

# Dr. Jaspal Kaur

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## Key achievements

- Successfully completed PhD; results summarised in peer-reviewed publications
- Oral and poster presentations
- Experience in scientific data handling and writing reports
- Extensive analytical and technical skills
- Computing and statistical skills
- Experience of working in a multicultural environment
- Trained and taught junior research students

## Degrees and Diplomas

<b>Degree</b>	<b>Institute/University</b>	<b>Year</b>
PhD Chemistry	University of Liverpool, UK	2003
B.Ed, Bachelor of Education	Government College of Education, Jalandhar, India	1996
MSc Chemistry	GNDU, India	1995
BSc, Life Sciences	GNDU, India	1993

  

<b>Diploma</b>	<b>Institute/University</b>	<b>Year</b>
Level II Diploma for IT Users	City & Guilds, UK	2005
European Computer Driving Licence	British Computer Society	2005

## Work experience

Assistant Professor	SGGSWU, Fatehgarh Sahib	2015-present
Data Quality Analyst	NHS, Birmingham, UK	2007-2009
Research Associate	LCMS, University of Liverpool, UK	2003-2004
Graduate Research Fellow	LCMS, University of Liverpool, UK	1999-2003

## Relevant skills

### **Laboratory**

- Homogeneous and heterogeneous catalysis applied to the organic synthesis.
- Analytical chemistry experience in GC (used and maintained), BET, FTIR and Temperature programmed desorption.
- Familiar with UV-Vis, GC-MS, NMR ( $^1\text{H}$ ,  $^{13}\text{C}$ ) and XRD techniques.
- Health and safety regulations, general laboratory practice

### **Communication**

- Regular oral presentations at various JM student seminars during my PhD
- Presented posters at various conferences
- Quarterly research meetings with the sponsors

## Short Courses from University of Liverpool

- Time and Project Management
- Oral Communication
- Written Communication Skills

## Computing Skills

Proficient in Microsoft office applications (MS Word, Excel, PowerPoint), Chemdraw, Graphic software (Adobe Photoshop, Paintshop), instrumental software (GC-Varian software), on-line search facilities (Internet, Web of Knowledge), e-mail.

## Languages

Fluent in English, Hindi and Punjabi.

## Publications

1. Friedel -Crafts acylation catalysed by heteropoly acids, Kaur, J., Griffin, K., Harrison, B., Kozhevnikov, I.V. *J. Catal.* 2002, 208, 448-455.
2. Efficient acylation of toluene and anisole with aliphatic carboxylic acids catalysed by heteropoly salt Cs<sub>2.5</sub>H<sub>0.5</sub>PW<sub>12</sub>O<sub>40</sub>, Kaur, J., Kozhevnikov, I.V. *Chem. Commun.* 2002, 2508-2509.
3. Friedel -Crafts acylation and related reactions catalysed by heteropoly acids, Kaur, J., Kozhevnikova, E.F., Griffin, K., Harrison, B., Kozhevnikov, I.V. *Kinet. Katal.* 2003, 44, 175-182.
4. Friedel-Crafts acylation and Fries rearrangement catalysed by heteropoly acids, Kozhevnikov, I.V., Kaur, J., Kozhevnikova, E.F. in *Catalysis in Application*, S.D. Jackson, J.S.J. Hargriaves, D. Lennon (eds.), The Royal Society of Chemistry, UK, 2003, 136-144
5. Polyoxometalate-catalysed epoxidation of propene with hydrogen peroxide: microemulsion versus biphasic process, Kaur J., Kozhevnikov, I.V. *Catal. Commun.* 2004, 5, 709-713.

## Presentations

1. Ivan V. Kozhevnikov, J. Kaur, E. F. Kozhevnikova; *Oral presentation*, 1<sup>st</sup> International Conference on Highly-Organised Catalytic Systems, Chernogolovka, Moscow, Russia, June 2002.
2. J. Kaur, K. Griffin, B. Harrison, I. V. Kozhevnikov; *Oral presentations*, Johnson Matthey Research Seminar, Cardiff, UK (Jan 2000), Reading, UK (Jan 2001), Belfast, UK (Jan 2002).
3. J. Kaur, K. Griffin, B. Harrison, I.V. Kozhevnikov; *Poster presentation*, Annual Review Meeting of Leverhulme Centre, Liverpool, UK, April 2001.
4. J. Kaur, E. Kozhevnikova, E. Derouane, K. Griffin, B. Harrison, I. Kozhevnikov; *Poster presentation*, The Royal Society of Chemistry Meeting, London, UK, September 2002.