

DEBAYAN SARKAR, Ph.D

Work Address (Preferred):

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Personal Information:

Date of Birth	:	7th April, 1982
Sex	:	Male
Nationality	:	Indian
Age	:	37 yrs

Present status:

ICMR International Fellow, Prof. Burkhard Koenig Group, University of Regensburg, Germany, Jan 2020- Dec 2020

Associate Professor of Organic Chemistry, Department of Chemistry, National Institute of Technology, Rourkela, Odisha, India, Pin- 769 008, from 02nd Feb 2018 - Continuing.

<u>Mentor</u>- Startup Contract Research Organisation " CHEMGREEN" under the Foundation of Technology and Business Incubation (FTBI), NIT Rourkela- NOV 2018 onwards

<u>Assistant Professor of Organic Chemistry</u>, Department of Chemistry, National Institute of Technology, Rourkela, Odisha, India, Pin- 769 008, *from 17th October 2011 to 01st Feb 2018*.

Group Leader - Organic Synthesis & Molecular Engineering Research Group- National Institute of Technology, Rourkela.

Past Employment:

DAAD Associate Professor (Academics)- Dec 2018-Jan 2019 With Prof. Christoph Schneider, University of Leipzig, Germany

<u>Visiting Senior Assistant Professor</u>: Dec. 2015 – March 2016, With **Prof. Masahiko Yamaguchi**, Graduate School Of Pharmaceutical Sciences, Tohoku University, Japan

(INDO-US Postdoctoral Research Fellow) with Prof. B M Trost, Department of chemistry, Stanford University, California, USA-94305 (2012-2013)

Academic Background :

- Ph. D (Organic Chemistry): 2011, Jadavpur University, Jadavpur, Kolkata, India.
- Thesis Title: "Synthesis of Biologically Active Natural Products"

Institute: Department of Organic Chemistry, <u>Indian Association For The</u> <u>Cultivation of Science</u>, Jadavpur, Kolkata - 700032, India.

Supervisor: Professor R.V.Venkateswaran

• **M. Sc.** (Chemical sciences) (specialization in **Organic Chemistry**): 2003 - 2005, Department of Chemistry, University Of North Bengal, West Bengal, India (First Class)



• B. Sc. (Chemistry (Honours), Physics & Mathematics): 2000 - 2003, University of North Bengal, West Bengal, India.

Awards & Fellowships

- 1. ICMR- DHR Long Term Fellowship to University of Regensburg, Germany, 12 months, Govt. Of India 2019
- 2. DAAD-Research Stay Award 2018, University of Leipzig, Germany
- 3. VIFA International Young Scientist Award 2017
- 4. Tohoku University Visiting Professor Awarded (Dec 2017 June 2018)
- 5. "Certificate of Appreciation" by Education Expo-FBA- 2017 (Young Scientist Category)
- 6. Tohoku University, Japan Visiting Professor Award (December 2015 to March 2016)
- 7. DST-INSA- INSPIRE Faculty Award-2013 in Chemical Sciences
- 8. Board of Research in Nuclear Sciences, Govt. of India Young Scientist Award- 2014 in Chemical Sciences.
- 9. Department of Science and Technology, Govt. of India -Fast Track Projcet award for Young Investigators- 2012
- 10. INDO-US RESEARCH FELLOWSHIP Award 2012 in Chemical Sciences, Stanford University, California, US.
- *11.* Doctoral Research Fellowship: Qualified with Rank among Top 100 students. National Eligibility Test (NET-December'2004); Council of Scientific and Industrial Research (CSIR), New Delhi, India.
- 12. Junior Research Fellowship (CSIR): September, 2005 September, 2007
- 13. Senior Research Fellowship (CSIR): October, 2007 May 2010

Ongoing Research Projects:

1. Title : Chemical Innovations For Sustainable Future 2020- 2024 (Principal Investigator), **1.92 Crores** Funding Agency : UGC-DAAD, Under Indo-German Higher Education Partnerships, PI

2. *Title* : Exploring Molecular Intricacy – Developing Facile Catalytic Asymmetric Oxidative Dearomatisation Reactions (CAODRs) 2017- 2020 (Principal Investigator), 42 Lakhs *Funding Agency* : Department of Science and Technology, PI

3. Title : Injectable Nanocrystalline Hydroxyapatite- Polyanhydride Based Paste for Bone Substitution, 48 Lakhs

Funding Agency : Department of Biotechnology. (Co- Investigator)

Status: 2017-2020

4. Title: Intramural Project on Organic Farming, 5 Lakhs

Funding Agency : National Institute of Technology Rourkela (Principal Investigator)

Status: 2018-2019

Completed Research Projects:

1. Title : Ruthenium catalysed Non-Metathesis Couplings, 35 Lakhs

Funding Agency : Department of Science and Technology – Indian National Science Academy- INSPIRE FACULTY AWARD. (Principal Investigator)

Status : 2014-2019

2. *Title:* Synthesis of Medicinally Important Natural Products employing Cyclopropyl Ring- Cleavage and Oxidative dearomatization reactions, 25 Lakhs

Funding Agency: Department of Science and Technology, Govt. of India (Fast Track Scheme for Young Scientists) Status: 2013 – 2016

3. Title : Design of Multipurpose Photo reactor and Photoreactions, 5 Lakhs

Funding Agency: Technical Education Quality Improvement Programme-II, National Institute of Technology, Rourkela, India *Status*: 2014-15

4. *Title :* Ruthenium Catalysed Atom-economic Transformations, 17 Lakhs *Funding Agency* : Board of Research in Nuclear Sciences, Govt. of India (Young Scientist Research Award Scheme) *Status* : 2014-2017

Courses Taught:

Course on "Structural Determination of Organic Compounds" taught for one semester at Graduate School of Pharmaceutical Sciences, Tohoku University, Japan

CY 313	Chemistry of Natural produc	ctsCredits- 4 (Four Semesters)
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- CY 317 Spectroscopic Methods of Analysis..Credits 3 (One Semester)
- CY 374 Inorganic Chemistry Lab.....Credits 3 (One Semester)
- CY-542 Methods in Organic Synthesis.....Credits- 3 (Three Semester)
- CY- 571 Stereochemistry and Reaction Mechanism...Credits- 6 (Six Semesters)
- CY-1101 Chemistry.....Credits 3 --- 1 (One Semester)
- CY-2701 Structural Determination of Organic Compounds 1 (One Semester)

Courses and Conferrences Organised:

- 1. Coordinator of MHRD GIAN Course on "Photochromic Molecules and Materials for a Sustainable Future" by Prof. Burkhard Koenig Universität Regensburg, Germany on 14th-18th February 2019
- 2. Five Days Training Programme On Organic Farming for Sustainable Agriculture (2nd July to 6th July, 2019)
- 3. National Conferrence " Advances in Chemistry with relevance to Industry and Biology"- 10th-11th January 2014
- 4. Workshop On Recent Trends in Chemical Science and its Industrial and Biological Relevance (RTCSIBR-2018) February 14-18, 201
- 5. Workshop Analytical Techniques in Chemistry Tequip II 06 Apr 2016- 07 Apr 2016

Membership of Societies and Organising :

1. Nominated as a Core member of International steering Committee of Royal Society of Chemistry, 2016

2. Nominated as Core member of Royal Society of Chemistry(Eastern India) 2015-2019

3. Member of Royal Society of Chemistry, UK (MRSC)

4. Life Member of Chemical Research Society of India

- 5. Organising Secretary of National Conferrence "Advances in Chemistry with relevance to Industry and Biology" January10-
- 11, 2014- Royal Society Best Poster Prize
- 6. Patron Member Orissa Chemical Society 2019.

7. Convenor of Recent Trends in Chemical Science and its Industrial and Biological Relevance (RTCSIBR-2018)" during February 14-18, 2018 at NIT, Rourkela.

8. Life Member of Indian Chemical Society

EDITORIAL SERVICE

- 1. Reviewer for Journal of Organic Chemistry ACS
- 2. Reviewer for Applied Organometallic Chemistry- wiley
- 3. Reviewer for Synthetic Communications- Taylor & Francis
- 4. Bentham Science Ambassador

Selected as Editor of a book entitled "Sulphonamides- An Overview "by NOVA Science Publishers, USA (To be available by December 31, 2020)

INSTITUTIONAL PROGRAMME SUPPORT / CENTRE OF EXCELLENCE

Principal Investigator of National Centre of Excellence (COE) in Organic farming – Rs. 1.0 Crore, under progress with Vedanta Limited

1.Professor-in- charge of the Foundation For Technology and Business Incubation (FTBI), founded by DST in 2016; 1st July 2020- continue

2. Professor-in-charge, Organic Farming Project, NIT Rourkela, Oct 2018-continuing

- 3. Professor-in-Charge, Institute Guest Houses, NIT Rourkela, July 2016- June 2018
- 4. Vice President, Games, Student Activity Centre, NIT Rourkela, July 2014-June 2016

LIST OF LABORATORIES DEVELOPED

Organic Synthesis and Molecular engineering laboratory

Patents

Development of Efficient Tribromides as Versatile Fine Dearomatisation Reagents- Filed on June 2019 : Patent Application No. 201931024717

Publications:

https://scholar.google.co.in/citations?user=tobGYYsAAAAJ&hl=en

Total Citations= 706, *h*-index = 11

37. Trapping a Boron-enolate, C1-C10 bond Migration: Concept to Re-ality and Anti-cancer Properties

Sushree Ranjan Sahooa, Debayan Sarkar* Organic Letters (Accepted Article) 2020

36. Gram Scale Synthesis of alpha-cyanoalkylboronic esters via Direct B-B and C-N Bond Cleavage. Sushree Ranjan Sahooa, Debayan Sarkar* Synthetic Communications (Accepted Article) 2020

35. Copper(I) Catalyzed Synthesis of Selanyl methylene 4-chromanol and aurone Derivatives

Sushree Ranjan Sahoo and Debayan Sarkar* Organic and Biomolecular Chemistry 2020, 18, 4619-4627

34. Direct Synthesis of Regioselective α -allyl α -selanyl Ketones and selanyl tetra-hydrofurans

Sushree Ranjan Sahoo, Rajat Kumar Singh and Debayan Sarkar* Tetrahedron Letters (Accepted Article) 2020

33. Revisiting the addition of Insitu Nucleophiles to Allenic Ketones: An Entry Towards Synthesis of Benzodioxins. Sushree Ranjan Sahoo and Debayan Sarkar* European Journal of Organic Chemistry 2020, ASAP

32. Stereoselective synthesis of para-quinone monoketals through tri-bromide (TBr) mediated oxidative dearomatization of phenols. Sushree Ranjan Sahoo and Debayan Sarkar* **Tetrahedron Letters** (ASAP) 2020

31. Stereoselective Synthesis of Spiro-Azacycles Through Tri-bromide Mediated Oxidative Dearomatization. Sushree Ranjan Sahoo and **Debayan Sarkar*** European Journal of Organic Chemistry 2020, 397-401

30.Copper(I) Catalyzed Synthesis of Functionalized *N*-Fused Indolizinone from Substituted Pyridine Homologated-ynones

Debayan Sarkar^{*a}, Sushree Ranjan Sahoo **Journal of Organic Chemistry** 2019 (Just Accepted **DOI:** 10.1021/acs.joc.9b02853)

29. Visible Light Catalysed Selenylative Intramolecular Dearomative Carbo-spirocyclisation (IDCS) of Homologated-ynones. **Debayan Sarkar*** and Sushree Ranjan Sahoo **European Journal of Organic Chemistry** 2019 (Accepted Article <u>https://doi.org/10.1002/ejoc.201901821</u>)

28. [2+2] Photochemical Cycloaddition in the Synthesis of Natural Products and Related Molecules

DebayanSarkar, Nabakumar Bera and Subrata Ghosh European Journal of Organic Chemistry 2019 doi/10.1002/ejoc.201901143

27. <u>Copper(I) Catalysed Direct Synthesis of 2-Methylene-4-Chromanols</u> **Debayan Sarkar*** Sagarika Behera **Tetrahedron Letters** (ASAP) 2019

26. Redox Economic Synthesis of Trisubstituted Piperidones via Ruthenium Catalyzed Atom-economic Couplings of N-protected 1,5-Aminoalcohols and Michael Acceptors Barry M Trost*, **Debayan Sarkar***, Nabakumar Bera **Advanced Synthesis and Catalysis 2019**, Accepted Article.

25. Ruthenium (VIII) catalysed *ipso*-Dearomative Spiro-etherification and Spiro-amidation of Phenols **Debayan Sarkar*** and Nilendri Rout **Organic Letters 2019 21, 11, 4132-4136**

24. Hydchloride Promoted Synthesis of Functionalised Isoxazoles and Pyrazoles from Allenic Ketones – First Synthesis of (*Z*)-2-methyl -7H benzo[b]pyrazolo[5,1-d][1,5]oxazocines

Debayan Sarkar* and Sushree Ranjan Sahoo **European Journal of Organic Chemistry** 2019, 2035-2049

23. Controlling Stereoselectivity in Tribromide Mediated Oxidative Dearomatisations – Tuning The Synthesis of Selective Spirofurano-naphthalones **Debayan Sarkar** *, Puspendu Kuila, Devasish Sood **2019** Accepted article , **European Journal of Organic Chemistry** 2019 (http://dx.doi.org/10.1002/ejoc.201900974)

22. Book Chapter on "Xyloketals- Unique Benzoxacycles" – in Studies in Natural Product Chemistry (*Elsevier Publishers*) **2018- Debayan Sarkar** and Nilendri Rout

21. PTAB Mediated Open Air Synthesis of Sulfonamides, Thiosulfonates and Symmetrical Disulfanes

Debayan Sarkar*, Manoj Kumar Ghosh and Nilendri Rout Tetrahedron Letters 2018, 59, 2360-2364

20. Rhodium-catalyzed Insertion Reaction of PhP Group of Pentaphenylcyclopentaphosphine with Acyclic and Cyclic Disulfides. M. Arisawa, K.Sawahata, T. Yamada, **Debayan Sarkar**, M.Yamaguchi *Organic Letters 2018*, 20(4), 938-941

19. Stereoselective Synthesis of Heliannuol G. **Debayan Sarkar**^{*} and Manoj Kumar Ghosh. *Tetrahedron Letters 2017*, 58, 4336-4339

18. "Atom – Economic Palladium Carbon Catalysed de novo synthesis of Tri- substituted Nicotinonitriles" - Debayan Sarkar*, Nilendri Rout, Manoj Kumar Ghosh, SantanabGiri, K. Neue and H. Reuter. Journal of Organic Chemistry, 2017, 82, 9012-9022(I.Factor – 4.849)

17. "A Jack of Trio"- Robust One-pot Metal free Oxidative Amination, Azidation and Peroxidation of Phenols. **Debayan Sarkar**^{*,} M.K.Ghosh, Nilendri Rout, PuspenduKuila*New Journal Of Chemistry*, 2017, 41, 3715–3718

16. Facile TMSOI CatalysedStereoselective Synthesis of 2-Methylene Selanyl-4-Chromanols and Anti-Cancer Activity

Debayan Sarkar*SagarikaBehera, Sarbani Ashe, BismitaNayak, Saikat Kumar Seth **2017, Tetrahedron** 51, 7200-7209

15. Radical-induced expeditious stereoselectivesynthesis of 2-alkyl 3-allyl trans-2,3-dihydrobenzofurans (TADHBs)**Debayan Sarkar***andSusheeranjanSahoo**2018**Synthetic Communications 48, 5, 574-581

14. Story of Heliannuols – A Unique Class of Structurally Diverse Benzoxacycles, Synthesis and Structural Revision. **Debayan Sarkar**^{*}, Manoj Kumar Ghosh **2018** Current Organic Chemistry 22, 18-56

13. Phenyl TrimethylAmmonium Tribromide Mediated Robust One-pot Synthesis of Spiroxacycles– an Economic Route- Stereoselective Synthesis of Spiroxadieneones. **Debayan Sarkar**^{*,} M.K.Ghosh, Nilendri Rout *Organic and Biomolecular Chemistry*, 2016, 14, 7883-7886

12. PhSeBr Mediated Hydroxylative Oxidative Dearomatization of Naphthols– An Open Air Facile One-Pot Synthesis of Ketols. **Debayan Sarkar**^{*,} M.K.Ghosh, Nilendri Rout, *RSC Advances*, 2016, **6**, 26886.

11. Synergestic interactions of surfactant blends in aqueous medium are reciprocated in non-polar medium with improved efficacy as a nano-reactor. SoumikBardhan, Kaushik Kundu, BarnaliKar, Gulmi Chakraborty, Dibbendu Ghosh, **Debayan Sarkar**Sajal Das, SanjibSenapati, Swapan Kumar Saha and Bidyut K Paul **2016**, **RSC Advances**, 6, 55104-55116

10. Unprecedented C-Methylation at 2- Position of 2-carboxy-4-chromanones – A Case Study with Corey-Chaykovsky Reagent. S. Ghosh, **D.Sarkar**, M.K.Ghosh, I.Chakraborty *Synlett2014*, 25, 2649-2653

9. Biomimetic type approach to the tricyclic core of xyloketals. Application to a short, stereocontrolled synthesis of alboatrin and first synthesis of xyloketal G. **Debayan Sarkar** and Ramanathapuram V. Venkateswaran* *Tetrahedron* 2011, 67, 4559-4568

8. Synthesis of bruguierolA employing ring closing metathesis. **Debayan Sarkar** and Ramanathpuram V. Venkateswaran* *Tetrahedron Letters*, 2011, 52, 3232 - 3233

7. Insight into supramolecular self assembly directed by weak interactions in acetophenonederivatives : crystal structures and Hirshfield surface analyses. Saikat Kumar Seth, **Debayan Sarkar**, Amalesh Roy and TanushreeKar^{*} *CrystEngComm*, 2011, 13, 6728-6741

6. Use of π - π forces to steer the assembly of chromone derivatives into hydrogen bonded supramolecular layers: crystal structures and Hirshfield surface analyses. Saikat Kumar Seth, **Debayan** Sarkar and TanushreeKar^{*} CrystEngComm, 2011, 13, 4528 - 4535

5. On the Possibility of Tuning Molecular Edges to direct supramolecular self- assembly in coumarin derivatives through cooperative weak forces: crystallographic and Hirshfield surface analyses.Saikat Kumar Seth, **Debayan Sarkar**, AtisDipankar Jana and TanushreeKar^{*} *Crystal Growth & Design*, 2011, 11, 4837-4849

4. Expeditious synthesis of helianane and C-10 halogenated heliananes employing ring-closing metathesis. SubirSabui, Subroto Ghosh, **Debayan Sarkar**, Ramanathapuram V. Venkateswaran* *Tetrahedron Letters*, 2009, *50*, 4683-4684

3. A biomimetic type expedient approach to the tricyclic core of xyloketals. Application to a short, stereocontrolled synthesis of alboatrin and a remarkable *epi* to natural isomerisation. **Debayan Sarkar**, Subroto Ghosh, RamanathapuramV.Venkateswaran* *Tetrahedron Letters*, 2009, *50*, 1431-1434

2. Facile Aromatic Claisen RearrangementCatalysed by Tin(IV) Chloride. **Debayan Sarkar**, Ramanathapuram V. Venkateswaran* *Synlett*, 2008, *05*, 653-654

1. Total synthesis of alboatrin, a phytotoxic metabolite from *verticilliumalboatrum*. Bidyut Biswas, **Debayan Sarkar**, Ramanathapuram V. Venkateswaran* *Tetrahedron*, 2008, *64*, 3212-3216.

Patents:

1. Patent on "Development of Efficient Tribromides as Versatile Fine Oxidative Dearomatisation Reagents" – on process of filling

Nilendri Rout, Barnali Roy, Puspendu Kuila, Sushreeranjan Sahoo Sagarika Behera, Dr. Debayan Sarkar 2019

Administrative Positions:

- 1. PIC- Guest Houses NIT Rourkela (2016-2019)
- 2. Vice-President Student Activity Centre NIT Rourkela (2014-16)
- 3. Core Committee Member CCMN- For M.Sc Admissions 2015

Selected List of papers presented in conferences & Symposia

21. Invited to NOST-OCC Goa 6th-9th August 2018 GOA

20. Paper Presentation on "Asymmetric Dearomatisation" at International Conference on Organometallic Chemistry, Florence, Italy, 15th-20th July 2018.

19. Invited Speaker at Institute of Chemistry, University of Rennes, 10th-14th July 2018.

18. Invited Talk at Rajabazar Science College, Kolkata, August 2017

17. Oral Presentation at National Conferrence at **IIEST 2017- August**

16. Invited Lecture in "*International Conferrence in Chemistry For Human Health (ICCHD) 2017*, 8-10 January 2018 at HIT Kolkata on 100th Birth Centenary of Prof. Asima Chatterjee

15. Solving Molecular Complexity Using Oxidative Dearomatization & Metal Catalysed Atom economic Transformations- **Invited Lecture** 23rd September 2016 at Dr. Reddy's Institute of Life Sciences, Hyderabad

14. Invited Lecture: Indian Institute of Engineers – on World's standard day- 14th October 2015

13. Solving Molecular Complexity Using Oxidative Dearomatization & Metal Catalysed Atom economic Transformations- **Invited Lecture** 23rd September 2016 at Dr. Reddy's Institute of Life Sciences, Hyderabad

12. Invited Lecture: Indian Institute of Engineers – on World's standard day- 14th October 2015.

11. Invited Lecture in " Science Academics Lecture workshop on Organic and Inorganic Self Assembly" Department of Chemistry, KIIT University, Bhubhaneswar, 22nd February 2015.

10. Invited Lecture in "National Symposium on Chemistry and its interface with other Scientific Disciplines ", organized by Chemistry Dept. - Sitananda College and Royal Society of Chemistry (Eastern India section)- 12th December 2014

9. Exploring Molecular Intricacy- Ruthenium Catalysis and Oxidative Dearomatisation - Challenges in Organic Chemistry- ISACS 2014- 7th- 10th August, Shanghai, China

8. Towards Natural Product Synthesis-Ruthenium Catalysed Non-Metathesis Couplings and Oxidative Dearomatisation-Oral Presentation- NIT Hamirpur- 29-30 May 2014

7. *Exploring Molecular Complexity- Application to Natural Product Synthesis ;* **Invited Lecture- NIT-Raipur, Recent Trends in Heterocyclic Compounds and Material Science,** 26-30 May 2014

6. *Efficient Transformations towards biologically Important Natural Products*; Indo-US Research Conclave, March 15-17, 2013, Pune, India.

5. *The Benzoxacyclic Saga - High excitement and Entrigues;* <u>Trost Group Seminar Talk, 19th December</u> <u>2012</u>, **Stanford University, California, US.**

4. 'Acid catalysis'-A simple but versatile synthesis in Organic synthesis; National Seminar on "A journey through Recent Developments in Chemistry" (March 1-2, 2012), A.B.N.S (Govt. College & University Of North Bengal)

3. A simplified approach towards the development of 2,5-dihydro-1-benzoxepin and Synthesis of Radulanins; National seminar on 'International Year of Chemistry: Chemistry in our lives.(March 15-17, 2011), University of Burdwan.

2. Synthesis of bioactive natural products; ISOC on "Organic Chemistry' Trends in 21st Century," 10th-12th December, 2009, Indian Association For The Cultivation Of Science, Jadavpur, India.

1. Biomimetic type expedient synthesis of Alboatrin & xyloketal G; Fourth J-Nost Conference, 6th-9th December, 2008, Madurai Kamaraj University and NOST, India

REFERENCES

Prof. R.V.Venkateswaran (Thesis Supervisor)	Prof. Barry M Trost (Post-Doc Supervisor)
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Prof. Subrata Ghosh, JC Bose Fellow, FNA, FNASc	Prof. Burkhard Koenig (Post-Doc Supervisor)
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Prof. Dr. Christoph Schneider Institut für Organische Chemie Universität Leipzig Johannisallee 29 D-04103 Leipzig Tel. :Int. + 341-9736559 Fax : Int. + 341-9736559 E-mail: schneider@chemie.uni-leipzig.de Internet: http://www.uni-leipzig.de/~akschnei	Prof. RupamDinda Head of The Department, Department of Chemistry, National Institute of Technology Rourkela Odisha- 769008 E-Mail: rupamdinda@nitrkl.ac.in
Prof. Masanori Shigeno Associate Professor, Ph. D. Department of Biophysical Chemistry Graduate School of Pharmaceutical Sciences TOHOKU University Aoba, Sendai 980-8578 Japan mail: masanori.shigeno.e5@tohoku.ac.jp TEL 81-22-795-5917 FAX 81-22-795-5917	Prof. Animesh Biswas Director National Institute of Technology Rourkela Odisha India-769008 Email: abiswas@nitrkl.ac.in/director@nitrkl.ac.in