Dr. N. Balasubramanian Publications

1. S Shanmugasundar, N Kannan, E Sundaravadivel, SarangZsolt, KS Mukunthan, J Manokaran, J Narendranath, VP Kamalakannan, P Kavitha, V Prabhu, Nagaraj Balasubramanian, Study on the inflammatory response of PMMA/polystyrene/silica nanocomposite membranes for drug delivery and dental applications, PloS one, 14(3), (2019) 209948
2. KavithaNagarasampattiPalani, DarshiniSaravanan, KamalakannanVasanthaPalaniappan, ShanmugaSundar, N Balasubramanian, Development of sequential batch ozonated adsorptive membrane bioreactor to mitigate fouling with reduced energy consumption, Korean Journal of Chemical Engineering, 36(2), (2019), 265-271
3. M Vanitha, I Made Joni, P Camellia, N Balasubramanian, Tailoring the properties of cerium doped zinc oxide/reduced graphene oxide composite: Characterization, photoluminescence study, antibacterial activity, Ceramics International 44(16), (2018), 19725-19734
4. M Vanitha, P Camellia, N Balasubramanian, Augmentation of graphite purity from mineral resources and enhancing% graphitization using microwave irradiation: XRD and Raman studies, Diamond and Related Materials, 88, (2018), 129-136
5. M Nithya, Keerthi Praveen, U Sathya, N Balasubramanian, A Pandurangan, Green synthesis of α-Fe2O3/BiPO4 composite and its biopolymeric beads for enhancedphotocatalytic application, Journal of Materials Science: Materials in Electronics, 29 (17), (2018), 14733-14745
6. M Vanitha, N Balasubramanian, I Made Joni, Camellia Panatarani, Detection of mercury ions using L-cysteine modified electrodes by anodic stripping voltammetric method, AIP Conference Proceedings, 1927(1), (2018), 030001
7. R K Jhanani, J.Manokaran, J.Narendranath, N. Balasubramanian, N. Prabhu, PDDA Functionalized nitrogen and sulphur doped graphene composite as counter electrode for dye- sensitized solar cells, , New J. Chem., 42, (2018) 10184.
8. S. Vadivel, B. Saravanakumar, M. Kumaravel, D. Maruthamani, N. Balasubramanian, A. Manikandan, G. Ramadoss, B. Paul, S. Hariganesh, Facile solvothermal synthesis of BiOImicrosquares as a novel electrode material for super capacitor applications, Materials Letters, 210 (2018) 109-112.
9. R.Muruganantham, MK Sung, H. Yuvaraj, J. Manokaran, J. Narendranath, H.Yun Suk, N. Balasubramanian, Ternary Pt- Ru-Fe nano particles supported N-doped graphene as an efficient bifunctional catalyst for methanol oxidation and oxygen reduction reactions. International journal of hydrogen energy, 42 (2017) 30738 -30749.
10. V. Vijayakumar, R. Saravanathamizhan, N. Balasubramanian, Modeling of tubular electrochemical reactor for dye removal Journal of Engineering Science and Technology, 12 (2017) 1506-1513.
11. R. Palani, A. Abdulgani, N. Balasubramanian, Treatment of tannery effluent using a rotating disc electrochemical reactor, Water Environment Research, 89 (2017) 77-85.
12. J. Manokaran, J. Narendranath, R. Muruganantham, N. Balasubramanian, Nitrogen doped graphene supported Pt-Pd nanoparticle modified GC electrode for electrochemical determination of tramadol and paracetamol, Indian Journal of Chemistry - Section A Inorganic, Physical, Theoretical and Analytical Chemistry, 56A (2017) 63-68.
13. D.S. Ibrahim, N.A. Sami, N. Balasubramanian, Effect of barite and gas oil drilling fluid additives on the reservoir rock characteristics, Journal of Petroleum Exploration and Production Technology, 7 (2017) 281-292.

14. Vadivel, J Theerthagiri, J Madhavan, TS Priya, N Balasubramanian , Enhanced photocatalytic activity of degradation of azo, phenolic and triphenyl methane dyes using novel octagon shaped BiOCl discs/MWCNT composites , Journal of Water Process Engineering, Elsevier 201,(2016)165-171
15. V Vijayakumar, R Saravanathamizhan, N Balasubramanian Electro oxidation of dye effluent in a tubular electrochemical reactor using TIO2 and RUO2anode , Journal of water process engineering , Elsevier ,9 (2016) 155 – 160
16. Lizhang Wang, Bo Wu, Peng Li, Bo Zhang, N Balasubramanian, YueminZhao , Kinetics for Electro-oxidaton of Organic pollutants using packed - bed electrode reactor , Chemical Engineering Journal , Elsevier 284 (2016) 240 -246
17. S.Vadivel, Kamala kannan V P, Kavitha N P, SanthoshiniPriya, N.Balasubramanian, Development of novel Ag modified BiOF squares/g-C3N4 composite for photocatalytic applications, Materials Science in Semiconductor Processing, Elsevier 41 (2016) 59 – 66
18. S.Vadivel, N.Naveen, K.Kamalakannan, Peng Cao, N.Balasubramanian, Facile large scale synthesis of Bi2S3nano rods - graphene composite for photocatalytic photo electrochemical and supercapacitor application, Applied surface science 351 (2015) 635–645
19. J.Manokaran, R. Muruganantham, A.Muthukrishnaraj,N.Balasubramanian, Platinum polydopamine@Sio2 nanocomposite modified electrode for the electrochemical determination of quercetin,ElectrochimicaActa 168 (2015) 16–24
20. M.Vanitha, Keerthi, P. Cao, N. Balasubramanian, Ag nanocrystals anchored CeO2/graphene nanocomposite for enhanced supercapacitor applications, Journal of Alloys and Compounds 644 (2015) 534–544
21. Vanitha M, Keerthi, Vadivel.S, Balasubramanian.N, Visible light photocatalysis of methylene blue by graphene based ZnO and Ag/AgCl nanocomposites, Desalination and Water treatment 54 (2015) 10.
22. M. Suryia Prabha, K.Divakar, J. Deepa, Arul Priya, Panneer Selvam N.Balasubramanian P Gautam, Statistical analysis of production of protease and esterase by a newly isolated Lysinibacillus fusiformis AU01: purification and application of protease in sub-culturing cell lines, Annals of Microbiology 65 (2015) 33–46.
23. Vinduja V, Keerthi and Balasubramanian N. Heavy Metal Removal by Electrocoagulation Clubbed MBR, Clean, Soil, Air and water, 43 (4) (2015) 532–537.
24. VanithaMuthukannan, Keerthi, Balasubramanian N, Fabrication and characterization of magnetite/reduced graphene oxide composite incurred from iron ore tailings for high performance application, Materials Chemistry and Physics (2015) 1-8
25. A.Muthukrishnaraj , S. Vadivel , I. Made Joni , N. Balasubramanian, Development of reduced graphene oxide/CuBi2O4 hybrid for enhanced photocatalytic behavior under visible light irradiation, Ceramics International 41 (2015) 6164 –6168
26. A.Muthukrishnaraj, S. Vadivel, V. P. Kamalakannan, N. Balasubramanian,α-Fe2O3/reduced graphene oxide nanorod as efficient photocatalyst for methylene blue degradation,Materials Research Innovations 4 (2015) 258-264
27. R. Saravanathamizhan, Kilaru Harsha Vardhan, D. Gnana Prakash &N. Balasubramanian, RSM and ANN modeling for electro-oxidation of simulated wastewater using CSTER Desalination and Water treatment 55 (6) (2015)