

CURRICULUM VITAE

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PROFESSIONAL EXPERIENCE

- Sept. 2018 – till date** : Associate Professor, CNMS, Jain University, Bangalore, INDIA.
Apr. 2014 – Aug. 2018 : Assistant Professor, CNMS, Jain University, Bangalore, INDIA.
Sept. 2013 – Apr. 2014 : Postdoctoral Fellow, University Sains Malaysia, MALAYSIA.
Sept. 2012 – Aug. 2013 : Postdoctoral Fellow, University Teknologi Malaysia, MALAYSIA.
Jul. 2011 – Jul. 2012 : Postdoctoral Fellow, University Sains Malaysia, MALAYSIA.
Apr. 2010 – Mar. 2011 : Postdoctoral Researcher, Pusan National University, REPUBLIC OF KOREA.

VISITING POSITION

- June 2016 – July 2016** : Visiting Scientist, Dipartimento di Scienze Chimiche, Università di Padova, Padova, ITALY.

EDUCATION

- Ph.D.**, in Chemistry – Karnatak University, Dharwad, India, awarded in 2010.
M.Sc., in Chemistry – Gulbarga University, Gulbarga, India, awarded in 2005.
B.Sc., in Chemistry – Vijayanagara College, Hospet, India, awarded in 2003.

ACHIEVEMENTS AND AWARDS

- 2016:** Awarded Visiting Scientist position from University of Padova, Padova, Italy.
2013–2014: Awarded Postdoctoral Fellowship from University Sains Malaysia, Malaysia.
2012–2013: Awarded Postdoctoral Fellowship from University Teknologi Malaysia, Malaysia.
2011–2012: Awarded Postdoctoral Fellowship from University Sains Malaysia, Malaysia.
2010–2011: Awarded Postdoctoral research fellowship from Pusan National University, Republic of Korea, under the head, World Class University program.

- 2006–2010:** Awarded *Research Fellowship in Science for Meritorious Students* by University Grants Commission, Government of India, during doctoral studies.
- 2005 :** Recipient of Prof. E. S. Jayadevappa's 60th Birthday commemorative Gold Medal for securing I Rank in M. Sc. Inorganic Chemistry.
- 2005 :** Recipient of Prof. A. C. Hiremath felicitation committee fund Gold Medal for securing highest marks in Analytical, Inorganic, Organic, Physical and Pharmaceutical branches of Chemistry.
- 2005 :** Recipient of Miss. Mohana Memorial Gold Medal for securing highest marks in Analytical, Inorganic, Organic, Physical and Biochemistry branches.
- 2005 :** Received Special Gold Medal from Vasavi Union Charitable Trust Bangalore for securing I Rank in M. Sc. Chemistry among successful Arya–Vaishya candidates.
- 2004 :** Recipient of Prof. Y. S. Agasimundin's Felicitation committee fund fellowship for securing highest marks in M. Sc. I and II semesters.

RESEARCH INTERESTS

- N–heterocyclic carbene (NHC)–complexes as homogenous catalysts
- NHC–complexes as electrocatalysts
- Biologically relevant NHC–complexes
- NHC–complexes as fluorescent / luminescent materials

GRANTS HANDLING

4. Title: Cobalt, nickel and palladium carbene complexes as molecular electrocatalysts for overall water splitting
Funding Agency: SERB, Department of Science and Technology, Govt. of India
Duration: 3 years (Jan 2021 – Jan 2024)
Amount Sanctioned: **Rs. 50,98,764** INR (approx. 72,000 USD)
3. Title: Development of heavy metal ion sensor for food and water analysis (Co–PI)
Funding Agency: Department of Science and Technology, Govt. of India
Duration: 2 years (July 2019 – June 2021)
Amount Sanctioned: **Rs. 30,00,000** INR (approx. 47,000 USD)
2. Title: Palladium(II) and nickel(II) complexes of nitrogen–functionalized N–heterocyclic carbenes as C–H activation and/or C–C/C–N coupling catalysts
Funding Agency: SERB, Department of Science and Technology, Govt. of India (Fast Track Scheme)

Duration: 3 years (from December–2015)

Amount Sanctioned: **Rs. 25,75,000 INR** (approx. 40,000 USD)

1. Title: Silver(I) complexes of O–functionalized N–heterocyclic carbenes as metallodrugs

Funding Agency: Jain University, Bangalore, India (Start Up Scheme)

Duration: 3 years (July 2014 – June 2017)

Amount Sanctioned: **Rs. 7,50,000 INR** (approx. 11,700 USD)

RESEARCH SUPERVISION

I. Post-doctoral fellow:

- 1) **Dr. Gautam Achar** (2019: Palladium and Gold Complexes of Functionalized NHC ligands as C–C and C–N coupling agents)

II. Ph. D.s Awarded:

- 1) **Mr. Gautam Achar** (2019: Synthesis, Characterization and Applications of Silver(I), Gold(I) and Palladium(II) Complexes Derived from Coumarin Tethered N–heterocyclic Carbenes)
- 2) **Ms. Shahini C. R.** (co–supervisor) {2019: Synthesis and Structural Elucidation of (Benz)imidazol–2–ylidene and Triazol–5–ylidene Complexes of Late Transition Metals for Catalytic and Biological Applications)
- 3) **Ms. Geetha B. M.** (co–supervisor) {2021: Synthesis, characterization and applications of silver(I) and palladium(II) complexes bearing functionalized N–heterocyclic carbenes}
- 4) **Ms. Brinda K. N.** (2022: Synthesis, characterization and applications of silver(I), gold(I), nickel(II) and manganese(I) complexes derived from functionalized N–heterocyclic carbenes)

III. Ph. D.s On–going:

- 1) **Ms. Rashmi Kadu** (Ni and Au N–heterocyclic carbene complexes as electrocatalysts for quantitative determination of pesticides)
- 2) **Ms. Nupoor Neole** (Ru and Pd N–heterocyclic carbene complexes as electrocatalysts for quantitative determination of narcotics)
- 3) **Mr. Nayan Kumar H. N.** (Nanomaterials and their conjugated polymer composites for water analysis and water splitting reactions)
- 4) **Mr. Zhoveta Youbu** (Investigation of non-precious metals based oxides and N–heterocyclic carbene complexes as electrocatalysts)
- 5) **Ms. Monica V.** (Ni–N–heterocyclic carbene complexes as electrocatalysts in hydrogen and oxygen evolution reactions)

- 6) **Mr. R. Thrilokraj** (Co-supervisor: Co-N-heterocyclic carbene complexes as electrocatalysts in hydrogen and oxygen evolution reactions)
- 7) **Mr. Yeshwanth P.** (Study of polymorphism in active pharmaceutical ingredients derived from N-heterocyclic compounds)
- 8) **Mr. Santosh Padaki** (Design and development of N-heterocyclic carbene complexes as efficient catalysts in organic transformation reactions)

IV. *M. Sc. Awarded:*

- 1) **Mr. Uppendranath K.** (2016: Silver(I) N-heterocyclic carbene complexes of coumarin substituted benzimidazol-2-ylidenes: Synthesis, crystal structure and antimicrobial studies)
- 2) **Ms. Ramya V. C.** (2016: Silver complexes of coumarin-tethered N-heterocyclic carbene ligands as antibiotics)
- 3) **Ms. Pallavi Hokrani** (2017: Silver(I)-N-heterocyclic carbene complexes of 'N and O' functionalized (benz)imidazol-2-ylides: Synthesis, crystal structures and antimicrobial studies)
- 4) **Ms. Poorvika Agarwal** (2017: Ether and coumarin-substituted (benz)imidazolium salts and their silver(I)-N-heterocyclic carbene complexes: Synthesis, characterization, crystal structures and antimicrobial studies)
- 5) **Mr. Nirup Patil** (2018: Synthesis and characterization of carbostyryl-substituted (benz)imidazolium salts)
- 6) **Ms. Sindhushree K. S.** (2018: Gold(I) complexes of coumarin substituted N-heterocyclic carbene ligands: synthesis, characterization and electrochemical studies).
- 7) **Mr. Zhoveta Yhobu** (2019: Nickel(II) Complexes of Functionalized N-heterocyclic Carbenes and their Electrochemical Properties)
- 8) **Ms. Jyothi Lekshmi** (2019: Glaser-Type Coupling of Terminal Alkynes using Coumarin Substituted (Benz)imidazolium Bromides and Copper Iodide Systems)
- 9) **Ms. Vandana Venugopal** (2019: Co-supervisor: Synthesis and Characterization of Coumarin Substituted 1,2,4-Triazolium Bromides and their Application in Glaser-type Coupling in Combination with Copper Iodide)
- 10) **Ms. Monica V.** (2020: Coumarin Substituted Chiral 1,2,4-Triazolium Salts and their Silver(I)-N-heterocyclic Carbene Complexes: Synthesis, Crystal Structure and Characterization)
- 11) **Ms. R. Ashlesha** (2020: Synthesis and Characterization of Binuclear N-Heterocyclic Carbene Complexes)
- 12) **Mr. R. Thrilokraj** (2020: Co-supervisor: Synthesis and Characterization of Coumarin Substituted Imidazolium Salts and their Complexes)

- 13) **Mr. Siddesh Parakh** (2021: MoO₃ and MoS₂ as catalyst for hydrogen evolution reaction)
- 14) **Ms. Gautami R. K.** (2021: Co-supervisor: Synthesis and transhydrogenation studies of Ru N-heterocyclic carbene complexes)
- 15) **Mr. Ilavarasan V.** (2022: Synthesis, Characterization, Crystal Structure and Biological Applications of Novel Silver(I) N-Heterocyclic Carbene Complexes)
- 16) **Mr. Vishal Balaji** (2022: Synthesis, Characterization and Protein Binding Studies of New Silver(I) and Gold(I) N-Heterocyclic Carbene Complexes)
- 17) **Ms. Nanthini R.** (2022: Co-supervisor: New Nickel–N–Heterocyclic Carbene Complexes as Non–enzymatic Glucose Sensors)
- 18) **Mr. Prasad Poojary** (2022: Synthesis and characterization of coumarin substituted imidazolium salts)
- 19) **Mr. Shilpa K Das** (2022: Synthesis and characterization of 1,3-disubstituted imidazolium salts)
- 20) **Mr. Shivani T. V.** (2022: Synthesis and characterization of imidazolium salts bearing alkyl and coumarin substitutions)
- 21) **Ms. Anupama T. S. A.** (2023: Chan–Evans–Lam coupling for the synthesis of N–aryl derivatives catalyzed by copper(I) chloride and sterically varied imidazolium salts at mild reaction conditions)
- 22) **Ms. Ashly V. J.** (2023: Copper(I)–catalyzed Chan–Evans–Lam coupling for the synthesis of N–aryl azoles from azoles and phenylboronic acids)

V. M. Sc. On-going:

- 1) **Ms. Gurmeet Kaur** (Ruthenium complexes of Imine Functionalized NHC Ligands for Glaser Coupling Reactions)
- 2) **Ms. Bhargavi H.** (Synthesis and transhydrogenation studies of Ru N-heterocyclic carbene complexes)
- 3) **Mr. Akshay Gandigawad** (Synthesis, characterization and electrocatalytic studies of cobalt(II) N-heterocyclic carbene complexes)
- 4) **Ms. Buddharaju Vyshnavi** (Co-supervisor: Synthesis, characterization and glucose sensing application of nickel(II)-N-heterocyclic carbene complexes)

MSc and PhD TEACHING

Courses Taught (MSc):

1. Inorganic Chemistry (MSCCH101): Chemical Bonding (MSc I sem)
2. Inorganic Chemistry (MSCCH201): Structure and Bonding in Coordination Compounds; Organometallic Chemistry (MSc II sem)

3. Green Chemistry (MSCCH204): Green Chemistry Principles and Synthesis (MSc II sem)
4. Inorganic Chemistry Learning Lab (MSSCH106): Synthesis and characterization of coordination compounds and inorganic tertiary mixture analysis (MSc I sem)

Courses Taught (PhD Course Work):

1. **Course II: Core paper (20 h)**
 - Unit 4.1. Chemistry of transition elements
 - Unit 4.2. Coordination Chemistry
 - Unit 6.1. Organometallic Chemistry
 - Unit 6.2. Green Chemistry
2. **Course III: Chemistry of Carbenes (60 h)**
3. **Course IV: Characterization and Applications of Carbene Complexes (60 h)**
4. **Course III: Coordination and Organometallic Chemistry (60 h)**
5. **Course IV: Chemo and electro sensors (60 h)**

Peer reviews for: Coordination Chemistry Reviews (2); Organometallics (3); Journal of Organic Chemistry (1); ACS Catalysis (1); Chemical Communications (1); Journal of Medicinal Chemistry (1); Biosensors and Bioelectronics (2); Catalysis Communication (3); European Journal of Medicinal Chemistry (8); Inorganica Chimica Acta (7); Journal of Organometallic Chemistry (7); Inorganic Chemistry Communications (7); Applied Organometallic Chemistry (10); Spectrochimica Acta Part A (3); Pharmacological reports (2); RSC Advances (4); Reviews in Inorganic Chemistry (1); Mini Reviews in Medicinal Chemistry (1); Materials Letters (1); Journal of Coordination Chemistry (11); Anti-Cancer Agents in Medicinal Chemistry (1); Journal of Molecular Structure (9); Research on Chemical Intermediates (2); Progress in Organic Coatings (1); Chemical Biology and Drug Design (1); Materials Chemistry and Physics (1); Materials Science and Engineering C (1); Journal of Molecular Liquids (2); Journal of Pharmaceutical Analysis (1); Heteroatom Chemistry (1); Archiv der Pharmazie (1); Saudi Pharmaceutical Journal (1); Chemical Papers (1); 3Biotech (1); Biomedicine & Pharmacotherapy (1); Journal of Saudi Chemical Society (1); Journal of Applied Microbiology (1); New Journal of Chemistry (1); Inorganic and Nano-Metal Chemistry (1); ChemistrySelect (1); Chemical Data Collections (1).

Session Chair/Invited Talks in (Inter)national Conferences:

10. Invited lightning talk on the topic 'Electrocatalytic Applications of N-heterocyclic Carbene Complexes' in the Virtual Meet on the 'Trends in Organometallic Chemistry' Organized by 'Organometallics' - an American Chemical Society journal, held on 28th November, 2022.
9. Invited talk on the topic 'Carbene complexes as (electro)catalysts' in the 'Frontier Research in Chemical Sciences' (FRCS - 2021) Organized by The Department of Chemistry, Post

- Graduate Center, Jyoti Nivas College Autonomous, Bangalore, India held between 11th to 13th November, 2021.
8. *Invited talk* on the topic ‘Carbene-based Organometallics as Molecular Electrocatalytic Sensors’ in the Five days online Faculty Development Program (FDP) on Recent Advanced Technologies for the development of biosensors and their applications, organized by Department of Biotechnology, Sapthagiri College of Engineering, Bangalore, India held between 27th Sept 2021 to 1st Oct, 2021.
 7. *Invited talk* on the topic ‘NMR as a Powerful Technique in the Characterization of Organometallics’ in the Five Day Faculty Development Program on “Green & Sustainable Technologies-Advanced Analytical Techniques2021 (GST-AAT 2021), organized by Department of Chemistry, School of Applied Sciences, REVA University, Bangalore, India held between 21st to 25th June, 2021.
 6. *Invited talk* on the topic ‘Organometallics as (electro)catalysts’ in the Five Day Open Course June 2021 on APPLIED DESIGN THINKING & NANO RESEARCH, organized by Department of Chemistry, BMS Institute of Technology and Management, Bangalore, India held between 1st to 5th June, 2021.
 5. *Invited talk* on the topic ‘Organometallics derived from N-heterocyclic carbenes as efficient (electro)catalysts’ in the Two Day International Webinar on “Emerging Trends in Chemical Sciences”, organized by P G Department of Chemistry, Vijaya College, R V Road, Basavanagudi, Bangalore, India on 28th to 29th January, 2021.
 4. Chaired a session of invited speaker in ‘2nd National Seminar on Frontiers in Materials and Chemical Sciences (NSFMC 2020)’, organized by CNMS, JAIN (Deemed-to-be University), Bangalore, India during 31st August to 4th September 2020.
 3. *Invited talk* on the topic ‘Organometallics in Catalysis’ in the Two Day International Webinar on “Recent Trends in Microbes and Chemical Sciences” (RTMCS-2020), organized by Shri Gavisiddeshwar Arts, Science and Commerce College, Koppal, Karnataka, India on 27th to 28th August, 2020.
 2. Chaired the Oral presentation sessions in the Organic Chemistry section of the International Conference on “Accelerating Innovations in Material Science” (AIMS-2020), organized by the Department of Chemistry, BMS Institute of Technology & Management, Bengaluru, India from 4th to 7th August, 2020.
 1. Chaired a session of invited speakers in International Conference on Frontiers in Materials from Basic Science to Real Time Applications, Organized by CNMS, JAIN (Deemed-to-be University), Bangalore, India during 13–16 Mar, 2019.

RESEARCH PUBLICATIONS

PATENT

100. “Functionalized Iron Oxide based Heavy Metal Ion Sensor and its Device Fabrication”

Nagaraju D. H., Nayan Kumar H. N., **Srinivasa Budagumpi**, Zhoveta Yhobu, Shubhankar Kumar Bose, Mahadev L Shegavi, Phani Kumar D. S.
Indian Patent (Filed on 2021/08/19).
No: TEMP/E-1/42109/2021-CHE

BOOK CHAPTERS

99. “Catalytic role of bimetallic core towards olefin polymerizations” (Chapter–7)
Srinivasa Budagumpi and Il Kim
Book Chapter, in an edited book “*Focus on Catalysis Research: New Developments*” Editors: Minjae Ghang and Bjørn Ramel, ISBN: 978–1–62100–444–8. Nova Science Publishers, Inc. New York (2012) 187 – 208.
98. “Biopolymer-Based Composites” (Chapter–10)
D. H. Nagaraju, **Srinivasa Budagumpi** and Zhoveta Yhobu
Book Chapter, in an edited book “*Handbook of Biopolymers*” Editors: Sabu Thomas, Ajitha AR, Cintil Jose Chirayil, Bejoy Thomas, DOI: 10.1007/978-981-16-6603-2. Publisher: Springer Nature Singapore Pte Ltd. 2022.
97. “Working principles and sensing mechanisms of electrochemical sensors based on 2D materials” (Chapter–2)
Brinda K. N., Zhoveta Yhobu, D. H. Nagaraju, and **Srinivasa Budagumpi**
Book Chapter, in an edited book “*2D Materials-Based Electrochemical Sensors*” Editor: Chandra Sekar Rout, Paperback ISBN: 9780443152931. Publisher: Elsevier. June 2023.

REVIEW ARTICLES

96. Catalytic and coordination facets of single–site non–metallocene organometallic catalysts with N–heterocyclic scaffolds employed in olefin polymerizations
Srinivasa Budagumpi, Kwang–Ho Kim and Il Kim
Coordination Chemistry Reviews (IF: 13.476)
255 (23–24) (2011) 2785 – 2809.
DOI: 10.1016/j.ccr.2011.04.013
95. Stereochemical and structural characteristics of single and double site Pd(II) N–heterocyclic carbene complexes: Promising catalysts in organic syntheses ranging from C–C coupling to olefin polymerizations
Srinivasa Budagumpi, Rosenani A. Haque and Abbas Washeel Salman
Coordination Chemistry Reviews (IF: 13.476)
256 (17–18) (2012) 1787 – 1830.
DOI: 10.1016/j.ccr.2012.04.003
94. Group–XII metal–N–heterocyclic carbene complexes: Synthesis, structural diversity, intramolecular interactions, and applications
Srinivasa Budagumpi and Salasiah Endud
Organometallics (IF: 4.100) (Highlighted in *ChemInform*)

- 32 (6) (2013) 1537 – 1562.
DOI: 10.1021/om301091p
93. Biologically relevant silver(I)–N–heterocyclic carbene complexes: synthesis, structure, intramolecular interactions and applications
Srinivasa Budagumpi, Rosenani A. Haque, Salasiah Endud, Ghani Ur Rehman and Abbas Washeel Salman
European Journal of Inorganic Chemistry (IF: 2.578) (Mentioned on cover page)
2013 (25) (2013) 4367 – 4388. (Highlighted in *ChemInform*)
DOI: 10.1002/ejic.201300483
92. Chromones as a privileged scaffold in drug discovery: A review
Rangappa S. Keri, **Srinivasa Budagumpi**, Ranjith Krishna Pai and R. Geetha Balakrishna
European Journal of Medicinal Chemistry (IF: 4.833) (Highlighted in *ChemInform*)
78 (2014) 130 – 174.
DOI: 10.1016/j.ejmech.2014.03.047
91. A comprehensive review in current developments of benzothiazole – based molecules in medicinal chemistry
Rangappa S. Keri, Mahadeo R. Patil, Siddappa A. Patil and **Srinivasa Budagumpi**
European Journal of Medicinal Chemistry (IF: 4.833) (Highlighted in *ChemInform*)
89 (2015) 207 – 251.
DOI: 10.1016/j.ejmech.2014.10.059
90. Comprehensive review in current developments of benzimidazole – based medicinal chemistry
Rangappa S. Keri, Asha Hiremathad, **Srinivasa Budagumpi** and Bhari Mallanna Nagaraja
Chemical Biology and Drug Design (IF: 2.256)
86 (2015) 19 – 65.
DOI: 10.1111/cbdd.12462
89. Triazole: A promising antitubercular agents
Rangappa S. Keri, Siddappa A. Patil, **Srinivasa Budagumpi** and Bhari Mallanna Nagaraja
Chemical Biology and Drug Design (IF: 2.256)
86 (2015) 410 – 423.
DOI: 10.1111/cbdd.12527
88. N–heterocyclic carbene metal complexes as bioorganometallic antibacterial and anticancer drugs
Siddappa A. Patil, Shivaputra A. Patil, Renukadevi Patil, Rangappa S. Keri, **Srinivasa Budagumpi**, Geetha R. Balakrishna and Matthias Tacke
Future Medicinal Chemistry (IF: 3.617)
7 (2015) 1305 – 1333.
DOI: 10.4155/FMC.15.61
87. Olefin poly/oligomerizations by metal precatalysts bearing non–heterocyclic N–donor ligands
Srinivasa Budagumpi, Rangappa S. Keri, Andrea Biffis and Siddappa A. Patil
Applied Catalysis A: General (IF: 4.630)
535 (2017) 32 – 60.
DOI: 10.1016/j.apcata.2017.02.003
86. An overview of benzo[b]thiophene–based medicinal chemistry

- Rangappa S. Keri, Karam Chand, **Srinivasa Budagumpi**, Sasidhar Balappa Somappa, Siddappa A. Patil, Bhari Mallanna Nagaraja
European Journal of Medicinal Chemistry (IF: 4.833)
138 (2017) 1002 – 1033.
DOI: 10.1016/j.ejmech.2017.07.038
85. Quinoxaline and quinoxaline-1,4-di-N-oxides: An emerging class of antimycobacterials
Rangappa S. Keri, Sudam S. Pandule, **Srinivasa Budagumpi**, Bhari M. Nagaraja
Archiv der Pharmazie (IF: 2.145)
351 (2018) e1700325.
DOI: 10.1002/ardp.201700325
84. Coinage metal complexes of chiral-N-heterocyclic carbene ligands: Syntheses and applications in asymmetric catalysis (Categorized as **Very Important Publication**)
Srinivasa Budagumpi, Rangappa S. Keri, Gautam Achar, Brinda K. N.
Advanced Synthesis and Catalysis (IF: 5.851)
362 (2020) 970 – 997.
DOI: 10.1002/adsc.201900859
83. Metal-Metal Interactions in Bi-, Tri- and Multinuclear Fe, Ru and Os N-Heterocyclic Carbene Complexes and their Catalytic Applications
Brinda K. N., Rangappa S. Keri, Nagaraju D. H., **Srinivasa Budagumpi**
European Journal of Inorganic Chemistry (IF: 2.51)
42 (2021) 4349-4369.
DOI: 10.1002/ejic.202100258
82. Synthetic and natural coumarins as potent anticonvulsant agents: A review with structure–activity relationship
Rangappa S. Keri, **Srinivasa Budagumpi**, Sasidhar Balappa Somappa
Journal of Clinical Pharmacy and Therapeutics (IF: 2.512)
47 (2022) 915 – 931.
DOI: 10.1111/jcpt.13644
81. Recent Advances in On-Site Monitoring of Heavy Metal Ions in the Environment
Nayan Kumar H N, Nagaraju D. H, Zhoveta Yhobu, Shivakumar P, Manjunatha Kumara K. S., **Srinivasa Budagumpi**, Praveen B. M.
Microchemical Journal (IF: 5.3)
182 (2022) 107894
DOI: 10.1016/j.microc.2022.107894
80. Lignocellulose biopolymers and electronically conducting polymers: Towards sustainable energy storage applications
Zhoveta Yhobu, Aisha Siddiqa, Mahesh Padaki, **Srinivasa Budagumpi**, D. H. Nagaraju
Energy & Fuels (IF: 4.654)
In press
DOI: 10.1021/acs.energyfuels.2c03101
79. Progress in the Catalytic Applications of Cobalt N-heterocyclic Carbene Complexes: Emphasis on their Synthesis, Structure and Mechanism

Srinivasa Budagumpi, Rangappa S. Keri, D. H. Nagaraju, Zhoveta Yhobu, V. Monica, B. M. Geetha, Rashmi Dilip Kadu, Nupoor Neole
Molecular Catalysis (IF: 5.089)
In press 535 (2023) 112850.
DOI: 10.1016/j.mcat.2022.112850

RESEARCH ARTICLES

2023

78. Palladium(II) N-heterocyclic Carbene Complexes based Electrocatalysts for Hydrogen Evolution Reaction
Geetha Basappa Markandeya, Zhoveta Yhobu, Jan Grzegorz Malecki, Doddahalli H. Nagaraju, Virupaxappa S. Betageri, **Srinivasa Budagumpi**
Energy & Fuels (IF: 4.654)
In press
DOI:
77. Novel coumarin substituted N-heterocyclic carbene Ag(I), Au(I) and Ni(II) complexes as electrocatalysts in hydrogen evolution reactions from water
K.N. Brinda, Zhoveta Yhobu, Jan Grzegorz Malecki, Rangappa S. Keri, R. Geetha Balakrishna, D.H. Nagaraju and **Srinivasa Budagumpi**
International Journal of Hydrogen Energy (IF: 7.2)
In press
DOI: 10.1016/j.ijhydene.2022.12.124
76. Synergetic Effect of Ru @ Octahedral Site of Fe₃O₄ and Charge Transfer from rGO to Ru/Fe₃O₄ for Improved Hydrogen Evolution Reaction- Experimental and DFT Studies
K. R. Shwetha, Nagaraju D. H., Samadhan Kapse, Ranjit Thapa, **Srinivasa Budagumpi**, Zhoveta Yhobu
Materials Letters (IF: 3.574)
331 (2023) 133450
DOI: 10.1016/j.matlet.2022.133450

2022

75. Tuning the Surface Functionality of Fe₃O₄ for Sensitive and Selective Detection of Heavy Metal Ions
Manjunatha Kumara K. S., D. H. Nagaraju, Zhoveta Yhobu, Nayan Kumar H. N., **Srinivasa Budagumpi**, Shubhankar Kumar Bose, Shivakumars P., Venkata Narayana Palakollu
Sensors (IF: 3.847)
22 (2022) 8895
DOI: 10.3390/s22228895.
74. Aqueous, Non-Polymer-Based Perovskite Quantum Dots for Bioimaging; Conserving Fluorescence and Long-term Stability via Simple and Robust Synthesis

- Sanjayan C. G., Mannekote Shivanna Jyothi, Jessica Schiffman, Sakar Mohan, **Srinivasa Budagumpi**, R. Geetha Balakrishna
ACS Applied Materials and Interfaces (IF: 10.3)
34 (2022) 38471–38482
DOI: 10.1021/acsami.2c08087
73. Silver(I) N–heterocyclic carbene complex encapsulated cellulose acetate membranes for hydrogen gas purification
Vignesh Nayak, Prajwal Sherugar, Mahesh Padaki, Geetha B. M., **Srinivasa Budagumpi**
Journal of Coordination Chemistry (IF: 1.82)
75 (2022) 1159-1168.
DOI: 10.1080/00958972.2022.2109150
72. Coordination chemistry of silver(I), gold(I) and nickel(II) with bis-N heterocyclic carbenes: Applications in electrocatalytic hydrogen evolution reaction (**INVITED ARTICLE**)
Geetha B. M., Zhoveta Yhobu, Monica V., Jan Grzegorz Maleski, Nagaraju D. H., Mohammad Azam, Saud I. Al–resayes and **Srinivasa Budagumpi**
Journal of Coordination Chemistry (IF: 1.82)
75 (2022) 1744-1759.
DOI: 10.1080/00958972.2022.2107428
71. Pyridine–functionalized N–heterocyclic Carbene Gold(I) Binuclear Complexes as Molecular Electrocatalysts for Oxygen Evolution Reactions
Zhoveta Yhobu, B. M. Geetha, Jan Grzegorz Maleski, H. T. Srinivasa, Rangappa S. Keri, D. H. Nagaraju, Mohammad Azam, Saud I. Al-Resayes, **Srinivasa Budagumpi**
Applied Organometallic Chemistry (IF: 4.072)
36 (2022) e6837
DOI: 10.1002/aoc.6837
70. Copper(II)- β -Cyclodextrin Promoted Kabachnik-Fields Reaction: An Efficient, One-Pot Synthesis of α -Aminophosphonates
Rangappa Keri, Mahadeo Patil, Varsha P. Brahmkhatri, **Srinivasa Budagumpi**, Vinayak Adimule
Topics in Catalysis (IF: 2.91)
In press 2022
DOI: 10.1007/s11244-021-01556-4
- 2021**
69. Glucose electrocatalysts derived from mono- or dicarbene coordinated nickel(II) complexes and their mesoporous carbon composites
Zhoveta Yhobu, Brinda K. N., Gautam Achar, Jan Grzegorz Maleski, Rangappa S. Keri, Nagaraju D. H., **Srinivasa Budagumpi**
Applied Organometallic Chemistry (IF: 3.2)
35 (2021) e6446
DOI: 10.1002/aoc.6446

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1. Ligational behaviors of a bidentate coumarin derivative towards Co^{II}, Ni^{II} and Cu^{II}: Synthesis, characterization, electrochemistry, and antimicrobial studies
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PRESENATTIONS AT NATIONAL/INTERNATIONAL CONFERENCES

17. New nickel(II)-1,2,4-triazol-5-ylidines and their mesoporous carbon blends as electrochemical non-enzymatic glucose sensors
Zhoveta Yhobu, Brinda K. N., Jan Grzegorz Maflecki, Nagaraju D. H. and **Srinivasa Budagumpi**
At the First International conference on frontier areas of chemistry, Organized by Department of Chemistry, School of Physical Sciences, Mahatma Gandhi Central University, Motihari, East Champaran, Bihar India, during 28th and 29th Feb, 2020.
16. Functionalized iron oxide for an electrochemical determination of lead ions
Naya Kumar H. N., Zhoveta Yhobu, Mahadev L. Shegavi, Nagaraju D. H., **Srinivasa Budagumpi** and Shubhankar Kumar Bose
At the First International conference on frontier areas of chemistry, Organized by Department of Chemistry, School of Physical Sciences, Mahatma Gandhi Central University, Motihari, East Champaran, Bihar India, during 28th and 29th Feb, 2020.

15. Glaser–Type Coupling of Terminal Alkynes using Coumarin Substituted (Benz)imidazolium Bromide and Copper Iodide System (**BEST POSTER award**)
Jyothi Lekshmi M. V., Rangappa S. Keri, **Srinivasa Budagumpi**
At the National seminar on green approaches towards chemical synthesis, Organized by Post Graduate Department of Chemistry, St. Gregorios College, University of Kerala, Kottarakara, India, during 7th and 8th Nov, 2019.
14. Evaluation of Antioxidant and Antihaemolytic Efficacies of Silver(I) Complexes Derived from Aryl and Coumarin Substituted 1,2,4–Triazol–5–ylidenes (**BEST ORAL Presentation award**)
Geetha B. M., Jan Grzegorz Małeck, A. Madhavarani, Virupaxappa S. Betageri, **Srinivasa Budagumpi**
At the International conference on recent advances in applied sciences, Organized by School of Applied Sciences, Reva University, Bangalore, India, during 17th and 18th Oct, 2019.
13. Sterically encumbered N–heterocyclic carbene complexes of Ag, Au and Ni as efficient single atom electrocatalysts for hydrogen evolution reactions
Srinivasa Budagumpi, Brinda K. N., Gautam Achar, Jan Grzegorz Małeck, and D. H. Nagaraju
At the International Conference on Modern Approaches of Chemical Science and Nanomaterials, Organized by Mody University of Science and Technology, Lakshmanagarh, Rajasthan, India, during 26–27 Aug, 2019.
12. Molecular silver, nickel and gold electrocatalysts providing tuneable overpotentials using rationally designed carbene ligands for hydrogen evolution
Brinda K. N., Gautam Achar, Jan Grzegorz Małeck, **Srinivasa Budagumpi**, and D. H. Nagaraju
At the International Conference on Frontiers in Materials from Basic Science to Real Time Applications, Organized by CNMS, JAIN (Deemed-to-be University), Bangalore, India during 13–16 Mar, 2019.
11. Synthesis, crystal structure and characterization of silver(I) complexes derived from allyl and coumarin substituted 1,2,4–triazole-based N–heterocyclic carbenes (**BEST POSTER award**)
Geetha B. M., Brinda K. N., Gautam Achar, Jan Grzegorz Małeck, **Srinivasa Budagumpi**, Virupaxappa S. Betageri
At the International Conference on Frontiers in Materials from Basic Science to Real Time Applications, Organized by CNMS, JAIN (Deemed-to-be University), Bangalore, India during 13–16 Mar, 2019.
10. Coordination diversity in gold(I) complexes of coumarin tethered N–heterocyclic carbenes: synthesis, crystal structure, characterization and electrochemical trends (**BEST POSTER award**)
Brinda K. N., Gautam Achar, Jan Grzegorz Małeck, **Srinivasa Budagumpi**
At the Second International Symposium on New Trends in Applied Chemistry NTAC-2019, Organized by Sacred Heart Collage Autonomous, Crowne Plaza, Kochi, Kerala, India during 14 and 15th Jan, 2019.
9. Synthesis and characterization of coumarin tethered N–heterocyclic carbene Ni(II) complexes as effective non–enzymatic glucose sensing agents
Brinda K. N., Gautam Achar and **Srinivasa Budagumpi**
At the *International Symposium on Functional Materials' (ISFM–2018): Energy and Biomedical Applications* jointly organized by IIT–Kanpur, Panjab University, Chandigarh and University of Illinois, Chicago at Chandigarh, India during 13–15 April, 2018.
8. Ether and coumarin–substituted (benz)imidazolium salts and their silver(I)–N–heterocyclic carbene complexes: Synthesis, characterization, crystal structures and antimicrobial studies
Purvika Agarwal, Gautam Achar, Brinda K. N., Jan Grzegorz Małeck and **Srinivasa Budagumpi**

- At the *International Conference on Green Chemistry & Nanotechnology Opportunities And Challenges – 2017*, held at St. Aloysius College (Autonomous), Mangaluru, India during 27–28 February, 2017.
7. Benzannulated coumarin tethered imidazolium salts and their silver(I) N–heterocyclic carbene complexes: Synthesis, crystal structure and characterization
Brinda K. N., Gautam Achar and **Srinivasa Budagumpi**
At the *Sixth International Symposium on New Trends in Applied Chemistry*, held at Sacred Heart College, Kerala, India during 9–11 February, 2017.
 6. Synthesis crystal structure and evaluation of antimicrobial potentials of coumarin tethered silver(I) 1,2,4–triazole–5–ylidene complexes
Gautam Achar and **Srinivasa Budagumpi**
At the *Sixth International Symposium on New Trends in Applied Chemistry*, held at Sacred Heart College, Kerala, India during 9–11 February, 2017.
 5. Coumarin tethered silver(I) imidazol–2–ylidene complexes as effective antimicrobial and anticancer agents
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At the *International congress on recent advances in chemistry and chemical engineering*, held at Indian Institute of Chemical Technology, Hyderabad, India during 11–13 July, 2016.
 4. Synthesis and characterization of coumarin–tethered silver(I) benzimidazol–2–ylidene complexes
Gautam Achar and **Srinivasa Budagumpi**
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 3. Facile syntheses of sterically modulated bis–imine derived binuclear palladium complexes as active ethylene oligomerizations catalysts
Srinivasa Budagumpi, and Il Kim
At *Industrial Chemistry and Technology Conference* organized by the Korean Society of Industrial and Engineering Chemistry held at Pusan National University, Pusan, Republic of Korea, on Dec 20, 2010.
[Also published in the proceedings of *Industrial Chemistry and Technology* 9(1) (2010) 182–185.]
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CITATION AND PUBLICATION METRICS

Articles published	:	77
ISI and SCOPUS indexed articles	:	75
Articles highlighted in <i>ChemInform</i>	:	04
Articles with citation data	:	70
Sum of the times cited	:	2121
Average citations per article	:	30.3
<i>h</i> -index & <i>i</i> -10 index	:	24 & 49
Cumulative impact factor (CIF)	:	208.897
Average impact factor per article	:	2.913
RG Profile	:	www.researchgate.net/profile/Srinivasa_Budagumpi2/
Google Scholar	:	https://scholar.google.com/citations?user=4zh_kAgAAAAAJ&hl=en
Web-page	:	http://cnms.jainuniversity.ac.in/Faculty-srinivas.htm
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CONFERENCES ATTENDED (representative)

1. “Industrial Chemistry and Technology Conference” organized by the Korean Society of Industrial and Engineering Chemistry held at Pusan National University, Pusan, Republic of Korea, on Dec 20, 2010.
2. 10th Pacific Polymer Conference organized by the Polymer Society of Korea and Deagu University held at Exhibition and Conventional Center (EXCO), Dong-Deagu, Republic of Korea, during October 7-8, 2010.
3. UGC sponsored National seminar on “Recent Advances in Chemistry-2010” held at P. G. Department of Studies in Chemistry, Karnatak University, Dharwad on March 18, 2010.
4. TEQIP and DAE sponsored one day National workshop on “Nuclear energy for 21st century” held at S. D. M. College of engineering and technology, Dharwad on August 27, 2009.
5. 11th CRSI National Symposium in Chemistry held at National Chemical Laboratory, Pune during February 6-8, 2009.
6. TEQIP and NITK, Surathkal sponsored National Workshop on “Advances in Coordination Chemistry” held at NITK, Surathkal during January 8-10, 2009.
7. 45th Annual Convention of Chemists and International Conference on “Recent Advances in Chemistry” held at P. G. Department of Studies in Chemistry, Karnatak University, Dharwad, during November 24-28, 2008.
8. TEQIP sponsored “International colloquium on nanotechnology” held at S. D. M. College of Engineering and Technology, Dharwad on June 16 & 17, 2008.
9. DST Sponsored National Workshop on “NMR Spectroscopy-Theory and Applications” held at the Madhurai Kamaraj University, Madhurai on March 28 & 29, 2008.

10. National Conference on “Current Trends in Chemistry” held at Manasallosa, Karnatak University, Dharwad, on February 18, 2008.

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REFERENCES

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