council of Chemists** held at Haribhai V. Desai College, Pune in association with College of Engineering, Pune on 22<sup>nd</sup>-24<sup>th</sup> December, 2016.



5. **Ms. Pooja U. B., Ms. Anusha S. C., Ms. Sneha S. P., and Ms. Pushpa M. H. (Project Students)** were selected in **KSCST Students Project** from Karnataka State Council for Science and Technology, Project title: Fabrication of graphene with actuate carbon made from cow dung as electrode material for electrochemical sensor – a biomedical application on March 2017.
6. **Mr. Manohar R Huralikuppi, Ms. Akshata Bammigatti, Mr. Shankargouda S Patil, and Mr. Sushant Kattimani (Project Students)** were selected in **KSCST Students Project** from Karnataka State Council for Science and Technology, Project title: Graphene Fabricated Nanomaterials for Water Treatment on March 2017.
7. **Ms. Pooja U. B., Ms. Anusha S. C., Ms. Sneha S. P., and Ms. Pushpa M. H. (Project Students)** received **Outstanding Project of the Year-2017 Award** from Karnataka State Council for Science and Technology, Project title: Fabrication of graphene with actuate carbon made from cow dung as electrode material for electrochemical sensor – a biomedical application on 12<sup>th</sup> August 2017.
8. **27 Project Students were Represented their Research** in an **International Conference on Nanotechnology: Ideas, Innovations & Initiatives 2017, ICN:3I-2017**, held at Indian Institute of Technology, Roorkee on 06<sup>th</sup> -08<sup>th</sup> December, 2017 and **Received Maximum Number of Participants From Single Institution Award**.
9. **32 Number of students (Ph.D. and Project Students)** were represented their research work in an **International Conference on Electrochemistry in Advanced Materials, Corrosion and Radiopharmaceuticals**, held at DAE Convention Centre, Bhabha Atomic Research Center, Anushaktinagar, Mumbai on 14<sup>th</sup> -17<sup>th</sup> February, 2018.
10. **Mr. Sharanbasava M. Sajjan (Project Student)** has received **“Best Poster Award”** in an **International Conference on Electrochemistry in Advanced Materials, Corrosion and Radiopharmaceuticals**, sponsored by ISEAC held at DAE Convention Centre, Bhabha Atomic Research Center, Anushaktinagar, Mumbai on 14<sup>th</sup> -17<sup>th</sup> February, 2018.
11. **Miss Deepti S. Nayak (Ph.D. Student)** has received **“Elsevier Young Scholar Award”** in an **International Conference on Electrochemistry in Advanced Materials, Corrosion and Radiopharmaceuticals**, held at DAE Convention Centre, Bhabha Atomic Research Center, Anushaktinagar, Mumbai on 14<sup>th</sup> -17<sup>th</sup> February, 2018.
12. **Mr. Rajath R Shiggaonkar, Ms. Priyanka Y. Rangrej, Ms. Jayashree C. Kalabhavi, and Ms. Anushri K. Hampiholi, (Project Students)** were selected in **KSCST Students Project** from Karnataka State Council for Science and Technology, Project title: Battery life enhancement- Energy storage Application on April 2018.
13. **Mr. Davalasab Ilager (Ph.D. Student)** is receiving **Minority Research Fellowship** under Directorate of Minority, Government of Karnataka, Bangalore, India . (From: 01<sup>th</sup> August 2018 to 30<sup>th</sup> November 2020; Fellowship No: CR-50/2018-19).
14. **Mr. Pramod R. Vernekar (Ph.D. Student)** has received **Prof. P. B. Panjabi Award-2018** for the best oral presentation of his paper in Analytical & Environmental Chemistry section in the **37<sup>th</sup> Annual National Conference of Indian Council of Chemists** held at **National Institute of Karnataka (NITK) Surathakal, Mangalore, Karnataka, India** on 12<sup>th</sup> -14<sup>th</sup> December 2018.

15. **Mr. Mahesh M. Shanbhag (Ph.D. Student)** has received **Prof. H. J. Arnikar Award-2018** for the best oral presentation of his paper in Physical Chemistry section in the **37<sup>th</sup> Annual National Conference of Indian Council of Chemists** held at **National Institute of Karnataka (NITK)** Surathakal, Mangalore, Karnataka, India on 12<sup>th</sup> -14<sup>th</sup> December 2018.
16. **Mr. Vikram Hattiholi (Project Student)** has received **Best Poster Award (2<sup>nd</sup> Place)** in TEQIP sponsored National Conference on Recent Trends in Biochemical Engineering and Biotechnology (RTBEB-2019) organized by Department of Biotechnology, KLE Technological University, Hubballi from 19<sup>th</sup> – 21<sup>st</sup> September, 2019.
17. **Miss. Sampada T (Project Student)** has received **Best Poster Award (3<sup>rd</sup> Place)** in TEQIP sponsored National Conference on Recent Trends in Biochemical Engineering and Biotechnology (RTBEB-2019) organized by Department of Biotechnology, KLE Technological University, Hubballi from 19<sup>th</sup> – 21<sup>st</sup> September, 2019.
18. **Mr. Mahesh M. Shanbhag (Ph.D. Student)** has received **Prof. M. Mohsin Qureshi Award-2019** for the best oral presentation of his paper in Analytical Chemistry section in the **38<sup>th</sup> Annual National Conference of Indian Council of Chemists** held at **Jaipur National University (JNU)** Jaipur, Rajasthan, India on 26<sup>th</sup> -28<sup>th</sup> December 2019.
19. **Mrs. Laxmi Killedar (Ph.D. Student)** has received **Young Scholar Award-2020** for the best poster presentation of her paper in **International Conference on Electrochemistry in Industry, Health and Environment (EIHE-2020)** organized by Indian Society for Electroanalytical Chemistry held at DAE Convention Center, Bhabha Atomic Research Center, Mumbai, Maharashtra on 21<sup>st</sup> -25<sup>th</sup> January 2020.
20. **Ms. Aishwarya C. Nadagouda (M. Sc., Project Student)** has received **Best Poster Award (1<sup>st</sup> Place)** for the poster presentation of her paper in National Level Conference Under CPE Programme on **Recent Novel Approaches in Chemical Science** organized by Department of Chemistry, Field Marshal KM Cariappa College, Madikeri, Constituent College of Mangalore University, Karnataka on 12<sup>th</sup> February 2020.

## International Reorganization (Editor and Reviewer)

### ➤ Editorial Board Member/Guest Editor/Associate Editor

1. **Editorial Board Member of Journal of Catalyst & Catalysis** (STM Publisher)
2. **Editorial Board Member of Materials Science for Energy Technologies** (KeAi + Elsevier Publisher)
3. **Guest Editor:** Special Issue on "**Carbonaceous Materials for Electrochemical Applications (CMEAP)**" in **International Journal of Electrochemistry** from 15<sup>th</sup> June to 15<sup>th</sup> December 2016.  
**Dr. N. P. Shetti, Dr. S. S. Kanalur**
4. **Guest Editor:** Special Issue on "**Materials for Energy Conversion and Storage**" in **Materials Science for Energy Technologies**, from 25<sup>th</sup> January to 15<sup>th</sup> June 2018.  
**Dr. N. P. Shetti, Dr. M. J. Pernian**

5. **Guest Editor:** Special Issue on “**Advanced Materials for Solid State Lighting**” in Materials Science for Energy Technologies; 1<sup>st</sup> June 2018 – 31<sup>st</sup> December 2019.  
Dr. V. Kumar, Dr. H. C Swart, Dr S. Som, **Dr. N. P. Shetti**
6. **Guest Editor:** Special Issue on “**Recent Advances in Nanomaterials for Energy Nexus**” in Materials Science for Energy Technologies; 1<sup>st</sup> September 2018 – 31<sup>st</sup> December 2019. Dr. S. K. Singh, Dr. K. Kumar, **Dr. N. P. Shetti**
7. **Guest Editor:** Special Issue on “**Materials Engineering for Batteries and Nanobiosensors**” in Materials Science for Energy Technologies; 15<sup>th</sup> December 2018 – 31<sup>st</sup> December 2019.  
Dr. P. Chandra, Dr. Y. N. Tan, **Dr. N. P. Shetti**, Dr. R. J. Mascarenhas
8. **Guest Editor:** Special Issue on “**Recent Trends in Renewable Energy**” in Materials Science for Energy Technologies; 15<sup>th</sup> August 2019 – 15<sup>th</sup> February 2020.  
Dr. S.V. Mohan, Dr. G.Velvizhi, Dr A.S. Kumar, Dr S.Murugavelh, **Dr. N. P. Shetti**
9. **Guest Editor:** Special Issue on “**Recent Trends in Renewable Energy**” in Materials Science for Energy Technologies; 15<sup>th</sup> August 2019 – 15<sup>th</sup> February 2020.  
Dr. S.V. Mohan, Dr. G.Velvizhi, Dr A.S. Kumar, Dr S.Murugavelh, **Dr. N. P. Shetti**
10. **Associate Editor** for **Materials Science for Energy Technologies** since 1<sup>st</sup> January 2019 (KeAi + Elsevier Publisher).
11. **Associate Editor** for **Sensors International** since 1<sup>st</sup> September 2019 (KeAi + Elsevier Publisher).

➤ **Invited Reviewer** (IF-Impact Factor)

1. Journal of Materials Chemistry A (**RSC Publication**, IF: 10.733)
2. Biosensors & Bioelectronics (**Elsevier Publication**, IF: 9.51)
3. Chemical Engineering Journal (**Elsevier Publication**, IF: 8.6)
4. Science of the Total Environment (**Elsevier Publication**, IF: 5.2)
5. Electrochimica Acta (**Elsevier Publication**, IF: 5.1)
6. Materials Science and Engineering C (**Elsevier Publication**, IF: 5.1)
7. Talanta (**Elsevier Publication**, IF: 4.8)
8. European Journal of Pharmaceutical Sciences (**Elsevier Publication**, IF: 3.756)
9. International Journal of Energy Research (**Wiley Publication**, IF: 3.301)
10. Journal of Pharmaceutical and Biomedical Analysis (**Elsevier Publication**, IF: 3.255)
11. Journal of Electroanalytical Chemistry (**Elsevier Publication**, IF: 3.012)
12. Analytical Biochemistry: Methods in Biological Sciences (**Elsevier Publication**, IF: 2.334)
13. Journal of Environmental Chemical Engineering (**Elsevier Publication**, IF: 1.335)
14. Chemical Data Collections (**Elsevier Publication**, IF: Pending)
15. Materials Science for Energy Technologies (**Elsevier Publication**, IF: Pending)
16. Sensing & Bio-Sensing Research (**Elsevier Publication**, IF: Pending)
17. Electroanalysis (**Wiley Publication**, IF: 2.851)
18. ChemistrySelect (**Wiley Publication**, IF:1.72)
19. Journal of Materials & Applied Science (**JSciMed Central Publication**, IF: Pending)
20. Plos One (**PLOS ONE Publication**, IF:2.806)
21. Journal of Solid State Electrochemistry (**Springer Publication**, IF:2.316)
22. Cogent Chemistry (**Taylor & Francis Publication**, IF: Pending)
23. Current Pharmaceutical Analysis (**Bentham Science Publication**, IF:2.316)
24. Current Medicinal Chemistry (**Bentham Science Publication**, IF:3.249)
25. Current Organic Synthesis (**Bentham Science Publication**, IF:1.917)
26. Current Pharmaceutical Analysis (**Bentham Science Publication**, IF:0.75)
27. Nanoscience & Nanotechnology – Asia (**Bentham Science Publication**, IF: Pending)

28. Current Green Chemistry (**Bentham Science Publication**, IF: Pending)
29. Current Graphene Science (**Bentham Science Publication**, IF: Pending)
30. Pharmaceutical Nanotechnology (**Bentham Science Publication**, IF: Pending)
31. Current Nanomaterials (**Bentham Science Publication**, IF: Pending)
32. International Journal of Electrochemistry (**Hindawi Publication**, IF: Pending)
33. Materials Chemistry and Physics (**Elsevier Publication**, IF: 2.78)
34. Journal of Physics and Chemistry of Solids (**Elsevier Publication**, IF: 2.75)
35. IEEE Sensors (**IEEE Publication**, IF: 3.012)
36. Materials Research Innovations (**Taylor & Francis Publication**, IF: Pending)
37. iScience (**Cell Press**, IF: 1.5)
38. Metrology and Measurement Systems (**Polish Academy of Sciences**, IF: 1.149)
39. Advanced Materials Letters (**VBRIPress**, IF: Pending)
40. Microchemical Journal (**Elsevier Publication**, IF: 3.2)
41. International Journal of Hydrogen Energy (**Elsevier Publication**, IF: 4.084)
42. Sensors International (**Elsevier Publication**, IF: Pending)
43. Journal of Alloys and Compounds (**Elsevier Publication**, IF: 4.175)
44. Journal of Environmental Management (**Elsevier Publication**, IF: 4.865)
45. Process Biochemistry (**Elsevier Publication**, IF: 2.883)
46. Current Analytical Chemistry (**Bentham Science Publication**, IF: Pending)
47. Review on Advanced Materials Science (**Wiley Publication**, IF: 2. 1)
48. Carbon (**Elsevier Publication**, IF: 7.466)
49. Indian Journal of Chemistry, Sec A
50. Microchemical Journal (**Elsevier Publication**, IF: 3.2)
51. Sensors International (**Elsevier Publication**, IF: Pending)
52. Renewable Energy (**Elsevier Publication**, IF: 6.274)
53. SN Applied Science (**Springer Publication**, IF: Pending)
54. Journal of Molecular Liquids (**Elsevier Publication**, IF: 4.561)
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56. Arabian Journal of Chemistry (**Elsevier Publication**, IF: 3.298)
57. Fuel (**Elsevier Publication**, IF: 5.128)
58. The Journal of Physical Chemistry (**ACS Publication**, IF: 4.309)
59. Bioprocess and Biosystems Engineering (**Springer Publication**, IF: 2.419)
60. ACS Applied Materials & Interfaces (**ACS Publication**, IF: 8.758)
61. ACS Applied Nano Materials (**ACS Publication**, IF: 4.309)
62. Applied Catalysis B: Environmental (**Elsevier Publication**, IF: 16.683)
63. Chemosphere (**Elsevier Publication**, IF: 5.778)
64. Scientific Reports (Nature, IF: 6.4)

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118. 2D/2D Heterojunction of MoS<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> nanoflowers for enhanced visibleLight-driven photocatalytic and electrochemical degradation of organic pollutants  
D. Monga, D. Ilager, **N. P. Shetti**, S. Basu, T. M. Aminabhavi  
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117. Ultrasonication and electrochemically-assisted synthesis of reduced graphene oxide nanosheets for electrochemical sensor applications  
S. D. Bukkitgar, N. P. Shetti, K. R. Reddy, T. A. Saleh, T. M. Aminabhavi  
***FlatChem*, 273 (2020) 100183 (Elsevier Publication; IF: Pending)**  
<https://doi.org/10.1016/j.flatc.2020.100183>
116. Sustainable environmental management and related biofuel technologies  
S. Sharma, A. Kundu, S. Basu, **N. P. Shetti**, T. M. Aminabhavi  
***Journal of Environmental Management*, 273 (2020) 111096 (Elsevier Publication; IF: 5.647)**  
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115. The COVID-19 Paradox: Impact on India and Developed Nations of the World  
A. Kundu, S. Basu, **N. P. Shetti**, A. K. Malik, T. M. Aminabhavi  
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111. Current treatment protocol for COVID-19 in India  
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***Sensors International* 1 (2020)100013 (Elsevier Publication; IF: Pending)**  
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**N. P. Shetti**, R. K. Srivastava, S. Sharma, S. Basu, T. M. Aminabhavi  
***Sensors International* 1 (2020) 100012 (Elsevier Publication; IF: Pending)**  
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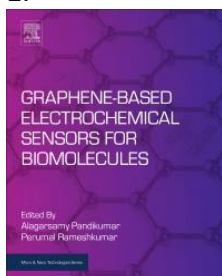
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## Publication of Invited Book Chapters

1.



**Chapter 10** - Graphene–Clay-Based Hybrid Nanostructures for Electrochemical Sensors and Biosensors

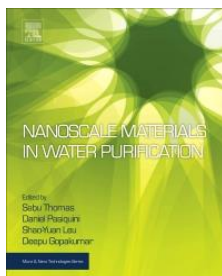
**N. P. Shetti**, D.S. Nayak, K. R. Reddy, T. M. Aminabhavi

**Graphene-Based Electrochemical Sensors for Biomolecules**

Micro and Nano Technologies, **Elsevier Publication**, 2019, Pages 235-274;

<https://doi.org/10.1016/B978-0-12-815394-9.00010-8>

2.



**Chapter 27** - Photocatalysis of Graphene and Carbon Nitride-Based Functional Carbon Quantum Dots

A. Mishra, S. Basu, **N. P. Shetti**, K. R. Reddy, T. M. Aminabhavi

**Nanoscale Materials for Water Purification**, Micro and Nano Technologies, **Elsevier Publication**, 2019, Pages 759-781

<https://doi.org/10.1016/B978-0-12-813926-4.00035-5>

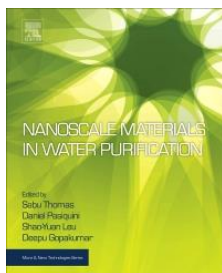
3.

**Chapter 30** - Recent Progress in TiO<sub>2</sub>- and ZnO-Based Nanostructured Hybrid Photocatalysts for Water Purification and Hydrogen Generation

C. V. Reddy, K. R. Reddy, **N. P. Shetti**, A. Mishra, S. Basu,

**Nanoscale Materials for Water Purification**, Micro and Nano Technologies, **Elsevier Publication**, 2019, Pages 815-843

<https://doi.org/10.1016/B978-0-12-813926-4.00039-2>



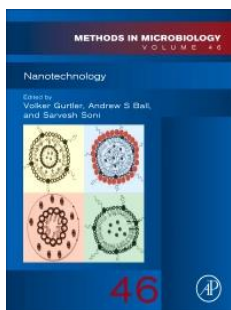
4.

**Chapter 10** - Functionalized magnetic nanoparticles/biopolymer hybrids: Synthesis methods, properties and biomedical applications

K. R. Reddy, P. A. Reddy, C. V. Reddy, **N. P. Shetti**, B. Babu, K. Ravindranadh, M. V. Shankar, M. C. Reddy, S. Soni, S. Naveen

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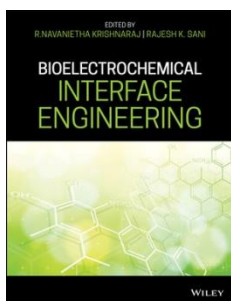
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**Chapter 17**- Modernization of biosensing strategies for the development of lab-on-chip integrated systems electrochemical systems for healthcare applications

S. Roy, S. J. Malode, **N. P. Shetti**, P. Chandra

**Bioelectrochemical Interface Engineering, Wiley Publication**, 2019, Pages 325-342

<https://doi.org/10.1002/9781119611103.ch17>



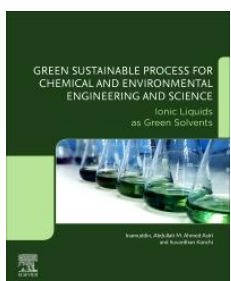
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**Chapter 7** - Recent developments in ionic liquid-based electrolytes for energy storage supercapacitors and rechargeable batteries

A. Mishra, N. P. Shetti, S. Basu, K. R. Reddy, T. M. Aminabhavi

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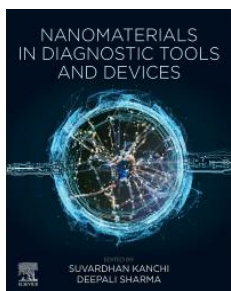
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**Chapter 4** - Metal oxide-based nanosensors for healthcare and environmental applications

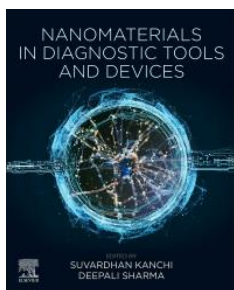
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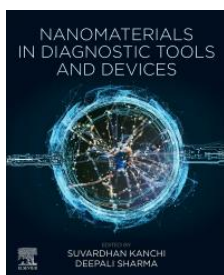
**Chapter 11 - Electroanalytical techniques for investigating biofilms: Applications in biosensing and biomolecular interfacing**

**N. P. Shetti, S. J. Malode, S. Roy, P. Chandra, K. R. Reddy, S. Chatterjee**

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**Chapter 19 - Fundamentals, recent advances, and perspectives of electrode materials for bioelectrochemical sensing applications**

S. Chatterjee, **N. P. Shetti**, K. R. Reddy

**Nanomaterials in Diagnostic Tools and Devices, Elsevier Publication, 2020, Pages 557-589**

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