

FACULTY PROFILE



Name	Dr. Kalpataru Das					Date of Birth: 02.05.1977				
Designation	Assistant Professor				Date of holding Present Post			18.09.2013		
Name of the Department and School	Department of Chemistry, School of Chemical Sciences and Technology									
Contact Details	Email :kalpatarud@gmail.com					Mobile:9407265521				
Additional Responsibility in the university, if any	Teacher In-charge of Sophisticated Instrument for GC-TOFMS, SIC Teacher In-charge of Sophisticated Instrument (HPLC-QTOF), SIC									
Educational Qualifications (UG onwards)	2008 -Ph.D. Synthetic Organic Chemistry, Advisor: Prof. Manas K. Ghorai, IIT Kanpur. 2001 - M.Sc. Specialization in Organic Chemistry, University of Calcutta. 1999 - B.Sc. Chemistry (Hons.), University of Calcutta.									
Past Employment	Aug 2012 to May 2013 - Assistant Professor (ad-hoc), , Department of Chemistry, Guru Ghasidas University, A Central University, Bilaspur (C.G.), India. Jan 2012 to May 2012 - Senior Research Scientist, TCG Lifesciences Limited (Chembiotek), Kolkata, India. Nov2009 to Oct 2011 - GCOE Post-Doctoral Researcher (Specially appointed Assistant Professor), Graduate School of Engineering Science, Osaka University, Japan. Jan 2008 to Aug 2009 - Post-Doctoral Research Fellow,University of Siegen, Germany									
Research Area/Specialization	Organic Synthesis, Asymmetric Synthesis, Catalysis, Green Chemistry, Synthesis of Organofluorine Compounds and Bio-Active Molecules.									
Awards/ Honors / Fellowship Conferred (With details thereof)	2009 – 2011Global COE Post-Doctoral Fellowship, Osaka University, Japan 2008 – 2009 Postdoctoral Research Fellowship, University of Siegen, Germany 2001 – NET-JRF, CSIR, India 2001 – GATE MHRD, India									
Summary of Publications (Number only)	Research Papers	23	Books		Chapter in Books		Seminars/ Conferences Proceedings		Projects	02

Research Projects (Completed and Ongoing):

S.No.	Title	Funding Agency	Duration	Sanction order No. & Date	Amount	Completed/on going
1.	Catalytic Asymmetric Electrophilic Fluorination of Active Methylene Compounds via Cinchona Alkaloid Derived Chiral Phase Transfer Catalysts	SERB-DST	03 Years	EMR/2017/000234 dated 20 July, 2017	Rs.40,27,980	ongoing
2.	Study of Enantioselective Synthesis of Fluorinated and Trifluoromethylated Quaternary alpha Amino Acids via Chiral Phase Transfer Catalysis	UGC, New Delhi	02 Years	No.F.30-56/2014 (BSR) dated 06 Aug, 2014	Rs.6,00,000	completed

PUBLICATIONS- 2013 onwards :

International Publications (Details of Research Papers- 2013 onwards):

2013	- Debabrata Samanta, Mehmet Emin Cinar, Kalpataru Das, Michael Schmittl, "Nonstatistical Dynamic Effects in the Thermal C²–C⁶ Diels–Alder Cyclization of Enyne–Allenenes", <i>The Journal of Organic Chemistry</i>, 78, 1451-1462. 02/2013, ISSN: 0022-3263, Impact Factor: 4.745. - Thomas Sirtl, Jelena Jelic, Jörg Meyer, Kalpataru Das, Wolfgang M. Heckl, Wolfgang Moritz, John Rundgren, Michael Schmittl, Karsten Reuter and Markus Lackinger, "Adsorption structure determination of a large polyaromatic trithiolate on Cu(111): combination of LEED-I(V) and DFT-vdW", <i>Physical Chemistry Chemical Physics</i>, 15, 11054-11060, 05/2013, ISSN: 1463-9076, Impact Factor: 3.567.
2015	Manas K. Ghorai, Subhomoy Das, Kalpataru Das, Amit Kumar, "Stereoselective synthesis of activated 2-arylazetidines via imino-aldol reaction" <i>Organic & Biomolecular Chemistry</i>, 13, 9042-9049, 07/2015, ISSN: 1477-0539, Impact Factor: 3.490.
2016	Atena Rastgoo-Lahrood, Natalia Martsinovich, Matthias Lischka Johanna Eichhorn, Pawel Szabelski, Damian Nieckarz, Thomas Strunskus, Kalpataru Das, Michael Schmittl, Wolfgang M. Heckl, Markus Lackinger, "From Au–Thiolate Chains to Thioether Sierpiński Triangles: The Versatile Surface Chemistry of 1,3,5-Tris(4-mercaptophenyl)benzene on Au(111)" <i>ACS Nano</i>, 10, 10901-10911. 11/2016, ISSN: 1936-0851, Impact Factor: 13.903.

2017	Sonam Bhargava, Nilanjan Adhikari, Sk. Abdul Amin, Kalpataru Das, ShovanlalGayen, Tarun Jha, "Hydroxyethylamine derivatives as HIV-1 protease inhibitors: a predictive QSAR modelling study based on Monte Carlo optimization", <i>SAR and QSAR in Environmental Research</i>, 28, 973-990, 10/2017, ISSN: 1029-046X, Impact Factor: 2.287.
2018	- Kavita Jain and Kalpataru Das*, "A convenient method for the synthesis of fluorinated α-cyanoacetates via phase-transfer catalysis", <i>Synthetic Communications</i>, 48, 1966-1973, 06/2018, ISSN: 1532-2432, Impact Factor: 1.439. - Ruchi Gaikwad, SoumajitGhorai, Sk Abdul Amin, Nilanjan Adhikari, Tarun Patel, Kalpataru Das, Tarun Jha, ShovanlalGayen. "Monte Carlo based modelling approach for designing and predicting cytotoxicity of 2-phenylindole derivatives against breast cancer cell line MCF7", <i>Toxicology in Vitro</i>, 52, 23-32, 06/2018, ISSN: 0887-2333, Impact Factor: 3.067.
2019	- Kavita Jain, Saikat Chaudhuri, Kuntal Pal, Kalpataru Das*, "The Knoevenagel condensation using quinine as an organocatalyst under solvent-free conditions." <i>New Journal of Chemistry</i>, 43, 1299-1304, 01/2019, ISSN: 1369-9261, Impact Factor: 3.069. - Tarun Patel, Ruchi Gaikwad, Kavita Jain, Routholla Ganesh, Yamini Bobde, Balaram Ghosh, Kalpataru Das*, ShovanlalGayen*, "First report on 3-(3-oxoaryl) indole derivatives as anticancer agents: microwave assisted synthesis, in vitro screening and molecular docking studies" <i>ChemistrySelect</i>, 4, 4478-4482, 4/2019, ISSN: 2365-6549, Impact Factor: 1.716. - Ruchi Gaikwad, Yamini Bobde, Routholla Ganesh, Tarun Patel, Anju Rathore, Balaram Ghosh, Kalpataru Das*, ShovanlalGayen*, "2-Phenylindole derivatives as anticancer agents: synthesis and screening against murine melanoma, human lung and breast cancer cell lines", <i>Synthetic Communications</i>, 49, 2258-2269, 06/2019, ISSN: 1532-2432, Impact Factor: 1.439.
2020	Mithun Kumar Ghosh, Kavita Jain, Siddique Khan, Kalpataru Das*, Tanmay Kumar Ghorai*, "New Dual-Functional and Reusable Bimetallic Y_2ZnO_4, Nanocatalyst for Organic Transformation under Microwave/Green Condition", <i>ACS Omega</i>, 5, 4973-4981, 03/2020, ISSN: 2470-1343, Impact Factor: 2.584.

National Seminar/Conference/Workshops (Attended- 2013 onwards) - 10

2013	Attended in workshop on "Springer User Awareness Program", Organized by Department of Chemistry, Dr. HarisinghGour Vishwavidyalaya, Sagar, (M.P.) on 18.12.2013.
2014	Attended in workshop on "Nuclear Magnetic Resonance Spectroscopy", Organized jointly by Departments of Chemistry and Physics, Dr. HarisinghGour Vishwavidyalaya, Sagar, (M.P.) on 16.02.2014.
2014	Attended in workshop on "Molecular Modelling and Drug Design", Organized by Department of Chemistry, Dr. HarisinghGour Vishwavidyalaya, Sagar, (M.P.) during December 16-17, 2014.
2015	Participated as delegate in the SERB-DST, ICMR and MPCST sponsored National Seminar on "Emerging Frontiers and Challenges in Nanotechnology and Drug Design" (EFCNDD-2015) held on March 01, 2015 and organized by Department of Pharmaceutical Sciences, Dr. HarisinghGour Vishwavidyalaya, Sagar, (M.P.).
2016	Presented poster on "Asymmetric Electrophilic Fluorination Reactions via Organocatalysis" in the National Symposium on "Horizons of Light in Molecules, Material and Daily Life" during 18-19 December, 2015 organized by Department of Chemistry, Dr. HarisinghGour Vishwavidyalaya, Sagar. (MP).
2016	Presented poster on "Catalytic Enantioselective Electrophilic Fluorination Reactions" in the Science Fair and National Science Day Celebration - 2016" during 26 th February – 4 th March, organized by Dr. HarisinghGour Vishwavidyalaya, Sagar. (MP).
2016	Presented poster on "Direct Amination of Allylic Alcohols Catalyzed by Platinum Complexes" in the "18 th CRSI National Symposium in Chemistry" held from 5-7 th February, 2016 organized by Institute of Nano Science and Technology and Punjab University.
2019	Presented poster on "Green and Catalytic Approach for the Synthesis of Electrophilic Alkenes and Their Applications" in the National Seminar on Organic Chemistry Symposium (OCS-2019) during 13-14 September, 2019, co-organized by IIT Kanpur and IISER Bhopal, at Hyatt Regency, Lucknow, UP.
2020	Attended in workshop NAAC awareness Programme on "Quality Assessment and Accreditation under Revised Accreditation Framework (RAF)" Organized by Dr. HarisinghGour Vishwavidyalaya, Sagar. (M.P.) on 4 th February 2019.
2020	Attended in workshop on "Intellectual Property Rights (IPR)", Organized by Departments of Pharmaceutical Sciences, Dr. HarisinghGour Vishwavidyalaya, Sagar., (M.P.) on 10.02.2020.

International Seminar/Conference/Workshops (Attended) – 02

2017	Presented poster on "Cinchona Alkaloid Based Organocatalyst for Enantioselective Electrophilic Fluorination Reactions" in the international conference on Interface of Physical, Chemical, and Biological Sciences (IPCBS-2017) during 11-13 January, 2017 organized by Dr. HarisinghGour Vishwavidyalaya, Sagar.
2017	Presented poster on "Catalytic Electrophilic Fluorination of α -Cyano Ester via Phase Transfer Catalysis" in the international conference on Frontiers in Chemical Sciences (ICFCS-2017) during 16-18 March, 2017 organized by the Centre for Applied Chemistry, Central University of Jharkhand, Brambe, Ranchi.

National Seminar/Conference/Workshops (Organised- 2013 onwards) - 02

2015	Worked as a Treasurer in the National Science Day Celebration 2015 on the theme "Science for Nation Building" on 28 th February, 2015, Organized by Department of Chemistry, Dr. HarisinghGour Vishwavidyalaya, Sagar, (MP).
2016	Worked as a Treasurer in the National Science Day Celebration 2016 on the theme "Make in India: S&T Driven Innovation" during 26 th Feb – 4 th March, 2016, Organized by Dr. HarisinghGour Vishwavidyalaya, Sagar, (MP).

International Seminar/Conference/Workshops (Organized- 2013 onwards) - 01

2016	A six days MHRD-GIAN course on "Green and Sustainable Chemistry" was organized as Course Coordinator with Foreign Faculty Expert Professor Takashi Ohshima from Kyushu University, Japan under MHRD-Global Initiative of Academic Networks(GIAN)
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	during 25 Jan. to 30 Jan. 2016 at the Department of Chemistry, Dr. Harisingh Gour Vishwavidyalaya, Sagar.
No. of Patents Filed (with date, title and other details) - 02	
2020	Shovanlal Gayen, Umesh K. Patil, Kalpataru Das, Balaram Ghosh, Tarun Patel, Ruchi Gaikwad. 3-(3-oxoaryl) indole derivatives as anticancer agents and a process of synthesis thereof. Filed: 2020-04-01, Application No. TEMP/E-1/15474/2020-MUM, Indian Patent. Shovanlal Gayen, Umesh K. Patil, Kalpataru Das, Balaram Ghosh, Dipayan Mondal., 3-(1H-indol-3-yl)-1,3-diphenyl propan-1-one derivatives as anticancer agents and a process of synthesis thereof. Filed: 2020-04-01, Application No. TEMP/E-1/15487/2020-MUM, Indian Patent.
Invited Lectures delivered (<i>Outside University</i>) with title, date and place- 2013 onwards: 04	
2017	Delivered invited lecture on "Asymmetric Electrophilic Fluorination of Active Methylene Compounds using Cinchona Alkaloid based Chiral Phase Transfer Catalysts" in the international conference on Frontiers in Chemical Sciences (ICFCS-2017) during 16-18 March, 2017 organized by the Centre for Applied Chemistry, Central University of Jharkhand, Brambe, Ranchi.
2018	Delivered invited lecture on "Electrophilic Fluorination for the Synthesis of Organofluorine Compounds via Phase-Transfer Catalysis" in the National Seminar on Recent Developments in Chemical Sciences (RDSCS-2018) during 23-24 February, 2018 organized by the Department of Chemistry, Indira Gandhi National Tribal University, Amarkantak, M.P.
2019	Delivered invited lecture on "Organocatalytic Green Approach for the Synthesis of Electrophilic Alkenes and Their Applications" in the RSC sponsored symposium on "Recent Advances in Organic & Bio-organic Chemistry" (RAOBC) during 22-24 March, 2019 organized by the Department of Chemical Sciences, IISER Mohali, Punjab.
2020	Delivered invited lecture on "Green and Catalytic Approach for the Synthesis of Fine Chemicals and Their Applications" in the International Conference on Frontier Areas of Chemistry (ICFAC 2020), during 28-29 Feb. 2020, organized by the Department of Chemistry, School of Physical Sciences, Mahatma Gandhi Central University, Motihari, Bihar.
No. of Ph.D. Awarded:	01
No. of Ph.D. Scholars working:	01
Memberships in Academic Bodies: 02	
• The American Chemical Society – Regular Membership	•
• The Indian Science Congress Association - Life Membership	•
Other Academic Achievements :	
(i) Reviewer of the Journal(s) (With details of the journal(s) and duration)	
• Inorganic Chemistry (American Chemical Society) -2019	
• Organic Preparations and Procedures International (Taylor & Francis) - 2019	