JST SAKURA and SSSV Seminar Program

(2015/09/03)

Place: Doctor course 2nd floor, meeting room

9:20 Opening address – Prof. Y. Hayakawa, Shizuoka University

– Prof. S. Ponnusamy, SRM University

Session – I

9:30 – 12:45

Session Chairs – Mr. Rajan Karthikeyan and Ms. Murugesan Tarini

1. Gas sensing application of ZnO nanorods prepared by hydrothermal method
   Guru Nisha[1], A. Pavithra[1], R. Ajay Rakkesh[2], S. Balakumar[2] and Karthigeyan Annamalai[1], [1]Department of Physics and Nanotechnology, SRM University, [2]National Centre for Nanosciences And Nanotechnology, University of Madras.
2. Influence of Film Thickness on The Properties of Nanocrystalline CdTe thin film coated by electron beam evaporation method
   Manimozhi and K. Rammurthi, Department of Physics and Nanotechnology, SRM University
3. Metal versus metal free Electrocatalyst for Oxygen Reduction Reaction (ORR) – A first principle study
   Nandhini Subbukani[1], Sinthika[2] and Ranjith Thapa[2], [1]Department of Physics and Nanotechnology, SRM University, [2]SRM Research Institute, SRM University.
4. A Comparative Study of different Silicon Structure Nanowire Channeled Transistor with Halide Single Dopants
   Gaurang Prabhudesai[1] and Arjitsen[2], [1]Department of Physics and Nanotechnology, SRM University, [2]SRM Research Institute, SRM University.
5. Graphene Oxide- Metal Oxide NPs: a Hybrid electrocatalyst for application in electrochemical cells
   M.Vivekanantha and Karthigeyan Annamalai, Department of Physics and Nanotechnology, SRM University.
6. Preparation and Characterisation of Ni-Mo powder for Piston ring application using Plasma spray technique
   A. Vignesh and R Jagadish, Department of Physics and Nanotechnology, SRM University.
7. Hydrogen storage on Vanadium catalysised on defective Graphene - A first principle study
   E. Mathan Kumar[1], **P. Sabarikirishwaran**[2] and Ranjith Thapa[1], [1]SRM Research Institute, SRM University. [2]Department of Physics and Nanotechnology, SRM University.

Session Chairs – Mr. Velu Nirmal Kumar and Mr. Mani Sabarinathan

8. Adsorption of Carbon Monoxide (CO) and Carbon-Dioxide (CO_2)- A first principle study
   C. Prakash Reddy[1], S.Sinthika[2] and Ranjit thapa[2], [1]Department of Physics and Nanotechnology, SRM University, [2]SRM Research Institute, SRM University.

9. Influence of TiO_2 Nanoparticles and rGO-TiO_2 Nanocomposite on Thermal and Mechanical properties of Epoxy Resin

   Ashiwin agathiya B, Kathikeyan B, and Ashwin Velraj, Department of Physics and Nanotechnology, SRM University.

10. Thin film heaters based on Silver Nanowire

    Sidharth Suman[1], Paolo Lugli[2], Ing Bernhard Fabel[2] and Marco Bobinger[2], [1]Department of Physics and Nanotechnology, SRM University, [2]Technische Universität Mũnchen, Germany

11. Synthesis of Cu NP collagen peptide for conductive ink application

    Arun Ragavendar[1], Murali[2] and P.Thanikaivelan[2], [1]Department of Physics and Nanotechnology, SRM University, [2]Centre Leather Research Institute, Guindy, Chennai,

12. Structural and Morphological investigation of alpha-MoO_3 nanoflakes

    Laxmi Depika Bharatula and Korivi Sairam, Department of Physics and Nanotechnology, SRM University.

13. Investigation of absorbance in graphene and plasmonic graphene oxide

    Moon Paul[1], Ravi Kumar[2], Samurai Singh[2] and P K Giri[2], [1]Department of Physics and Nanotechnology, SRM University, [2]Centre for Nanotechnology, Indian Institute of Technology, Guwahati.

14. Highly dispersed palladium nanoparticles on mesoporous silica as a catalyst for carbon carbon coupling reactions

    Vinusha Reddy K[1] and Pavuluri Srinivasu[2], [1]Department of Physics and Nanotechnology, SRM University, [2]Indian Institute of Chemical Technology: CSIR, Hyderabad.

12:45 – 13:45 Lunch

Session - II

13:45-17:00

Session Chairs – Ms. Guru Nisha and Ms. Manimozhi

15. A Graphene based Photoelectrochemical Cell for Hydrogen Production

    V. Vignesh[1], Venkateswaran Raman[2], R. Vinoth[2] and B. Neppolian[2], [1]Department of Physics and Nanotechnology, SRM University, [2]SRM Research Institute, SRM University.

16. Growth properties of InGaSb under normal and microgravity condition at International Space Station

    Velu Nirmal Kumar[1], Govindasamy Rajesh[1], Mukannnan Arivanandhan[1], Tadanobu Koyama[1], Yoshimi Momose[1], Kaoruho Sakata[2], Takehiko Ishikawa[2], Tetsuo Ozawa[3], Yasunori Okano[4], Yuko Inatomi[2] and Yasuhiro Hayakawa[1], [1]Reseach Institute of Electronics, Shizuoka University, Hamamatsu, Japan, [2]Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency, Kanagawa,Japan, [3]Department of Electrical Engineering,Shizuoka Institute of Science and Technology,Fukuroi, Japan, [4]Graduate school of Engineering Science, Osaka University, Machiganeyama, Japan.

17. Preparation of TiO_2:Ag:Er nanocomposites and their enhanced photocatalytic activity under visible irradiation

    Natarajan Prakash[1], Rajan Karthikeyan[1], Dheivasigamani Thangaraju[2], Tadanobu Koyama[2] and Yasuhiro Hayakawa[1,2], [1]Graduate School of Science and Technology, Shizuoka University, [2]Research Institute of Electronics, Shizuoka University.

18. Synthesis of bismuth antimony telluride alloyed nanostructures for thermoelectric applications

    M. Sabarinathan[1], M. Navaneethan[2], J. Archana[1], M. Omprakash[1], T. Koyama[1], H. Ikeda[1,2] and Y. Hayakawa[1,2], [1]Graduate school of science and technology, Shizuoka University. [2]Research institute of Electronics, Shizuoka University.

19. Effect of metal oxides on photocatalytic performance under visible light irradiation

    S. Harish[1], J. Archana[2], M. Navaneethan[2], S. Ponnusamy[3], C. Muthamizhchelvan[3], Y. Hayakawa[2], [1]Graduate School of Science and Technology, Shizuoka University. [2]Research Institute of Electronics, Shizuoka University, [3]Department of Physics and Nanotechnology, SRM University.

20. Formation of 1-D nanostructured fluorine-doped tin oxide layer

    Ajith Bandara, Masaru Shimomura, Masayuku Okuya and Kenji Murakami, Graduate school of science and technology, Shizuoka University, Research institute of Electronics, Shizuoka University.

21. Effect of seed layer on formation of ZnO nano rods

    Albertus Bramantyo, Masayuku Okuya and Kenji Murakami, Research institute of Electronics, Shizuoka University, Graduate school of science and technology, Shizuoka University.

Session Chairs – Mr. Natarajan Prakash and Mr. Santhana Krishnan Harish

22. Fabrication of thin Ge-on-insulator nano-layer by wafer bonding method

    V. Manimuthu[1,2] and H. Ikeda[1,2], [1]Graduate School of Science and Technology, Shizuoka University, [2]Research Institute of Electronics, Shizuoka University.

23. Fabrication of wearable thermoelectric device with UV protection

    V. Pandiyarasan[1,2], F. Salleh[3], Y. Suzuki[1,2], J. Archana[2], M. Navaneethan[2], Y. Hayakawa[1,2] and H. Ikeda1[2], [1]Graduate School of Science and Technology, Shizuoka University, [2]Research Institute of Electronics, Shizuoka University, [3]Faculty of Engineering, University of Malaya.

24. Fabrication of Si nanowire thermopile for infrared photodetector

    Y. Suzuki[1,2], T. Aramaki[2], F. Salleh[3] and H. Ikeda1[2], [1]Graduate School of Science and Technology, Shizuoka University, [2]Research Institute of Electronics, Shizuoka University, [3]Faculty of Engineering, University of Malaya.

25. Single-step synthesis and catalytic activity of phase controlled nickel sulfide nanoparticles

    R. Karthikeyan[1], D. Thangaraju[2], N. Prakash[1], T. Koyama[2] and Y. Hayakawa[2] ,[1]Graduate School of Science and Technology, Shizuoka University, [2]Research Institute of Electronics, Shizuoka University.

26. Investigation of SnO_2 nanostructures for the development of dye-sensitized solar cells

    M. Tarini[1], S. Harish[1], J. Archana[2], M. Navaneethan[2], Y. Hayakawa[2], [1]Graduate School of Science and Technology, Shizuoka University, [2]Research Institute of Electronics, Shizuoka University.

27. Vertically aligned TiO_2 one-dimensional nanostructured arrays for DSSC applications.

    E. K. D. H. D. Siriwardena, Graduate School of Science and Technology, Shizuoka University.

28. Structural control of Si based nano-structures by catalyst design

    X. Meng and H.Tatsuoka, Graduate School of Science and Technology, Shizuoka University.