

List of publications

1. Immanuel, S. and Sivasubramanian, R., 2020. Electrochemical reduction of NAD⁺ on graphene oxide and chemically reduced graphene oxide nanosheets. *Materials Science and Engineering: B*, 262, p.114705.
2. Immanuel, S. and Sivasubramanian, R., 2020. Fabrication of two-dimensional chemically reduced graphene oxide nanosheets for the electrochemical determination of epinephrine. *Bulletin of Materials Science*, 43(1), pp.1-11.
3. Kasturi, P.R., Aparna, T.K., Arokiyanathan, A.L., Lakshmipathi, S., Sivasubramanian, R., Lee, Y.S. and Selvan, R.K., 2020. Synthesis of metal-free nitrogen-enriched porous carbon and its electrochemical sensing behavior for the highly sensitive detection of dopamine: Both experimental and theoretical investigation. *Materials Chemistry and Physics*, p.124094.
4. Immanuel, S., Sivasubramanian, R., Dar, M.A. and Gul, R., 2020. Recent progress and perspectives on electrochemical regeneration of reduced nicotinamide adenine dinucleotide (NADH). *Chemistry—An Asian Journal*.
5. Haripriya, M., Ashok, A.M., Hussain, S. and Sivasubramanian, R., 2020. Nanostructured MnCo₂O₄ as a high-performance electrode for supercapacitor application. *Ionics*, pp.1-13.
6. Immanuel, S. and Sivasubramanian, R., 2020. Electrochemical studies of the oxidation of NADH on chemically reduced graphene oxide nanosheets modified glassy carbon electrode. *Materials Chemistry and Physics*, p.123015.
7. Dharmalingam, G., Sivasubramanian, R. and Parthiban, S., 2020. Quantification of Ethanol by Metal-Oxide-Based Resistive Sensors: A Review. *Journal of Electronic Materials*, pp.1-16.
8. Sravani, B., Raghavendra, P., Chandrasekhar, Y., Reddy, Y.V.M., Sivasubramanian, R., Venkateswarlu, K., Madhavi, G. and Sarma, L.S., 2020. Immobilization of platinum-cobalt and platinum-nickel bimetallic nanoparticles on pomegranate peel extract-treated reduced graphene oxide as electrocatalysts for oxygen reduction reaction. *International Journal of Hydrogen Energy*, 45(13), pp.7680-7690.
9. Chinnasamy, S. and Ramanathan, S., 2020. Ruthenium (II) dicarboxylated bipyridyl based metal organic polymer as a sensitizer for nanostructured TiO₂ based dye-sensitized solar cells (DSSC). *Journal of Ceramic Processing Research*, 21(1), pp.123-130.

10. Houshyar, S., Pillai, M.M., Saha, T., Sathish-Kumar, G., Dekiwadia, C., Sarker, S.R., Sivasubramanian, R., Shanks, R.A. and Bhattacharyya, A., 2020. Three-dimensional directional nerve guide conduits fabricated by dopamine-functionalized conductive carbon nanofibre-based nanocomposite ink printing. *RSC Advances*, 10(66), pp.40351-40364.
11. Prabhu, D.B., Nampoothiri, J., Elakkiya, V., Narmadha, R., Selvakumar, R., Sivasubramanian, R., Gopalakrishnan, P. and Ravi, K.R., 2020. Elucidating the role of microstructural modification on stress corrosion cracking of biodegradable Mg4Zn alloy in simulated body fluid. *Materials Science and Engineering: C*, 106, p.110164.
12. Alagappan, M., Immanuel, S., Sivasubramanian, R. and Kandaswamy, A., 2020. Development of cholesterol biosensor using Au nanoparticles decorated f-MWCNT covered with polypyrrole network. *Arabian Journal of Chemistry*, 13(1), pp.2001-2010.
13. Aparna, T.K. and Sivasubramanian, R., 2019. FeTiO₃ nanohexagons based electrochemical sensor for the detection of dopamine in presence of uric acid. *Materials Chemistry and Physics*, 233, pp.319-328.
14. Haripriya, M., Sivasubramanian, R., Ashok, A.M., Hussain, S. and Amarendra, G., 2019. Hydrothermal synthesis of NiCo₂O₄-NiO nanorods for high performance supercapacitors. *Journal of Materials Science: Materials in Electronics*, 30(8), pp.7497-7506.
15. Immanuel, S., Aparna, T.K. and Sivasubramanian, R., 2019. A facile preparation of Au—SiO₂ nanocomposite for simultaneous electrochemical detection of dopamine and uric acid. *Surfaces and Interfaces*, 14, pp.82-91.
16. Immanuel, S., Aparna, T.K. and Sivasubramanian, R., 2019. Graphene–Metal Oxide Nanocomposite Modified Electrochemical Sensors. In *Graphene-Based Electrochemical Sensors for Biomolecules* (pp. 113-138). Elsevier.
17. Aparna, T.K., Sivasubramanian, R. and Dar, M.A., 2018. One-pot synthesis of Au-Cu₂O/rGO nanocomposite based electrochemical sensor for selective and simultaneous detection of dopamine and uric acid. *Journal of Alloys and Compounds*, 741, pp.1130-1141.
18. Immanuel, S. and Sivasubramanian, R., 2018, April. Investigation on the electrochemical interfacial properties of 2-aminothiophenol functionalized graphene oxide modified electrode. In *AIP Conference Proceedings* (Vol. 1942, No. 1, p. 080043). AIP Publishing LLC.

19. Raghavendra, P., Reddy, G.V., Sivasubramanian, R., Chandana, P.S. and Sarma, L.S., 2018. Reduced graphene oxide-supported Pd@ Au bimetallic nano electrocatalyst for enhanced oxygen reduction reaction in alkaline media. *International Journal of Hydrogen Energy*, 43(8), pp.4125-4135.
20. Aparna, T.K. and Sivasubramanian, R., 2018. NiFe_2O_4 nanoparticles-decorated activated carbon nanocomposite based electrochemical sensor for selective detection of dopamine in presence of uric acid and ascorbic acid. *Journal of Chemical Sciences*, 130(2), p.14.
21. Aparna, T.K. and Sivasubramanian, R., 2018. A facile hydrothermal synthesis of three dimensional flower-like NiO-thermally reduced graphene oxide (trGO) nanocomposite for selective determination of dopamine in presence of uric acid and ascorbic acid. *Journal of Nanoscience and Nanotechnology*, 18(2), pp.789-797.
22. Aparna, T.K. and Sivasubramanian, R., 2018. Selective electrochemical detection of dopamine in presence of ascorbic acid and uric acid using NiFe_2O_4 -activated carbon nanocomposite modified glassy carbon electrode. *Materials Today: Proceedings*, 5(8), pp.16111-16117.
23. Karuppanan, K.K., Raghu, A.V., Panthalingal, M.K., Ramanathan, S., Kumaresan, T. and Pullithadathil, B., 2018. Triple phase boundary augmentation in hierarchical, Pt grafted N-doped mesoporous carbon nanofibers for high performance and durable PEM fuel cells. *Journal of Materials Chemistry A*, 6(26), pp.12768-12781.
24. Kunhiraman, A.K., Ramanathan, S. and Pullithadathil, B., 2018. Enlarged interlayer spaced molybdenum disulfide supported on nanocarbon hybrid network for efficient hydrogen evolution reaction. *Electrochimica Acta*, 264, pp.329-340.
25. Raghavendra, P., Reddy, G.V., Sivasubramanian, R., Chandana, P.S. and Sarma, L.S., 2017. Facile Fabrication of Pt-Ru Nanoparticles Immobilized on Reduced Graphene Oxide Support for the Electrooxidation of Methanol and Ethanol. *ChemistrySelect*, 2(35), pp.11762-11770.
26. Vijayaraghavan, T., Sivasubramanian, R., Hussain, S. and Ashok, A., 2017. A Facile Synthesis of LaFeO_3 -Based Perovskites and Their Application towards Sensing of Neurotransmitters. *ChemistrySelect*, 2(20), pp.5570-5577.
27. Kunhiraman, A.K., Ramasamy, M. and Ramanathan, S., 2017. Efficient hydrogen evolution catalysis triggered by electrochemically anchored platinum nano-islands on functionalized-MWCNT. *International Journal of Hydrogen Energy*, 42(15), pp.9881-9891.

28. Sivasubramanian, R. and Biji, P., 2016. Preparation of copper (I) oxide nanohexagon decorated reduced graphene oxide nanocomposite and its application in electrochemical sensing of dopamine. *Materials Science and Engineering: B*, 210, pp.10-18.
29. Sivasubramanian, R. and Sangaranarayanan, M.V., 2015. A facile formation of silver dendrites on indium tin oxide surfaces using electrodeposition and amperometric sensing of hydrazine. *Sensors and Actuators B: Chemical*, 213, pp.92-101.