Bharathiar University

State University I "A++" Grade by NAAC I 26th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr C VISWANATHAN

Professor
Department of Nanoscience and Technology

Bharathiar University
, 641046
Tamil Nadu

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Phone: 9952661338
Office Number: 0422-2428422

Research Area

- Thin film devices
- Nanomaterials for Electrochemical Biosensing Applications
- Nanomaterials for Electrochemical Chemical Sensors Applications
- Nanomaterials for Energy Storage and Energy Conversion Application

Courses Teaching

- Properties of Materials
- Micro and Nano Fabrications
- Electrochemical Sensors and Energy Storage System
- Thinfilm Devices
- Lithography
- Environmental Sustainability of Nanomaterials

Research Experience: 18

Teaching Experience: 16

Research Credentials (as on March 2025 – Source: Google scholar)

H-index: 46 Citations: 6376 i10-index: 130

Patents : Granted: 2

Publications

International Journals: 169

Career

At Bharathiar University

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

Other Institutes

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

Education

Ph. D.

Subject : Physics
Institution : BHARATHIAR UNIVERSITY
Affiliated University : BHARATHIAR UNIVERSITY
Year of Award : May 2005

Dr C VISWANATHAN , Professor , Department of Nanoscience and Technology

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 Purchase of Equipment of Common Instrumentaion Centre

Visits
1. Dept of Physics, National University of Singapore (NUS), Singapore. -)
2. Dept of Chemistry, University of Manchester, Manchester, United Kingdom (UK). -)
3. Dept of Chemistry, University of Birmingham, Birmingham, United Kingdom (UK). -)
4. Dept of Physics/Centre for Nanoscience, University of Kassel, Kassel, Germany. -)
5. Institute of Physical Chemistry (IPC), NCSR "DEMOKRITOS", Athens, Greece. -)
6. Institute Charles Sadron , (ICS), Strasbourg, France. -)

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. Cu encrusted RF sputtered ZnO thin film based electrochemical immunosensor for highly sensitive detection of IL-6 in human blood serum

Microchemical Journal (April 2024)
M. Lakshmi Narayanan, K. Prabhu, N. Ponpandian, C. Viswanathan

2. Non-enzymatic electrochemical detection of methylglyoxal in saliva using a polyaniline/nickel oxide nanohybrid biosensor: A noninvasive approach for diabetes diagnosis

Biosensors and Bioelectronics: X (April 2024)
Subramanian Vasanth, Humayun Amir, Nagomony Ponpandian, Chinnuswamy Viswanathan

3. Nitrogen-enhanced carbon quantum dots mediated immunosensor for electrochemical detection of HER2 breast cancer biomarker

Bioelectrochemistry (February 2024)
Humayun Amir , Vasanth Subramanian , Sundaram Sornambikai , Nagamony Ponpandian , Chinnusamy Viswanathan

4. Characterization of vacuum evaporated In-Se thin films

Ionics (February 2024)
C Viswanathan, S Gopal, D Mangalaraj, Sa K Narayandass, OF Caltun, G Rusu, Junsin Yi

5. Investigation of optical and electronic characteristics of B? site arranged Cs2NaB?Cl5 (B?= Ni, Mn, Fe) double perovskite: A theoretical and experimental study

International Journal of Hydrogen Energy (January 2024)
T. Sangavi, S. Vasanth, C. Viswanathan, N. Ponpandian

6. 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

7. 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

8. Modulating the electronic structure of MoS2/NiS2 by functionalizing it over the N-doped reduced GO to improvise the catalytic hydrogen evolution

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

9. 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

10. Synthesis effect on surface functionalized Ti3C2Tx 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

11. Functionalized Ketjenblack Infusion into Expanded Interlayer Spacing of Ti3C2Tx MXene Nanosheets toward High Specific Capacitance Supercapacitors

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

12. 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

13. Vertically pillared ?-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

14. 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

15. 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

16. 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

17. 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

18. 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

19. 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 Thiruppathi, Palanisamy Sundararaj, Nagomony Ponpandian, Chinnuswamy Viswanathan

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

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

21. 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

22. 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

23. 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

24. 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

25. 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

26. 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

27. Influence on effective and ineffective delamination of MXene (Ti3C2Tx) 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

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

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

29. 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

30. 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

31. 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

32. 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

33. 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

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

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

35. 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

36. 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

37. 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

38. 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

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

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

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

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

41. 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

42. 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

43. 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

44. 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

45. 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

46. 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

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

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

48. 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

49. Sm 3+ rare-earth doping in non-noble metal oxide–WO 3 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

50. 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

51. 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

52. 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

53. 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

54. 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 Viswanthan, N Ponpandian

55. 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

56. Highly stable and selective LaNiO3nanostructures modified glassy carbon electrode for simultaneous electrochemical detection of neurotransmiting compounds

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

57. Removal of 1-napthylamine 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

58. 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

59. 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

60. 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

61. 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

62. 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

63. 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

64. 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

65. 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

66. 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

67. 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

Dr C VISWANATHAN , Professor , Department of Nanoscience and Technology

68. 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

69. 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

70. 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

71. A nanocomposite of NiFe 2 O 4–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

72. 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. Viswanthan

73. 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

74. 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

75. 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

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

ACS Applied Electronic Materials (January 2020)
Sekar Madhu, Allen Joseph Anthuuvan, Sriramprabha Ramasamy, Pandiaraj Manickam, Shekhar Bhansali, Ponpandian Nagamony and Viswanathan Chinnuswamy

77. 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

Dr C VISWANATHAN , Professor , Department of Nanoscience and Technology

78. 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

79. 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

80. 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

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

Nanotechnology (April 2019)
M. Murugesan, K. Movlaee, Giovanni Neri, Ponpandian N, C Viswanathan

82. 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 Annal Therese

83. 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

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

Vacuum (February 2019)
N Manikandan, S Muruganand, M Divagar, C Viswanathan

85. Carbon fiber based electrochemical sensor for sweat cortisol measurement

Scientific reports (January 2019)
M Sekar, M Pandiaraj, S Bhansali, N Ponpandian, C Viswanathan

86. 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

87. 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

Dr C VISWANATHAN , Professor , Department of Nanoscience and Technology

88. 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

89. 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

90. 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 Bhuvaneswari, Raju Prakash, Chinnusamy Viswanathan, Nagamony Ponpandian

91. 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

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

Environmental Science and Pollution Research (July 2018)
Viji Selvaraj, Anbazhagi Muthukumar, Ponpandian Nagamony, C Viswanathan

93. 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

94. 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

95. 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

96. 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

97. Nanostructured SnO 2 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

98. 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

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