




Bharathiar University

State University | "A++" Grade by NAAC | 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

<p>Dr C VISWANATHAN Professor Department of Nanoscience and Technology Bharathiar University , 641046 Tamil Nadu E-mail: viswanathan@buc.edu.in Phone: 9952661338 Office Number:0422-2428422</p>	
<p>Research Area</p> <ul style="list-style-type: none"> • Thin film devices • Nanomaterials for Electrochemical Biosensing Applications • Nanomaterials for Electrochemical Chemical Sensors Applications • Nanomaterials for Energy Storage and Energy Conversion Application 	<p>Courses Teaching</p> <ul style="list-style-type: none"> • Properties of Materials • Micro and Nano Fabrications • Electrochemical Sensors and Energy Storage System • Thinfilm Devices • Lithography • Environmental Sustainability of Nanomaterials
<p>Research Experience: 20</p>	<p>Teaching Experience: 18</p>
<p>Research Credentials (as on May 2026 – Source: Google scholar) H-index: 50 Citations: 7740 i10-index: (as on April 2026 – Source: Google scholar) H-index: 149 Citations: i10-index:</p>	
<p>Patents : Granted: 2</p>	
<p>Publications International Journals: 182</p>	
<p>Career</p> <p>At Bharathiar University</p> <ol style="list-style-type: none"> 1. Designation : Professor Period : January 2021 - June 2037 2. Designation : Associate Professor Period : January 2018 - January 2021 3. Designation : Assistant Professor Period : January 2008 - January 2018 <p>Other Institutes</p> <ol style="list-style-type: none"> 1. Designation : Post Doctoral Fellow Institution Name : Centre for National Research Scientific (CNRS), Institute Charles Sadron (ICS), University of Louis Pasteur (ULP), Strasbourg, France. Period : October 2005 - October 2006 2. Designation : Post Doctoral Fellow Institution Name : Institute of Micro Electronics (IMEL), National Center for Scientific Research (NCSR), "DEMOKRITOS" Athens, Greece Period : November 2006 - December 2007 	
<p>Education</p>	



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Dr C VISWANATHAN , Professor , Department of Nanoscience and Technology

Ph. D.

Subject : Physics

Institution : BHARATHIAR UNIVERSITY

Affiliated University : BHARATHIAR UNIVERSITY

Year of Award : May 2005

M. Sc.

Subject : Physics

Institution : KONGUNADU ARTS AND SCIENCE COLLEGE, COIMBATORE

Affiliated University : BHARATHIAR UNIVERSITY

Year of Award : June 2000

B. Sc.

Subject : Physics

Institution : GOVT ARTS AND SCIENCE COLLEGE, SALEM-7

Affiliated University : MADRAS UNIVERSITY

Year of Award : June 1997

Projects

National Level

Ongoing - 2 completed - 10

Research Guidance

Completed

Ph.D. - 12 M.Phil. - 22

On Going

Ph.D. - 7

Institutional Responsibilities

Deputy Co-ordinator

Period :Mar 2019 to Till date

Nature of Responsibility :Maintenance and Monitoring of Common Instrumentation Centre

Cheif warden

Period :Jun 2025 to Till date

Nature of Responsibility :Monitoring all the University Hostels

Visits

1. Dept of Physics, National University of Singapore (NUS), Singapore. - 2013-08-08)
2. Institute Charles Sadron , (ICS), Strasbourg, France. - 2005-10-01)

Collaborations

1. Dept of Chemistry, University of Manchester, Manchester, United Kingdom (UK). - 2006-08-16)
2. Dept of Chemistry, University of Birmingham, Birmingham, United Kingdom (UK). - 2007-08-21)
3. Dept of Physics/Centre for Nanoscience, University of Kassel, Kassel, Germany. - 2007-08-22)
4. Institute of Physical Chemistry (IPC), NCSR "DEMOKRITOS", Athens, Greece. - 2006-11-01)

Patents

Granted - 2

1. Method for simultaneous detection and degradation of Smokeless tobacco wastewater and its by products using Photoelectrochemical Oxidation 08-2023 442144 Dr. C. Viswanathan , H.AMIR ,Dr. N. Ponpandian
2. Simultaneous Detection, Quantification, and Degradation of Cigarette Waste Water and its by-products using Photoelectrochemical Method 09-2023 453005 Dr. C. Viswanathan , H.Amir, Dr. N. Ponpandian



Selected Publications

1. Cobalt–Iron Co-substituted NiV Layered Double Hydroxide as a High-Performance Electrocatalyst for Oxygen

Evolution Reaction in a Neutral Saline Medium

ACS Applied Energy Materials (December 2023)
G. Srividhya, T. Sangavi, C. Viswanathan, and N. Ponpandian

2. The intriguing bifunctional effect of strong metal support interaction (SMSI) and hydrogen spillover effect

(HSPE) for effective hydrogen evolution reaction

Applied Catalysis B: Environmental (December 2023)
R Rajalakshmi, G Srividhya, C Viswanathan, N Ponpandian

3. Modulating the electronic structure of MoS₂/NiS₂ by functionalizing it over the N-doped reduced GO to

improve the catalytic hydrogen evolution

International Journal of Hydrogen Energy (December 2023)
R Murugan, A Rebekah, D Navadeepthy, C Viswanathan, N Ponpandian

4. Novel Two-Dimensional MoC/MnSe Composites for Supercapacitors and Hydrogen Evolution Reaction

Energy & Fuels (November 2023)
Murugesan Duraisamy, Viswanathan Chinnuswamy, Prakash Sengodu, Sannasi Veeman, and Srimala Sreekantan

5. Synthesis effect on surface functionalized Ti₃C₂T_x MXene supported nickel oxide nanocomposites with

enhanced specific capacity for supercapacitor application

Journal of Energy Storage (November 2023)
Nikhil Prabhakar, S. Vasanth, N. Ponpandian, C. Viswanathan

6. Functionalized Ketjenblack Infusion into Expanded Interlayer Spacing of Ti₃C₂T_x MXene Nanosheets toward

High Specific Capacitance Supercapacitors

ACS Applied Electronic Materials (October 2023)
Prabhakar Nikhil, Sundaram Sornambikai, Gurusami Bhuvaneshwari, Nagamony Ponpandian, Chinnuswamy Viswanathan

7. CRISPR based biosensing: An ultrasensitive theranostic tool for the detection of early Breast Cancer

biomarkers – A mini review

Biosensors and Bioelectronics: X (September 2023)
Sundaram Sornambikai, Karutha Pandian Divya, Subramanian Vasanth, Chinnuswamy Viswanathan, Nagamony Ponpandian

8. Vertically pillared γ -Fe₂O₃ nanorods on carbon yarn as a textile-based stable immunosensor electrode for

selective electrochemical sensing of interleukin-6 cancer biomarker

Sensors and Actuators A: Physical (August 2023)
K Prabhu, M Lakshminarayanan, G Mohankumar, N Ponpandian, C Viswanathan

9. Interfacial charge separation of nickel tungstate anchored on g-C₃N₄ heterojunction stimulates visible-light

driven direct Z-scheme photoelectrochemical hydrogen evolution

International Journal of Hydrogen Energy (August 2023)
Selvarj T Sathiya Bama Sundararaj , Humayun Amir , Viswanathan Chinnusamy



10. Interfacing NiV layered double hydroxide with sulphur-doped g-C3N4 as a novel electrocatalyst for enhanced hydrogen evolution reaction through Volmer–Heyrovský mechanism

Energy Advances (July 2023)
G Srividhya, C Viswanathan, N Ponpandian

11. Hydrogen spillover effect – harnessing hydrogen evolution reaction from diverse carbon-based supports with a tungsten oxide catalyst

Journal of Materials Chemistry A (June 2023)
R Rajalakshmi, G Srividhya, Viswanathan Chinnuswamy, Nagamony Ponpandian

12. Single-step synthesis of Mn3N2, MnxON and Mn3O4 nanoparticles by thermal plasma arc discharge technique and their comparative study as electrode material for supercapacitor application

Journal of Alloys and Compounds (May 2023)
L Kumaresan, KS Harshini, H Amir, G Shanmugavelayutham, C Viswanathan

13. MXene supported biomimetic bilayer lipid membrane biosensor for zeptomole detection of BRCA1 gene

Microchimica Acta (March 2023)
Karutha Pandian Divya, Shanmuganathan Keerthana, Chinnuswamy Viswanathan, Nagamony Ponpandian

14. CeO2 Nanoparticles Modified on Graphite Sheet Electrodes for Photoelectrochemical Tobacco Wastewater Detection, Degradation, and Toxicity Measurement

ACS Applied Nano Materials (March 2023)
Humayun Amir, Nikhil Prabhakar, Govindhan Thirupathi, Palanisamy Sundararaj, Nagomony Ponpandian, Chinnuswamy Viswanathan

15. Electrodeposition of SnO2 nanostructures onto copper substrates and their electrochemical properties

Materials Science and Technology (February 2023)
D Vasanth Raj, N Ponpandian, C Viswanathan

16. Enhanced bifunctional aspects of oxygen vacancy rich cation substituted MnCo2O4 intercalated with g-C3N4 as an oxygen evolution and supercapacitor electrode

International Journal of Hydrogen Energy (February 2023)
A Rebekah, H Amir, C Viswanathan, N Ponpandian

17. Effect of gamma-ray irradiated reduced graphene oxide (rGO) on environmental health: An in-vitro and in-vivo studies

Environmental Pollution (February 2023)
S Sivaselvam, A Mohankumar, R Narmadha, R Selvakumar, P Sundararaj, C Viswanathan, N Ponpandian

18. Bimetallic Coreshell-Hemoglobin Complex Immobilized MXene Based Voltammetric Biosensor for the Electrochemical Detection of Acrylamide

Journal of The Electrochemical Society (December 2022)
Karutha Pandian Divya, Shanmuganathan Keerthana, Chinnuswamy Viswanathan, Nagamony Ponpandian



19. Hybrid nanostructures of WS₂ nanoflowers on N, B co-doped rGO for sensitive amperometric detection of Nilutamide

Materials Today Chemistry (December 2022)
S Keerthana, A Rajapriya, C Viswanathan, N Ponpandian

20. Electrochemical impedimetric immunosensor based on stabilized lipid bilayer–tethered WS₂@MWCNT for the sensitive detection of carcinoembryonic antigen

Microchimica Acta (November 2022)
S Keerthana, KP Divya, A Rajapriya, C Viswanathan, N Ponpandian

21. Fluorescence quenching mechanism of P-doped carbon quantum dots as fluorescent sensor for Cu²⁺ ions

Colloids and Surfaces A: Physicochemical and Engineering Aspects (November 2022)
M Preethi, C Viswanathan, N Ponpandian

22. Influence on effective and ineffective delamination of MXene (Ti₃C₂T_x) by tightly anchoring tin oxide nanocomposite for boosting the specific capacitance of supercapacitor

Journal of Alloys and Compounds (November 2022)
Nikhil Prabhakar, A Rajapriya, N Ponpandian, C Viswanathan

23. Novel palladium-decorated molybdenum carbide/polyaniline nanohybrid material as superior electrocatalyst for fuel cell application

International Journal of Hydrogen Energy (October 2022)
Murugesan Duraisamy, Elanchezian Mari, Viswanathan Chinnuswamy, Sellappan Senthilkumar, Yuan-Chung Lin, Vinoth kumar Ponnusamy

24. Plasma assists titanium nitride and surface modified titanium nitride nanoparticles from titanium scraps for magnetic properties and supercapacitor applications

Ceramics International (October 2022)
L Kumaresan, H Amir, G Shanmugavelayutham, C Viswanathan

25. Potato starch derived N-doped carbon quantum dots as a fluorescent sensing tool for ascorbic acid

Journal of Photochemistry and Photobiology A: Chemistry (October 2022)
M Preethi, R Murugan, C Viswanathan, N Ponpandian

26. Three dimensional integrated architecture of SrFe LDH on hierarchical NiS framework as a flexible electrode for efficient energy storage and conversion applications

Journal of Energy Storage (September 2022)
A Rajapriya, S Keerthana, C Viswanathan, N Ponpandian

27. Revealing the Role of Brønsted Basicity by the Electrocatalytic Reaction via Li Insertion in the MgFe₂O₄

Lattice

Journal of Physical Chemistry C (July 2022)
Saravanakumar Tamilarasan, S. J. Sardhar Basha*, Sathiya Bama Sundararaj, Humayun Amir, Viswanathan Chinnusamy, and Selvaraju Thangavelu

28. systematic review on electrochemical biosensing of breast cancer miRNAs to develop alternative DCIS diagnostic tool

ECS Sensors Plus (June 2022)
S Sornambikai, H Amir, G Bhuvaneshwari, N Ponpandian, C Viswanathan



29. Diatom Frustules: A Transducer Platform for Optical Detection of Molecules

Diatom Microscopy (May 2022)
S Viji, N Ponpandian, C Viswanathan

30. Engineering the semiconducting CdS nanostructures by N-doped rGO for enhancing the adsorption sites:

Promising electrocatalyst for hydrogen evolution reaction

International Journal of Hydrogen Energy (April 2022)
R Murugan, A Rebekah, JA Allen, M Preethi, C Viswanathan, N Ponpandian

31. One-step preparation of N-doped grapheme quantum dots with high quantum yield for bioimaging and highly sensitive electrochemical detection of isoniazid

Biomaterials Advances (April 2022)
S Sivaselvam, C Viswanathan, N Ponpandian

32. Waste cigarette butt derived Carbon/Magnesium oxide nanocomposite as potential adsorbent for the removal of ciprofloxacin from waste water

Materials Letters (April 2022)
S Sivaselvam, C Viswanathan, N Ponpandian

33. A metal-free, dual catalyst for the removal of Rhodamine B using novel carbon quantum dots from muskmelon peel under sunlight and ultrasonication: A green way to clean the environment

Journal of Photochemistry and Photobiology A: Chemistry (April 2022)
M Preethi, C Viswanathan, N Ponpandian

34. SnO₂ nanoflakes deposited carbon yarn-based electrochemical immunosensor towards cortisol measurement

Journal of Nanostructure in Chemistry (March 2022)
sekar sriramprabha pandiraj ponpandian viswanathan

35. TiO₂ anchored carbon fibers as non-invasive electrochemical sensor platform for the cortisol detection

Materials Letters (February 2022)
Sekar Madhu, Sriramprabha Ramasamy, Pandiraj Manickam, Ponpandian Nagamony, Viswanathan Chinnuswamy

36. Evolution of intrinsic 1-3D WO₃ nanostructures: Tailoring their phase structure and morphology for robust hydrogen evolution reaction

Chemical Engineering Journal (January 2022)
R Rajalakshmi, A Rebekah, C Viswanathan, N Ponpandian

37. Enzyme like-colorimetric sensing of H₂O₂ based on intrinsic peroxidase mimic activity of WS₂ nanosheets anchored reduced graphene oxide

Journal of Alloys and Compounds (December 2021)
S Keerthana, A Rajapriya, C Viswanathan, N Ponpandian



38. An environment-friendly route to explore the carbon quantum dots derived from curry berries

(Murrayakoenigii L) as a fluorescent biosensor for detecting vitamin B12

Materials Letters (November 2021)
M Preethi, C Viswanathan, N Ponpandian

39. Enriched oxygen vacancy promoted heteroatoms (B, P, N, and S) doped CeO₂: Challenging electrocatalysts for oxygen evolution reaction (OER) in alkaline medium

International Journal of Hydrogen Energy (October 2021)
A Rajapriya, S Keerthana, A Rebekah, C Viswanathan, N Ponpandian

40. ZnO-based electrochemical sensors for highly sensitive and selective detection of gallic acid at impact of substrate temperature

Applied Physics A (October 2021)
H Amir, D Murugesan, N Ponpandian, C Viswanathan

41. Development of RF magnetron-sputtered molybdenum oxide-modified carbon cloth thin film as a ferulic acid sensor

Applied Physics A (October 2021)
D Murugesan, H Amir, N Ponpandian, C Viswanathan

42. An electrochemical dopamine sensor based on RF magnetron sputtered TiO₂/SS thin film electrode

Materials Letters (October 2021)
H Amir, N Ponpandian, C Viswanathan

43. A green path to extract carbon quantum dots by coconut water: Another fluorescent probe towards Fe³⁺ ions

Particuology (October 2021)
Manoharan Preethi, Chinnuswamy Viswanathan, Nagamony Ponpandian

44. Sm³⁺ rare-earth doping in non-noble metal oxide-WO₃ grown on carbon cloth fibre as a bifunctional electrocatalyst for high-performance water electrolysis

Sustainable Energy & Fuels (October 2021)
R Rajalakshmi, C Viswanathan, NJSE Ponpandian

45. Investigation of morphologically tuned Sb₂S₃ nanostructures as an effective electrocatalyst for hydrogen evolution reaction

Colloids and Surfaces A: Physicochemical and Engineering Aspects (August 2021)
R Murugan, A Rebekah, JA Allen, C Viswanathan, N Ponpandian

46. Langmuir-Blodgett deposited Na₃V₂(PO₄)₃-MnO₂ nanocomposite thin film electrodes for hybrid energy storage application

Materials Science and Engineering: B (August 2021)
Muthukumar Divagar, Nagamony Ponpandian, Chinnuswamy Viswanathan



47. Synergetic effect of hierarchical zinc oxide (ZnO) nanostructure with enhanced adsorption and antibacterial action towards waterborne detrimental contaminants

Applied Nanoscience (July 2021)
Allen Joseph Anthuvan, Karthick Kumaravel, Viswanathan Chinnuswamy

48. Rapid one-pot synthesis of PAM-GO-Ag nanocomposite hydrogel by gamma-ray irradiation for remediation of environment pollutants and pathogen inactivation

Chemosphere (July 2021)
S Sivaselvam, R Selvakumar, C Viswanathan, N Ponpandian

49. Boosting the kinetics of oxygen and hydrogen evolution in alkaline water splitting using nickel ferrite/N-graphene nanocomposite as a bifunctional electrocatalyst

International Journal of Hydrogen Energy (June 2021)
D Navadeepthy, A Rebekah, C Viswanathan, N Ponpandian

50. WS₂ hierarchical nanoflowers on rGO with enhanced electrochemical performance for sensitive and selective detection of mesalazine in real sample analysis

Colloids and Surfaces A: Physicochemical and Engineering Aspects (June 2021)
S Keerthana, A Rajapriya, S Amirthapandian, C Viswanathan, N Ponpandian

51. Highly stable and selective LaNiO₃ nanostructures modified glassy carbon electrode for simultaneous electrochemical detection of neurotransmitting compounds

Colloids and Surfaces A: Physicochemical and Engineering Aspects (June 2021)
S Priyatharshni, D Navadeepthy, G Srividhya, C Viswanathan, N Ponpandian

52. Removal of 1-naphthylamine using magnetic graphene and magnetic graphene oxide functionalized with Chitosan

Environmental Nanotechnology, Monitoring & Management (May 2021)
A Rebekah, D Navadeepthy, G Bharath, C Viswanathan, N Ponpandian

53. Correction: NiCo₂O₄ nanoparticles inlaid on sulphur and nitrogen doped and co-doped rGO sheets as efficient electrocatalysts for the oxygen evolution and methanol oxidation reactions

Nanoscale Advances (May 2021)
A Rebekah, C Viswanathan, N Ponpandian

54. Direct Growth of MoS₂ Hierarchical Nanoflowers on Electrospun Carbon Nanofibers as an electrode material for High-Performance Supercapacitors

Journal of Alloys and Compounds (April 2021)
A Rajapriya, S Keerthana, C Viswanathan, N Ponpandian

55. Enhanced electrochemical activities of morphologically tuned MnFe₂O₄ nanoneedles and nanoparticles integrated on reduced graphene oxide for highly efficient supercapacitor electrodes

Nanoscale Advances (March 2021)
R Rajalakshmi, KP Remya, C Viswanathan, N Ponpandian



56. Magnetic nanoparticle-decorated graphene oxide-chitosan composite as an efficient nanocarrier for protein delivery

Colloids and Surfaces A: Physicochemical and Engineering Aspects (February 2021)
A Rebekah, S Sivaselvam, C Viswanathan, D Prabhu, Ravi Gautam, N Ponpandian

57. NiCo 2 O 4 nanoparticles inlaid on sulphur and nitrogen doped and co-doped rGO sheets as efficient electrocatalysts for the oxygen evolution and methanol oxidation reactions

Nanoscale Advances (February 2021)
C Viswanathan, N Ponpandian

58. Fe₂O₃/polyaniline supramolecular nanocomposite: A receptor free sensor platform for the quantitative determination of serum creatinine

Analytica Chimica Acta (November 2020)
R Sriramprabha, M Sekar, R Revathi, C Viswanathan, J Wilson

59. Substrate Temperature Induced Enhanced Selectivity and Sensitivity for Nanomolar Gallic Acid Detection on RF Magnetron Sputtered ZnO/GS Thin Film Electrode

Sensors and Actuators A: Physical (November 2020)
P. Sivasakthi, H Amir, Sornambikai S, N Ponpandian, C Viswanathan

60. Enhanced removal of emerging pharmaceutical contaminant ciprofloxacin and pathogen inactivation using morphologically tuned MgO nanostructures

Journal of Environmental Chemical Engineering (October 2020)
S Sivaselvam, P Premasudha, C Viswanathan, N Ponpandian

61. Morphologically tuned LaMnO₃ as an efficient nanocatalyst for the removal of organic dye from aqueous solution under sunlight

Journal of Environmental Chemical Engineering (October 2020)
S Priyatharshni, S Rajesh Kumar, C Viswanathan, N Ponpandian

62. Magnetic graphene/chitosan nanocomposite: A promising nano-adsorbent for the removal of 2-naphthol from aqueous solution and their kinetic studies

International Journal of Biological Macromolecules (September 2020)
A Rebekah, G Bharath, Mu Naushad, C Viswanathan, N Ponpandian

63. Engineering the surface of graphene oxide with bovine serum albumin for improved biocompatibility in Caenorhabditis elegans

Nanoscale advances (September 2020)
S Sivaselvam, A Mohankumar, G Thiruppathi, P Sundararaj, C Viswanathan, N Ponpandian

64. Effect of CuO, MoO₃ and ZnO nanomaterial coated absorbers for clean water production

SN Applied Science (September 2020)
T Arunkumar, D Murugesan, C Viswanathan, G Neri, David Denkenberger



65. <https://doi.org/10.1016/j.ijbiomac.2020.05.113>

Materials & Design (July 2020)

KP Remya, D Prabhu, R Justin Joseyphus, A Chandra Bose, C Viswanathan, N Ponpandian

66. A nanocomposite of NiFe₂O₄-PANI as a duo active electrocatalyst toward the sensitive colorimetric and electrochemical sensing of ascorbic acid

Nanoscale Advances (June 2020)

D Navadeepthy, M Thangapandian, C Viswanathan, N Ponpandian

67. Zn-substituted MnCo₂O₄ nanostructure anchored over rGO for boosting the electrocatalytic performance towards methanol oxidation and oxygen evolution reaction (OER)

International Journal of Hydrogen Energy (May 2020)

N. Ponpandian A. Rebekah, Sengeni Anantharaj, C. Viswanathan

68. Towards Wearable Sensor Platforms for the Electrochemical Detection of Cortisol

Journal of The Electrochemical Society (March 2020)

M Sekar, R Sriramprabha, Praveen Kumar Sekhar, Shekhar Bhansali, N Ponpandian, Manickam Pandiaraj, C Viswanathan

69. Mesoporous nickel oxide nanostructures: influences of crystalline defects and morphological features on mediator-free electrochemical monosaccharide sensor application

Nanotechnology (March 2020)

R Sriramprabha, M Sekar, J Wilson, N Ponpandian, C Viswanathan

70. Effect of cation substitution in MnCo₂O₄ spinel anchored over rGO for enhancing the electrocatalytic activity towards oxygen evolution reaction (OER)

International Journal of Hydrogen Energy (February 2020)

A Rebekah, E Ashok Kumar, C Viswanathan, N Ponpandian

71. ZnO nanorods integrated flexible carbon fibers for sweat cortisol detection

ACS Applied Electronic Materials (January 2020)

Sekar Madhu, Allen Joseph Anthuvan, Sriramprabha Ramasamy, Pandiaraj Manickam, Shekhar Bhansali, Ponpandian Nagamony and Viswanathan Chinnuswamy

72. Comparative Study of Biological (Phoenix loureiroi Fruit) and Chemical Synthesis of Chitosan-Encapsulated Zinc Oxide Nanoparticles and their Biological Properties

Arabian Journal for Science and Engineering (September 2019)

Narendra Narain Murugan Rajan Allen Joseph Anthuvan Kasipandi Muniyandi Naveen Kumar Kalagatur Saravanan ShanmugamSaikumar Sathyanarayanan Viswanathan Chinnuswamy Parimelazhagan Thangaraj

73. MnCo₂O₄-rGO hybrid magnetic nanocomposite modified glassy carbon electrode for sensitive detection of L-tryptophan

Journal of The Electrochemical Society (June 2019)

A Rebekah, Thangavelu Kokulnathan, Tzyy-Jiann Wang, C Viswanathan, N Ponpandian

74. Two dimensional ?-MoO₃ nanosheets decorated carbon cloth electrodes for high-performance supercapacitors

Colloids and Surfaces A: Physicochemical and Engineering Aspects (May 2019)

D Murugesan, S Prakash, N Ponpandian, P Manisankar, C Viswanathan



75. Synthesis and Characterization of Hexagonal Prism like Zinc Oxide for Electrochemical Determination of Gallic Acid in Wine Samples

International Journal of ELECTROCHEMICAL SCIENCE (May 2019)

Wen-Han Chang Kesavan Ganesh , Allen Joseph Anthuvan , Shen-Ming Chen , Kumuthini Rajendran , Tse-Wei Chen, Viswanathan Chinnuswamy , Shih-Yi Lee

76. ?-MoO₃ nanostructure on carbon cloth substrate for dopamine detection

Nanotechnology (April 2019)

M. Murugesan, K. Movlaee, Giovanni Neri, Ponpandian N, C Viswanathan

77. Nitrogen doped carbon nanofibers loaded with hierarchical vanadium tetrasulfide for the voltammetric detection of the non-steroidal anti-prostate cancer drug nilutamide

Microchimica Acta (March 2019)

Kumuthini Rajendran, Thangavelu Kokulnathan, Shen-Ming Chen, Joseph Anthuvan Allen, Chinnuswamy Viswanathan, Helen Anna Therese

78. Effect of nano-coated CuO absorbers with PVA sponges in solar water desalting system

Applied Thermal Engineering (February 2019)

T Arunkumar, D Murugesan, Kaiwalya Raj, David Denkenberger, C Viswanathan, R Velraj

79. Design and fabrication of MEMS based intracranial pressure sensor for neurons study

Vacuum (February 2019)

N Manikandan, S Muruganand, M Divagar, C Viswanathan

80. Carbon fiber based electrochemical sensor for sweat cortisol measurement

Scientific reports (January 2019)

M Sekar, M Pandiaraj, S Bhansali, N Ponpandian, C Viswanathan

81. Circumferential growth of zinc oxide nanostructure anchored over carbon fabric and its photocatalytic performance towards p-nitrophenol

Superlattices and Microstructures (January 2019)

Joseph Anthuvan Allen, Duraisamy Murugesan, Chinnuswamy Viswanathan

82. Surface Imprinted Ag Decorated MnO₂ Thin Film Electrodes for the Synergic Electrochemical Detection of Bacterial Pathogens

Journal of The Electrochemical Society (January 2019)

M Divagar, R Sriramprabha, S Sornambikai, N Ponpandian, C Viswanathan

83. Self-assembly of nanostructured hydroxyapatite spheres for photodegradation of methylene blue dye

Materials Today: Proceedings (January 2019)

I Reeta Mary, R Leethiyal, P Sekar, D Mangalaraj, C Viswanathan, N Ponpandian

84. Effect and Safety Evaluation of Hydrothermal Synthesis on Graphene and GO/MgO Nanocomposite for Visible light Photocatalytic Activity

International Journal of Contemporary Applied Researches (November 2018)

S Krishna Moorthy, D Murugesan, N Ponpandian, C Viswanathan



85. N-Doped graphene with anchored ZnFe 2 O 4 nanostructures as an anode for lithium ion batteries with enhanced reversible capacity and cyclic performance

New Journal of Chemistry (September 2018)

Dhandapani Navadeepthy, Subramani Bhuvaneshwari, Raju Prakash, Chinnusamy Viswanathan, Nagamony Ponpandian

86. Tin Oxide/Reduced Graphene Oxide Nanocomposite-Modified Electrode for Selective and Sensitive Detection of Riboflavin

Journal of The Electrochemical Society (August 2018)

R Sriramprabha, M Divagar, N Ponpandian, C Viswanathan

87. Detection of typhoid fever by diatom-based optical biosensor

Environmental Science and Pollution Research (July 2018)

Viji Selvaraj, Anbazhagi Muthukumar, Ponpandian Nagamony, C Viswanathan

88. Amine-functionalized diatom frustules: a platform for specific and sensitive detection of nitroaromatic explosive derivative

Environmental Science and Pollution Research (July 2018)

Viji Selvaraj, Neethi Thomas, Allen Joseph Anthuvan, Ponpandian Nagamony, C Viswanathan

89. Surfactant-free solvothermal synthesis of Hydroxyapatite nested bundles for the effective photodegradation of cationic dyes

Journal of Physics and Chemistry of Solids (May 2018)

I Reeta Mary, S Sonia, D Navadeepthy, D Mangalaraj, C Viswanathan, N Ponpandian

90. Self-assembled SnO₂/reduced graphene oxide nanocomposites via Langmuir-Blodgett technique as anode materials for Li-ion batteries

Materials Letters (May 2018)

Sriramprabha Ramasamy, Ponpandian Nagamony, C Viswanathan

91. Trace level electrochemical determination of the neurotransmitter dopamine in biological samples based on iron oxide nanoparticle decorated graphene sheets

Inorganic Chemistry Frontiers (January 2018)

Thangavelu Kokulnathan, Allen Joseph Anthuvan, Shen-Ming Chen, C Viswanathan, Krishna Kadirvelu

92. Nanostructured SnO₂ integrated conductive fabrics as binder-free electrode for neurotransmitter detection

Sensors and Actuators A: Physical (January 2018)

Sekar Madhu, Pandiaraj Manickam, Michelle Pierre, Shekhar Bhansali, Ponpandian Nagamony, C Viswanathan

93. Facile synthesis of monodispersed 3D hierarchical Fe₃O₄ nanostructures decorated r-GO as the negative electrodes for Li-ion batteries

Materials Research Bulletin (January 2018)

S Rajesh Kumar, Jong Guk Kim, C Viswanathan, Won Bae Kim, R Kalai Selvan, N Ponpandian



94. N-doped Graphene/ZnFe₂O₄: a novel nanocomposite for intrinsic peroxidase based sensing of H₂O₂

Materials Research Bulletin (November 2017)
D Navadeepthy, A Rebekah, C Viswanathan, N Ponpandian

95. Selective and low potential electrocatalytic oxidation and sensing of L-cysteine using metal impurity containing carbon black modified electrode

Analytical Methods (November 2017)
Sundaram Sornambikai, Mohammed Rafiq Abdul Kadir, Annamalai Senthil Kumar, Nagamony Ponpandian, Chinnuswamy Viswanathan

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