

Dr. Alakananda Hajra

Associate Professor

Department of Chemistry, Visva-Bharati (A Central University)

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Research Activity:

Total 228 publications and 1 Patent; h-index 62; i10-index 190; total citation > 12,000

<https://scholar.google.co.in/citations?user=INjINy4AAAAJ&hl=en>

Development of synthetic methodologies

Ph. D supervised: 19 + 2 (submitted)

No. PhD students working: 06

Educational Qualifications:

B.Sc (Chemistry): 1996, University of Calcutta, Kolkata

M.Sc (Chemistry): 1998, Indian Institute of Technology (IIT) Kharagpur, India

PhD: 2003, Indian Association for the Cultivation of Science (IACS),
Kolkata, India

Ph.D. Supervisor: Prof. Brindaban C. Ranu

Title: 'Novel Synthetic Approaches to Heterocyclic and Carbocyclic
Compounds using Indium Halides and Other Simple Reagents'

Post-doctoral research experience:

Dec 2002-Nov 2004: SUNY at Albany, USA with Prof. Frank M. Hauser

Nov 2004-May 2006: The University of Tokyo with Prof. Eiichi Nakamura and Prof. M.
Nakamura as a JSPS post-doctoral research fellow

August 2011-July 2012: NTU, Singapore with Prof. Naohiko Yoshikai

July 2018-August 2018: ICR, Kyoto University (Uji Campus) with Prof. M. Nakamura as
a JSPS Bridge fellow

Professional Experiences:

June, 2006-May, 2018: Assistant Professor, Dept of Chemistry, Visva-Bharati University

June, 2018-continuing: Associate Professor, Dept of Chemistry, Visva-Bharati University

Awards and Honors

- ❑ **Professor D Nasipuri Memorial lecture Award** for the year 2019 by **Indian Chemical Society**
- ❑ CAS REGISTRY® Innovator
- ❑ Chemical Research Society of India (**CRSI**) **Bronze Medal** award for the year **2018**
- ❑ Japan Society for the Promotion of Science (**JSPS**) Bridge Fellowship, 2018
- ❑ **“Professor D.K. Banerjee Memorial Lecture Award”** in 2015 from the Dept of Organic Chemistry, Indian Institute of Science (IISc), Bangalore for the notable contributions in Methodologies in Heterocyclic Chemistry
- ❑ **Thesis advisor** for Eli Lilly and Company **Asia Outstanding Thesis** Awardee, 2014
- ❑ Japan Society for the Promotion of Science (**JSPS**) Post Doctoral Fellowship, 2004
- ❑ Three years **membership award** for American Chemical Society (**ACS**), **2015**
- ❑ One of the **top 10 Reviewers** for Organic & Biomolecular Chemistry (**OBC**) in 2016
- ❑ The **excellent poster Award** of the 11th Tetrahedron Symposium-Frontiers of Organic Chemistry, Beijing China, 22-25 June 2010
- ❑ Qualified National Eligibility Test (**NET**), Council of Scientific and Industrial Research (**CSIR**) for Lectureship and Fellowship, Govt. of India, 1998.

Invited Lectures delivered in India and abroad:

1. National Workshop on Green Chemistry during December 27-28, 2012 organized by Dept of Chemistry, Sripat Singh College, Murshidabad, WB.
2. National Seminar on Green Chemistry during February 1-2, 2013 organized by Dept of Chemistry, Panchakot Mahavidyalay, Purulia, WB .
3. National Seminar on Organocatalysis during March 23-24, 2013 organized by Dept of Chemistry, P K College, Contai, WB.
4. International Conference on Harnessing Natural Resources for Sustainable Development during January 29-31, 2014, Cotton College, Guwahati.
5. National Seminar on Chromatography organized by Dept of Chemistry, P K College, Contai, WB on 24 July, 2014.
6. National Symposium on Transcending Frontiers in Organic Chemistry (TFOC-2014)

- during October 9-11, 2014 Organized by CSIR-NIIST, Trivandrum.
7. National Symposium on Frontiers in Chemical Sciences (FICS-2014) during December 04-06, 2014 Organized by Dept of Chemistry, IIT-Guwahati, Guwahati.
National Symposium on Current Trends in Synthetic Organic Chemistry organized by Dept of Chem., IIT Kharagpur on 13th Jan, 2015.
 8. National Seminar on Green Chemistry organized by Gushkara Mahadidyalay, Burdwan University, WB on 22th March, 2015.
 9. XVII-Organic Chemistry Conference organized by NOST during October 27-30, 2015, at Hotel Le Meridien, Jaipur.
 11. 52nd Annual Convention of Chemists during December 28-30-2015 coordinated by the Indian Chemical Society in JECRC, University, Jaipur, Rajasthan.
 12. "Professor D.K. Banerjee Memorial Lecture Award" of the Dept of Org. Chem., IISc in 2015 on 19th January, 2016.
 13. National Seminar on Design, synthesis, interactions, and activities of different functional molecules 4-6th February, 2016 organized by the Dept of Chem., Burdwan University, WB
 14. National seminar on Current Perspective in Chemical Research organized by Dept. of Chemistry, University of Calcutta on 30th March, 2016.
 15. National Conference on Organic Chemistry in Sustainable Development organized by BITS, Pilani during August 29-30, 2016
 16. National Conference on New Frontiers in Chemistry organized by Department of Chemistry, BITS Goa during January 28-19, 2017
 17. National Symposium on Emerging Trends in Chemical Science organized by Dept of Chem., University of Kolkata on 30th March, 2017.
 18. International symposium on Chemical Science organized by Dept of Chem., Burdwan Raj College, Burdwan University on 10th October, 2017
 19. International symposium on Material Chemistry for Better Tomorrow organized by Dept of Chem., Asutosh College, Calcutta University on 7th November, 2017
 20. 22nd CRSI Symposium in Chemistry organized by Pt. Ravishankar Shukla University, Raipur during 2-4th Feb., 2018
 21. Dept of Chemistry (ICR), Uji, Kyoto University, Japan on 10-07-2018
 22. Dept of Chemistry, Kanagawa University, Japan on 19-07-2018

23. Dept of Chemistry, Tokyo University, Japan on 20-07-2018
24. Dept of Chemistry, Kyushu University, Japan on 27-07-2018
25. Dept of Chemistry, Kyoto University (Yoshida), Japan on 02-08-2018
26. Key note-speaker in International symposium on Modern Synthetic Methodologies for the Creation of Drugs and Functional Materials (MOSM 2018) at Ural Federal University, Yekaterinburg, Russia during Nov 15-17, 2018
27. National symposium on Recent Developments in Chemistry-2018 (RDC-2018) by Dept of Chem., NIT-Durgapur, Calcutta University during December 17-19, 2018
28. International Conference on Chemical & Biological Sciences in Drug Discovery-2019 in The Dept of Chemistry, Berhampur University, Odisha during March 8-10, 2019
29. Recent Advances in Organic and Bioorganic Chemistry (RAOBC) organized by the Dept of Chemical Sciences, IISER Mohali in association with RSC during March 22-24, 2019.
30. National Seminar on Emerging Trends in Chemical Sciences organized by Jadavpur University on January 07, 2020
31. International Seminar (ICBS-2020) on Innovation, Expansion, Impacts and Challenges in Chemical and Biological Sciences organized by Surendranath College, Calcutta university during 8-9 January, 2020.
32. International Conferences on Chemistry for Human Development (ICCHD-2020) organized by PACF, University of Calcutta and HIT, Kolkata during 9-11 January, 2020.
33. International Conferences on Emerging Trends in Catalysis & Synthesis organized by Dept of Chemistry, IIT-Kharagpur during 11-12 March, 2020.
34. International Webinar on New Horizons in Chemistry (IWNHC 2020) organized by Dept of Chemistry, Bankura University during 22-24 August, 2020.
35. International Webinar on Frontiers in Chemistry organized by Dept of Chemistry, North Bengal University on 1st October, 2020.
36. Webinar entitled "Concepts in Organic & Medicinal Chemistry" at National Institute of Technology, Manipur during 6-10 November, 2020.
37. International Webinar on "Modern Synthetic Methodologies for Creating Drugs and Functional Materials (MOSM2020)" in Yekaterinburg, Russia during November 16-20, 2020

38. International Webinar on 57th Annual Convention of Chemists (ACC) by Indian Chemical Society (ICS) in IISER, Kolkata during 27th to 29th December, 2020.
39. International Webinar on "The Present and Future of Excellence in Organic Synthesis (PFEOS-2021)" by Department of Chemical Sciences, Tezpur University during January 8-9, 2021.
40. Refresher Course in Chemistry (Theme: *Recent Advances in Chemistry*) as a Resource Person organized by HRDC, Calcutta University during March 16 – March 31, 2021.
41. Refresher Course in Chemistry as a Resource Person organized by HRDC, Guru Ghasidas Vishwavidyalaya, Bilaspur during August 23 – September 4, 2021
42. International Webinar on "Modern Trends in Chemical and Material Sciences (MTCMS-2021)" by Department of Chemistry, ICFAI University Tripura during September 20-24, 2021.
43. International Webinar on "Modern Synthetic Methodologies for Creating Drugs and Functional Materials (MOSM2021)" in Yekaterinburg, Russia during November 8-12, 2021.
44. Symposium on the Emerging Topics in the Interdisciplinary and Applied Sciences in IACS, Kolkata during March 25-26, 2022.
45. International webinar on "Recent trends in photochemistry" in St. Joseph's College (Autonomous), Karnataka, India on 14th May, 2022.
46. Invited talk at Department of Chemical Sciences, Indian Institute of Science Education and Research Kolkata on 31st August, 2022.
47. Invited talk in 59th Annual Convention of Chemists (ACC) by Indian Chemical Society (ICS) at Department of Chemistry and Chemical Biology, Indian Institute of Technology (ISM) Dhanbad.during December 16 – 18, 2022.
48. Invited talk in International Conference on "Recent Advances on Green and Sustainable Developments (RAGSD 2023)" organised by the Department of Chemistry, Akal University during 6-8th September, 2023.
49. Invited talk at the Frontiers in Organic Chemistry Symposium-V, organized by the Biocon Bristol Myers Squibb R & D Center (BBRC) in Bangalore on Tuesday September 12th, 2023.
50. Invited talk at 4th Frontiers Symposium in Chemistry (FS-CHM 2024) conducted by School of Chemistry (SoC) at IISER TVM from the 19th to the 21st of January 2024.

51. Invited talk at Conference on Recent Trends in Chemical Science and Technology (RTCST) organized Department of Chemistry, Indian Institute of Technology Patna, on the 1st and 2nd of March, 2024.
52. Invited talk at International Conference on Recent Advances on Green Catalysis and Drug Discovery (ICRAGCDD 2024) organized by Akal University, Punjab during 4-6th September 2024
53. Invited talk in the International seminar on "CURRENT TRENDS IN GREEN CHEMISTRY" organized by Department of Chemistry, Bhatler College, Dantan, WB on 16.09.2024.
54. Invited talk in International Conference on Photochemistry and Industry, 2014 at Wuhan, China during 11-14 October, 2024.
55. Invited talk in International Symposium on C-H Activation (ISCHA-7) at IIT Bombay during December 6-9, 2024.
56. Invited talk in 61st Annual Convention of Chemists (ACC) by Indian Chemical Society (ICS) JECRC University, Jaipur during 19-21 December, 2024.
57. Invited talk at NOST-OCC-2025 in Agra during 3-6 March, 2025
58. Invited talk in National Seminar on Recent Advancement in Chemistry: From Molecule to Material (RACMM-2025) organized by the Department of Chemistry, Sidho-Kanho-Birsha University Purulia on 07 May, 2025.

Book Chapter:

1. Cross Dehydrogenative Coupling in the Synthesis and Functionalization of Fused Imidazoheterocycles. Avik K. Bagdi and Alakananda Hajra* (Heterocycles via Cross-Dehydrogenative Coupling; Edited by Ananya Srivastava and Chandan K. Jana © 2019 Springer; ISBN: 978-981-13-9143-9); DOI: 10.1007/978-981-13-9144-6_4.
2. Iron-Catalyzed C–H Functionalization to form C–C and C–Heteroatom Bonds. Susmita Mondal, Sadhanendu Samanta, and Alakananda Hajra* (Handbook of CH-Functionalization, Edited by Debabrata Maiti. © 2023 WILEY-VCH GmbH); DOI: 10.1002/9783527834242.chf0048.

3. Zwitterionic imidazolium salt: an effective green organocatalyst in synthetic chemistry. Sumit Ghosh, Debashis Ghosh and Alakananda Hajra* (Organocatalysis Edited by Bimal Krishna Banik and Bubun Banerjee © 2022 Walter de Gruyter GmbH, Berlin/Boston; ISBN 978-3-11-073753-0) <https://doi.org/10.1515/psr-2021-0018>.
4. Gold nanoparticles as promising catalyst for electrochemical CO₂ reduction in aqueous medium. Debashis Ghosh, Sumit Ghosh, Alakananda Hajra* (Aqueous Mediated Heterogeneous Catalysis Edited by Asit K. Chakraborti and Bubun Banerjee; © 2022 Walter de Gruyter GmbH, Berlin/Boston; ISBN 978-3-11-073845-2); <https://doi.org/10.1515/9783110733846-006>.
5. Visible-light-mediated metal-free C–Si bond formation reactions. Sumit Ghosh and Alakananda Hajra* (Green-Bond Forming Reactions Edited by Rakesh Kumar Sharma and Bubun Banerjee © 2022 Walter de Gruyter GmbH, Berlin/Boston; ISBN 978-3-11-075949-5) <https://doi.org/10.1515/psr-2021-0087>
6. Green and Sustainable Chemistry: A New Blossoming Area to Solve Multiple Global Problems of Environment and Economy. Sumit Ghosh and Alakananda Hajra* (Economic, Environmental and Health Consequences of Conservation Capital Edited by R.C. Das Springer, Singapore; **2023**; ISBN 978-981-99-4136-0 https://doi.org/10.1007/978-981-99-4137-7_13
7. Nano Copper-Catalyzed Coupling Reactions. Modhusudhan Mondal, Sumit Ghosh, and Alakananda Hajra* (*ACS Symposium Series* Vol. 1466 **eISBN**: 9780841296817, *Copper-Based Nanomaterials in Organic Transformations*; **2024**) Chapter 9 pp 231-256. **DOI**: 10.1021/bk-2024-1466.ch009
8. Green synthesis of bioactive imidazo[1,2-a]pyridines. Frenki Mahato, Sumit Ghosh, Asim Kumar Ghosh, and Alakananda Hajra* (*Bioactive Five-Membered*

Heterocycles: Natural Products, Green Synthesis and Bioactivity, edited by Asit K. Chakraborti and Bubun Banerjee, Berlin, De Gruyter, **2025**; eBook ISBN: 9783111387529) Chapter 16 pp 493-510. doi.org/10.1515/9783111387529-016

9. Photoinduced Synthesis of Imidazopyridines and Imidazothiazoles. Sumit Modhusudhan Mondal, Sudip Laru, S., Alakananda Hajra* (In Topics in Heterocyclic Chemistry. Springer, Berlin, Heidelberg; **2025**; ISSN: 1861-9282) doi.org/10.1007/7081_2025_83

List of Publications (<http://scholar.google.co.in/citations?user=INjINy4AAAAJ&hl=en>)

Total **228** publications and **1** Patent; *h*-index **62**; *i10*-index **190**; total citation > **12,000**

Publication from Department of Chemistry, Visva-Bharati University

228. Diverse Synthesis of Azoles: Construction of ortho-Azidotetrazoles/Triazole-tetrazoles through N-N Cleavage of 2H-Indazoles. . Laru, L.; Bhattacharjee, S. and Hajra,* A. *Adv. Synth. Catal*, **2025**, e202401423.
227. Cu(I)-Catalyzed Silylation and Germylation of Azauracils. Mahato, F.; Ghosh, A. and Hajra,* *Chem. Eur. J.* **2025**, e202403685.
226. Synthesis of 1,2-Oxaborole via Base-Mediated Borylation of Propynols. Ghosh, S.; Laru, S.; Singsardar, M.; Hajra, A.* *Org. Chem. Front.*, **2025**; doi: <https://doi.org/10.1039/D5QO00709G>.
225. Copper-Catalyzed Carbogermylation of Electron-Deficient Alkenes via 3,4-Difunctionalization of Quinoxalin-2(1*H*)-ones: Mechanistic Insights from Computational Studies. Ghosh, A. K.; Mondal, A.; Neogi, S.; Mahato, F.; Bhunya, S; Roy, L; Hajra, A.* *Chem. Eur. J.* **2025**, e202404186.
224. Manganese-Catalyzed Electrochemical Amination of Activated Alkenes. Karan, A; Ghosh, S; Hajra, A.* *Chem. Asian J.* **2025**, e202401935.
223. The organophotocatalytic trifluoromethylation of 6-azauracils. Das, K. K. and Hajra,* A. *RSC Adv.*, **2025**, 15, 11370.
222. Photocatalytic Difunctionalization of [1.1.1]Propellane. Das, T.; Mohar, K. and Hajra,* A. *Chem. Rec.*, **2025**, 25, e202500018.

221. Synthesis of Silylated N1-Oxide Azauracils via Metal-free Direct Silylation. Mahato, F.; Ghosh, A. K. and Hajra,* A. *Synlett.* **2025**, 36, doi: 10.1055/a-2566-7469.
220. C–H Functionalization of Quinoxalines. Laru, S.; Ghosh, S. and Hajra,* A. *Synlett.* **2025**, 36, 808.
219. Silylarylation of Alkenes *via meta*-Selective C–H Activation of Arenes under Ruthenium/Iron Cooperative Catalysis: Mechanistic Insights from Combined Experimental and Computational Studies. Neogi, S.; Bhunya, S.; Ghosh, A. K.; Sarkar, B.; Roy, L. and Hajra*, A. *ACS Catal.* **2024**, 14, 4510.
218. Hydro-phosphorothiolation of Styrene and Cyclopropane with *S*-Hydrogen Phosphorothioates under Ambient Conditions. Sarkar, B. and Hajra,* A. *Org. Lett.* **2024**, 26, 5141.
217. Unusual Regioselective C–H Difluoroalkylation of Heteroarenes under Photoredox Catalysis. Laru, S.; Ghosal, S.; Sarkar, P. and Hajra,* A. *Org. Lett.* **2024**, 26, 5098.
216. Non-directed oxidative annulation of 2-arylindazoles with electron deficient olefins *via* visible light photocatalysis. Das, K. and Hajra,* A. *Chem. Commun.* **2024**, 60, 10402.
215. Iodine (iii)-promoted oxidative carbotrifluoromethylation of maleimides with imidazopyridines and Langlois' reagent. Lai, D.; Bhattacharjee, S. Mandal, S.; Ghosh, S. Sahoo, P.; Sinha, S. and Hajra,* A. *Chem. Commun.* **2024**, 60, 2232.
214. Site-Selective Direct Nitration of 2H-Indazoles: Easy Access to 7-Nitroindazoles. Bhattacharjee, S. and Hajra,* A. *Chem. Commun.* **2024**, 60, 4076.
213. Metal-Free Synthesis of C-3-Alkoxy carbonylated 2H-Indazoles Using Alkyl Carbazates. Lai, D.; Bhattacharjee, S.; Ghosh, S.; Sinha, S. and Hajra,* A. *Synlett.* **2024**, 35, 2477.
212. Visible-light-induced redox-neutral difunctionalization of alkenes and alkynes. Mondal, S.; Ghosh, S. and Hajra,* A. *Chem. Commun.* **2024**, 60, 9659.
211. Photochemical and Electrochemical Synthesis of Oxazoles and Isoxazoles: An Update. Ghosh, D.; Sherin, A.; Ghosh, S.; Kalose, S. A. Hajra,* A. *Adv. Synth. Catal.* **2024**, 366, 2186.
210. C–H Functionalization of Heteroarenes via Electron Donor-Acceptor Complex Photoactivation. Mondal, M.; Ghosh, S.; Lai, D. and Hajra* A. *ChemSusChem.* **2024**, e202401114.

209. Skeletal Editing through Molecular Recombination of 2*H*-Indazoles to Azo-Linked-Quinazolinones. Bhattejee, S. and Hajra,* *Chem. Eur. J.* **2024**, e202303240
208. An Electrochemical Oxo-amination of 2*H*-Indazoles: Synthesis of Symmetrical and Unsymmetrical Indazolyindazolones. Mondal, K.; Ghosh, P. and Hajra,* *Chem. Eur. J.* **2024**, e202303890.
207. One-pot Manganese (I)-Catalyzed Oxidant-Controlled Divergent Functionalization of 2-Arylindazoles. Das, K. K.; Ghosh, A. and Hajra,* *Chem. Eur. J.* **2024**, e202302849.
206. Silylation of 2*H*-indazoles by photoinduced hydrogen atom transfer catalysis. Das and Hajra,* *A. Org. Biomol. Chem.*, **2024**, 22, 1034.
205. Electrochemical C–H Sulfonylation of Hydrazones. Sarkar, B. Ghosh, P. and Hajra,* *A. Org. Lett.* **2023**, 25, 3440.
204. Imino- λ^3 -iodane-Triggered Oxidative Ring-Opening of 2*H*-Indazoles to *ortho*-*N*-Acylsulfonamidated Azobenzenes. Bhattejee, S. and Hajra,* *A. Org. Lett.* **2023**, 25, 4283.
203. Redox-neutral carbon–heteroatom bond formation under photoredox catalysis. Ghosh, S.; Majumdar, S. Ghosh, D. Hajra,* *A. Chem. Commun.* **2023**, 59, 7004.
202. Synergistic Photoredox and Iron(II) Catalyzed Carbophosphorothiolation of Vinyl Arenes. Ghosh, A. K.; Neogi, S.; Ghosh, P. and Hajra,* *A. Adv. Synth. Catal.* **2023**, 365, 2271.
201. Aerobic Cu(I)-Catalyzed Site-Selective 1,3-Difunctionalization of Indazole through Cascade C–N and C–O Bond Formation. Das, K. K.; Ghosh, A.; Mallick, T. and Hajra,* *A. Adv. Synth. Catal.* **2023**, 365, 388.
200. Visible Light Induced Three-Component 1,2-Dicarbofunctionalization of Alkenes and Alkynes. Mohor, M.; Ghosh, S. and Hajra,* *A. Chem. Rec.*, **2023**, 23, e202300121
199. Visible light-induced organophotoredox-catalyzed difunctionalization of alkenes and alkynes. Gupta, S.; Kundu, A.; Ghosh, S.; Chakraborti, A. and Hajra,* *A. Green Chem.*, **2023**, 25, 8459.
198. *N*-Heteroarylation of Sulfonamides: An Overview. Ghosh, S.; Pal, P. P. and Hajra,* *A. Adv. Synth. Catal.* **2023**, 365, 3020.
197. Recent advances in carbosilylation of alkenes and alkynes. Pal, P. P.; Ghosh, S. and Hajra,* *A. Org. Biomol. Chem.*, **2023**, 21, 2272.

196. Visible-light-induced cascade reaction: a sustainable approach towards molecular complexity. Ghosh, S.; Pyne, P.; Ghosh, A.; Chowdhury, S. and Hajra,* A, *Org. Biomol. Chem.*, **2023**, *21*, 1591.
195. Visible-light-induced Mn(0)-catalyzed direct C-3 mono-, di- and perfluoroalkylation reactions of 2*H*-indazoles. Laru, S.; Bhattacharjee, S. and Hajra,* A, *Chem. Commun.* **2022**, *58*, 13604.
194. Remote difunctionalization of 2*H*-indazoles using Koser's reagents. Bhattacharjee, S.; Laru, S. and Hajra,* A, *Chem. Commun.* **2022**, *58*, 981.
193. Visible light induced functionalization of indazole and pyrazole: A recent update. Ghosh, D.; Ghosh, S.; Ghosh, A.; Pyne, P.; Majumdar, S. and Hajra,* A, *Chem. Commun.* **2022**, *58*, 4435.
192. Organocatalytic Oxidative C–H Amination of Aldehyde Hydrazones with Azoles at Ambient Temperature. Ghosh, A. K; Neogi, S.; Das, K. and Hajra,* A. *J. Org. Chem.*, **2022**, *87*, 5682.
191. Electrochemically Enabled Dehydrogenative Phosphorothiolation of 2*H*-Indazoles under Electrolyte-Free Conditions. Ghosh, P. and Hajra,* A, *Adv Synth Catal*, **2022**, *364*, 4157.
190. Visible-light-induced metal-free coupling of C(sp³)-H sources with Heteroarenes. Ghosh, A.; Pyne, P.; Ghosh, S.; Ghosh, D.; Majumdar, S. and Hajra,* A, *Green Chem.*, **2022**, *24*, 3056.
189. Hypervalent Iodine(III)-Mediated Oxidative Dearomatization of 2*H*-Indazoles towards Indazolyl Indazolones. Bhattacharjee, S.; Laru, S. and Hajra,* A. *Org. Biomol. Chem.*, **2022**, *20*, 8893.
188. Transition-metal-catalyzed ortho C–H functionalization of 2-arylquinoxalines. Mondal. K.; S. Ghosh. and Hajra,* A. *Org. Biomol. Chem.*, **2022**, *20*, 7361.
187. Asymmetric C(sp³)–H Borylation: An Update. S. Ghosh.; Ghosh, A.; Pyne, A. and Hajra,* A. *Org. Biomol. Chem.*, **2022**, *20*, 4496.
186. Recent Advances in Microwave-assisted Cross-Coupling Reactions. Rahman, M.; Ghosh, S.; Bhattacharjee, D.; Zyryanov, G. V.; Bagdi, A. K. and Hajra,* A. *Asian J. Org. Chem.*, **2022**, e202200179.
185. *Ortho* C–H Functionalizations of 2-Aryl-2*H*-Indazoles. Ghosh, S.; Payne, P.; Ghosh, A. and Hajra,* *Chem. Rec.*, **2022**, *22*, doi.org/10.1002/tcr.202200158.

184. Late-stage *ortho*-C–H alkenylation of 2-arylindazoles in aqueous medium by Manganese(I)-catalysis. Das, K. K.; Ghosh, A. K. and Hajra,* A. *RSC Adv.*, **2022**, 12, 19412.
183. Direct Asymmetric Addition of Heteroatom Nucleophiles to Imines. *Adv Synth Catal*, **2022**, 364, 2092.
182. One-Pot Construction of Indolo[2,3-*b*]quinoxalines through Ruthenium-Catalyzed *Ortho* C–H Bond Functionalization of 2-Arylquinoxalines with Sulfonyl Azides. Laru, S.; Bhattacharjee, S. and Hajra,* A. *Org. Lett.* **2021**, 23, 7624.
181. Three-Component Carbosilylation of Alkenes by Merging Iron and Visible-Light Photocatalysis. Neogi, S.; Ghosh, A. K.; Mandal, S.; Ghosh, D.; Ghosh, D. and Hajra,* A. *Org. Lett.* **2021**, 23, 6510.
180. Fluorination of 2*H*-Indazoles Using *N*-Fluorobenzenesulfonimide. Ghosh, P. and Hajra,* A. *J. Org. Chem.*, **2021**, 86, 10883.
179. Potassium Persulfate Mediated Chemodivergent C-3 Functionalization of 2*H*-Indazoles with DMSO as C₁ Source. Bhattacharjee, S.; Laru, S.; Ghosh, P. and Hajra,* A. *J. Org. Chem.*, **2021**, 86, 10866.
178. Ru(II)-Catalyzed Switchable C–H Alkylation and Spirocyclization of 2-Arylquinoxalines with Maleimides via *ortho*-C–H Activation. Laru, S.; Bhattacharjee, S.; Singsardar, M.; Samanta, S. and Hajra,* A. *J. Org. Chem.*, **2021**, 86, 2784.
177. *ortho*-Allylation of 2-Arylindazoles with Vinyl Cyclic Carbonate and Diallyl Carbonate via Manganese-Catalyzed C-H Bond Activation. Ghosh, A. K.; Das, K. and Hajra,* A. *Adv. Synth. Catal*, **2021**, 363, 4974.
176. Electrochemical Functionalization of Imidazopyridine and Indazole: An Overview. Ghosh, D.; Ghosh, S. and Hajra,* A. *Adv Synth Catal*, **2021**, 363, 5047.
175. Advances in Transition-Metal Catalyzed Carbonylative Suzuki-Miyaura Coupling Reaction: An Update. Bhattacharjee, D.; Rahman, M.; Ghosh, S.; Bagdi, A. K.; Zyranov, G.; Chupakhin, O.; Das, P. and Hajra,* A. *Adv Synth Catal*, **2021**, 363, 1597.
174. *Ortho* C–H Functionalization of 2-Arylimidazo[1,2-*a*]pyridines. Ghosh, S.; Laru, S. and Hajra,* A. *Chem. Rec.*, **2021**, 21, doi.org/10.1002/tcr.202100240.
173. Synthesis of Unsymmetrical Biheteroarenes *via* Dehydrogenative and Decarboxylative Coupling: a Decade Update. Majumdar, S.; Gosh, S.; Pyne, P.; Ghosh, A. and Hajra,* A. *Chem. Rec.*, **2021**, 21, doi.org/ 10.1002/tcr.202100288.

172. Zwitterionic Imidazolium Salt: An Effective Green Organocatalyst in Synthetic Chemistry. Ghosh, S; Ghosh, D. and Hajra,* A. *Phys. Sci. Rev.* **2021**, 6, DOI: 10.1515/PSR-2021-0018
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