

Curriculum Vitae

PANKAJ M. KOINKAR

Associate Professor,

Optical Nanomaterials Laboratory,
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PERSONAL INFORMATION

Date of Birth : 20th May 1975
Sex : Male
Nationality : Indian
Martial Status : Married
Languages Known : English, Marathi, Hindi, Japanese (primary level)
Present address : Minami Tamiya 1 Chome 4-37, Tokushima 770 0004
Tokushima, Japan
Permanent Address : Gauri Nandan, Brij Nagar , Old Saikheda Road,
Jail Road, Nashikroad, Nashik – 422 0011(M.S.), INDIA

EDUCATIONAL BACKGROUND

1999- 2005 **Ph.D. (Physics)** at North Maharashtra University, Jalgaon, INDIA
 Thesis title - Field emission studies of CVD diamond thin films
Supervisor - Dr. M. A. More, University of Pune, Pune, INDIA

1995-1997 **Master of Science** at North Maharashtra University, Jalgaon, INDIA,
 Thesis - Field emission studies of Tungsten tip
 Specialization - Physics with Material Science

1992-1995 **Bachelor of Science at North** Maharashtra University, Jalgaon, INDIA
 Specialization - Physics

RESEARCH INTEREST

Experimental Physics Nanomaterials like Carbon nanotubes, 1D and 2D
semiconductors nanostructure, Conducting Polymer coatings,
Field electron emission, Laser ablation.

EXPERIENCE

- April 2016- Till date** **Associate Professor** at Department of Optical Science, Tokushima University
JAPAN
research - Synthesis of 2D nanostructures and it's surface modification studies for optical and electrical applications.
teaching - Technical English, Nano- micro Photonics, Nanotechnology
- April 2010 – March 2016** **Assistant Professor** at Center for International Cooperation in Engineering Education, The University of Tokushima, JAPAN.
research - Synthesis of Carbon nanotubes, CVD diamond films, oxide nanomaterials and it's surface modification studies for electrical applications.
teaching - Technical English, Communication in Technical English
- March 2007 – March 2010** **Researcher** at Center for International Cooperation in Engineering Education, The University of Tokushima, JAPAN
research - Synthesis of CVD diamond films and it's surface modification and it's surface modification studies for electrical and biomedical applications.
teaching - Basic English, Scientific English, and Research Methodology and Improvement of Teaching in English
- Oct.2005 – Sept.2006** **Postdoctoral fellow** at Korea University, Seoul, SOUTH KOREA
research - Synthesis of Carbon nanotube and it's field emission properties

MAIN SKILLS

- Materials** - Carbon Nanotubes, Graphene, 1D and 2D Nanostructures, Conjugated Polymers
- Techniques/ Process** - Laser Ablation, Microwave Plasma and Hot Filament Chemical Vapor Deposition technique, Electrochemistry (Cyclic Voltammetry, Galvanostatic, Potentiostatic), Vacuum Evaporation, Spray Pyrolysis, Spin Coating
- Spectroscopy** - Vibrational (Infrared, UV-visible,Raman)
(Optical) - X-ray photoelectron microscopy (XPS)
- Microscopy** - Atomic force microscopy
(Surface) - Scanning electron microscopy
 - Field Emission Microscopy (FEM)
- Diffraction** - X-ray diffraction on powder
(Structural)
- Surface Treatments** - Plasma, Oxide overlayer, Acid etching, Ion irradiation, .

Research Publications in Refereed Journals (SCI journals)

1. Manjusha Dandekar, Sangeeta Itankar, Subhash Kondawar, Deoram Nandanwar and **Pankaj M. Koinkar** : Photoluminescent electrospun europium complex Eu(TTA)₃phen embedded polymer blends nanofibers, *Optical Materials*, Vol.85, 483-490, 2018.
2. Monali Bhute, Subhash Kondawar and **Pankaj M. Koinkar** : Fabrication of hybrid gel nanobrous polymer electrolyte for lithium ion battery, *International Journal of Modern Physics B*, Vol.32, No.19, 1840066-1-1840066-5, 2018.
3. Zixuan Chen, Tianyu Yu, Kyung-Seok Jung, Chang-wook Park, Soo-Jeong Park, **Pankaj M. Koinkar** and Yun-Hae Kim : Effect of curing cycles using wet prepreg processing on mechanical properties, *International Journal of Modern Physics B*, Vol.32, No.19, 1840076-1-1840076-5, 2018.
4. **Pankaj M. Koinkar**, Makoto Kanazawa, Yu Ohsumi, Akihiro Furube and Mahendra More : Formation of WS₂ nanosheets and its field emission studies, *International Journal of Modern Physics B*, Vol.32, No.19, 1840078-1-1840078-5, 2018.
5. Atsushi Yamaguchi, Makoto Kanazawa, **Pankaj M. Koinkar**, Akihiro Furube, S.B. Kondawar, Kei-ichiro Murai and Toshihiro Moriga : Production of boron nitride nanostructures using nanosecond laser ablation in acetone, *International Journal of Modern Physics B*, Vol.32, No.19, 1840073-1-1840073-4, 2018.
6. Makoto Kanazawa, **Pankaj M. Koinkar**, Akihiro Furube, Dnyaneshwar Gavhane and Mahendra More : Enhancement in eld emission of MoS₂ nanosheets prepared in water using laser ablation method, *International Journal of Modern Physics B*, Vol.32, No.19, 1840064-1-1840064-5, 2018.
7. **Pankaj M. Koinkar**, Yu Ohsumi, Makoto Kanazawa, Akihiro Furube, Dnyaneshwar Gavhane and Mahendra More : Field emission properties of laser ablated multi-walled carbon nanotubes, *International Journal of Modern Physics B*, Vol.32, No.19, 1840045-1-1840045-5, 2018.
8. Pankaj Kolhe, Alphana Shinde, S.G. Kulkarni, Namita Maiti, **Pankaj M. Koinkar** and Kishor Sonawane : Gas sensing performance of Al doped ZnO thin film for H₂S detection, *Journal of Alloys and Compounds*, Vol.748, 6-11, 2018.
9. Megha A. Deshmukh, Harshada Patil, Gajanan Bodkhe, Mikito Yasuzawa, **Pankaj M. Koinkar**, Almira Ramnaviciene, Mahendra Shirsat and Arunas Ramnaviciene : EDTA-modified PANI/SWNTs nanocomposite for differential pulse voltammetry based determination of Cu(II) ions, *Sensors and Actuators B: Chemical*, Vol.260, 331-338, 2018.
10. Yogita Mahant, Subhash Kondawar, Deoram Nandanwar and **Pankaj M. Koinkar** : Poly(methyl methacrylate) reinforced poly(vinylidene fluoride) composites electrospun nanofbrous polymer electrolytes as potential separator for lithium ion batteries, *Materials for Renewable and Sustainable Energy*, Vol.7, No.2, 1-9, 2018.
11. Sikha Jindal, Sushma Girijapure, Subhash Kondawar and **Pankaj M. Koinkar** : Green Synthesis of CuInS₂/ZnS core-shell qunatum dos by facile solvothermal route with enhanced optical properties, *The Journal of Physics and Chemistry of Solids*, Vol.114, 163-172, 2018.
12. Megha Deshmukh, Harshada Patil, Gajanan Bodkhe, Mikito Yasuzawa, **Pankaj M. Koinkar**, Arunas Ramanavicius, Sadhna Pandey and Mahendra Shirsat : EDA modified PANI/SWNTs nanocomposite for determination of Ni(II) metal ions, *Colloids and Surfaces A:Physicochemical and Engineering Aspects*, Vol.537, 303-309, 2018.
13. Pankaj Kolhe, Namita Maiti, Kishor Sonawane and **Pankaj M. Koinkar** : Synthesis of Ag doped SnO₂ thin films for the evaluation of H₂S gas sensing properties, *Physica B : Condensed Matter*, Vol.524, 90-94, 2017

14. R. Sanjeevani Bansode, Ruchita T. Khare, Krishna K. Jagtap, Mahendra A. More and **Pankaj M. Koinkar** : One step hydrothermal synthesis of SnO₂-RGO nanocomposite and its field emission studies, *Materials Science in Semiconductor Processing*, Vol.63, pp.90--97, 2017.
15. Harshada K. Patil, Megha A. Deshmukh, Sumedh D. Gaikwad, Gajanan A. Bodkhe, K. Asokan, Mikito Yasuzawa, **Pankaj M. Koinkar** and Mahendara D. Shirsat : Influence of Oxygen Ions Irradiation on Polyaniline/ Single Walled Carbon Nanotubes Nanocomposite, *Radiation Physics and Chemistry*, Vol.130, pp.47--51, 2017.
16. Li Jiang, **P. M. Koinkar**, Yusuke Fuchiwaki, Mikito Yasuzawa, A fine pointed glucose oxidase immobilized electrode for low-invasive amperometric glucose monitoring, *Biosensors and Bioelectronics*, Vol. 86, pp.90-94, 2016.
17. S. D. Gunjal, Y. B. Kholam, S. A. Arote, M. T. Sarode, **P. M. Koinkar**, P. N. Shelke, and K. C. Mohite, Characterization of Spray Pyrolysis Deposited Hexagonal CdS Films, *Advanced Science Letters*, Vol.22, pp.945-949, 2016.
18. P. N. Shelke, Y. B. Kholam, S. D. Gunjal, M. T. Sarode, **P. M. Koinkar**, and K. C. Mohite, Optical Properties of DC Electrochemically Deposited Co₃O₄ Thin Films, *Advanced Science Letters*, Vol.22, pp.1080-1084, 2016.
19. M. T. Sarode, Y. B. Kholam, S. D. Gunjal, P. N. Shelke, B. B. Kale, **P. M. Koinkar**, and K. C. Mohite : Structural and Optical Studies of Sol-Gel Dip Coated Nano-Crystalline TiO₂ Films, *Advanced Science Letters*, Vol.22, pp.1089-1092, 2016.
20. **Pankaj M. Koinkar**, Sandip S. Patil, Toshihiro Moriga and Mahendra A. More, Electrochemical Synthesis of Conducting Polypyrrole Film on Tin Substrate: Structural, Chemical and Field Emission Investigations, *Journal of Nano Research*, Vol.36, pp.44-50, 2016.
21. R. N. Shaikh, M. D. Shirsat, **Pankaj M. Koinkar** and S.S. Hussaini, Effect of l-cysteine on optical, thermal and mechanical properties of ADP crystal for NLO application, *Optics and Laser Technology*, Vol.69, pp.8--12, 2015.
22. Sandip S. Patil, Kashmira V. Harpale, Akansha D. Shinde, Ruchita T. Khare, **Pankaj M. Koinkar** and Mahendra A. More, Facile synthesis of cadmium sulphide-polyaniline (CdS-PANI) nanocomposite and its field emission investigations, *Journal of Polymer Research*, Vol.22, No.113, 2015.
23. Pritee M. Raotole, **Pankaj M. Koinkar**, Bhavana Joshi and S. R. Patil : Corrosion protective poly(aniline-co-o-anisidine) coatings on mild steel, *Journal of Coatings Technology and Research*, 2015.
24. Ashok Datir, **Pankaj M. Koinkar** and Sanjay Chakane, Effects of Heat Annealing on the Gas Sensing Properties of Spin Coated Unsubstituted Copper Phthalocyanine Films, *Advanced Materials Research*, Vol.1110, pp.241--245, 2015.
25. Mikito Yasuzawa, Toba Taketo, Hiura Kentaro, Li Jiang, **Pankaj M. Koinkar**, Tomoyuki Ueki and Fuchiwaki Yusuke, Preparation of micro-biosensor for continuous glucose monitoring, *Modern Physics Letters B*, Vol.29, No.6-7, p.1540040, 2015.
26. S. U. Ekar, Y. B. Kholam, **Pankaj M. Koinkar**, A. S. Mirji, R.S. Mane, M. Naushad and S. S. Jadhav, Biosynthesis of silver nanoparticles by using Ganoderma-mushroom extract, *Modern Physics Letters. B*, Vol.29, No.6-7, p.1540047, 2015.
27. Sumedh Gaikwad, Gajanan Bodkhe, Megha Deshmukh, Harshada Patil, Arti Rushi, Mahendra D. Shirsat, **Pankaj M. Koinkar**, Yun-Hae Kim and Ashok Mulchandani, Chemiresistive sensor based on polythiophene-modified single-walled carbon nanotubes for detection of NO₂, *Modern Physics Letters. B*, Vol.29, No.6-7, p.1540046, 2015.
28. **Pankaj M. Koinkar**, Sumedh Gaikwad, Gajanan Bodkhe, Megha Deshmukh, Harshada Patil, Arti Rushi, Mahendra D. Shirsat, Yun-Hae Kim and Ashok Mulchandani, Glucose

- sensor based on conducting polyaniline nanowire electrode junction, *Modern Physics Letters B*, Vol.29, No.6-7, p.1540045, 2015.
29. P.N. Shelke, Y.B. Kholam, S.D. Gunjal, **Pankaj M. Koinkar**, S.R. Jadkar and K.C. Mohite : LPG and NH₃ sensing characteristics of DC electrochemically deposited Co₃O₄ films, *Modern Physics Letters B*, Vol.29, No.6-7, p.1540043, 2015.
 30. Sumedh Gaikwad, Gajanan Bodkhe, Megha Deshmukh, Harshadal Patil, Arti Rushi, D. Shirsat Mahendra, **Pankaj M. Koinkar**, Yun-Hae Kim and Ashok Mulchandani, Conducting polyaniline nanowire electrode junction, *Modern Physics Letters B*, Vol.29, No.6-7, p.1540036, 2015.
 31. Kashmira Harpale, Mahendra A. More, **Pankaj M. Koinkar**, Sandip S. Patil and Kishor M. Sonawane, Polypyrrole nanostructures and their field emission investigations, *Modern Physics Letters B*, Vol.29, No.6-7, p.1540035, 2015.
 32. Sanjay Chakane, Ashok Datir and **Pankaj M. Koinkar**, Spin coated unsubstituted copper phthalocyanine thin films for nitrogen dioxide sensors, *Modern Physics Letters B*, Vol.29, No.6-7, p.1540032, 2015.
 33. **Pankaj M. Koinkar**, Daisuke Yonekura, Ri-ichi Murakami, Toshihiro Moriga and Mahendra A. More, Field electron emission characteristics of plasma treated carbon nanotubes, *Modern Physics Letters B*, Vol.29, No.6-7, p.1540030, 2015.
 34. K. Datta, P. Ghosh, Ashok Mulchandani, Sung-Hwan Han, **Pankaj M. Koinkar** and Mahendra D. Shirsat, Organic field-effect transistors: predictive control on performance parameters, *Journal of Physics D: Applied Physics*, Vol.46, No.49, pp.495110--495116, 2013.
 35. **Pankaj M. Koinkar**, Kashid V. Ranjit, Patil S. Sandip, Joag S. Dilip, Ri-ichi Murakami and More A. Mahendra, Noise Measurement and Analysis of Field Emission Current from Boron Doped Diamond, *IEEE Transactions on Nanotechnology*, Vol.12, No.6, pp.911--914, 2013.
 36. Sandip S. Patil, Shankar P. Koiry, Dinesh K. Aswal, **Pankaj M. Koinkar** and Mahendra A. More, Template Free Electrochemical Synthesis of Highly Crystalline Polyaniline Nanopetals, Nanocrystals and Their Field Electron Emission Investigations, *Journal of the Electrochemical Society*, Vol.160, No.11, pp.D543--D552, 2013.
 37. Prasanta Ghosh, Kunal Datta, Ashok Mulchandani, Sung-Hwan Han, **Pankaj M. Koinkar** and Mahendra D. Shirsat, Poly(o-toluidine) Nanowires Based Organic Field Effect Transistors: A Study on Influence of Anionic Size of Dopants and SWNTs as a Dopant, *The Journal of Physical Chemistry C*, Vol.117, No.29, pp.15414--15420, 2013.
 38. Sambhaji S. Warule, Nilima S. Chaudhari, Bharat B. Kale, Kashinath R. Patil, **Pankaj M. Koinkar**, Mahendra A. More and Ri-ichi Murakami, Organization of cubic CeO₂ nanoparticles on the edges of self assembled tapered ZnO nanorods via a template free one-pot synthesis: significant cathodoluminescence and field emission properties, *Journal of Materials Chemistry*, 22(18), 8887--8895, 2012.
 39. **Pankaj M. Koinkar**, Sandip S. Patil, Tae-Gyu Kim, Daisuke Yonekura, Mahendra A. More, Dilip S. Joag, Ri-ichi Murakami, Enhanced Field Emission Characteristics of Boron Doped Diamond Films Grown by Microwave Plasma assisted Chemical Vapor Deposition, *Applied Surface Science*, 257(6), 1854-1858, 2011.
 40. Sandip S. Patil, Shankar P. Koiry, Dinesh K. Aswal, **Pankaj M. Koinkar**, Ri-ichi Murakami, Mahendra A. More, Promising Field Emission Characteristics of Polyaniline Nanotubes, *Journal of the Electrochemical Society*, 158(6), E63-E66, 2011.
 41. Sandip S. Patil, **Pankaj M. Koinkar**, Sanjay D. Dhole, Mahendra A. More, Ri-ichi Murakami Influence of High-Energy Electron Irradiation on Field Emission Properties of Multi-Walled Carbon Nanotubes (MWCNTs) Films, *Physica B*, 406(9), 1809-1813, 2011.

42. Shelke P. N., Khollam Y. B., Gunjal S. D., Sarode M. T., More P. S., Jadkar, S. R., Takwale M. G., Mohite K. C., ***Koinkar Pankaj***. Optical Properties of Electrochemically Deposited 1-D Interlinked Nanowired Co_3O_4 Thin Films, ***International Journal of Modern Physics B***, 25(31), 4281-4284, 2011.
43. More, P. S., Khollam, Y. B., ***Koinkar Pankaj***, Sali, N. D., Shelke, P. N., Borwar, S. S., Polyethylene Oxide-Cu Composite Thick Films for LPG Sensing, ***International Journal of Modern Physics B***, 25(31), 4199-4203, 2011.
44. Datir A. M., Ghole V. S., ***Koinkar Pankaj***, Chakane S. D., Nitrogen Dioxide Gas Sensor based on Cobalt and Nickel Phthalocyanine Working at Room Temperature, ***International Journal of Modern Physics B***, 25(31), 4190-4193, 2011.
45. Sarode M. T., Shelke P. N., Khollam Y. B., Jadkar S. R., Kale B. B., Mohite K. C., ***Koinkar Pankaj***. Effect of Annealing Temperature on Optical Properties of Titanium Dioxide Thin Films Prepared by Sol-Gel Method, ***International Journal of Modern Physics B***, 25(31), 4163-4166, 2011.
46. Gunjal S. D., Khollam Y. B., Shelke P. N., Udawant R. R., Takwale M. G., Mohite K. C., ***Koinkar Pankaj***. Preparation of CdTe Films by Spray Pyrolysis Technique and their Characterizations, ***International Journal of Modern Physics B***, 25(31), 4155-4158, 2011.
47. Sonali Marathe, ***Pankaj Koinkar***, Shriwas Ashtaputre, Vasant Sathe, M. A More, S. K. Kulkarni, Enhanced Field Emission from ZnO Nanoneedles on Chemical Vapor Deposited Diamond Films, ***Thin Solid Films***, 518(14), 3743-3747, 2010.
48. Amit Kumar, F. Singh, ***P. M. Koinkar***, J.C. Pivin, D.K. Avasthi, M.A. More, Effect of Intense, Laser and Energetic Ion Irradiation on Raman Modes of Mutliwalled Carbon Nanotubes, ***Thin Solid Films***, 517(15), 4322-4324, 2009.
49. Amit Kumar, J.C. Pivin, D. K. Avasthi, ***P. M. Koinkar***. Ordering of Fullerene and Carbon Nanotube Thin Films under Energetic Ion Impact, ***Applied Physics Letters***, 92, 221904, 2008.
50. S. M. Jejurikar, ***P. M. Koinkar***, M. A. More, D. S. Joag, K. P. Adhi, L. M. Kukreja, Field Emission Studies of Nanostructured C-axis Oriented GaN Film on $\text{SiO}_2/\text{Si}(100)$ by Pulsed Laser Deposition, ***Solid State Communications***, 144(7-8), 296-299, 2007.
51. K. Kumar, K. Ramamoorthy, ***P. M. Koinkar***, R. Chandramohan, K. Sankaranarayanan, A Novel Way of Modifying Nano Grain Size by Solution Concentration in The Growth of ZnAl_2O_4 Thin Films, ***Journal of Nanoparticle Research***, 9(2), 331-335, 2007.
52. K. P. Adhi, S. Harchirkar, S. M. Jejurikar, ***P. M. Koinkar***, M. A. More, D.S. Joag, L. M. Kukreja, Pulsed Laser Deposited Nanostructured InN Thin Films as Field Emitters, ***Solid State Communications***, 142(1-2), 110-113, 2007.
53. K. Ramamoorthy, K. Kumar, ***Pankaj Koinkar***, K. Ganesan, Amit P Shah, K. Sankaranarayanan, P. Ramasamy, A Novel In Situ Method for Simultaneous Growth of Smart Material Single Crystals and Thin Films, ***Smart Materials and Structures*** 16(1), 83-88, 2007.
54. A. Deshpande, ***P. M. Koinkar***, S. S. Astaputre, M.A. More, S. W. Gosavi, D. S. Joag and S. K. Kulkarni, Field Emission from Oriented Tin Oxide Rods, ***Thin Solid Films*** 515(4), 1450-1454, 2006.
55. S. K. Marathe, ***P. M. Koinkar***, S. S. Astaputre, M.A. More, S. W. Gosavi, D. S. Joag and S. K. Kulkarni, Efficient Field Emission from Chemically Grown ZnO Nanoparticles of Different Morphologies, ***Nanotechnology*** 17(8), 1932-1936, 2006.
56. ***P. M. Koinkar***, R. S. Khairnar, S. A. Khan, R. P. Gupta, D. K. Avasthi, D.S. Joag, M. A. More, Influence of High Energy Ion Irradiation on the Field Emission Characteristics of CVD Diamond Thin Film, ***Nuclear Instruments and Methods B*** 244(1), 217-220, 2006.

57. K. Kumar, K. Ramamoorthy, **P.M. Koinkar**, R. Chandramohan, S. Sankaranarayanan, A Novel In Situ Synthesis and Growth of ZnAl₂O₄ Thin Films, *Journal of Crystal Growth* 289(1), 405-407, 2006.
58. **P. M. Koinkar**, J. R. Mahajan, P. P. Patil, M. A. More, Field Emission Characteristics of Chemical Vapor Deposited Diamond Thin Films with SnO₂ as Overlayer on Silicon, *Thin Solid Films* 474 (1-2), 275-278, 2005.
59. **P. M. Koinkar**, P. P. Patil, M. A. More, V. N. Tondare, D. S. Joag, Field Emission Studies of CVD Diamond Thin Films: Effect of Acid Treatment, *Vacuum* 72(3), 321-326, 2003.
60. **P.M. Koinkar**, M.G. Wankhede, M.A. More, S.A. Gangal, and P.P. Patil, Influence of Synthesis Temperature on Electrochemical Polymerization of O-anisidine on Low Carbon Steel, *Synthetic Metals* 130(2), 193-201, 2002.
61. M.G. Wankhede, **P.M. Koinkar**, M.A. More, and P.P. Patil, Poly(O-anisidine) Coatings on Low Carbon Steel, *Materials Science and Engineering A* 332 (1-2), 161-166, 2002.
62. M.G. Wankhede, **P.M. Koinkar**, M.A. More, S.A. Gangal, and P.P. Patil, Synthesis of Poly(O-anisidine) Coatings on Low Carbon Steel by Electrochemical Polymerization of O-anisidine, *Advances in Polymer Technology* 21(1), 33-43, 2002.

Research Publications in Refereed Journals (non SCI journals)

1. P.N. Shelke, Y.B. Kholam, P.N. Pabrekar, P.S. More, A.M. Datir, S.D. Chakane, K.C. Mohite and **Pankaj M. Koinkar** : Synthesis And Characterization Of Co₃O₄ Powders For Humidity Sensing, International Journal of Modern Physics: Conference Series, Vol.6, pp.197--202, 2012.
2. V.M. Raut, P.S. More, Y.B. Kholam, R.S. Sonone, S.B. Kondawar and **Pankaj M. Koinkar** : Synthesis and Characterization of Luminol Persulphate Chemiluminescence in Aqueous Amines, International Journal of Modern Physics: Conference Series, Vol.6, pp.162--165, 2012.

Publication on Engineering Education

1. Aboard the "Hanbada": An international Experience in higher education, communication and culture
Walter carpenter and **Pankaj Koinkar**
Journal of University Education and Research, 8, 62-68, March 2011
2. A New Approach on Engineering Education in Global Graduate School Program
Pankaj Koinkar and Ri-ichi Murakami
Journal of University Education and Research, 7, 85-93, March 2010

Invited talk and others

- i. Invited/contributory talks at international symposium/conference/seminar held at USA, Korea, Japan, China, Taiwan and India
- **More than 30**
- ii. Reviewer of international SCI journals
- **More than 45**