

## Dr. Pijus Kanti Samanta

### Assistant Professor (III) & Head

Department of Physics (UG & PG)  
Prabhat Kumar College,  
Contai Purba Medinipur-  
721404, WestBengal, India

E-mail:  
pijush.samanta@gmail.com  
/ pks.pkcphy@gmail.com  
Mobile:



- ♣ **Web (official):** <https://pkcollegecontai.ac.in/physics/faculty-profile.aspx?trnid=235>
- ♣ **Google Scholar:** <https://scholar.google.co.in/citations?hl=en&user=IYN7ggEAAAAJ>

### Employment Details

- ♣ 05-11-2020- - Associate Professor, P. K. College, Contai
- ♣ 20.-04-2017 (Present) - Assistant Professor (stage-III), P. K. College, Contai
- ♣ 05-11-2008 - Assistant Professor ( I & II), Ghatal R. S. Mahavidyalaya
- ♣ 05-11-2008-30-04-2011 - Research Fellow (part-time), IIT Kharagpur
- ♣ 26. 07. 2006-04. 11. 22008 - Research Fellow (Full-time), IIT Kharagpur.

**Research Experiences:** 11 years (Excluding PhD period)

**Teaching Experiences:** PG: 09 years UG: 13 years

### Academic Qualifications

Degree	Year	University/Board	% of marks
Secondary (10 <sup>th</sup> )	1999	WBBSE	79.75
Higher secondary (12 <sup>th</sup> )	2001	WBCHSE	81.80
B. Sc. (Physics Hons)	2004	Vidyasagar University	70.87 #
M. Sc. (Physics)	2006	IIT Kharagpur	8.17 / 10
Ph. D.	2011	IIT Kharagpur	-

# University First class first.

- \* **Specializations in M.Sc.:**
1. Science and Technology of Nanomaterials
  2. Crystal Physics
  3. Principle of Radiation Detection and Measurements.

### National Level examinations qualified

- CSIR-UGC NET (JRF & LS) -2006
- GATE (AIR-534, Score-359)- 2006
- JAM-2004 (AIR-69)
- JEST-2004 (AIR-72)

## Scholarships

1. UGC-PTAC conference presentation grant-2012
2. Selected for INSA Summer Research Fellow (faculty)-2012, NPL-Delhi
3. Selected for INSA Summer Research Fellow (faculty)-2011, NCL-Pune
4. ICTP-Visiting grant-2011
5. UGC Junior Research Fellowship (2007-2008)
6. IIT Junior Research Fellowship (2006-2007)
7. Merit-cum-Means Scholarship in M. Sc. (2004-2006)
8. Selected for National Scholarship-2004

## Awards

1. Vidyasagar University Gold Medal for 1st class 1st in B. Sc. Examination-2004
2. Dr. N. C. Rana Memorial Gold Medal for 1st class 1st in B. Sc. Examination-2004
3. Certificate for Outstanding Contribution in Review- Elsevier, Netherlands-2017
4. Supervised technical model in District Science Congress (3rd Position) -2017
5. 3rd position Oral presentation in SERB sponsored national seminar-2019.
6. Brand Ambassador, Bentham Science Publisher, Sharjah, UAE-2019.

## Membership

1. Affiliate Member, IUPAC-USA (2012-2013)
2. Member, National Entrepreneurship Network (December, 2017-)
3. Life Member, International Association of Advanced Materials, Sweden (2016-)
4. Life Member, Indian Association for Physics Teachers (IAPT)

## ACADEMIC & RESEARCH ACTIVITIES

International Journals: Published-69

Total citation: 1000 h-index: 16 i<sub>10</sub> index:

<https://scholar.google.co.in/citations?hl=en&user=IYN7gqEAAAAJ>

## Research Areas

- ♣ Materials Chemistry
- ♣ Semiconductor Optoelectronics
- ♣ Physics Education
- ♣ Remote sensing and GIS

## Sponsored Projects

### **Project-1 (COMPLETED)-Principal Investigator**

**Title:** Effect of Gamma (Co-60) Irradiation on Microstructure and Optical Properties of Zinc Oxide Nanostructures.

**Funding Agency:** UGC-DAE-CSR

**Amount:** Rs-0.70 Lakh

### **Project-2 (ONGOING)-Project Implementation Group Member**

**Title:** Next Generation Flexible Perovskite Solar Cells based on Inorganic Hole and Electron Transport Materials.

**Funding Agency:** DST-FIST (College Level)

**Amount:** 110.00 Lakh

**Ph. D. Guidance: Registered = 03**

### **Editorial Board Membership**

- ❖ Review Editor: Frontiers in Materials (IF-3.98, Scopus).
- ❖ Associate Editorial Board Member: Current Nanomaterials, ISSN: 2405-4623 (Scopus)

### **Regular Reviewer**

*Scientific Reports* (Nature Publishing Group), *Journal of Applied Physics (APS)* • Physica-E (Elsevier) • Materials Science and Engineering-B (Elsevier) • Materials Letters (Elsevier) • Applied Physics-A (Springer) • Chinese Optics Letters (Springer) • *Crystal Growth and Design (RSC)* • J. Chem. Eng. & Mat. Sci. • Journal of Materials Science-Materials Electronics (Springer) • Journal of Tissue Science and Engineering • Journal of Materials Science (Elsevier).

### **Publications in International Journals**

71. **P. K. Samanta**, N. K. Rana, B. S. Kar, *Peak profile analysis, electrical, dielectric behaviour and defect mediated yellow photoluminescence of zinc oxide nanostructures*, **Phys. Scr.** 97, 075701(2022)  
DOI: <https://doi.org/10.1088/1402-4896/ac71db>
70. S. Sahu, **P. K. Samanta**, *Microstructural study and crystallite size analysis of chemically grown bougainvillea flower-like zinc oxide nanostructures*. **Materials Today Proceedings** 65 (5) 2502-2505 (2022)  
DOI: <https://doi.org/10.1016/j.matpr.2022.04.474>
70. **P. K. Samanta**, Optical Properties of Hydrothermally Grown ZnO Nanoflowers. **Nanoscience & Nanotechnology-Asia**, 12 (3) 39-45 (2022)  
DOI : <https://doi.org/10.2174/2210681212666220513095658>
69. S. Mandal, **P. K. Samanta**, *Rietveld analysis of X-ray diffraction pattern of sol-gel synthesized copper oxide nanoparticles*. **Materials Today Proceedings**, 60 (2), 1051-1055(2022)  
DOI: <https://doi.org/10.1016/j.matpr.2022.01.242>
68. S. Sahu, **P. K. Samanta**, *Profile Analysis of X-ray Diffraction Pattern of Zinc Oxide Nanostructure*, **Journal of Nano and Electronic Physics**, 13 (5), 05001 (4p) (2021) (EISSN: 2077-6772)  
DOI:10.21272/jnep.13(5).05001

67. D. Aich, R. N. Mondal, S. Saha, **P. K. Samanta**, A. K. Bhunia, T. Kamilya  
*Sensitivity Enhancement in the Colorimetric/Spectroscopic Determination of Lysozyme Concentration in Nanomolar Level with Colloidal Citrate Capped Au@Ag Core-Shell Nanoparticles.*  
**Nanoscience & Nanotechnology-Asia**, 11(4) 98-111(14) (2021)  
DOI : <https://doi.org/10.2174/2210681210999200728114038>
66. **P. K. Samanta**, T. Kamilya  
*Environment Friendly Synthesis of Undoped and Cu doped ZnO Nanoparticles and Study of their Optical Absorption Properties towards Biological Applications.*  
**Journal of Nano and Electronic Physics**, 13 (1), 01006 (3p) (2021) (EISSN: 2077-6772)  
DOI: [https://doi.org/10.21272/jnep.13\(1\).01006](https://doi.org/10.21272/jnep.13(1).01006)
65. S. Mandal, **P. K. Samanta**  
*Electrochemical Growth of Metallic Zinc and its Crystallographic Study Using Rietveld*  
**Materials Today: Proceedings** 43(5), 3091-3094 (2021) (EISSN: 2214-7853)  
DOI: <https://doi.org/10.1016/j.matpr.2021.01.579>
64. K. Barman, P. Chakraborty, **P. K. Samanta**  
*Green Synthesis of Zinc Oxide Nanostructure using Azadirachta Indica Leaf Extract and its Structural and Microstructural Study*  
**Physica Scripta** 96, 035704 (2021) (EISSN: 1402-4896)  
DOI: <https://doi.org/10.1088/1402-4896/abda6c>
63. **P. K. Samanta**  
*Effect of Ni-doping on the Defect Densities Associated with Photoluminescence from ZnO Quantum Dots*  
**Physics AUC**, 30 (1), 56-60 (December, 2020) (ISSN - 1223 – 6039)  
[http://cis01.central.ucv.ro/pauc/vol/2020\\_30/7\\_1\\_56\\_60\\_2020.pdf](http://cis01.central.ucv.ro/pauc/vol/2020_30/7_1_56_60_2020.pdf)
62. **P. K. Samanta**  
*Effect of Copper Doping on the Growth of c-axis of Zinc Oxide Nanostructure*  
**Physics AUC**, 30 (1), 42-47 (December, 2020) (ISSN - 1223 – 6039)
61. S. Sahoo, A. K. Mandal, **P. K. Samanta** et. al.  
*A critical overview on Quantum Computing*  
**Journal of Quantum Computing**. 2(4) pp. 181-192, (2020) (EISSN: 2579-0145)  
DOI:10.32604/jqc.2020.015688
60. D. Aich, S. Saha, R. N. Mondal, **P. K. Samanta**, T. Kamilya  
*Spectroscopic Study of Interaction of Bare, Citrate Capped and BSA Capped Fe<sub>3</sub>O<sub>4</sub> Nanoparticles with Hemoglobin*  
**Current Materials Science**, 13 (2) pp (2020) (EISSN: 2666-1462)
59. S. Acharyya, S. Acharyya, **P. K. Samanta**  
*Demonstration of Wet Chemical Synthesis of Nanomaterials for High School Students.*  
**World Scientific News**, 148, 15-26 (2020) (EISSN 2392-2192)
58. S. Acharyya, S. Acharyya, **P. K. Samanta**  
*Review on Multi-dimensional Zinc Oxide Nanostructures*

57. D. Aich, **P. K. Samanta**, S. Saha, T. Kamilya.  
*Inter-band Transition in Citrate Capped Marks Dodecahedral Colloidal Gold Nanoparticles.*  
**Current Nanoscience 16 (5), 829 – 836 (July, 2020)** (ISSN: 1875-6786)  
DOI: <http://dx.doi.org/10.2174/1573413715666191127115509>
56. **P. K. Samanta**  
*Band Gap Engineering, Quantum Confinement, Defect Mediated Broadband Visible Photoluminescence and Associated Quantum States of Size Tuned Zinc Oxide Nanostructures.*  
**Optik-IJLEO, 165337 (2020)** (ISSN: 0030-4026)
55. D. Aich, **P. K. Samanta**, S. Saha, T. Kamilya.  
*Synthesis and Characterization of Super paramagnetic Iron Oxide Nanoparticles.*  
**Nanoscience and Nanotechnology-Asia 10(2), 123-126 (2020)** (EISSN: 2210-6820)  
DOI : [10.2174/2210681208666180910110114](http://dx.doi.org/10.2174/2210681208666180910110114)
54. **P K Samanta.**  
*Investigation of the Structural Parameters of Copper Oxide Nanoparticles using X-ray Diffraction.*  
**Physics AUC, 29, 84-91 (December , 2019)** (ISSN - 1223 – 6039)
53. **P. K. Samanta.**  
*Green Synthesis of Ultrafine Zinc Oxide Nanoparticles and Determination of its Band-gap in view of Effective Mass Model.*  
**Physics AUC, 29, 61-67 (December , 2019)** (ISSN - 1223 – 6039)
52. **P K Samanta.**  
*Synthesis, Structural and Morphological Properties of CaFe<sub>2</sub>O<sub>4</sub>: a Potential Material in Photocathode for Artificial Photosynthesis.*  
**Res. J. Chem. Environ. 23(6), 115-118, 2019.** (ISSN: 0972-0626)
51. **P. K. Samanta**, M. Das and N. K. Rana.  
*Sol-gel Synthesis and Structural Properties of Cu Doped ZnO Nanoparticles towards Biomedical Applications.*  
**J. Nano- Electron. Phys. 11(1), 06028(3pp) (2019).** (ISSN 2077-6772)
50. **P. K. Samanta**, T. Kamilya, D. Pahari.  
*Study of Time Dependent Interaction of ZnO Nanoparticles with Sucrose and Honey Molecules to Understand Sucrose Stabilization Mechanism using Nanoparticles towards Biomedical Applications.*  
**Current Nanomaterials, 4, 216-222 (2019).** (ISSN: 2405-4615)
49. **P. K. Samanta.**  
*Chemical Synthesis of Zinc Oxide Nanorods and its Transformation into Nanotubes.*  
**Turkish J. Physics, 43, 576-581 (December, 2018)** (ISSN: 1303-6122)
48. **P K Samanta.**  
*Strong and Weak Quantum Confinement in Nanostructures and Size Dependent Optoelectronic Properties of Zinc Oxide.*  
**Physics AUC. 28, 17-23 (December, 2018)** (ISSN - 1223 – 6039)

47. **P. K. Samanta**, A. K. Mandal, S. Mishra, A. Saha.  
*Wet-chemical Synthesis and Optical Properties of CuO Nanoparticles.*  
**IEEE Digital Xplore**, doi:10.1109/iementech.2017.8076941/ISSN-978-1-5386-1703-8 (2017)
46. **P. K. Samanta**, M. Das et. al,  
*Synthesis and Optical Absorption Properties of Copper Oxide Nanoparticles for Applications in Transparent Surface Coatings and Solar Cells.*  
**J. Nano- Electron. Phys.** 9(6), 06028(2pp) (2017). (ISSN 2077-6772)
45. **P. K. Samanta**, T. Kamilya, A. K. Bhunia, S. Mandal.  
*Absorption Spectroscopic Analysis of ZnO Nanoparticles.*  
**Adv. Sci. Eng. Med.** 8, 240-244 (2016). (EISSN: 2164-6635)
44. **P. K. Samanta.**  
*Dynamic Conduction in 2-Dimensional Conductor: Magneto-Conductivity Tensor under Rapid Oscillatory Electric field.*  
**J. Nano- Electron. Phys.** 8(2), 02037(2pp) (2016). (ISSN 2077-6772)
43. **P. K. Samanta**, T. Kamilya, A. K. Bhunia.  
*Structural and Optical Properties of Ultra-long ZnO Nanorods.*  
**Adv. Sci. Eng. Med.** 8, 128-130 (2016). (EISSN: 2164-6635)
42. **P. K. Samanta**, A. Saha and T. Kamilya.  
*Wet chemically Synthesized CuO Bipods and their Optical Properties.*  
**Recent Patents on Nanotechnology**, 10, 20-25, (2016). (ISSN: 1872-2105)
41. **P. K. Samanta.**  
*Weak Quantum Confinement and Associated Energy Levels of CuO Nanoparticles.*  
**Adv. Sci. Eng. Med.** 7, 811-813 (2015). (EISSN: 2164-6635)
40. **P. K. Samanta** and A. Saha,  
*Wet Chemical Synthesis of ZnO Nanoflakes and Photoluminescence.*  
**Optik**, 126, 3786–3788 (2015). (ISSN 0030-4026)
39. A. K. Bhunia, **P. K. Samanta**, T. Kamilya, S. Saha.  
*Chemical Growth of Spherical Zinc Oxide Nanoparticles and Their Structural, Optical Properties.*  
**Journal of Physical Sciences**, 20, 205-12 (2015). (ISSN 2350-0352)
38. S. I Senatova, A. R. Mandal, F. S. Senatov, N. Yu Anisimova, S. E. Kondakov, **P. K. Samanta** and D. V. Kuznetsov.  
*Optical Properties of Stabilized ZnO Nanoparticles, Perspective for UV-Protection in Sunscreens.*  
**Current Nanoscience** 11(3), 354-359 (2015). (ISSN: 1573-4137)
37. A. K. Bhunia, **P. K. Samanta**, D. Aich, A. Saha, T. Kamilya  
*Biocompatibility study of protein capped and uncapped silver nanoparticles on human Hemoglobin.*  
**Journal of Physics D-Applied Physics.** 48(23), 235305 (2015). (ISSN 0022-3727)
36. **P. K. Samanta**, A. Saha and T. Kamilya.

Structural and Optical Property of Spherical ZnO Nanoparticles.  
*Optik*. 126(18), 1740-1743 (2015). (ISSN 0030-4026)

35. **P. K. Samanta**, A. Saha and T. Kamilya.  
*Chemical Synthesis and Optical Properties of ZnO Nanoparticles*.  
*J. Nano- Electron. Phys.* 6(4), 04015 (2pp), (2014). (ISSN 2077-6772)
34. S. Shit, T. Kamilya, and **P. K. Samanta**.  
*A Novel Chemical Reduction Method to Synthesize ZnO Nanocrystals*.  
*Mater. Lett.* 118, 123–125 (2014). (ISSN: 0167-577X)
33. **P. K. Samanta** and T. Kamilya.  
*Optical Properties of Surface Modified ZnO Nanorods*.  
*Journal of Nanoengineering and Nanomanufacturing* 4(3), 173-176, (2014).  
(ISSN: 2157-9334)
32. A. K. Bhunia, **P. K. Samanta**, S. Saha and T. Kamilya.  
*Safety concerns towards the biomedical application of PbS nanoparticles: An approach through protein-PbS interaction and corona formation*.  
*App. Phys. Lett.* 104, 123703 (2014). (ISSN 0003-6951)
31. **P. K. Samanta**, A. K. Bhunia, S. Saha, and T. Kamilya.  
*Interaction of Glucose with ZnO Nanoparticles*.  
*J. Nano- Electron. Phys.* 6(2), 02006(2 pp), (2014). (ISSN 2077-6772)
30. A. K. Bhunia, **P. K. Samanta**, S. Saha and T. Kamilya.  
*ZnO Nanoparticles- Protein Interaction: Corona Formation with Associated Unfolding*.  
*App. Phys. Lett.* 103 143701 (4 pages) (2013). (ISSN 0003-6951)
29. **P. K. Samanta**, S. Datta and S. Basak and T. Kamilya.  
*Wet Chemical Growth of Ultra-long ZnO Nanoplates and their Optical Property*.  
*Chem. Phys. Lett.* 584, 155-158 (2013). (ISSN: 0009-2614)
28. **P. K. Samanta**. S. Mishra.  
*Solution Phase Synthesis of ZnO Nanopencils and their Optical Property*.  
*Mater. Lett.* 91, 338-340 (2013). (ISSN: 0167-577X)
27. **P. K. Samanta**. S. Mishra.  
*Wet Chemical Growth and Optical Property of ZnO Nanodiscs*.  
*Optik*, 124, 2871-2873 (2013). (ISSN 0030-4026)
26. N. Karak, **P. K. Samanta**, T. K. Kundu.  
*Structural and Optical Properties of Alumina Templated Undoped and Co-Doped Zinc Oxide Nanoparticles*.  
*Journal of Nanoengineering and Nanomanufacturing* 3, 211-216 (2013).  
(ISSN: 2157-9334)
25. **P. K. Samanta**.  
*Effect of Hexamine concentration on the morphology and optical properties of ZnO nanostructures*.  
*Adv. Electrochem.* 1, 10-15(2013). (ISSN: 2330-1554)

24. N. Karak, **P. K. Samanta**, T. K. Kundu.  
*Green Photoluminescence from Highly Oriented ZnO Thin Film for Photovoltaic Application.*  
**Optik**, 124, 6227-6230(2013). (ISSN 0030-4026)
23. **P. K. Samanta** and T. Kamilya.  
*Wet Chemical Growth and Photoluminescence of ZnO Nanoplates.*  
**Physics Academy of North East Newsletter** 2, 1-2(2013).
22. **P. K. Samanta**, P. R. Chaudhuri.  
*Wet Chemical Growth of Zinc Oxide Octahedrons and their Optical Property.*  
**Mater. Lett.** 68, 510-512 (2012). (ISSN: 0167-577X)
21. **P. K. Samanta**.  
*Characteristics of Benzene assisted grown ZnO nanosheets.*  
**Sci. Adv. Mater.** 4, 219-226 (2012). (EISSN: 1947-2943)
20. **P. K. Samanta**, S. Basak.  
*Electrochemical growth of hexagonal ZnO pyramids and their optical property.*  
**Mater. Lett.** 83, 97-99 (2012). (ISSN: 0167-577X)
19. **P. K. Samanta**, A. K. Bandyopadhyay.  
*Chemical Growth of Hexagonal Zinc Oxide Nanorods and their Optical Properties.*  
**Appl. Nanosci.** 2, 111-117 (2012). (ISSN 2190-5517)
18. **P. K. Samanta**, P. R. Chaudhuri.  
*Understanding the Transition Levels of Photoluminescence of ZnO Quantum Dots under Weak Confinement*  
**J. Optics**, 41(2), 75-80 (2012). (ISSN 0974-6900)
17. S. Dutta, S. Basak, **P. K. Samanta**.  
*Tunable photoemission from bio-compatible ZnO quantum dots and effect of PVA.*  
**Int. J. Nanosci. Nanotech.** 3(1), 27-32 (2012). (ISSN 0974-3081)
16. S. Basak, **P. K. Samanta**.  
*Enhanced Photoluminescence from core-shell ZnO/ZnS nanostructures.*  
**J. Chemical Eng. Mater. Sci.** 3(2), 18-22 (2012). (ISSN-2141-6605)
15. **P. K. Samanta**, A. K. Bandyopadhyay, S. Basak, P. Roy Chaudhuri.  
*Characteristics of Electrochemically Grown Dendritic Metallic Zinc.*  
**Optik**, 12, 1520-1522 (2011). (ISSN 0030-4026)
14. **P. K. Samanta**, S. Basak, P. Roy Chaudhuri.  
*Electrochemical Growth of ZnO Microspheres and Nanosheets.*  
**Adv. Sci. Lett.** 1, 554-557 (2011). (EISSN: 1936-7317 )
13. **P. K. Samanta**, P. Roy Chaudhuri.  
*Growth and Optical Properties of Chemically Grown ZnO Nanobelts.*  
**Sci. Adv. Mater.** 3, 112-117 (2011). (EISSN: 1947-2943)



12. **P. K. Samanta**, S. Basak, P. Roy Chaudhuri.  
*Growing Fern-leaves: the Secret life of Zinc Oxide.*  
**Materials Today**, 14(6), 295 (2011) (ISSN: 1369-7021)
11. **P. K. Samanta**, P. R. Chaudhuri.  
*UV Photoluminescence from Substrate Free Growth of Zinc Oxide Nanopencils.*  
**Sci. Adv. Mater.** 3, 919-925 (2011). (EISSN: 1947-2943)
10. **P. K. Samanta**, S. Basak, P. Roy Chaudhuri.  
*Synthesis and Characterization of Chemically Grown Ultra-long Hexagonal ZnO Nanotubes.*  
**Int. J. Nanosci.** 10, 69-73 (2011). (ISSN 1793-5350)
9. **P. K. Samanta**, P. Roy Chaudhuri.  
*Substrate Effect on the Morphology and Photoluminescence from ZnO Nanoprisms.*  
**Front. Optoelectron. China**, 4, 130-136 (2011). (ISSN: 16744128)
8. **P. K. Samanta.**  
*Weak Quantum Confinement in ZnO Nanorods: a 1-D Potential Well Approach.*  
**Optics & Photonics Letters**, 4, 35-45 (2011). (ISSN 1793-7140)
7. **P. K. Samanta**, P. Roy Chaudhuri.  
*Porous Zinc Oxide Thin Film Synthesized by a Simple Chemical solution Method for Transparent UV Coating.*  
**Int. J. Mater. Phy.** 1(no.-1), 1-5, (2010) (ISSN 0974 –309X)
6. **P. K. Samanta**, S. Basak, P. Roy Chaudhuri.  
*Fabrication of ZnO Nanostructures: Effect of Organic and Inorganic Compounds.*  
**IEEE EXPLORE CONFERENCE SERIES, ISBN: 978-1-4244-3543-2 (2010)** 458-459
5. S. Basak, R. Kumar, **P. K. Samanta.**  
*Fabrication of Intensity Based Fiber-optic pH Sensor.*  
**IEEE EXPLORE CONFERENCE SERIES, ISBN: 978-1-4244-3543-2 (2010)** 370-371
4. **P. K. Samanta**, S. K. Patra, P. Roy Chaudhuri.  
*Violet Emission from Flower-like Bundle of ZnO Nanosheets.*  
**Physica-E**, 41, 664-667 (2009) (ISSN: 1386-9477)
3. **P. K. Samanta.**  
*Erratum: "Photoluminescence of ZnO quantum dots produced by a sol-gel process[Optical Materials, 30 (2008) 1233-1239]"*  
**Optical Materials**, 31, 700 (2009). (ISSN: 0925-3467)
2. **P. K. Samanta**, S. K. Patra, P. Roy Chaudhuri.  
*Green Photoluminescence from Chemically Synthesized Zinc Oxide Nanostructures.*  
**Int. J. Mater. Sci.** 4(6), 803-806 (2009) (ISSN 0974– 3081)
1. **P. K. Samanta**, S. K. Patra, P. Roy Chaudhuri.  
*Visible Emission from ZnO Nanorods Synthesized by a Simple Wet Chemical Method*  
**Int. J. Nanosci. Nanotechnol.** 1, 81-90 (2009) (ISSN 0974– 3081)