

CURRICULUM VITAE

Resume Highlights:

- ❖ Worked as INSPIRE Fellow (April 2011 to February 2012) at Thapar University, Patiala.
- ❖ Worked as UGC fellow (Junior Research Fellow) (July 2010 to March 2011) at Thapar University, Patiala.
- ❖ Worked as Teaching Associate (April 2008 to June 2010) at Thapar University, Patiala.
- ❖ Assisted a number of M.Tech and M.Sc. students for their projects.
- ❖ Six month teaching experience at Akash Institute, Delhi.
- ❖ Gold Medalist with distinction in M.Sc. (Applied Physics), GNDU, Amritsar.
- ❖ B.Sc (Computer Science) Lyallpur Khalsa College, Jalandhar.



Dr. sanjeev Kumar

Envision

I believe that teaching physics to graduate and post graduate student is greatest opportunity and challenge for an academic physicist.
(Enrico Fermi (1901–1954))

Present status and teaching experience:

Working as Asst. Prof. in physics (19 July 2012 onwards) at Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab.

Worked as Asst. Prof. in physics (01 January 2012 to 19 July 2012) at Rayat institute, Ropar, Punjab.

Worked as Teaching Associate (April 2008 to June 2010) at Thapar University, Patiala.

Objective

To be a part of a growing organization with challenging work environment, offering a chance to excel in teaching and research.

Academic qualifications

Class	Year	Board/Uni.	%Marks
Doctoral of Philosophy	2012	Thapar Uni.	-/-
M.Sc. (Applied Physics)	2007	G.N.D.U.	75%(Gold Medalist)
B.Sc.(Computer Science)	2004	(LKC Jalandhar) G.N.D.U	60%
12 th (Non-Med)	2001	P.S.E.B	60%
10 th	1999	P.S.E.B	74%

Research/teaching experiences and Publications

Research Experience: 7 year Teaching Experience: 4 and 1/2year

Paper published: 8 Invited lec./Workshops/International/National conferences: 11

Publications

1. Kumar S, Verma NK, Singla ML, "Reflective properties of ZnS nanoparticle coatings", **Journal of Coating Technology and Research, Elsevier**, 8 (2) 223-228 (2011).
2. Kumar S, Verma NK, Singla ML, "Highly reflective titania nanoparticle-based coating", **Pigments and Resin Technology, Emerald**, 42(3) 2012.
3. Kumar S, Verma NK, Singla ML, Study on reflectivity and photostability of Al-doped TiO₂ nanoparticles and their reflectors, **Journal of Materials Research, Materials Research Society** 28(03) 521-528.
4. Kumar S, Verma NK, Singla ML, "Reflective characteristics of Ni doped ZnS nanoparticles pigment and their coatings", **Chalcogenide Letters**, 8(9) 561-569 (2011).
5. Kumar S, Verma NK, Singla ML, "Size dependent reflective properties of TiO₂ nanoparticles and reflectors made thereof", **Digest Journal of nanomaterials and biostructures**, 7(2) 607-619 (2012)
6. Kumar S, Verma NK, Singla ML, "Diffuse reflectance and reflective flexible coatings of capped ZnS nanoparticles", **Materials Chemistry and Physics, Elsevier**, 142 734-739 (2013).
7. Kaushal S, Badru R, Kumar S, Mittal SK, Singh P, "Fabrication of a mercury(II) ion selective lectrodec based on poly-o-toluidine-zirconium phosphoborate" **RSC Advances** 6 3150-3158 (2016).
8. Kaushal S, Badru R, Kumar S, Mittal SK, Singh P, " Nanocomposite Zirconium Phosphoborate ion-exchanger incorporating carbon nano tubes with photocatalytic activity", **Separation Science and Technology, Taylor and Francis**, Accepted (2016).

Workshops/Conferences/Poster Presentations/Seminar/Invited Lec.

1. Workshop on Emerging Technologies in Nano-Science, organized by Department of Physics, Punjabi University, Patiala, on February 20, 2008.
2. Workshop on WVASE32 Data Analysis Fundamentals Training Spectroscopic Ellipsometry, organized by J.A. Woollam Co. Inc., at National Physical Laboratory, New Delhi, on September 22-25, 2009.
3. Synthesis of ZnS nanoparticles with Enhanced Diffuse Reflectance, Sanjeev Kumar, N.K. Verma, Proceedings of the National Conference on Smart, Electronic & Engineering Materials, organized by Baba Farid College of Engineering & Technology, Bathinda, on March 5-6, 2010, p.56.
4. Synthesis of zinc sulphide nanoparticles pigment and their reflective characteristics, Sanjeev Kumar, M.L. Singla, N.K. Verma, Proceedings of the International Conference on Emerging Trends in Mechanical Engineering, organized by Department of Mechanical Engineering, Thapar University, Patiala, on February 24-26, 2011, p.100.

5. Study on reflective characteristics of Titania nanoparticles, Sanjeev Kumar, N.K. Verma M.L.Singla, Proceedings of the National Seminar on Advanced Materials and Devices, organized by Department of Physics, GVM Girls College, Sonapat, on July 3-4, 2011, p.38.
6. Reflective coatings incorporating ZnS nanoparticle pigments, Sanjeev Kumar, M.L. Singla, N.K.Verma, Proceedings of the International Conference on Advances in Materials & Manufacturing Technology, organized by Department of Mechanical Engineering, Chitkara University, Rajpura, on July 20, 2011, pp.179-182.
7. Synthesis of titania nanoparticles and their application in reflectors, Sanjeev Kumar, MeenuMenon, M.L. Singla, N.K. Verma, Proceedings of the National Conference on Nanoscience Fundamentals and Applications, organized by Department of Applied Sciences, Chitkara University, Rajpura, on July 23-24, 2011, p.39.
8. Optical characterization of Ni:doped ZnS and their coatings, Sanjeev Kumar, oral presentation on National conference on Emerging Horizon in Science & Technology, organized by Sri Guru Granth Sahib World University, Fatehgarh Sahib, on January 17-18, 2014.
9. Properties of nanomaterials, poster presentation on National physics conference at GSSD GS Khalsa College, Patiala, on October 29-30, 2014.
10. Fabrication of reflectors based on ZnS nanoparticles pigment, oral presentation on International conference on Recent Advances in Emerging Technology, ICRAET-2016, organized by Sri Guru Granth Sahib World University, Fatehgarh Sahib, on February 23-26, 2016.
11. Chair person for the technical session for the 4th International Conference on Advancements in Engineering and Technology, ICAET-2016, Bhai Gurdas Institute of Engineering and technology on March 18-19, 2016.

Research Instrument Handling Experience

1. UV-Visible spectrometer with Integrating Sphere, Perkin Elmer.
2. UV-Visible spectrometer with Reflectance probe, Ocean Optics.
3. UV-Visible spectrometer, Perkin Elmer and Hitachi
4. X-Ray Diffractometer (XRD) Pananalytical.
5. Scanning Electron Microscope (SEM), JEOL.
6. Spin coating unit of Apex.
7. Fluorespectrophotometer, Hitachi.

Outstanding achievements

1. Selected as "INSPIRE FELLOW" by Department of Science and Technology. This fellowship is awarded to the first rank holders for doctoral research in any university in INDIA, Innovation in Scientific Pursuit for Inspired Research (INSPIRE), A new scheme of THE GOVERNMENT OF INDIA, offers standing opportunity through fellowships at the level same as NATIONAL ELIGIBILITY TEST qualified candidates.
2. Stood second in national level entrance test conducted by Guru Nanak Dev University for admission in M.Sc (Applied Physics).
3. University Gold Medalist in M.Sc. Applied Physics with distinction.

4. Selected for Merit Scholarship awarded by Guru Nanak Dev University for excellent in Academic.
5. Selected as JRF for UGC scholarship.

Work and responsibilities at Sri Guru Granth Sahib World University

1. Inaugurated and coordinator of Environmental Club, October 2013 onward. The prime aim of the club is to keep the students close to Nature's heart.
2. Warden of Baba Banda Singh Bahadur boys hostel, September 2013 to July 2016
3. Guided 3 M.Sc students, one Ph.d student under supervision for the research project work.
4. Laboratories in-charge, department of physics July 2013 to December 2015.
5. Extra Circulative in-charge, department of physics, January 2016 to July 2016.
6. Member of anti ragging squad.
7. Placement Coordinator, department of physics, July 2016 onward.

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