- Voltammetric Estimation of Caffeic Acid on Glassy Carbon Electrode Modified Chitosan-Protected Nanohybrid Composed of Carbon Black and Reduced Graphene Oxide, KannaiyanPandian, DhamodaranMohanaSoundari, PanneerselvamRudra Showdri1, JayaprakashKalaiyarasi and Subash Chandra Bose Gopinath,, MicrochimicaActa,, (2019), 1-9,
- Amperometry detection of nitrite in food samples using tetrasulfonated copper phthalocyanine modified glassy carbon electrode., A. Sudarvizhi, **K. Pandian**, OS Oluwafemi, SCB Gopinath, Sensors and Actuators B: Chemical, 272, (2018), 151 159,
- High surface graphenenanoflakes as sensitive sensing platform for simultaneous electrochemical detection of metronidazole and chloramphenicol., S. Meenakshi, S. Jancy Sophia, K. Pandian., Materials Science and Engineering: C., 90, (2018), 407-419.,
- Amperometric determination of nitrite using natural fibers as template for titanium dioxide nanotubes with immobilized hemin as electron transfer mediator., B. Ranjani, J. Kalaiyarasi, L. Pavithra, T. Devasena, Subash C. B. Gopinath, K. Pandian, MicrochimicaActa., 185, (2018), 185 194,
- Gelatin stabilization of quantum dots for improved stability and biocompatibility., O. Samuel Oluwafemi S. Parani, **K. Pandian**, International journal of biological macromolecules, 107, (2018), 635-641,
- Fabrication of bilayer coating of Poly(3,4-ethylenedioxythiophene)-Halloysite/Chitoson and Mg2+/Sr2+ doped HAP on titanium alloy for Biomedical Implant Applications., R. R. M. Chozhanathmisra, D. Govindaraj, P. Karthikeyan, **K. Pandian**, Journal of Chemistry., (2018),
- Palladium nanoparticle-decorated reduced graphene oxide sheets synthesized using Ficuscarica fruit extract: A catalyst for Suzuki cross-coupling reactions, Y. Chen, A. JaculinRaiza, K. Pandian, R. Raghavachary, Subash C. B. Gopinath., PLoS ONE, (2018),
- Cobalt phthalocyanine tagged graphenenanoflakes for enhanced electrocatalytic detection of N-acetylcysteine by amperometry method, S Meenakshi, G Kaladevi, K Pandian, P Wilson, Ionics, 24, (2018), 2807-2819,
- Novel copper doped Halloysite Nano Tube/silver-poly (pyrrole-co-3, 4-ethylenedioxythiophene) dual layer coatings on low nickel stainless steel for anti-corrosion applications.
 Karthikeyan, S. Sathishkumar, K. Pandian, L. Mitu, R. Rajavel.
 Journal of science: Advanced materials and devices.
 (2018)
 59-67.
- Polypyrrole-Protected Magnetic Nanoparticles as an Excellent Sorbent for Effective Removal of Cr(VI) and Ni(II) from Effluent Water: Kinetic Studies and Error Analysis., K. Chithra. R. T. Akshayaraj. **K. Pandian**, Arabian journal for science and engineering., (2018),
- Characterization of reduced graphene oxide obtained from vacuum-assisted low-temperature exfoliated graphite.
 S. V. Chinni, Subash C. B. Gopinath, P. Anbu, T. Theivasanthi, M. K. MdArshad, T. Lakshmipriya, C. H. Voon, K. Pandian, P. Velusamy., Microsystem Technologies., (2018),
- MK Moodley, KitessaRoro, K Murugan Solid-State synthesis of POPD@ AgNPsnanocomposites for electrochemical sensors.
 P Paulraj, A Manikandan, E Manikandan, K Pandian, Journal of nanoscience and nanotechnology, 18, (2018), 3991-3999,

- Mediator-free simultaneous determination of acetaminophen and caffeine using glassy carbon electrode modified with nanotubular clay, , J. Kalaiyarasi, S. Meenakshi, Subash C. B. Gopinath and **K. Pandian**, MicrochimicaActa, 184, (2018), 4485-4494,
- Shape and Size Controlled Synthesis of Silver Nanoparticles Using Aloe Vera Plant Extract and Their Antimicrobial Activity Nanoscale Research Letters, K. Logaranjan, A. JaculinRaiza, SCB Gopinath, Y. Chen, **K. Pandian**, Nanoscale Research Letters, 11(1), (2017), 520,
- Aptamer-based impedimetric determination of the human blood clotting factor IX in serum using an interdigitated electrode modified with a ZnOnanolayer, O. C. Cheen, SCB Gopinath, V. Perumal, MK MdArshad, T. Lakshmipriya, Y. Chen, R. Haarindraprasad, Balakrishnan S Rao, UdaHashim, **K. Pandian**, MicrochimicaActa, 184(1), (2017), 117-125,
- Simultaneous Voltammetric Determination of Vanillin and Guaiacol in Food Products on Defect free Graphene Flakes Modified Glassy Carbon Electrode, J. Kalaiyarasi, S. Meenakshi, K. Pandian and Subash C. Gopinath, MicrochimicaActa, (2017),
- Simultaneous voltammetric determination of vanillin and guaiacol on food products on defect free graphenenanoflakes modified glassy carbon electrode,, J. Kalaiyarasi, S. Meenakshi, **K. Pandian** and Subash C. B. Gopinath,, MicrochimicaActa,, 184, (2017), 2131-2140,
- Aptamer-based impedimetric determination of the human blood clotting factor IX in serum using an interdigitated electrode modified with a ZnOnanolayer", O. C. Cheen, SCB Gopinath, V. Perumal, MK MdArshad, T. Lakshmipriya, Y. Chen, R. Haarindraprasad, Balakrishnan S Rao, UdaHashim and K. Pandian, MicrochimicaActa, 184, (2017), 117-125,
- Synthesis of well-dispersed silver nanoparticles in polypyrrole reduced graphene oxide nanocomposite for simultaneous detection of toxic hydrazine and nitrite in water sources., G. Kaladevi, S. Meenakshi, **K. Pandian** and P. Wilson, Journal of Electrochemical Society,, 164, (2017), 1-12,
- PeriasamyAnbu, Preparation of cotton fabric using sodium alginate-coated nanoparticles to protect against nosocomial pathogens, , Chia-Hung Su, G. Venkat Kumar, S. Adhikary, P. Velusamy, **K. Pandian**, Biochemical Engineering Journal, 117, (2017), 28-35,
- Electrochemical deposition of a Zn-HNT/p(EDOT-co-EDOP) nanocomposite on LN SS for anti-bacterial and anti-corrosive applications, , G. Anbarasu and R. Rajavel P. Karthikeyan, LiviuMitu and **K. Pandian**, New journal of Chemistry, 41, (2017), 4758-4762,
- Studies of antibacterial efficacy of different biopolymer protected silver nanoparticles synthesized under reflux condition, , Chia Hung Su, P. Velusamy, G. Venkat Kumar, S. Adhikary, **K. Pandian** and PeriyasamyAnbu,, Journal of Molecular Structure,, 112, (2017), 718–723.,
- Solid-State Synthesis of POPD@AgNPsNanocomposites for Electrochemical Sensors, , K. Murugan P. Paulraj, A. Manikandan, E. Manikandan and K. Pandian, M. K. Moodley, K. Roro,, Journal of Nanoscience and Nanotechnology,, 17, (2017),
- Novel approach to produce oil from non-edible seeds of Indigoferacolutea, , R. Ernest, S. Ajith Kumar Rajendran, K. Pandian and S. Renganathan, V. Theresa, Energy Sources Part A Recovery Utilization and Environmental Effects., (2017), 1369-72,

- A novel and Disposable Amperometric Hydrazine Sensor based on Polydimethyldiallylamine Stabilized Copper(II)hexacyanoferrateNanocubes modified Screen-printed carbon electrode, , K. Pandian, R. Sukanya, S. Rajalakshmi, Shen-Ming Chen, P. Selvakumar, V. Vijayalakshmi, Tse-Wei Chen and R. SayeeKannan, International Journal of Electrochemical Sciences,, 12, (2017), 5567-5580,
- Oluwafemi, Thiolated selenium as a new precursor for the aqueous synthesis of CdSe/CdS core/shell quantum dots,, S. Parani, N. Tsolekile, **K. Pandian** and O. Samuel, Journal of Materials Science: Materials in Electronics, 28, (2017), 11151-62,
- 1.3,3'-Diindolylmethane Encapsulated Chitosan Nanoparticles Accelerates Inflammatory Markers, ER/PR, Glycoprotein and Mast Cells Population During Chemical Carcinogen Induced Mammary Cancer in Rats, , Stainsloss Isabella, SankaranMirunalini and **K. Pandian**, International Journal of Clinical Biochemistry,, (2017),
- Synthesis, Characterization of Polyaniline and Polyaniline Encapsulated Cellulose isolated from Sugarcane Bagasse and its study on Electronic Properties, DJ Journal of Engineering Chemistry and Fuel, 2 (2017) 61-66. ISSN no (Online): 2455-5193, V. Jaisankar A. Shalini and **K. Pandian**, DJ Journal of Engineering Chemistry and Fuel, 2, (2017), 2455-5193,
- MC Rao and BTP Madhav, Effect of ZnO Nanoparticles Dispersed in Liquid Crystalline Alkoxy Benzoic Acids and Periodic Noise Reduction Using Frequency Domain Filtering, , **K. Pandian**, RKNR Manepalli, P Jayaprada ,, Research Journal of Pharmaceutical, Biological and Chemical Sciences, 2, (2017), 2335,
- "Aptamer-based impedimetric determination of the human blood clotting factor IX in serum using an interdigitated electrode modified with a ZnOnanolayer", , 26. O. C. Cheen, SCB Gopinath, V. Perumal, MK MdArshad, T. Lakshmipriya, Y. Chen, R. Haarindraprasad, Balakrishnan S Rao, UdaHashim and **K. Pandian**, MicrochimicaActa, 184, (2017), 117-125,
- "Shape and Size Controlled Synthesis of Silver Nanoparticles Using Aloe Vera Plant Extract and Their Antimicrobial Activity, , K. Logaranjan, A. JaculinRaiza, Subash. C. B. Gopinath, Y. Chen and **K. Pandian**, Nanoscale Research Letters, 11, (2017), 520,
- Enhanced Peptide Delivery and Sustainable Release of Pleurocidin Using N-Succinyl Chitosan Nanoparticle, D.R Gunasekaran G. Bupesh, C. Amutha, S.Vasanth, T. Siva Vijayakumar, K. Pandian, V. Balachandar, Nano Biomedicine and Engineering., 9, (2017), 324-332,
- "Aptamer-based impedimetric determination of the human blood clotting factor IX in serum using an interdigitated electrode modified with a ZnOnanolayer", O. C. Cheen, SCB Gopinath, V. Perumal, MK MdArshad, T. Lakshmipriya, Y. Chen, R. Haarindraprasad, Balakrishnan S Rao, UdaHashim and **K. Pandian**, MicrochimicaActa, 184, (2017), 117-125,
- "Shape and Size Controlled Synthesis of Silver Nanoparticles Using Aloe Vera Plant Extract and Their Antimicrobial Activity, K. Logaranjan, A. JaculinRaiza, SCB Gopinath, Y. Chen and K. Pandian, ", Nanoscale Research Letters, 11, (2017), 520,
- Synthesis of oleic acid coated iron oxide nanoparticles and its role in anti-biofilm activity against clinical isolates of bacterial pathogens, P. Velusamy, Su Chia-Hung, A. Shritama, G. Venkat Kumar, V. Jeyanthi and **K. Pandian**, Journal of the Taiwan Institute of Chemical Engineers, 59, (2016), 450-456,

- Biopolymers Regulate Silver Nanoparticle under Microwave Irradiation for Effective Antibacterial and Antibiofilm Activities, P. Velusamy, CH Su, GV Kumar, S Adhikary, **K Pandian**, SCB Gopinath, Yeng Chen and PeriasamyAnbu, PloS one, 11 (6), (2016), e0157612,
- Enhanced Amperometric Detection of Metronidazole in Drug Formulations and Urine Samples Based on Chitosan Protected Tetrasulfonated Copper Phthalocyanine Thin-film Modified Glassy Carbon Electrode, S. Meenakshi, **K. Pandian**, L. S. Jayakumari, and S. Inbasekaran, Materials science and Engineering C, 59, (2016), 136-144,
- Sun light assisted synthesis of silver nanoparticles in zeolite matrix and study of its application on electrochemical detection of dopamine and uric acid in urine samples, S. Meenakshi, S. Devi, K. Pandian, R Devendiran and M Selvaraj, Materials Science and Engineering: C, 69, (2016), 85 94.
- Simultaneous Voltammetry detection of Dopamine and Uric acid in Pharmaceutical product and Urine samples using Ferrocene carboxylic acid primed nanoclay modified glassy carbon electrode, S. Meenakshi and **K. Pandian**, Journal of the Electrochemical Society, 163, (2016), B543-B555,
- Facile synthesis of mercaptosuccinic acid-capped CdTe/CdS/ZnS core/double shell quantum dots with improved cell viability on different cancer cells and normal cells, , S. Parani, G. Bupesh, E. Manikandan, **K. Pandian** and O. Samuel Oluwafemi, Journal of Nanoparticle Research, 18, (2016), 347,
- Simultaneous voltammetry detection of dopamine and uric acid in pharmaceutical products and urine samples using ferrocene carboxylic acid primed nanoclay modified glassy carbon electrode, S. Meenakshi and **K. Pandian**, Journal of Electrochemical Society, 163, (2016), B543-B555,
- Methylene blue modified nanoclay modified electrode for the electrochemical detection of hydrogen peroxide and NADH, S. Meenakshi and **K. Pandian**, Journal of Electrochemical Society of India, 65, (2016), 142-147,
- "Sun light assisted synthesis of silver nanoparticles in zeolite matrix and study of its application on electrochemical detection of dopamine and uric acid in urine samples", S Meenakshi, S Devi, **K Pandian**, R Devendiran and M Selvaraj, Materials Science and Engineering: C,, 69, (2016), 85-94,
- Enhanced Amperometric Detection of Metronidazole in Drug Formulations and Urine Samples Based on Chitosan Protected Tetrasulfonated Copper Phthalocyanine Thin-film Modified Glassy Carbon Electrode, S. Meenakshi, **K. Pandian**, L. S. Jayakumari, and S. Inbasekaran, Materials science and Engineering C., 59, (2016), 136-144,
- "Synthesis of oleic acid coated iron oxide nanoparticles and its role in anti-biofilm activity against clinical isolates of bacterial pathogens", P Velusamy, S Chia-Hung, A Shritama, GV Kumar, V Jeyanthi and K Pandian, Journal of the Taiwan Institute of Chemical Engineers, 59, (2016), 450-456,
- Enhanced Antibacterial, Anticancer Activity from Terminaliachebula Medicinal Plant Rapid Extract by Phytosynthesis of Silver Nanoparticles Core-shell Structures", G Bupesh, E Manikandan, K Thanigaiarul, S Magesh, V Senthilkumar, S Tamilarasan, **K Pandian**, A Gurib-Fakim and M Maaza, Journal of Nanomedicine& Nanotechnology, 7, (2016), 355,

- "Biopolymers Regulate Silver Nanoparticle under Microwave Irradiation for Effective Antibacterial and Antibiofilm Activities", P Velusamy, CH Su, GV Kumar, S Adhikary, **K Pandian,** SCB Gopinath, Yeng Chen and PeriasamyAnbu, PloS one, 11, (2016),
- "Sonochemical Synthesis of Bi2S3 Nanowires Using Single Source Precursor and Their Electrochemical Activity", P Devendran, T Alagesan, A Manikandan, S AsathBahadur, M Krishna Kumar, S Rathinavel and **K. Pandian**, Nanoscience and Nanotechnology Letters, 8, (2016), 478-483,
- "A Green Approach to the Synthesis of Eriochrome Black-T Capped Silver Nanoparticles and Its Electrochemical Detection of L-Tryptophan and L-Tyrosine in Blood Sample and Antibacterial Activity", E Prabakaran, VSV Rani, A Brabakaran, **K Pandian** and D Jesudurai, Journal of Advanced Electrochemistry, 2, (2016), 78-84,