

Appendices

- 1. Susheela Kumari**, Archana Choudhary and Saumi Ray, The functionality of the hybrid systems driven by molecular dimension of the guest copper Schiff-base complexes entrapped in Zeolite-Y, *Applied Organometallic Chemistry*, **2019**, 33 (3), e4765.
- 2. Susheela Kumari**, Karthik Maddipoti, Bidisa Das and Saumi Ray, Palladium–Schiff Base Complexes Encapsulated in Zeolite-Y Host: Functionality Controlled by the Structure of a Guest Complex, *Inorganic chemistry*, **2019**, 58 (2), 1527-1540.
- 3. Susheela Kumari**, Bidisa Das and Saumi Ray, An insight into the catalytic activity of palladium Schiff-base complexes towards the Heck coupling reaction: routes via encapsulation in zeolite-Y, *Dalton Trans.*, **2019**, 48, 15942–15954.
4. Archana Choudhary, **Susheela Kumari** and Saumi Ray, Tuning of Catalytic Property Controlled by the Molecular Dimension of Palladium–Schiff Base Complexes Encapsulated in Zeolite Y, *ACS Omega* **2017**, 2 (10), 6636-6645.
- 5. Susheela Kumari** and Saumi Ray, Zeolite Encapsulated Ni(II) Schiff-Base Complexes: Improved Catalysis and Site Isolation, (manuscript under revision)
- 6. Susheela Kumari** and Saumi Ray, Cobalt Schiff-base Complexes Encapsulated in Zeolite Y and their Catalytic Activity for the Degradation of Rhodamine B, (manuscript under preparation)

List of Poster Presented in Conferences

[A-2]

- 1. Susheela Kumari** and Saumi Ray “Encapsulation and Catalytic Study of ‘Ship-in-a-bottle’ Palladium Schiff base Complexes inside the Zeolite-Y” ISCB International Conference (ISCBC-2018) Frontier Research in Chemistry & Biology Interface at Manipal University, Jaipur, 11-13 January, 2018.
- 2. Susheela Kumari**, Archana Choudhary and Saumi Ray “The Effect of the Molecular Dimensions of the Guest Complexes Encapsulated inside the Host Zeolite -Y” International Conference on Recent Trends in Chemical Sciences (ICRCS-2017)” organized by Govt. Engineering College, Bikaner, 12-13 January, 2017.
- 3. Susheela Kumari** and Saumi Ray “The Effect of the Molecular Dimensions of the Guest Palladium Schiff base Complexes Encapsulated inside the Host Zeolite-Y” International Conference on Nano and Functional Materials (NFM-2017), Department of Chemistry, Birla Institute of Technology and Science, Pilani Campus, Pilani, 16-18 November, 2017. (Best Poster Award)
- 4. Susheela Kumari** and Saumi Ray “Characterization and Catalytic Studies of Copper Complexes Encapsulated in Zeolite Y” National Conference on “Organic Chemistry in Sustainable Development: Recent Advances and Future Challenges” organized by Department of Chemistry, Birla Institute of Technology and Science, Pilani Campus, Pilani, 29-30 August, 2016.

BRIEF BIOGRAPHY OF THE CANDIDATE

[A-3]



Ms. Susheela Kumari
Research Scholar
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Ms. Susheela Kumari completed her B.Sc. from IMSN College, Pilani, University of Rajasthan, Jaipur, India (2007-2010) and M.Sc. from Department of Chemistry, Jai Narain Vyas University, Jodhpur, India (2011-2012). Further she completed her B.Ed from Maharshi Dayanand Saraswati University, Ajmer, India (2012-2013).

She has qualified NET (LS) in chemical science in December, 2012. She qualified GATE-2016 and State Eligibility Test (SET) for lectureship-2013. She joined the Department of Chemistry, BITS Pilani, Pilani Campus, Rajasthan in January 2014 for her doctoral research under the supervision of **Prof. Saumi Ray**. Currently she has published four research articles in well renowned international journals and her two more publications are in pipeline. She has presented posters in four conferences. Her research interest lies in designing of zeolite encapsulated heterogeneous systems to obtain better tunable reactivity with advantages of the robustness of host so that they can play a vital role in the field of catalysis field.

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BRIEF BIOGRAPHY OF THE SUPERVISOR

[A-4]



Prof. Saumi Ray
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Prof. Saumi Ray completed her B.Sc. from Bethune College, University of Calcutta (1991) and M.Sc. from Department of Chemistry, University of Calcutta (1993). She received her Ph.D. degree from Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore, India (2003) under the supervision of Prof. S. Vasudevan. During her doctoral studies she worked on zeolites with a detailed understanding of 'Host-guest' Chemistry and Molecular Recognitions, ultimately leading to design and synthesize advanced materials for different practical purposes like catalysis, separation, molecular sensing. She has around 14 years of teaching and research experience. Her current research interests are in the field of Material Chemistry and Computational Fluid Dynamics.

Prof. Saumi Ray has joined BITS Pilani in 2005 and has supervised two Ph.D student (Dr. Priya C Sande and Dr. Archana Choudhary) under the field of Computational Fluid Dynamics and Material Chemistry. She is currently supervising two Ph.D students, as a result of her research accomplishment she has published research papers in peer reviewed journals, presented papers and delivered lectures in national and international conferences. She has successfully completed one research project as PI.

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