

Name of Teaching Staff : Dr.(Mrs.) Ankita Banerji Jain
Designation : Assistant Professor
Department : Applied Physics
Date of Joining the Institution : 11.07.2011



Qualifications with Class Grade : 1. Ph.D. (Physics) from BARC - University Of Mumbai, in 2010.
2. M.Sc (Physics). from University of Mumbai, in 2002, IInd Class (63.8%).
3. B.Sc. (Physics) from K.J. Somaiya College of Science & Commerce, University of Mumbai in 2000, Ist Class (66.7%).

Total Experience in Years : **Teaching:**
1. Assistant Professor D. J. Sanghvi College of Engineering from 11.7.2011.
2. Lecturer (Adhoc), VJTI. from August, 2010 to May 2011.

Industry: --

Research:

Bhabha Atomic Research Centre from May, 2003 to June 2010.

Papers Published : **National:** --

International: 7

1. High pressure study of Pentaerythritol: a synchrotron infrared study, S.K. Deb, Ankita Banerji, R.J. Kshirsagar, S.M. Sharma, P.Dumas, T.Marin, J.C. Chervin and B. Canny; Infrared physics and technology 49(2006)82.
2. Raman Scattering Study of High Pressure Phase Transition in Thiourea; Ankita Banerji and S.K. Deb; Journal of Physical Chemistry B 111 (2007)2643.
3. Order-disorder transition in $\text{Nd}_{2-y}\text{GD}_y\text{Zr}_2\text{O}_7$ pyrochlore solid solution: an X-ray diffraction and Raman spectroscopic study; B.P. Mandal, Ankita Banerji, Vasant Sathe, S.K. Deb and A.K. Tyagi Journal of solid state chemistry 180(2007) 2643.
4. Raman, XRD and SEM investigation on $\text{CeO}_2\text{-Lu}_2\text{O}_3$ and $\text{CeO}_2\text{-Sc}_2\text{O}_3$ systems: A Subsolidus Phase evolution study V. Grover, Ankita Banerji, P. Sengupta and A.K. Tyagi Journal of solid state chemistry 181 (2008) 1930.
5. $\text{CeO}_2\text{-Gd}_2\text{O}_3$ system: Unravelling of microscopic features by Raman spectroscopy; Ankita Banerji, Vinita Grover, Vasant Sathe, A.K. Tyagi and S.K. Deb Solid state communication 149 (2009)1689.

6. Pressure induced structural stability studies on $\text{Nd}_2\text{Zr}_2\text{O}_7$ pyrochlore; Ankita Banerji, B.P. Mandal T.N. Sairam and A.K. Tyagi Solid state communications 151 (2010)321.
7. Raman Scattering Study of High Pressure Phase Transition in $\text{Zn}(\text{CN})_2$. Ankita Banerji, A.K.Tyagi and S.K. Deb (manuscript under preparation).

Papers Presented in
Conferences

: **National: 15**

1. Raman scattering study of $\text{Ce}_{0.775}\text{Nd}_{0.225}\text{O}_{2-y}$ at high pressure; Ankita Banerji, S.K. Deb, S.V. Chavan and A.K. Tyagi, Proceedings of the DAE Solid State Physics Symposium (2005), Vol.50pp. 121-122.
2. Raman scattering and Infrared absorption studies of $\text{Nd}_2\text{Zr}_2\text{O}_7$; Ankita Banerji, T.N. Sairam, C.S. Sunder and S.K. Deb Proceeding of the DAE Solid State Physics Symposium (2006), Vol.51pp. 149-150.
3. Raman scattering study of $\text{Ba}_{0.7}\text{Hf}_{0.3}\text{TiO}_3$ at high pressure, Meenakshi Kumari, Ankita Banerji, A.K. Tyagi and S.K. Deb, Proceedings of the DAE Solid State Physics Symposium (2006), Vol.51pp. 167-168.
4. XRD and Raman spectroscopy studies in $\text{Gd}_{2-x}\text{Nd}_x\text{Zr}_2\text{O}_7$. B.P. Mandal Ankita Banerji S.K. Deb and A.K. Tyagi. Proceedings of the DAE Solid State Physics Symposium (2006), Vol.51, pp 113-114.
5. Raman scattering and X-ray Diffraction Study of $\text{CeO}_2\text{-Gd}_2\text{O}_3$ Solid Solution; Ankita Banerji, Vinita Grover, Vasant sathe, A.K. Tyagi and S.K. Deb. Proceedings of DAE-BRNS International Symposium on Materials Chemistry (2006), pp.267-271.
6. High pressure study of Pentaerythritol: a synchrotron infrared study. S.K. Deb, Ankita Banerji, R.J. Kshirsagar, S.M. Sharma, P.Dumas, T.Marin, T. Marin, J.C. Chervin and B. Canny, Proceedings of the DAE Solid State Physics Symposium (2003), Vol.46.pp.7-8.
7. Raman scattering Study of high-pressure phase transition in Thiourea; Ankita Banerji and S.K. Deb. Proceeding of the DAE Solid State Physics Symposium (2004), Vol.49, pp.121-122.
8. Raman Scattering Study of Order-Disorder Transition in Pentaerythritol; Anikta Banerji , T. Sakuntala and S.K. Deb Proceedings of the DAE Solid State Physics Symposium (2004), Vol.49, pp.145-146.
9. Raman Scattering Study of Nanocrystalline $\text{Ce}_{1-x}\text{Nd}_x\text{O}_{2-y}$ at high pressure; Ankita Banerji, Vinila Bedekar, A.K. Tyagi and S.K. Deb. Advanced Nanomaterials 2007: An International Conference on Experimental Condensed Matter Physics, pp.129-130.
10. High pressure study of Pentaerthritol: a synchrotron infrared sudy; S.K. Deb, Ankita Banerji, R.J. Kshirsagar, S.M. Sharma, P.Dumas, T.Marin, J.C. Chervin and B. Canny WIRMS 2005 International workshop on Infrared microscopy and

spectroscopy with accelerator based sources., Oral presentation, presented by Ankita Banerji Abstract book page no.72.

11. Raman scattering study of high-pressure phase transition in Thiourea; Anikta Banerji and S.K. Deb; presented in ICORS 2006.
12. Raman scattering study of Order-Disorder Transition in Pentaerythritol; Anikta Banerji, T. Sakuntala and S.K. Deb; presented in ICORS 2006.
13. XRD and Raman spectroscopy studies in $Gd_{2-x}Nd_xZr_2O_7$; B.P. Mandal, Ankita Banerji, S.K. Deb and A.K. Tyagi; presented in ICORS 2006.
14. High pressure Raman spectroscopic study of $Zn(CN)_2$; Ankita Banerji, A.K. Tyagi, S.K. Deb; presented in XIII AIRAPT-International Conference on High Pressure Science & Technology.
15. High Pressure Raman spectroscopic study of $Zn(CN)_2$; Ankita Banerji, A.K. Tyagi, S.K. Deb; presented in First Asian spectroscopy conference and Asian Biospectroscopy conference ASC 2007.

International:

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PhD Guide ? Give field & University

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Field:

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University:

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PhDs / Projects Guided

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PhDs:

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Projects at Masters level:

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Books Published / IPRs / Patents

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Professional

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Memberships

Consultancy Activities

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Awards

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Grants fetched

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Interaction with

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Professional Institutions