

## 2009

1. **S. G. Ansari**, Rizwan Wahab, Z. A. Ansari, Young-Soon Kim, Gilson Khang, yung-Shik Shin, *Effect of nanostructure on the urea sensing properties of sol-gel synthesized zinc oxide*, **Sensors and Actuators B**, In press (2009)
2. Rizwan Wahab, S. G. Ansari, Young-Soon Kim, T. R. Mohanty, I. H. Hwang, Hyung-Shik Shin, *Immobilization of DNA on nano-hydroxyapatite and their interaction with carbon nanotubes*, **Synthetic Metals**, **159** (2009) 238-245
3. Rizwan Wahab, **S. G. Ansari**, Hyung-Kee Seo, Young-Soon Kim, Hyung-Shik Shin, *The role of pH variation on the growth of zinc oxide nanostructures*, **Applied Surface Science**, **255** (2009), 4891-4896
4. Nasser A.M. Barakat, Kee-DoWoo, **S. G. Ansari**, Jung-Ahn Ko, Muzafar A. Kanjwal, Hak Yong Kim, *Preparation of nanofibers consisting of MnO/Mn<sub>3</sub>O<sub>4</sub> by using the electrospinning technique: the nanofibers have two band-gap energies*, **Applied Physics A**, Springer, (2009)
5. Rizwan Wahab, **S.G. Ansari**, Y. S. Kim, H. K. Seo, Hyung-Shik Shin, *Low temperature synthesis and characterization of rosette-like nanostructures of ZnO using solution process*, **Solid State Sciences**, **11** (2009)
6. S.G. Ansari, M.A. Dar, M.S. Dhage, Young Soon Kim, **Z. A. Ansari**, A. Al-Hajry, Hyung-Shik Shin, *A novel method for preparing stoichiometric SnO<sub>2</sub> thin films at low temperature*, **Review of Scientific Instruments**, (American Physical Society), In press.

## 2008

7. **S. G. Ansari**, Z. A. Ansari, Rizwan Wahab, Young-Soon Kim, Gilson Khang, Hyung-Shik Shin, *Glucose sensor based on nano-baskets of tin oxide templated in porous alumina by plasma enhanced CVD*, **Biosensors and Bioelectronics**. **23** (2008), 1838-1842
8. **S.G. Ansari**, Z.A. Ansari, Young-Soon Kim, Hyung-Shik Shin, *Urea sensor based on tin oxide thin films prepared by modified plasma enhanced CVD*, **Sensors and Actuators B-Chemical** **132**, (2008), 265-272
9. H.K. Seo, **S.G. Ansari**, G.S. Kim, Y.S. Kim, H.S. Shin, *A study on the structure/phase transformation and bonded states of titanate nanotubes synthesized at various hydrothermal temperatures*, **Solar Energy Materials and Solar Cells**, **92** (2008) 1533-1539
10. Rizwan Wahab, **S.G. Ansari**, Y. S. Kim, H. K. Seo, Hyung-Shik Shin, *Effect of hydroxylamine hydrochloride on the floral decoration of zinc oxide assisted by sol-gel process*, **Applied Surface science**, **254** (2008), 2037-2042

11. Rizwan Wahab, S.G. Ansari, Y. S. Kim, H. K. Seo, Hyung-Shik Shin, *Synthesis and characterization of hydrozincite and its conversion into spherical shaped zinc oxide nanoparticles*, **Journal of Alloys and compounds**, **461** (2008) 66-71.
12. S G Ansari, Mushtaq Dar, Z.A. Ansari, Hyung-Kee Seo, Young-Soon Kim, Hyung-Shik Shin, *Influence of the silicon surface treatment by plasma etching and scratching on the nucleation of diamond grown in HFCVD- a comparative study*, **Korean Journal of Chemical Engineering**, **25-3** (2008)

2007

13. Gil-Sung Kim, S. G. Ansari, Hyung-Kee Seo, Young-Soon Kim and Hyung-Shik Shin, *Growth and morphological study of ZnO nanoneedles grown on the annealed titanate nanotubes using hydrothermal method*, **Journal of Applied Physics**, **102**, (2007), 084302
14. Rizwan Wahab, S.G. Ansari, Y. S. Kim, H. K. Seo, Hyung-Shik Shin, *Room-temperature synthesis of needle-shaped ZnO nanorods via sonochemical method*, **Applied Surface Science**, **253** (2007), 7622-7626
15. Rizwan Wahab, S.G. Ansari, M.A. Dar, Y. S. Kim, Hyung-Shik Shin, *Synthesis of magnesium oxide nanoparticles by sol-gel process*, **Materials Science Forum**, **558-59** (2007), 983-986
16. Gil-Sung Kim, S G Ansari, Hyung-Kee Seo, Young-Soon Kim, H.S. Shin, *Hydrothermal growth of ZnO on annealed electrodeposited titanate film: influence of zinc nitrate and methenamine*, **Applied Surface Science**, **253** (2007), 7197-7202
17. S.G. Ansari, M.A. Dar, Y.S. Kim, H. I Kim, G.S. Kim, R. Wahab, H.K. Seo, G. Khang, H.S. Shin, *Effect of growth temperature on the morphology and bonded states of SnO<sub>2</sub> nanobaskets*, **Applied Surface Science**, **253** (2007), 4668-4672
18. Gil-Sung Kim, S G Ansari, Hyung-Kee Seo, Young-Soon Kim, H.S. Shin, *Effect of annealing temperature on structural and bonded states of titanate nanotube films*, **Journal of Applied Physics**, **101**, (2007), 024314
19. Rizwan Wahab, S.G. Ansari, Y. S. Kim, H. K. Seo, G. S. Kim, Gilson Khang, Hyung-Shik Shin, *Low temperature solution synthesis and characterization of ZnO nano-flowers*, **Materials Research Bulletin**, **42** (2007) 1640-1648
20. S.G. Ansari, M.A. Dar, M.S. Dhage, Rizwan Wahab, Z.A. Ansari, Young-Soon Kim, Hyung-Shik Shin, *Low temperature deposition and effect of plasma power on SnO<sub>2</sub> thin films prepared by modified plasma enhanced CVD*, **Journal of Applied Physics**, **102**, (2007), 073537

21. M. A. Dar, S.G. Ansari, R. Wahab, Young-Soon Kim, and Hyung-Shik Shin, *The Synthesis of Maghemite and Hematite ( $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>,  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>) Nanospheres*, **Materials Science Forum** 534-536 (2007), 157-160

2006

22. Young-Soon Kim, Joong-Hee Cho, S.G. Ansari, Hyung-Il Kim, M.A. Dar, Hyung-Kee Seo, Gil-Sung Kim, Dai-Soo Lee, and Hyung-Shik Shin, *Immobilization of avidin on the functionalized carbon nanotubes*, **Synthetic Metals**, 156,(2006) 938-943

23. S. G. Ansari, H. Umemoto, T. Morimoto, K. Yoneyama, A. Izumi, A. Masuda, H. Matsumura, *H<sub>2</sub> Dilution Effect in the Cat-CVD Processes of the SiH<sub>4</sub>/NH<sub>3</sub> System*, **Thin Solid Films**, 501, (2006) 31-34.

24. Hironobu Umemoto, S. G. Ansari, and Hideki Matsumura, *Rotational and vibrational state distributions of H<sub>2</sub> activated on a heated tungsten filament*, **J. Appl. Phys.** 99, 043510 (2006)

25. Takashi Morimoto, S. G. Ansari, Koji Yoneyama, Teppei Nakajima, Atsushi Masuda, Hideki Matsumura, Megumi Nakamura, Hironobu Umemoto, *Mass-Spectrometric Studies of Catalytic Chemical Vapor Deposition Processes of Organic Silicon Compounds Containing Nitrogen*, **Jpn. J. Appl Phys, Part 1: 45, 2A** (2006) 961-966

26. M. A. Dar, S. G. Ansari, H. K. Seo, G. S. Kim, Y.-S Kim, S. K. Kulkarni, H.-S. Shin, *Effect of MgO interlayer on diamond film growth on Silicon (100)*, **Thin Solid Films**, 497,1-2, (2006), 103-108

27. Young-Soon Kim, Hyung-Il Kim, M. A. Dar, Hyung-Kee Seo, Gil-Sung Kim, S. G. Ansari, Jay J. Senkevich, and Hyung-Shik Shin, *Electrochemically Deposited Ruthenium Seed Layer Followed by Copper Electrochemical plating*, **Electrochemical and Solid-state Letters**, 9(1) (2006) C19-C23

28. Young-Soon Kim, Hyung-Il Kim, Joong-Hee Cho, Gil-Sung Kim, S. G. Ansari, Gilson Khang, Jay J. Senkevich, and Hyung-Shik Shin, *Electrochemical deposition of copper and ruthenium on titanium*, **Electrochimica Acta**, 51(25), 2006, 5445-5451

29. M. A. Dar, S.G. Ansari, Z.A. Ansari, Young-Soon Kim, Hyung-Kee Seo, Gil-Sung Kim, Hyung-Shik Shin, *Magnesium interlayered diamond coating on silicon*, **International Journal of Refractory Metals and Hard Materials**, 24(2006) 418-426

## 2005

30. S. G. Ansari, Hironobu Umemoto, Takashi Morimoto, Koji Yoneyama, Atsushi Masuda, Manabu Ikemoto, Keiji Ishibashi, and Hideki Matsumura, *Novel technique for the production, preservation, and transportation of H atoms in metal chambers for processings*, **Jr. Vac. Sc & Tech. A. 23, 1728 (2005)**
31. M. A. Dar, S. G. Ansari, H. K. Seo, G. S. Kim, Y.-S Kim, S. K. Kulkarni, H.-S. Shin, *Low Melting Temperature Thin Coating of Zinc on Si (100) for Diamond Film Growth*, **Carbon, Letter to editor, 43 (2005), 855-894**
32. Mushtaq Ahmad Dar, S.K. Kulkarni, Z.A. Ansari, S.G. Ansari, Hyung-Shik Shin, *Preparation and characterization of  $\alpha$ -FeOOH and  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> by Sol-Gel method*, **Jr. of Materials Science, Letters, 40 (2005) 3031-3034**

## 2004

33. Seo H.K., S.G. Ansari, Kim G. S., Shin H.S, *Effect of tungsten/filament on the growth of carbon nanotube in hot filament chemical vapor deposition*, **Journal of Material Science, 39(2004), 5771**
34. S.G. Ansari, H.K. Seo, G.S. Kim, H.S. Shin, *Nucleation of Diamond over Nanotube Coated Si Substrate Using Hot Filament Chemical Vapor Deposition (CVD) System*, **Korean Journal of Chemical Engineering, 21(1), 2004, 262-266**
35. S.G. Ansari, Tran Lan Anh, Hyung-Kee Seo, Kim-Gil Sung, Dar Mushtaq, Hyung-Shik Shin, *Growth kinetics of the diamond films with BEN and H<sub>2</sub>/CH<sub>4</sub>/Ar mixture in HFCVD system*, **Journal of Crystal Growth, 265(2004), 563-570**

## 2003

36. Chu Van Chiem, Hyung-Kee Seo, Shafeeque G. Ansari, Gil-Sung Kim, Jay Myung Seo, Hyung-Shik Shin, *Lonsdaleite diamond growth on reconstructed Si(100) by hot-filament Chemical Vapour deposition (HFCVD)*, **Korean Journal of Chemical Engineering, 20 (2003) 1154-1157**
37. Y.S. Kim, S.C. Park, H. K. Seo, S.G. Ansari, H. S. Shin, *Effect of substrate temperature on the bonded states of indium tin oxide thin films deposited by plasma enhanced chemical vapor deposition*, **Thin solid films, 426(1-2), 2003, 124-131**
38. Bo-Ryoun Kim, S. G. Ansari, Young-Soon Kim, Sang-Chul Hwang, Hee-Gyoun Lee, Hyung-Shik Shin, *Effect of deposition temperature on the growth of Y<sub>1</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> thin films*

by AACVD using Liquid Solution Sources, **Korean Journal of Chemical Engineering**, **20**, **2003**

39. Young-Soon Kim, Young-Chul Park, **S.G. Ansari**, Hyung-Shik Shin, *Influence of O<sub>2</sub> admixture and sputtering pressure on the properties of ITO thin films deposited on PET substrate using R.F. reactive Magnetron sputtering*, **Surface and Coatings Technology**, **173(2-3)**, **2003**, **299-308**

## 2002

40. Park S.C., Kim Y.S., Seo H.K., **Ansari S.G.**, Shin S.H., *ITO thin films deposited at different oxygen flow rates on Si(100) using PEMOCVD method*, **Surface and Coatings Technology**, **161 (1)**, **2002**, **62-69**

41. Z.A. Ansari, **S.G. Ansari**, T. KO, J.H. Oh, *Effect of MoO<sub>3</sub> doping and grain size on SnO<sub>2</sub>-enhancement of sensitivity and selectivity for CO and H<sub>2</sub> gas sensing*, **Sensors and Actuators B**, **87(1)**, **2002**, **105-114**

## Before 2002

42. **S.G. Ansari**, P. Boorojerdian, S.R. Sainkar, R.C. Aiyer, S.K. Kulkarni, *Grain size effects on H<sub>2</sub> gas sensitivity of thick film resistor using SnO<sub>2</sub> nanoparticles*, **Thin Solid Films**, **295(1997)**, **271-276**

43. **S.G. Ansari**, S.W. Gosavi, S.A. Gangal, R.N. Karekar, R.C. Aiyer *Characterization of SnO<sub>2</sub> based H<sub>2</sub> gas sensors fabricated by different deposition techniques*, **Jr. of Mat. Sc. (Mat. in Electronics)**, **8(1)**, **1997**, **23-27**

44. **S.G. Ansari**, P. Boroojerdian, S.K. Kulkarni, S.R. Sainkar, R.N. Karekar, R.C. Aiyer, *Effect of thickness on H<sub>2</sub> gas sensitivity of thick film gas sensor using SnO<sub>2</sub> nanoparticles*, **Jr. of Mat. Sc. (Mat. in Elec.)**, **7(1996)**, **267-270**

45. **S.G. Ansari**, Z.A. Ansari, M.R. Kadam, R.N. Karekar, R.C. Aiyer, *The effect of humidity on SnO<sub>2</sub> thick film planar resistor*, **Sensors & Actuators B**, **21(3)**, **1994**, **159**

46. C. Dhanavantari, Z.A. Ansari, **S.G. Ansari**, R.C. Aiyer, R.N. Karekar, *A simple fabrication of TE polarizer by using metal cladding layer on optical waveguide*, **Physics Education**, **10**, **(3)**, **1993**, **284-288**.