Dr.C.SIVA

ASSISTANT PROFESSOR (OG)

DEPARTMENT OF PHYSICS AND NANOTECHNOLOGY

SRM INSTITUTE OFSCIENCE AND TECHNOLOGY

PUBLICATIONS:

1. P. Baraneedharan, S.I. Hussain, V.P. Dinesh, **Siva Chidambaram**, P. Biji, M. Sivakumar., "Lattice doped Zn–SnO2 nanospheres: A systematic exploration of dopant ion effects on structural, optical, and enhanced gas sensing properties", Applied Surface Science, 357, 1511-1521, 2015.
2. **Siva Chidambaram**, G. Ganga, G. Mohan Kumar, P. Baraneedharan, K. Balasubramanian, Muthusamy, S., "Colloidal synthesis and electrical behaviour of n-ZnGdO/p-Si heterojunction diodes", Journal of colloid and interface science, 452, pp.169-173, 2015
3. J. Percy Sephra, P. Baraneedharan, **Siva Chidambaram**, M. Sivakumar, and K. Nehru, "Microwave assisted synthesis of Sn(1−x)CoxO2 nanoparticles: effect of impurity phase formation on structural, optical and electrochemical properties." Journal of Materials Science: Materials in Electronics, 27, 11401-11409, 2016
4. G. Mohan Kumar, P. Ilanchezhiyan, Fu Xiao, **Siva Chidambaram**, A. Madhan Kumar, Vadim Yalishev, Sh U. Yuldashev, and TW. Kang. "Blue luminescence and Schottky diode applications of monoclinic HfO2 nanostructures", RSC Advances 6, 57941-57947, 2016
5. P. lanchezhiyan, **Siva Chidambaram**., AM. Kumar, F., Xiao, G. Mohan Kumar, TW. Kang, "Optoelectronic characteristics of chemically processed ultra-thin InyZn1−yO nanostructures" CrystEngComm, 18(18), 3204-3210, 2016.
6. **Siva Chidambaram**, P. Baraneedharan, K. Nehru, M. Sivakumar, "ZnO/Ag heterostructures embedded in Fe3O4 nanoparticles for magnetically recoverable photocatalysis", Journal of Alloys and Compounds, 665, pp.404–410, 2016.
7. R. Krithikadevi, Siva Chidambaram, B. Balraj, M. Arunmozhi, G. Mohan Kumar., "One pot polyol synthesis of CuO-CuFe2O4 nanocomposites and their structural, optical and electrical property studies", Materials Letters, 175,106-109, 2016.
8. **Siva Chidambaram**, S. Solomon Jones, P. Thanga Gomathi, G. Mohan Kumar., "Facile synthesis of ZnAgO nanoflakes and their improved photocatalytic activities

under sun light", Journal of Materials Science: Materials in Electronics, 27, 10754-10758, 2016.

9. Ilanchezhiyan, P., **Siva Chidambaram**., T.W. Kang, G. Mohan Kumar., "Colloidal synthesis of Gd3+ doped ZrO2 based dielectrics and their structural and electrochemical property studies", Journal of Materials Science: Materials in Electronics, 27(6), 5557-5562, 2016
10. P. Ilanchezhiyan, G. Mohan Kumar, Fu Xiao, S. Poongothai, A. Madhan Kumar, **Siva Chidambaram**, Sh U. Yuldashev, D. J. Lee, Y. H. Kwon, T. W. Kang., "Ultrasonic-assisted synthesis of ZnTe nanostructures and their structural, electrochemical and photoelectrical properties" Ultrasonics Sonochemistry, 39, 414-419, 2017
11. R. Krithikadevi, Arulmozhi M, B. Balraj, **Siva Chidambaram**., "Optical and Electrical Characteristics of n-ZnSmO/p-Si Heterojunction Diodes", Applied Surface Science, 418, 312-317, 2017
12. R. Krithikadevi, M. Arulmozhi, **Siva Chidambaram**, B. Balraj, G. Mohan Kumar., "Optical and electrical properties of n-ZnAgAuO/p-Si heterojunction diodes" Journal of Materials Science: Materials in Electronics, 28, 5440–5445, 2017
13. B. Balraj, M. Arulmozhi, **Siva Chidambaram**, R. Krithikadevi., "Synthesis, characterization and electrochemical analysis of hydrothermal synthesized AgO incorporated ZrO2 nanostructures" Journal of Materials Science: Materials in Electronics, 28, 5906–5912, 2017
14. R. Krithikadevi, **Siva Chidambaram**, B. Balraj, M. Arulmozhi, L. John Berchmans., "Investigations on Structural, Optical and Magnetic Properties of Solution Combustion Synthesized Nanocrystalline Iron Molybdate" Bulletin of materials science, 40, 87–92, 2017
15. **Siva Chidambaram**, G. Mohan Kumar, P. Ilanchezhiyan, R. Maheswaran, T.W.Kang., "Self-functionalization of L-Cysteine on Ag nanoparticle decorated SiO2 nanospheres", Materials Letters, 191, 165-168, 2017
16. B. Balraj, M. Arulmozhi, **Siva Chidambaram**, S. Abimanyu, R. Krithikadevi, RM Thaneswari., "Cytotoxic potentials of biologically fabricated platinum nanoparticles from Streptomyces sp. on MCF-7 breast cancer cells", IET Nanobiotechnology, 11, 241 – 246, 2017
17. B. Balraj, N. Senthilkumar, **Siva Chidambaram**, R. Krithikadevi, A. Julie, I. Vetha Potheher, M. Arulmozhi, "Synthesis and characterization of Zinc Oxide nanoparticles

using marine Streptomyces sp. with its investigations on anticancer and antibacterial activity." Research on Chemical Intermediates, 43, 2367–2376, 2017

18. S. Abimanyu, K. Palanivel, V. Devanand, P. Sathish kumar, P.M. Sivakumar, **Siva Chidambaram**, "Breast Cancer Targeted Treatment Strategies: Promising Nano-carriers Approaches", Anti-Cancer Agents in Medicinal Chemistry, Accepted, 2017
19. P. Ilanchezhiyan, G. Mohan Kumar, Fu Xiao, A. Madhankumar, **Siva Chidambaram**, Shavkat U. Yuldashev, H.D. Cho, T.W. Kang "Interfacial charge transfer in ZnTe/ZnO nano arrayed heterostructures and their improved photoelectronic properties", Solar Energy materials and Solar Cells, 183, 73–81, 2018
20. **Siva Chidambaram**, A. Vijay, G. Mohan Kumar, M. Alagiri, D .John Thiruvadigal, R. Maheswaran., "Three-dimensional (3D) flower-like nanoarchitectures of ZnO-Au on MWCNTs for visible light photocatalytic applications", Applied Surface Science, 449, 631-637, 2018
21. C. Vivek, **Siva Chidambaram**, G. Mohan Kumar "Optical and recyclable photocatalytic properties of silica supported ZnO/Au heterostructures under sun light." Journal of Materials Science: Materials in Electronics, 29, 667–673, 2018
22. P. Ilanchezhiyan, G. Mohan Kumar, **C. Siva**, A. Madhan Kumar, Shavkat U. Yuldashev, Y. H. Kwon and T. W. Kang, "Magnetic and optical property stud ies on cubic Gd3Fe5−xCoxO12 nanogarnets for spintronics", CrystEnggComm, 20, 2806-2811, 2018
23. Baskaran Palanivel, Chinnadurai Ayappan, Venkatesan Jayaraman, **Siva Chidambaram**, Rathinam Maheswaran, Alagiri Mani, "Inverse spinel NiFe2O4 deposited g-C3N4 nanosheet for enhanced visible light photocatalytic activity", Materials Science in Semiconductor Processing 100, 87-97,2019.
24. S Annathurai, **S Chidambaram**, B Baskaran, GKDP Venkatesan, "Green synthesis and electrical properties of p-CuO/n-ZnO heterojunction diodes", Journal of Inorganic and Organometallic Polymers and Materials 29 (2), 535-540, 2019.
25. GM Kumar, HD Cho, P Ilanchezhiyan, **C Siva**, V Ganesh, S Yuldashev, ..." Evidencing enhanced charge-transfer with superior photocatalytic degradation and photoelectrochemical water splitting in Mg modified few-layered SnS2", Journal of colloid and interface science 540, 476-485, 2019.

26. GM Kumar, P Ilanchezhiyan, **C Siva**, A Madhankumar, TW Kang, DY Kim," Electrocatalytic oxygen evolution and photoswitching functions of tungsten-titanium binary oxide nanostructures", Applied Surface Science 496, 143652, 2019
27. P Ilanchezhiyan, GM Kumar, F Xiao, **C Siva**, SU Yuldashev, DJ Lee, ..." Surface induced charge transfer in CuxIn2-xS3 nanostructures and their enhanced photoelectronic and photocatalytic performance" , Solar Energy Materials and Solar Cells 191, 100-107.
28. P Ilanchezhiyan, GM Kumar, **C Siva**, A Madhankumar, HC Jeon, TW Kang, ..." Evidencing enhanced oxygen and hydrogen evolution reactions using In–Zn–Co ternary transition metal oxide nanostructures: A novel bifunctional electrocatalyst", International Journal of Hydrogen Energy 44 (41), 23081-23090, 2019.
29. P Ilanchezhiyan, GM Kumar, **C Siva**, GD Venkatasubbu, TW Kang, ..." Photoswitching and photocatalytic functions of SnxCu1− xS nanostructures" , Applied Surface Science, 2019.
30. S Annathurai, **S Chidambaram**, M Rathinam, GKDP Venkatesan, "Ga doping improved electrical properties in p-Si/n-ZnO heterojunction diodes" , Journal of Materials Science: Materials in Electronics 30 (6), 5923-5928, 2019
31. SP Malliappan, P Kandasamy, **S Chidambaram**, D Venkatasubbu, ..." Breast Cancer Targeted Treatment Strategies: Promising Nanocarrier Approaches" , Anti-Cancer Agents in Medicinal Chemistry 19, 00-00, 2019.
32. GM Kumar, P Ilanchezhiyan, **C Siva**, A Madhankumar, TW Kang, DY Kim, "One-dimensional semiconducting HfxZn1− xO nanorods and their photoswitching characteristics", Applied Surface Science 488, 22-29, 2019.
33. GM Kumar, P Ilanchezhiyan, **C Siva**, A Madhankumar, TW Kang, DY Kim, "Co-Ni based hybrid transition metal oxide nanostructures for cost-effective bi-functional electrocatalytic oxygen and hydrogen evolution reactions" , International Journal of Hydrogen Energy 45 (1), 391-400, 2020.