

FACULTY PROFILE



Name	Dr.(Mrs.) Sarita Rai				Date of Birth:15/05/1975					
Designation	Assistant Professor			Date of holding Present Post		19/09/2013				
Name of the Department and School	Dept.of Chemistry				School of chemical Sciences & Technology					
Contact Details	Email : dr_saritar@yahoo.co.in				Mobile:9424934100					
Additional Responsibility in the university, if any										
Educational Qualifications (UG onwards)	M.Sc., Ph.D									
Research Area/Specialization	Inorganic Chemistry/ Nanomaterials Solid State Chemistry of Mixed Metal Oxides Cements and Composite Materials									
Awards/ Honors / Fellowship Conferred (With details thereof)	1.Bronze Medal award of Indian Association of Solid State Chemists and Allied Scientists (ISCAS-2017),1 st July. 2.Got 2 nd prize for Poster presentation in National conference held at Sharda University.									
Summary of Publications (Number only)	Research Papers	31	Books		Chapter in Books		Seminars/ Conferences Proceedings		Projects	01

Research Projects (Completed and Ongoing):

S.No.	Title	Funding Agency	Duration	Sanction order No. & Date	Amount in Rs. Lakh	Completed/ongoing
1.	Hydration characteristics of ecofriendly cement and concrete in presence of polycarboxylate type superplasticizer	UGC	02 Years	F.30-56/2014(BSR) Dated : 04/08/2014,	6 lacs	Completed

PUBLICATIONS :

National Publications(Details of Research Papers):

Year (From 2013 to 2020)	(Name of the author(s), title, name of the journal, vol. no. , page no.,Month/year, ISSN and impact factor, if any)
2013	
2014	1.Rai Sarita , Science of the Century-Nanoscience, J.Sc.Tech.Res., 2014 , 4, 37.ISSN : 2278-3350 2.Jairam Singh, Rai Sarita and Singh N.B.,(2014) Phase equilibria and crystallization behavior of succinonitrile -8 -hydroxyquinoline eutectic system.Chemical Engineering & Process Techniques,2(1):1024(ISSN:2333-6633)
2015	Rai Sarita and ArchnaPandey,PortlandCement:An Unique Construction Material <i>Madhya Bharti Research Journal</i> 2015 , Vol-59, page no.89.
2016	Rai Sarita & Shivani Tiwari,Sugarcane bagasse ash and its role during the hydration of Portland cement,J.of Sci &Tech.Research Vol 6(1), 2016 ,ISSN:2278-3350

International Publications(Details of Research Papers):

Year (From 2013 to 2020)	(Name of the author(s), title, name of the journal, vol. no. , page no.,Month/year, ISSN and impact factor, if any)
2013	
2014	N.B. Singh, Ashwani Kumar and Rai Sarita , (2014) Potential production of Bioenergy from Biomass in an Indian perspective, Renewable and Sustainable Energy Reviews, 39,65-78. (IF-10.556)
2015	N.B. Singh, MeenuKalara, Mukesh Kumar and Rai Sarita , Journal of Thermal Analysis and Calorimetry, (2015)119:381-389(IF-2.471)
2016	B.P.Choudhary, Rai Sarita and N.B.Singh, Properties of silver phosphate glass doped with nanosize

	zinc oxide,Ceramics International,42(2016), 10813-10825,IF-3.450
2017	Rai Sarita and Shivani Tiwari,Effect of boric acid on the hydration of rice husk ash blended cement,Materials today proceedings,Vol-4, 5613-5619(2017)(IF: 0.97)
2018	
2019	Nakshatra B.Singh, Sunil Kumar Saxena, Mukesh Kumar and Sarita Rai,Geopolymercement:synthesis,characterization,properties and applications,Materials Today: Proceedings 15 (2019) 364–370 (IF:0.97)
2020	N.B.Singh, Mukesh Kumarand Sarita Rai ,Geopolymer cement and concrete: PropertiesMaterials Today: Proceedings(In Press),(IF: 0.97)

Invited Lectures delivered (*Outside University*) with title, date and place:

Year (From 2013 to 2020)	
	1. Chemistry of Portland cement, INTERNATIONAL CONFERENCE ON MULTIFUNCTIONAL MATERIALS, ENERGY AND ENVIRONMENT, Organized jointly by Sharda University, Greater Noida, India and Federal Polytechnic, OKO, Nigeria, 21-23 August, 2013 2. Dicalcium Silicate of Nanodimension, National conference on Advanced Materials, Sharda University Greater Noida,8-9 August 2014. 3. Composite cements and their hydration,International conference on Futuristic materials and emerging trends in forensic and life sciences,organizes jointly by Post Graduate Teaching Department of Chemistry, RashtrasantTukadoji Maharaj Nagpur University, Nagpur, India, S.K.Porwal College, Kamptee, Nagpur, India and Institute of Forensic Science Nagpur, India from 5-7 Febraury 2015 at Hotel Centre Point, Central Bazaar Road, Ramdaspath, Nagpur. 4. Delivered lecture on “<i>Supplementary Cementitious Materials during the Hydration of Portland Cement</i>”, in the National Conference on Solid State Chemistry and Allied Areas (ISCAS-2015) Delhi University, 8th to 10th May,2015. 5. Blended Cement- A Green Cement,International conference on Multifunctional Materials for Future Applications (ICMFA) organizes by Department of Chemistry,27-29 Oct, 2015 held at IIT-Banaras Hindu University. 6. Chemical admixtures in cement and concrete,1st National conference on Cementitious Material (NCCM),organized by cement concrete research & development center,6-7 Feb, 2016 at JK Lakshmi Cement LTD Jhajjar- Haryana. 7. Ecofriendly cements and their hydration,National Conference on Advanced Materials and Its Future Prospective,organized by dept of Chemistry held at Marwar Business School Gorakhpur 17-18 January,2016 8. Properties of cementitious materials at nano scale,21-22 Oct,2016,National conference on Industrial materials(NCIM-2016) at Sharda University,Greater Noida-U.P. 9. Nanoscience of cementitious materials,International conference on Multifunctional Materials for Device Application (ICMDA-2016),organized by Dept of Physics,26-28 Oct,2016 at National Institute of Technology, Patna-Bihar. 10. Green cements and their hydration,10th National conference on Solid State Chemistry and Allied Areas (ISCAS-2017),organized by Dept of Applied Physics,1-3 July,2017 at Delhi Technological University in association with Indian Association of Solid State Chemistry and Allied Scientists. 11. Solution combustion synthesis : Best parameters for better materials,National conference on recent trends &admanagements in chemical sciences organized by University of Delhi,29-31st March 2019

No. of Ph.D. Awarded: 01

No. of Ph.D. Scholars working: 01

Memberships in Academic Bodies:

• Life Member of Indian Association of Solid State Chemists and Allied Scientists, Jammu	• Member of SPES
• Lifetime Membership of Society for Materials Chemistry (SMC).LM-857	•

Other Academic Achievements :

(i) Reviewer of the Journal(s) (With details of the journal(s) and duration)
• Materials Today Proceedings
• Journal of Scientific & Industrial Research-CSIR