

Curriculum-Vitae

CONTACT INFORMATION

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1. EMPLOYMENT DETAILS

- **Assistant Professor:** Department of Chemistry, Durban University of Technology (South Africa) since August, 2020 to till date.
- **Senior Researcher:** Department of Chemistry, Durban University of Technology (South Africa) since August, 2018 to July 2020.
- **Lecturer(P/T):** Department of Chemistry, Durban University of Technology (South Africa) since July, 2019 to October, 2019.
- **Adjunct Researcher:** Department of Chemistry, King Abdulaziz University (Saudi Arabia) since August, 2016 to June, 2020.
- **Research Fellow:** Department of Chemistry, Durban University of Technology (South Africa) since August, 2016 to July 2018.
- **Research Associate:** Department of Chemistry, Durban University of Technology (South Africa) since August, 2014 to July 2016.
- **Lecturer (P/T):** Department of Chemistry, Durban University of Technology (South Africa) since January, 2014 to December 2015.
- **Post-Doctoral Researcher:** Department of Chemistry, Durban University of Technology (South Africa) since July, 2012 to July 2014.
- **Post-Doctoral Researcher:** Department of Material Science and Engineering, Feng Chia University (Taiwan) since June, 2011 to March 2012.
- **Assistant Professor:** Department of Chemistry, Krishna Teja Degree & P.G College (Tirupati, India) since August, 2008 to May, 2011.
- **Lecturer:** Department of Chemistry, SDHR Degree & PG College (Tirupati, India) since August, 2006 to March 2008.
- **Lecturer:** Department of Chemistry, Sri Govindarajula Swamy Degree College (Tirupati, India) since August, 2005 to April, 2006.
- **Lecturer:** Department of Chemistry, Rao's Degree College (Nellore, India) since June, 2003 to April, 2005.

2. EDUCATION QUALIFICATION

- **PhD Chemistry(2004-2010):** Sri Venkateswara University, Tirupati, Andhra Pradesh., India.
- **M.Sc Applied Chemistry (2001-2003):** Sri Venkateswara University, Tirupati, Andhra Pradesh., India.
- **B.Sc Chemistry (1998-2001):** Sri Venkateswara University, Tirupati, Andhra Pradesh., India.

3. RESEARCH SUPERVISION

Current Students:-

PhD:01; MAppSci:03

Graudated Students:-

PhD:01; MAppSci:07; BTech:18

4. LIST OF PUBLICATIONS

1. Rajasekhar Chokkareddy, **Suvaradhan Kanchi**, Inamuddin.
Simultaneous detection of ethambutol and pyrazinamide with IL@CoFe₂O₄NPs@MWCNTs fabricated glassy carbon electrode.
Scientific Reports, 2020, (Accepted)
<https://doi.org/10.1038/s41598-020-70263-z>
ISSN: 2045-2322 [SCI & ISI, IF₂₀₁₇: 4.120]
2. Ayyappa Bathinapatla, **Suvaradhan Kanchi**, Myalowenkosi I. Sabela, Yong Chien Ling, Krishna Bisetty, Inamuddin.
Experimental and computational studies of a Laccase immobilized ZnONPs/GO-based electrochemical enzymatic biosensor for the detection of sucralose in food samples.
Food Analytical Methods, 2020, (Accepted, In Press)
<https://doi.org/10.1007/s12161-020-01824-1>
ISSN: 1936-9751 [SCI & ISI, IF₂₀₁₉: 2.667]
3. Matshidiso Lephallala, **Suvaradhan Kanchi**, Myalowenkosi I Sabela, Krishna Bisetty.
Electrochemical enzymatic biosensing of neotame supported by computational methods.
Electroanalysis, 2020, (Accepted, In Press)
<https://doi.org/10.1002/elan.202060208>
ISSN: 1521-4109 [SCI & ISI, IF₂₀₁₈: 2.691]
4. Ruma Perveen, Abu Nasar, Inamuddin, **Suvaradhan Kanchi**, Heba Abbas Kashmery.
Development of a Ternery Conduinting Composite (PPy/Au/CNT@Fe₃O₄) Substrate Immobilized FRT/GOD Bioanode for Glucose/Oxygen Biofuel Cell Applications.
International Journal of Hydrogen Energy, 2020, (In Press)
<https://doi.org/10.1016/j.ijhydene.2020.02.175>
ISSN: 0360-3199 [SCI & ISI, IF₂₀₁₉: 4.939]
5. Nimra Shakeel, Mohd Imran Ahamed, Inamuddin, Anees Ahmed, **Suvaradhan Kanchi**, Heba Abbas Kashmery.
Hydrothermally Synthesized Defective NiMoSe₂ Nanoplates Decorated on the Surface of Functionalized CNTs Doped Polypyrrole Scaffold for Enzymatic Biofuel Cell Applications.
International Journal of Hydrogen Energy, 2020,(In Press)
<https://doi.org/10.1016/j.ijhydene.2020.02.175>
ISSN: 0360-3199 [SCI & ISI, IF₂₀₁₉: 4.939]

6. Inamuddin, Nimra Shakeel, Mohd Imran Ahamed, **Suwardhan Kanchi**, Heba Abbas Kashmery.
Green synthesized ZnONPs Decorated on Polyindole Functionalized-CNTs Scaffold for Enzymatic Biofuel Cell Applications.
Scientific Reports, 2020,10, 5052
<https://doi.org/10.1038/s41598-020-61831-4>
ISSN: 2045-2322 [SCI & ISI, IF₂₀₁₇: 4.120]
7. Inamuddin, **Suwardhan Kanchi***.
Electrochemical Biosensor for the detection of Amygdalin in Apple seeds with a hybrid of f-MWCNTs/CoFe₂O₄ nanocomposite.
Current Analytical Chemistry, 2020, 16(5), 660-668
<https://doi.org/10.2174/1573411016666200211093603>
ISSN: 1875-6727 [SCI & ISI, IF₂₀₁₉: 1.365]
8. L Madhura, S Singh, **S Kanchi**, M I Sabela, K Bisetty, Inamuddin.
Removal of Targeted Pharmaceuticals and Personal Care Products from Wastewater Treatment Plants using QSAR Model.
Current Analytical Chemistry, 2020, 16(3), 1-13
<https://doi.org/10.2174/1573411016666200211093045>
ISSN: 1875-6727 [SCI & ISI, IF₂₀₁₉: 1.365]
9. Bathinapatla Ayyappa, **Suwardhan Kanchi***, Myalowenkosi I Sabela, Krishna Bisetty.
Separation of Sucralose in Food Samples using Amines as Background Electrolyte Supported with DFT Calculations.
Current Analytical Chemistry, 2020, 16(3), 1-14
<https://doi.org/10.2174/1573411016666200123143516>
ISSN: 1875-6727 [SCI & ISI, IF₂₀₁₉: 1.365]
10. **Suwardhan Kanchi***, Myalowenkosi I Sabela, Mohd Shahbaaz, Krishna Bisetty.
Sensitivity Enhancement of Pre-capillary Chelation Method for the Separation of Metal ions: Experimental and DFT study.
Current Analytical Chemistry, 2020, 16(3), 1-10
<https://doi.org/10.2174/1573411016666200108145109>
ISSN: 1875-6727 [SCI & ISI, IF₂₀₁₉: 1.365]
11. **Suwardhan Kanchi**, Inamuddin, Anish Khan.
Biogenic Synthesis of Selenium Nanoparticles with Edible Mushroom Extract: Evaluation of Cytotoxicity on Prostate Cancer Cell Lines and Their Antioxidant, and Antibacterial Activity.
Biointerface Research in Applied Chemistry, 2020, 10(6), 6629-6639
<https://doi.org/https://doi.org/10.33263/BRIAC106.66296639>
ISSN: 2069-5837 [SCIE & ISI IF₂₀₁₉: 0.89]
12. Kwanele Kunene, Myalowenkosi Sabela, **Suwardhan Kanchi***, Krishna Bisetty

High Performance Electrochemical Biosensor for Bisphenol A using Screen Printed Electrodes modified with Multiwalled Carbon Nanotubes functionalized with Silver-doped Zinc Oxide.

Waste and Biomass Valorization, 2020, **11**(3), 1085-1096

<https://doi.org/10.1007/s12649-018-0505-5>

ISSN: 1877-2641

[SCI & ISI, IF₂₀₁₉: 2.851]

13. Inamuddin, **Suvaradhan Kanchi***

One-pot biosynthesis of silver nanoparticle using Colocasia Esculenta extract: Colorimetric detection of melamine in biological samples.

Journal of Photochemistry and Photobiology A: Chemistry, 2020, 391, 112310

<https://doi.org/10.1016/j.jphotochem.2019.112310>

ISSN: 1010-6030

[SCI & ISI, IF₂₀₁₉: 3.306]

14. Kwanele Kunene, Matthieu Weber, Myalowenkosi Sabela, Damien Voiry, **Suvaradhan Kanchi**, Krishna Bisetty, Mikhael Bechelany

Highly-efficient electrochemical label-free immunosensor for the detection of Ochratoxin A in coffee samples.

Sensors and Actuators B: Chemical, 2020, 305, 127438

<https://doi.org/10.1016/j.snb.2019.127438>

ISSN: 0925-4005

[SCI & ISI, IF₂₀₁₉: 7.100]

15. Myalowenkosi I. Sabela, Kwanele Kunene, **Suvaradhan Kanchi***, Nokukhanya M. Xhakaza, Ayyappa Bathinapatla, Phumlane Mdluli, Deepali Sharma, Krishna Bisetty.

Removal of copper (II) from wastewater using green vegetable waste derived activated carbon: An approach to equilibrium and kinetics study.

Arabian Journal of Chemistry, 2019, **12**(8), 4331-4339

<http://dx.doi.org/10.1016/j.arabjc.2016.06.001>

ISSN:1878-5352

[SCI & ISI, IF₂₀₁₉: 4.762]

16. Deepali Sharma, **Suvaradhan Kanchi***, and Krishna Bisetty.

Biogenic synthesis of nanoparticles: A review.

Arabian Journal of Chemistry, 2019, **12**(8), 3576-3600

<http://dx.doi.org/10.1016/j.arabjc.2015.11.002>

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17. Deepali Sharma, **Suvaradhan Kanchi***, Ayyappa Bathinapatla, Inamuddin, Abdullah M. Asiri.

Modelling of neotame and fructose thermochemistry: Comparison with mono and divalent metal ions by computational and experimental approach.

Scientific Reports, 2019, **9**, 18414.

<https://doi.org/10.1038/s41598-019-54626-9>

ISSN: 2045-2322

[SCI & ISI, IF₂₀₁₇: 4.120]

18. Bahareh Honarparvar, **Suvaradhan Kanchi**, Krishna Bisetty.

Theoretical insights into the competitive metal bioaffinity of lactoferrin as a metal ion carrier: A DFT study.

New Journal of Chemistry, 2019 **43**, 16374-16384

<https://doi.org/10.1039/C9NJ03786A>

ISSN: 1144-0546

[SCI & ISI, IF₂₀₁₉: 3.288]

19. Nomnotho Jiyane, Myalowenkosi I Sabela, **Suwardhan Kanchi***, Phumlane S Mdluli, Mavis Xhakaza, Olayide A Arodola, Krishna Bisetty.

MWCNTs-Fe₂O₃ nanoparticles nanohybrids based highly sensitive electrochemical sensor for the detection of kaempferol in broccoli samples.

Turkish Journal of Chemistry, 2019, **43**(5), 1229-1243.

<https://doi.10.3906/kim-1904-2>

ISSN: 1300-0527

[SCI & ISI, IF₂₀₁₉: 1.135]

20. Athika Darumas Putri, Bayu Tri Murti, **Suwardhan Kanchi**, Myalowenkosi I. Sabela, Krishna Bisetty, Ashutosh Tiwari, Inamuddin, Abdullah M. Asiri.

Computational studies on the molecular insights of aptamer induced poly(N-isopropylacrylamide)-graft-graphene oxide for on/off- switchable whole-cell cancer diagnostics.

Scientific Reports, 2019, **9**: 7873, 1-14.

<https://doi.org/10.1038/s41598-019-44378-x>

ISSN: 2045-2322

[SCI & ISI, IF₂₀₁₉: 4.120]

21. Sibongile Elizabeth Magubane, Swaswa Ntlhoro, Myalowenkosi Sabela, **Suwardhan Kanchi**, Mbuso Mlambo, Stanley Chibuzor Onwubu, Phumlane Selby Mdluli, Inamuddin, Abdullah M. Asiri.

Novel On-site Residual Screening of Poly-diallyldimethylammonium chloride in Treated Potable Water using Gold Nanoparticle based Lovibond Colour Filters.

Journal of the Taiwan Institute of Chemical Engineers, 2019, **101**, 159-166.

<https://doi.org/10.1016/j.jtice.2019.04.048>

ISSN: 1876-1070

[SCI & ISI, IF₂₀₁₇: 4.794]

22. Lavanya Madhura, Shalini Singh, **Suwardhan Kanchi**, Myalowenkosi I Sabela, Krishna Bisetty, Inamuddin.

Nanotechnology based water quality management for wastewater treatment.

Environmental Chemistry Letters, 2019, **17**(1), 65-121.

<https://doi.org/10.1007/s10311-018-0778-8>.

ISSN 1610-3661

[SCI & ISI, IF₂₀₁₉: 5.922]

23. Bayu Tri Murti, Athika Darumas Putri, **Suwardhan Kanchi**, Myalowenkosi I. Sabela, Krishna Bisetty, Inamuddin, Abdullah M. Asiri

Light Induced DNA-Functionalized TiO₂ Nanocrystalline Interface: Theoretical and Experimental Insights towards DNA Damage Detection.

Journal of Photochemistry and Photobiology B: Biology, 2018, **188**, 159-176.

<https://doi.org/10.1016/j.jphotobiol.2018.08.005>

ISSN: 1011-1344

[SCI & ISI, IF₂₀₁₈: 4.067]

24. **S. Kanchi***, M. I. Sabela, Mohd Shahbaaz, N.J. Gumede, K. Gopalakrishnan, K. Bisetty, N. Venkatasubba Naidu, Inamuddin, Abdullah M. Asiri.

Selectivity and sensitivity enhanced green energy waste based indirect- μ -solid phase extraction of carbaryl supported by DFT and molecular docking studies.

- Journal of Molecular Liquids**, 2018, 257, 112-120
<https://doi.org/10.1016/j.molliq.2018.02.099>.
ISSN: 0167-7322 [SCI & ISI, IF₂₀₁₈: 4.568]
25. Lavanya Madhura, **Suvaradhan Kanchi**, Myalowenkosi I Sabela, Shalini Singh, Krishna Bisetty, Inamuddin.
Membrane technology for water purification.
Environmental Chemistry Letters, 2018, 16, 343-365
<https://doi.org/10.1007/s10311-017-0699-y>
ISSN 1610-3661 [SCI & ISI, IF₂₀₁₈: 4.617]
26. **Suvaradhan Kanchi**, Gopalakrishnan Kumar, An-Ya Lo, Chaun-Ming Tseng, Shi-Kun Chen, Chiu-Yue Lin, Tsung-Shune Chin.
Exploitation of de-oiled jatropha waste for gold nanoparticles synthesis: A green approach.
Arabian Journal of Chemistry, 2018, 11, 247-255
<http://dx.doi.org/10.1016/j.arabjc.2014.08.006>.
ISSN: 1878-5352 [SCI & ISI, IF₂₀₁₈: 3.298]
27. Myalowenkosi I. Sabela, Talent Makhanya, **Suvaradhan Kanchi***, Mohd. Shahbaaz, Danish Idress, Krishna Bisetty.
One-pot biosynthesis of silver nanoparticles using Iboza Riparia and Ilex Mitis for cytotoxicity on human embryonic kidney cells.
Journal of Photochemistry and Photobiology B: Biology, 2018, 178, 560-567
<https://doi.org/10.1016/j.jphotobiol.2017.12.010>.
ISSN: 1011-1344 [SCI & ISI, IF₂₀₁₈: 4.067]
28. Deepali Sharma, Myalowenkosi I. Sabela, **Suvaradhan Kanchi**, Krishna Bisetty, Adam A. Skelton and Bahareh Honarparvar.
Green Synthesis, characterization and electrochemical sensing of silymarin by ZnO nanoparticles: Experimental and DFT studies.
Journal of Electroanalytical Chemistry, 2018, 808, 160-172
<https://doi.org/10.1016/j.jelechem.2017.11.039>.
ISSN: 1572-6657 [SCI & ISI, IF₂₀₁₈: 3.218]
29. **Suvaradhan Kanchi***, Myalowenkosi I Sabela, Phumlane Selby Mdluli, Inamuddin and Krishna Bisetty.
Smartphone based bioanalytical and diagnosis applications: A review
Biosensor and Bioelectronics, 2018, 102, 136-149
<https://doi.org/10.1016/j.bios.2017.11.021>.
ISSN: 0956-5663 [SCI & ISI, IF₂₀₁₈: 9.518]
*One of the Most Downloaded Biosensors and Bioelectronics Articles in last 90 days, accessed on 23/05/2018, <https://www.journals.elsevier.com/biosensors-and-bioelectronics/most-downloaded-articles>.
30. Mohd. Shahbaaz, **Suvaradhan Kanchi***, Myalowenkosi Sabela and Krishna Bisetty.
Structural basis of pesticide detection by enzymatic biosensing: A molecular docking and MD simulation study.

Journal of Biomolecular Structure & Dynamics, 2018, *36*(6), 1402-1416

<http://dx.doi.org/10.1080/07391102.2017.1323673>

ISSN: 1538-0254

[SCI & ISI, IF₂₀₁₈: 2.689]

31. Christian L. Mthembu, Myalowenkosi I. Sabela, Mbuso. Mlambo, Lawrence M. Madikizela, **Suwardhan Kanchi**, Halalisani Gumede and Phumlane S. Mdluli. *Google Analytics and Quick Response for Advancement of Gold Nanoparticles Dual Lateral Flow Immunoassay for Malaria – Plasmodium lactate dehydrogenase (pLDH)*.

[†]Analytical Methods, 2017, *41*(9), 5943-5951

<https://doi.org/10.1039/C7AY01645J>

ISSN 1759-9679

[SCI & ISI, IF₂₀₁₆: 1.90]

[†]Front page featured article of the Issue 41.

32. **S. Kanchi***, K. Bisetty, Gopalakrishnan Kumar and M.I. Sabela. *Robust adsorption of Direct Navy Blue-106 from textile industrial effluents by bio-hydrogen fermented waste derived activated carbon: Equilibrium and kinetic studies*.

Arabian Journal of Chemistry, 2017, *10*, S3084–S3096

<http://dx.doi.org/10.1016/j.arabjc.2013.11.050>

ISSN: 1878-5352

[SCI & ISI, IF₂₀₁₆: 4.553]

33. **S. Kanchi***, M.I. Sabela, P. Singh and K. Bisetty. *Multivariate optimization of differential pulse polarographic-catalytic hydrogen wave technique for the determination of nickel(II) in real samples*.

Arabian Journal of Chemistry, 2017, *10*, S2260–S2272

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ISSN: 1878-5352

[SCI & ISI, IF₂₀₁₆: 4.553]

34. **S. Kanchi***, P. Anuradha, Bajanthri N. Kumar, K. Gopalakrishnan and P. Ravi. *Quantification of Se(IV) and Co(II) in Macrobrachium Lamarrei, fresh water prawns and their feeding materials*

Arabian Journal of Chemistry, 2017, *10*, S306-S313

<http://dx.doi.org/10.1016/j.arabjc.2012.08.001>

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[SCI & ISI, IF₂₀₁₇: 4.553]

35. Mbuso Mlambo, Richard A. Harris, Philani Mashazi, Myalowenkosi Sabela, **Suwardhan Kanchi**, Lawrence M. Madikizela, Nosipho Moloto, Thulani T. Hlatshwayo and Phumlani S. Mdluli. *Computational and experimental evaluation of selective substitution of thiolated coumarin derivatives on gold nanoparticles: surface enhancing Raman scattering and electrochemical studies*.

Applied Surface Sciences, 2017, *396*, 695-704

<http://dx.doi.org/10.1016/j.apsusc.2016.11.011>

ISSN: 0169-4332

[SCI & ISI, IF₂₀₁₇: 3.387]

36. Niranjana Thondavada, **Suwardhan Kanchi***, Chembeti Giridhar, Bisetty Krishna and Venkatasubba Naidu Nuthalapati.

Studies on Electrochemical behavior of Copper(II)-Dithiocarbamate complexes at DME: Application to Environmental and Biological Samples.

Asian Journal of Chemistry, 2017, **29**(3), 609-613

<http://dx.doi.org/10.14233/ajchem.2017.20274>

ISSN: 0975-427X

[SCI & ISI, IF₂₀₁₆: 0.45]

37. B. Natesh Kumar, **S. Kanchi***, M.I. Sabela, K. Bisetty and N. V. V. Jyothi. *Spectrophotometric determination of nickel (II) in waters and soils: Novel chelating agents and their biological applications supported by DFT method.*

Karbala International Journal of Modern Science, 2016, **2**, 239-250

<http://dx.doi.org/10.1016/j.kijoms.2016.08.003>

ISSN: 2405-609X

[SCI & ISI, IF₂₀₁₆: ---]

38. Chennamsetty Ramanjulu, **Suwardhan Kanchi***, Bisetty Krishna and Venkatasubba Naidu Nuthalapati.

Monitoring of Cetylpyrdinium chloride levels in Surface Waters: Patent Blue-V as a selective ligand for Spectrophotometric Determination.

Asian Journal of Chemistry, 2016, **28**(5), 1039-1042

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[SCI & ISI, IF₂₀₁₅: 0.45]

39. **Suwardhan Kanchi***, Giridhar Chembeti, Deepali Sharma, Phumlane Selby Mdluli, Krishna Bisetty, Venkatasubba Naidu Nuthalapati and Myalowenkosi Innocent Sabela.

Dithiocarbamate Induced Catalytic Hydrogen Wave for the determination of Iron (II) in Waters and Leafy Vegetables: Experimental and Computational Approach.

International Journal of Electrochemical Science, 2016, **11**, 8027-8045

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[SCI & ISI, IF₂₀₁₆: 1.692]

40. Deepali Sharma, Myalowenkosi I. Sabela, **Suwardhan Kanchi***, Phumlane S. Mdluli, Gulshan Singh, Thor A. Stenström and Krishna Bisetty.

Biosynthesis of ZnO nanoparticles using Jacaranda mimosifolia flowers extract: Synergistic antibacterial activity and molecular simulated facet specific adsorption studies.

Journal of Photochemistry and Photobiology B: Biology, 2016, **162**, 199-207

<http://dx.doi.org/10.1016/j.jphotobiol.2016.06.022>

ISSN: 1011-1344

[SCI & ISI, IF₂₀₁₆: 2.673]

41. P. Reddy Prasad, **S. Kanchi**, E.B. Naidoo.

In-vitro evaluation of copper nanoparticles cytotoxicity on prostate cancer cell lines and their antioxidant, sensing and catalytic activity: One-pot green approach.

Journal of Photochemistry and Photobiology B: Biology, 2016, **161**, 375-382

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42. Keval Balgobind, **Suwardhan Kanchi***, Deepali Sharma, Krishna Bisetty, Myalowenkosi I. Sabela.

Hybrid of ZnONPs/MWCNTs for electrochemical detection of aspartame in food and beverage samples.

Journal of Electroanalytical Chemistry, 2016, 774, 51-57

<http://dx.doi.org/10.1016/j.jelechem.2016.05.021>

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[SCI & ISI, IF₂₀₁₆: 3.012]

43. Myalowenkosi I. Sabela, Thabani Mpanza, **Suwardhan Kanchi***, Deepali Sharma and Krishna Bisetty.

Electrochemical sensing platform amplified with a nanobiocomposite of L-phenylalanine ammonia-lyase enzyme for the detection of capsaicin.

Biosensor and Bioelectronics, 2016, 83, 45-53

<http://dx.doi.org/10.1016/j.bios.2016.04.037>

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[SCI & ISI, IF₂₀₁₆: 7.780]

44. Deepali Sharma, **Suwardhan Kanchi***, Myalowenkosi I. Sabela and Krishna Bisetty.

Insight into the biosensing of graphene oxide: Present and future prospects.

Arabian Journal of Chemistry, 2016, 9, 238-261

<http://dx.doi.org/10.1016/j.arabjc.2015.07.015>

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45. Bathinapatla Ayyappa, **Suwardhan Kanchi***, Parvesh Singh, Myalowenkosi I. Sabela and Krishna Bisetty.

An ultrasensitive performance enhanced novel cytochrome c biosensor for the detection of Rebaudioside A.

Biosensors and Bioelectronics, 2016, 77, 116-123

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46. Bathinapatla Ayyappa, **Suwardhan Kanchi***, Parvesh Singh, Myalowenkosi I. Sabela and Krishna Bisetty.

Fabrication of copper nanoparticles decorated multiwalled carbon nanotubes as a high performance electrochemical sensor for the detection of neotame.

Biosensors and Bioelectronics, 2015, 67, 200-207

<http://dx.doi.org/10.1016/j.bios.2014.08.017>

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[SCI & ISI, IF₂₀₁₅: 7.476]

47. Bathinapatla Ayyappa, **Suwardhan Kanchi***, Parvesh Singh, Myalowenkosi I. Sabela, Martin Dovey and Krishna Bisetty.

Analytical evaluation of steviol glycosides in food samples by capillary electrophoresis supported with molecular docking studies.

Journal of Iranian Chemical Society, 2015, 12, 127-136

<http://dx.doi.org/10.1007/s13738-014-0465-z>

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[SCI & ISI, IF₂₀₁₅: 1.467]

48. Niranjan Thondavada, **Suwardhan Kanchi***, Bisetty Krishna and Venkatasubba Naidu Nuthalapati.

Novel dithiocarbamates for the electrochemical detection of Ni(II) in environmental samples.

Asian Journal of Chemistry, 2015, 27(10), 3598-3604

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49. Myalowenkosi I. Sabela, **Suwardhan Kanchi***, Bathinapatla Ayyappa and Krishna Bisetty.

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51. Bathinapatla Ayyappa, **Suwardhan Kanchi***, Parvesh Singh, Myalowenkosi I. Sabela and Krishna Bisetty.

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59. K. Suresh Kumar, S.H. Kang and **S. Kanchi**.
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*Corresponding author

5. PATENTS

1. Inventors: SABELA Myalowenkosi I, **KANCHI Suvadhan**, MPANZA Thabani, BISETTY Krishna
Title: AN APTAMER, A METHOD OF PRODUCING AN ELECTROCHEMICAL APTASENSOR, AN APTASENSOR, AND AN APTASENSOR SYSTEM
Patent Number: P78572ZA00
Country of Patent: South Africa

6. EDITED BOOKS

1. Title: *“Handbook on nano-biomaterials for therapeutics and diagnostic applications”*
Editor(s): K Anand, M Saravanan, Balakumar Chandrasekaran, **Suvadhan Kanchi**, Jeeva Panchu and Quan-Sheng Chen
Number of Pages:
Year of Publication: 2020 (In Process)
ISBN Number:
Publisher: Elsevier
Website:
2. Title: *“Nanomaterials in diagnostic tools and devices”*
Editor(s): **Suvadhan Kanchi** and Deepali Sharma
Number of Pages: 606
Year of Publication: 2020
ISBN Number: 9780128179239
Publisher: Elsevier
Website: <https://www.elsevier.com/books/nanomaterials-in-diagnostic-tools-and-devices/kanchi/978-0-12-817923-9>
3. Title: *Green Sustainable Process for Chemical and Environmental Engineering and Science: Ionic Liquid as Green Solvent*
Editor(s): Inamuddin, Abdullah Mohamed Asiri and **Suvadhan Kanchi**
Number of Pages: 462
Year of Publication: 2019
ISBN Number: 9780128173862
Publisher: Elsevier
Website: <https://www.elsevier.com/books/green-sustainable-process-for-chemical-and-environmental-engineering-and-science/inamuddin/978-0-12-817386-2>
4. Title: *Handbook of Biopolymers: Advances and Multifaceted Applications*
Editor(s): Shakeel Ahmed, **Suvadhan Kanchi** and Gopalakrishnan Kumar
Number of Pages: 308

Year of Publication: **2018**
ISBN Number: 9789814800174-CAT#K407021
Publisher: Pan Stanford Publications, Singapore + CRC Press (Distributors)
Website: <https://www.crcpress.com/Handbook-of-Biopolymers-Advances-and-Multifaceted-Applications/Ahmed-Kanchi-Kumar/p/book/9789814800174>

5. Title: *Green Metal Nanoparticles: Synthesis, Characterization and their Applications- Nanoparticles Naturally*

Editor(s): **Suvaradhan Kanchi** and Shakeel Ahmed

Number of Pages: 720

Year of Publication: **2018**

ISBN Number: 978-1-119-41887-0

Publisher: John Wiley and Sons +Scrivener Publishing LLC, USA

Website: <https://www.wiley.com/en-us/Green+Metal+Nanoparticles%3A+Synthesis+%2C+Characterization+and+their+Applications+Nanoparticles+Naturally-p-9781119418870>

6. Title: *Handbook of Bionanocomposites: Green and Sustainable Materials*

Editor(s): Shakeel Ahmed and **Suvaradhan Kanchi**

Number of Pages: 318

Year of Publication: **2018**

ISBN Number: 978-9814774826

Publisher: Pan Stanford Publications, Singapore + CRC Press (Distributors)

Website: <http://www.panstanford.com/books/9789814774826.html#>

7. Title: *Nanomaterials: Biomedical, Environmental and Engineering Applications*

Editor(s): **Suvaradhan Kanchi**, Shakeel Ahmed, Myalowenkosi I Sabela and Chaudhery Mustansar Hussain

Number of Pages: 324

Year of Publication: **2018**

ISBN Number: 978-1-119-37026-0

Publisher: John Wiley and Sons +Scrivener Publishing LLC, USA

Website: <http://eu.wiley.com/WileyCDA/WileyTitle/productCd-1119370264.html>

8. Title: *Biocomposites: Biomedical and Environmental Applications*

Editor(s): Shakeel Ahmed, Saiqa Ikram, **Suvaradhan Kanchi** and Krishna Bisetty

Number of Pages: 496

Year of Publication: **2018**

ISBN Number: 978-981-4774-38-3 (Hardcover), 978-1-31-511080-6 (eBook)

Publisher: Pan Stanford Publications, Singapore + CRC Press (Distributors)

Website: <https://www.crcpress.com/Biocomposites-Biomedical-and-Environmental-Applications/Ahmed-Ikram-Kanchi-Bisetty/p/book/9789814774383>.

9. Title: *Capillary electrophoresis: Recent developments and trends in Pharmaceutical research*

Editor(s): **Suvaradhan Kanchi**, Salvador Sagrado, Myalowenkosi Sabela and Krishna Bisetty

Number of Pages: 396

Year of Publication: 2017

ISBN Number: 9789814774123 - CAT# N11891

Publisher: Pan Stanford Publications, Singapore + CRC Press (Distributors)

Website: <https://www.crcpress.com/Capillary-Electrophoresis-Trends-and-Developments-in-Pharmaceutical-Research/Kanchi-Sagrado-Sabela-Bisetty/p/book/9789814774123>.

7. PROFESSIONAL APPOINTMENTS

Editorial Board Member:-

1. Current Analytical Chemistry, Impact Factor₂₀₁₉: 1.365 (SCI, Ranks 67 out of 84 Analytical Chemistry Journals), **Bentham Science** ISSN: 1875-6727 (Online). ISSN: 1573-4110 (Print) (<https://benthamscience.com/journals/current-analytical-chemistry/editorial-board/>).
2. Review Editor (Separation Processes), Frontier in Chemical Engineering, Impact Factor₂₀₁₈: 3.63, **Frontiers Publishers**, ISSN: 2673-2718 (Online). (<https://www.frontiersin.org/journals/chemical-engineering#editorial-board/>).

Invited Reviewer:-

Advances in Natural Sciences: Nanoscience and Nanotechnology; Plant Cell Biotechnology and Molecular Biology; International Journal of Biological Macromolecules; Chemical Papers; Scientific Reports; Chemosphere; Preparative Biochemistry & Biotechnology; Journal of Natural Fibers; Current Analytical Chemistry; Journal of King Saud University-Science; Journal of Environmental Management; Solar Energy; Spectroscopy Letters; Nanotechnology, Science and Applications; NANO; IEEE Sensors Journal; Heliyon; Science of the Total Environment; South African Journal of Chemistry; Journal of Materials Research and Technology; Journal of Cluster Science; Applied Water Science; Artificial Cells, Nanomedicine and Biotechnology; Chemical Engineering & Technology; Chemical Engineering Journal; Journal of Separation Science; Ceramics International; Indian Journal of Biochemistry and Biophysics; International Journal of Hydrogen Energy; ACS Sustainable Chemistry & Engineering; SN Applied Sciences; Journal of Clusture Science; Journal of Photochemistry & Photobiology, B: Biology; Drug and Chemical Toxicology; International Biodeterioration & Biodegradation; Polymer Composites Journal; Biotechnology Letters; Sensors & Actuators: B. Chemical; Nanomedicine; Journal of Agricultural and Food Chemistry; Bioprocess and Biosystems Engineering; Sensors & Actuators: A. Physical; Environmental Chemistry Letters, Food Analytical Methods; Research on Chemical Intermediates; Analyst; Green Chemistry Letters and Reviews; Journal of the

Iranian Chemical Society; Journal of Environmental Engineering and Landscape Management; Journal of Applied Biomedicine; Journal of The Electrochemical Society; Polish Journal of Chemical Technology; Microbial Pathogenesis; Photochemical & Photobiological Sciences; Journal of Nanostructure in Chemistry; RSC Advances; Ionics; Journal of Advanced Research; Advances in Nanoparticles; Analytical Letters; Journal of Analytical Science and Technology; International Journal of Environmental Analytical Chemistry; Journal of Nanomaterials; Applied Surface Sciences; Journal of Sulfur Chemistry; Desalination and Water Treatment; International Journal of Agricultural Research and Policy; Toxicology and Environmental Chemistry; African Journal of Biotechnology; Arabian Journal of Chemistry.

8. RESEARCH ACCOLADES

1. Top University Publisher Award for 2014, 2015, 2016 at Durban University of Technology, South Africa.
2. Best paper award in International Conference on Advanced materials (SCICON '16), held at Amrita Vishwa Vidhyapeetam from 19-21 December 2016, Coimbatore, India.
3. Out Standing Research Associate Award for 2016 by the Faculty of Applied Sciences, Durban University of Technology, South Africa.
4. 1st Merit Prize Award for Oral presentation in “11th International Conference on Clean Energy (ICCE-2011)”, held at Department of Environmental Engineering and Science, Feng Chia University from 2-5 November 2011, Taichung, Taiwan (ROC).
5. 3rd Best (Consolation) Poster Award for “Capillary electrophoretic identification of selenium and cobalt” in “2nd International Annual Biotechnology Conference (ABC-2010)”, held at the Department of Biotechnology, International Institute of Information Technology (IIIT) from 13-14 November 2010, Pune, India.

9. CONFERENCES/SEMINARS/WORKSHOPS

International: 20, National: 13, Seminars: 8, Workshops: 03