Dr. SUVANH <u>Home Addre</u> Urban Castle Kawauchi Da Miyagi, Aoba Sendai- 980-0 <u>Email</u> : <u>suvan</u> <u>Ph:</u> - +91-817	KAR DEBBARMAss:Working AddresKawauchi (340)Department of Chikumachi, 56Graduate School ofWard,Tohoku University853, Japan.Japan- 980-8578karchemiitm@gmail.com// debbarma.suvankar.a8@0849063Ph:- +81-8033281759	s: emistry of Science, y, Sendai Detohoku.ac.jp	
PERSONAL INFORMA	Date of Birth: 22-05-1990	Narital Status: Single Nationality: Indian	
OBJECTIVE:	"Committed to do good & quality research in Synthetic Organic Chemistry"		
EDUCATIONS:			
	Ph. D., (2014 – 2019): Department of Ch	emistry, Indian Institute of Technology Kharagpur (IIT-	
	Kharagpur), India. (Suorevisor Prof. Dr.	Modhu Sudan Maji.)	
	Thesis title: 'Transition-Metal-Catalyzed	External Oxidant Free C–C and C–N Bond Formation'	
	M. Sc. , (2011 – 2013): Department of Che	emistry, (Organic Special): First Class, Indian Institute of	
Technology Madras (IIT-Madras), India. (supervisor Prof. Dr. S. Baskaran.)			
	Thesis Title: 'Synthesis of New Organoca	talyst for Asymmetric Transformation'	
	B.Sc., (2008 – 2011): Chemistry Honors (I	First class), Vidyasagar University, West Bengal, India.	
RESEARCH EXPERIE	NCE:		
Apr, 2022 –Nov 2022	Assistant professor, Department of Chemistry, Department of Chemistry, Tohoku University		
	Sendai, Japan. (PI: <i>Prof. Dr. Yujiro Hayashi</i> .)		
	• Asymmetric total synthesis of Amphidino	lide N	
Jun, 2020 – Mar 2022:	Institute Research Associate (RA), Department of Chemistry, Indian Institute of Technology		
	Kharagpur (IIT-Kharagpur), India. (Suorevisor Prof. Dr. Modhu Sudan Maji.)		
	• Development of a novel strategy for as	symmetric C-H functionalization using peptide ligand	
	assisted Cp*Co(III)-catalysis.		
Sep, 2019 – Jan 2020: P	ost-Doctoral Fellow (Fixed-Term Researcher)		

Principal Investigator: *Prof. Dr. Shengming Ma.* Department of Chemistry, Fudan University/Shanghai Institute of Organic Chemistry (SIOC), CAS, China.

•	Developed a novel strategy for Asymmetric Synthesis of Allene Carboxyliclate through Dynamic	
	Kinetic Resolutions. (manuscript communicated)	
July 2014 – Aug 2019	 Ph. D., Synthetic Organic Chemistry, Indian Institute of Technology Kharagpur, India. Developed a low temperature strategy for C–C bond formation through transition metal catalyzed C–H allylation strategy. Significant contribution has been made to the C–N bond formation, by developing a modern catalytic approach for amide synthesis through an aldehyde C–H bond activation. This leads to synthesize wide range of biologically important molecules. A benign catalytic method has been developed to synthesize biologically important Z-Enamide, through a stereo controlled manner. Considering the environmental issues of every chemical synthesis, we have first developed a water medium iridium catalysis for the synthesis of wide range of biologically important Chromon derivatives, utilizing various diazo-ketones. A complete training has been gained for various metal catalyst synthesis and its utilizations through range of catalysis. 	
May 2012 – April 2013:	 M. Sc., Project, Synthetic Organic Chemistry, Indian Institute of Technology Madras, India. Paved a new strategy for the synthesis of Thiourea based Organo-Catalyst. Explored the basic concept of asymmetric catalysis through the newly designed catalyst in a pragmatic way. 	
TEACHING EXPERIENCE:		
July 2014 – May 2018	Teaching Assistantship, Department of Chemistry, Indian Institute of Technology Kharagpur, India.	
•	Assisted practical classes for under graduate student, B. Tech. (1 st , 2 nd semesters), as a part of teaching assistance ship (TA).	
•	Two-year theory teaching for under graduate student, B. Tech. (7 th , 8 th semesters), as a part of	

teaching assistance ship (TA).

Sub: Basic stereo chemistry, metal catalysis, basic **NMR** course (¹**H**, ¹³**C**, **DEPT**), (Class strength ~50 students).

AWARDS & HONORS:

- Fudan University post-doctoral fellowship (2019-2021), CAS.
- Full time research fellowship (July 2014 to March 2019) by IIT Kharagpur, India.
- Full time junior research fellowship (May 2013 to April 2015) UGC, India.
- Graduate Aptitude Test in Engineering (GATE, 2013).
- Awarded IIT Madras Merit Scholarship during M.Sc. (August 2011 to May 2013), India.
- CSIR-UGC National Eligibility Test (NET) (December, 2012).
- CSIR-UGC National Eligibility Test (NET) (June, 2012).
- Joint Admission Test for MSc (JAM) 2011.

RESEARCH PUBLICATIONS:

- 1. Wei-Feng Zheng, <u>Suvankar Debbarma</u>, Yuling Li, Jie Wang, Wanli Zhang, Hui Qian, Yin-Long Guo and Shengming Ma. Metal-Catalyzed Enantioselective Carboxylation Boosted by Aryl Bromides. (Communicated).
- <u>Suvankar Debbarma</u>, Md Raja SK, Biswabrata Modak and Modhu Sudan Maji. On-Water Cp*Ir(III)-Catalyzed C-H Functionalization for the Synthesis of Chromones through Annulation of Salicylaldehydes with Diazo-Ketones. J. Org. Chem. 2019, 84, 6207–6216. <u>https://doi.org/10.1021/acs.joc.9b00418</u> (Invited for cover picture)
- <u>Suvankar Debbarma</u>, Sourav Sekhar Bera and Modhu Sudan Maji. Harnessing Stereospecific Z-Enamides through Silver-Free Cp*Rh(III) Catalysis by Using Isoxazoles as Masked Electrophiles. *Org. Lett.* 2019, *21*, 835– 839. <u>https://doi.org/10.1021/acs.orglett.8b04130</u>
- Sourav Sekhar Bera, <u>Suvankar Debbarma</u> and Modhu Sudan Maji. Cobalt(III)-Catalyzed Construction of Benzofurans, Benzofuranones and One-Pot Orthogonal C–H Functionalizations to Access Polysubstituted Benzofurans. *Adv. Synth. Catal.* 2018, *360*, 2204–2210. <u>https://doi.org/10.1002/adsc.201800298</u> (*Invited for cover picture*)
- Sourav Sekhar Bera, <u>Suvankar Debbarma</u>, Avick Kumar Ghosh, Santanu Chand and Modhu Sudan Maji. Cp*CoIII–Catalyzed syn-Selective C–H Hydroarylation of Alkynes Using Benzamides: An Approach Toward Highly Conjugated Organic Frameworks. *J. Org. Chem.* 2017, 82, 420–430. https://doi.org/10.1021/acs.joc.6b02516
- 6. <u>Suvankar Debbarma</u> and Modhu Sudan Maji. Cp*Rh^{III}-Catalyzed Directed Amidation of Aldehydes with Anthranils. *Eur. J. Org. Chem.* 2017, 2017, 3699–3706. <u>https://doi.org/10.1002/ejoc.201700457</u>
- Suvankar Debbarma, Sourav Sekhar Bera, and Modhu Sudan Maji. Cp*Rh(III)-Catalyzed Low Temperature C– H Allylation of *N*-Aryl-trichloro Acetimidamide. *J. Org. Chem.* 2016, *81*, 11716–11725. https://doi.org/10.1021/acs.joc.6b02150