


FACULTY PROFILE

Title	Dr.	First Name	Subash Chandra	Last Name	Sahu	Photograph
Department	Chemistry					
Address	Department Of Chemistry, Govt. Women's College, Sambalpur-768001					
Mobile	9938255961					
Fax						
Email	subash2009sahu@gmail.com					
Web-Page	http://gwcsbp.in/subash-ch-sahu/					
Education						
<i>Subject</i>	<i>Institution</i>			<i>Year</i>	<i>Details</i>	
Ph.D.	CSIR-IMMT, Bhubaneswar			2015	Shape Controlled Synthesis of Noble Metal Nanostructures and Graphene-Metal Nanocomposites for Electrocatalytic Applications	
M.Sc.	Department of Chemistry, Utkal University, Bhubaneswar			2008	Chemistry	
B.Sc.	N.C. (Auto) College, Jajpur			2006	Chemistry(Hons), Physics, Mathematics	
+2 (I.Sc.)	N.C. College, Jajpur			2003	MIL, ENG, CHE, PHY, MTH, Applied Electronics	
Matriculation (10 th Board)	Jagannath High School, Dehuri Anandapur, Bhadrak			2000	FLO, SLE, TLS, SCP,SCL, MTA, MTG, SSG, SSH	
Career Profile						
<i>Organization/ Institution</i>		<i>Designation</i>		<i>Duration</i>	<i>Role</i>	
P.N. (Auto) College, Khordha		Lecturer in Chemistry		30.05.2015-09.11.2015	Teaching	
State Forensic Science Laboratory, Bhubaneswar, Odisha		Scientific Officer		13.11.2015-03.06.2016	Police	
NSCB Junior College, Sambalpur		Junior Lecturer in Chemistry		10.06.2016-23.01.2018	Teaching	
Govt. Women's College, Sambalpur		Assistant Professor of Chemistry		24.01.2018 continuing	Teaching	
Research/ Interests/ Specialization						
Nanomaterials, Synthesis, Characterization, Noble Metal nanostructures, Electrocatalysis, Electroanalysis, Fuel Cell, Sensor, Electrochemical Sensors, Biosensors, Battery, Capacitors, Supercapacitor,						
Teaching Experience (Subjects/ Courses Taught)						
Organic Chemistry, Stereochemistry, Reaction Mechanism, Carbohydrates, Polymer Chemistry, Green Chemistry, Electrochemistry, Thermodynamics, Quantum Chemistry, Molecular Spectroscopy, Organic Spectroscopy, Inorganic Chemistry, Atomic Structures, Chemical Bonding, Metallurgy, Properties of <i>s</i> and <i>p</i> block elements, transition elements, and <i>f</i> -block elements						

Honors & Awards				
1. CSIR-UGC NET(UGC-JRF & LS) : Dec 2008				
2. CSIR-UGC NET(CSIR-JRF&LS) : Jun 2009				
3.CSIR-UGC NET (LS) : Dec 2009				
4. GATE : March 2010 (All India Rank:222)				
5. CSIR-UGC NET (LS) : Jun 2010				
6. CSIR-UGC NET (CSIR-JRF &LS) : Dec 2010				
7. CSIR- Senior Research Fellow: Jan, 2012				
8. CSIR-Extended Senior Research Fellow: Jan, 2015				
9. Subash Chandra Sahu and Bikash Kumar Jena,* “A Facile Approach for Synthesis of Highly electroactive Dendritic Pd Nanowires” Poster Competition, 48th CSIR-IMMT Foundation Day (1st Prize in Research Scholars’ Poster Competition), 13 April 2012.				
10. Subash Chandra Sahu, Aneeya K Samantara and Bikash Kumar Jena,* “Graphene Supported Pd Nanodendrites: Excellent Electrocatalyst for Methanol Oxidation” Poster Competition, International Conference on Frontiers in Energy, Environment, Health and Materials Research ((EEMR-13) (Prize in Research Scholars’ Poster Competition), 12-13 August 2013.				
11. Prof. R C Tripathy Young Scientist Award during 30th Annual Conference of Orissa Chemical Society at KIIT, Bhubaneswar 24-25th December, 2016.				
12. Subash Chandra Sahu, “Graphene Supported Au@Pd Core-shell Chain like Nanoelectrocatalysts For High Efficient Fuel Cell Application” Virtual National Conference On Catalysis and Photocatalysis for Clean Energy(CPCE2020) October 9-10, 2020 Department of chemistry, NIT Jamshedpur (Third Position e-Poster Competition)				
Publications: Articles				
S. No.	Articles	Publisher	Year	ISSN/ISBN
1.	A facile approach for morphosynthesis of Pd nanoelectrocatalysts	<i>Chemical Communications</i>	2011	1359-7345 (print) 1364-548X (web)
2.	A bio-inspired approach for shaping Au nanostructures: the role of biomolecule structures in shape evolution	<i>Chemistry-A European Journal</i>	2013	0947-6539 (print) 1521-3765 (web)
3	Graphene-induced Pd nanodendrites: A high performance hybrid nano-electrocatalyst	<i>Nano Research</i>	2013	1998-0124 (print); 1998-0000 (web)
4	A facile electrochemical approach for development of highly corrosion protective coatings using graphene nanosheets	<i>Electrochemistry Communications</i>	2013	1388-2481(Print) 1873-1902(Web)
5	A facile approach for in situ synthesis of graphene- branched-Pt hybrid nanostructures with excellent electrochemical performance	<i>Nanoscale</i>	2013	2040-3372
6	Photoelectrocatalytic Oxidation of NADH by Visible Light Driven Plasmonic Nanocomposites	<i>Journal of Material Chemistry A</i>	2014	2050-7488
7	A Bifunctional Nanoelectrocatalyst Based on Flower-like Au/Pd Bimetallic Alloy Nanostructure and Its Graphene Hybrid	<i>ChemCatChem</i>	2015	1867-3899
8	Sandwiched Graphene with Nitrogen, Sulphur co-doped CQDs: Efficient Metal Free Material for Energy Storage and Conversion Application	<i>Journal of Material Chemistry A</i>	2015	2050-7488
9	Reduced Graphene and Branched Platinum Nanostructure Hybrids: An excellent Transducer for Non-enzymatic Sensing of Hydrogen Peroxide and Biosensing of Xanthine	<i>Electrochimica Acta</i>	2016	0013-4686

10	Highly Porous Pd Nanostructures and Reduced Graphene Hybrids for Enzyme Free Electrochemical Sensing of Hydrogen Peroxide	<i>New Journal of Chemistry</i>	2016	1144-0546 (print); 1369-9261 (web)
11	The Experimental and Theoretical Insights Towards the CO Induced Pd-Graphene and their Multifunctional Energy Conversion Applications	<i>Carbon</i>	2019	0008-6223
12	The experimental and theoretical insights on the interaction of AuPd bimetallic nanoentities on graphene: A study on electrocatalytic activity towards oxygen reduction reaction	<i>Electrochimica Acta</i>	2020	0013-4686
13	The Hybrids of Core-Shell Chain-like Nanostructure of Au@Porous Pd with Graphene for Energy Conversion Application	<i>ChemistrySelect</i>	2020	2365-6549

Publications: Book Chapter

1.	Flower Shaped Silver Nanostructures: An Efficient Bacteria Exterminator	<i>InTech-Publisher, Croatia</i>	2012	979-953-307-281-3
2.	Graphene: Synthesis, Properties and Application	<i>Wiley Scrivener Publishing, USA</i>	2013	9781119179108
3	Graphene Supported Noble Metal Nanostructures: Synthesis and Electrochemical Application	<i>Nova Science Publishers, Inc., New York, USA</i>	2014	978-1-63483-572-5

Conference/ Presentations

1. Oral Presentation :Subash Chandra Sahu, Aneeya K. Samantara and Bikash Kumar Jena,* “Shape Controlled Synthesis of Pd Nanostructures”.	National Seminar on “Chemistry in Technology” 26th annual conference of OCS-2012	8th-9th December 2012, Ravenshaw University, Cuttack, Odisha, India
2. Oral Presentation : Subash Chandra Sahu, Aneeya K. Samantara and Bikash Kumar Jena* “Shape Modulated Electro-catalytic Activity of Pd Nanostructures”	Fifth ISEAC Triennial International Conference on Advances and Recent Trends in Electrochemistry (ELAC-2013)	16-20 January 2013, Ramoji film City, Hyderabad, India.
3. Poster Presentation : Subash Chandra Sahu and Bikash Kumar Jena,* “A Facile Approach for Synthesis of Highly electroactive Dendritic Pd Nanowires”	48 th CSIR-IMMT Foundation Day	13 April 2012, CSIR-IMMT, Bhubaneswar, Odisha
4. Poster Presentation : Subash Chandra Sahu, Aneeya K Samantara and Bikash Kumar Jena,* “Graphene Supported Pd Nanodendrites: Excellent Electrocatalyst for Methanol Oxidation”	International Conference on Frontiers in Energy, Environment, Health and Materials Research ((EEMR-13)	12-13 August 2013, Hotel May Fair, Bhubaneswar, Odisha
5. e-Poster Presentation : Subash Chandra Sahu, “Graphene Supported Au@Pd Core-shell Chain like Nanoelectrocatalysts For High Efficient Fuel Cell Application”	Virtual National Conference On Catalysis and Photocatalysis for Clean Energy(CPCE2020)	October 9-10, 2020 Department of chemistry, NIT Jamshedpur

Public Service/ University Service/ Consulting Activity/ College Committee members

<ol style="list-style-type: none"> 1. Member of Purchase Committee 2. Assistant Account Bursar 3. Deputy Co-ordinator, IDP 4. Member of NAAC Committee 5. Member of IQAC 6. Associate In Charge of +3 e-admission 7. Deputy Co-ordinator, RUSA 8. HOD, Department of Chemistry 		
Professional Societies Memberships		
<ol style="list-style-type: none"> 1. Life Member of Odisha Chemical Society, Odisha 2. Member of Electrochemical Society of India 3. Life Member of Indian Society of Nanomedicine 4. web-member, American Chemical Society, USA 5. web-member, Royal Society of Chemistry, London UK 		
Projects(Major Grants/ Collaborations)		
NA		
Other Details		
<i>Seminars, Conferences, Symposia Workshops, FDP etc., attended</i>		
Seminar/ Conference/ Workshop etc.	Name of the Sponsoring Agency	Place and Date
<i>National Seminar on "Chemistry in Technology</i>	Odisha Chemical Society, Odisha	8th-9th December 2012, Ravenshaw University, Cuttack, Odisha
Fifth ISEAC Triennial International Conference on Advances and Recent Trends in Electrochemistry (ELAC-2013)	Electrochemical Society of India	16-20 January 2013, Ramoji film City, Hyderabad, India.
International Conference on Frontiers in Energy, Environment, Health and Materials Research ((EEMR-13)	Indo-JSPS Society of India	12-13 August 20, Hotel Mayfair, Bhubaneswar, Odisha
National Seminar on Recent Trends in Physical Sciences 2019	UGC	15-16 February 2019: Rajendra College (Autonomous), Bolangiri, Odisha
National Seminar on Recent Trends in Material Science(RTMS-2019)	UGC	18-19 March, 2019:School of Physics and Chemistry, Gangadhar Meher University, Amruta Vihar, Sambalpur
TEQIP-III Short Term Training Programme on Synthesis, Processing and Characterization of Advanced Materials (SPCAM-2019)	AICTE	7-16 April 2019: Dept. of Metallurgical and Materials Engineering, VSSUT, Burla, Odisha
Online Refresher Course in Chemistry for Higher Education Faculty	UGC	ARPIT, SWAYAM, Govt. Of India from Nov 2018-Feb 2019
NPTEL-AICTE approved online Faculty Development Programme on Bioinorganic Chemistry	NPTEL	Aug-Sep 2019, Online

NPTEL-AICTE approved online Faculty Development Programme on Reagents in Organic Synthesis	NPTEL	Jul-Oct 2019, Online
39th Orientation Programme	UGC	07-27 September 2019: UGC-HRDC, Sambalpur University, Jyoti Vihar, Burla, Smabalpur, Odisha
TEQIP-III Sponsored One Week Faculty Development Programme (FDP) on Design and Development of Materials for Technological Applications (DDMTA-2019),	AICTE	Dept of Physics, Veer Surendra Sai University of Technology, Burla, Odisha from 21-26 October, 2019
Online Refresher Course in Chemistry for Higher Education Faculty	UGC	ARPIT, SWAYAM, Govt. Of India from Dec 2019-March 2020.
Online Refresher Course in Chemistry	UGC	UGC-HRDC, Sambalpur University, Jyoti Vihar- 768019 (Odisha). Of India from 15.07.2021 to 28.07.2021.
Online Refresher Course in Chemistry	Department of Higher Education, Govt. of Odisha	UGC-HRDC, Sabitri Vai Phulle Pune University, Pune: 18.10.2021 to 31.10.2021
National Conference on Advanced Nanomaterials and Applications for Futuristic Developments	Department of Chemistry, Denkanal (auto) College, Odisha	5th-6th September 2020: Department of Chemistry, Denkanal (auto) College, Odisha
National FDP on Advanced Materials Processing, Characterization & Applications (AMPCA-2020)	Department of Metalurgical & Materials Engineering, VSSUT, Burla	8th-12th September 2020: VSSUT, Burla
National FDP on The role of Material Science in Engineering: Application Perspectives	AICTE	3rd-7th August 2020: Dept. of Physics & Chemistry, Mahatma Gandhi Institute of Technology, Hyderabad
National FDP on Solar Design and Drafting	.AICTE	21- 25 September 2020:: Geetanjali Institute of Technical Studies, Udaipur
Online Short Term Training Program on Emerging trends in Chemical Sciences and its Applications in Environment and Engineering	AICTE	26 -30, September 2020: Dept. of Applied Chemistry, Jabalpur Engineering College, Jabalpur
Short Term Course on Recent Trends in Advanced Materials and Devices	AICTE	21 -25, September 2020: Dept. of Physics and Dept. of Electronics & Communication Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar
National FDP on Trends in Chemical Sciences: Challenges and Opportunities in the coming decade	UGC	21 st - 26 th September 2020 : Dept. of Chemistry, Central University of Jharkhand, Ranchi, India

International workshop on MASTERING THE PUBLISHING PROCESS	DST-ACS	28 JULY 2020, Online
Online National FDP on RECENT ADVANCEMENTS IN MANUFACTURING AND MATERIALS PROCESSING	AICTE	10-14 September, 2020: Veer Surendra Sai University of Technology, Odisha, Burla, India
Online National FDP on Water, Energy & Environment (WEE-2020)	AICTE	05 th - 09 th September, 2020: Department of Chemical engineering ,Veer Surendra Sai University of Technology, Burla, Odisha
International Conference on <i>Emerging Smarth Materials in Applied Chemistry (ESAP)-2020</i>	AICTE	10 -12 August 2020: Dept. of Chemistry, KIIT, Sambalpur
National Virtual Conference on Catalysis and Photocatalysis for Clean Energy (CPCE-2020)	AICTE	Department of chemistry, NIT Jamshedpur, October 9-10, 2020
International Symposium on New Research Horizons in Nano and Radiation Materials	Dept. of Physics and IQAC, Dada Patil Mahavidyalaya Karjat (Dist- Ahmednagar), MH	10 th - 11 th Sept. 2020 : Dept. of Physics and IQAC, Dada Patil Mahavidyalaya Karjat (Dist- Ahmednagar), MH
National Webinar on Physics Through Nano-Science: Fundamental Aspects and Applications	Department of Physics & IQAC, Pandu College	28 th August, 2020: Department of Physics & IQAC, Pandu College
International Webinar on Role of finance in Environmental Sustainability	<i>Academy of EcoScience</i>	2 September 2020: <i>Academy of EcoScience</i>
International Webinar on Environment, Development and Sustainability	IQAC, Krishna Chandra College, West Bengal, India	24 th September, 2020: IQAC, Krishna Chandra College, West Bengal, India
National Webinar on MOOCs, E-content development and open Educational Resources	DLIS, Sambalpur University	7 th September, 2020. DLIS, Sambalpur University
National Webinar on Recent Trends and Developments in Chemistry	Department of Chemistry, Kalna College, West Bengal	10th September, 2020: Department of Chemistry, Kalna College, West Bengal
National webinar on How to Write Technical Research Paper		IQAC and Dept. of Commerce and Management, Acharya Tulsi National College of Commerce
National webinar on <i>National Education Policy (NEP) 2020 for Quality Higher Education</i>	<i>Department of Chemistry, Shivaji College, University of Delhi</i>	<i>19th September, 2020: Department of Chemistry, Shivaji College, University of Delhi</i>
National webinar on <i>New Education Policy 2020</i>	<i>Sri Sabal Mahila T.T. College, Jodhpur, Rajasthan</i>	<i>6th October, 2020. Sri Sabal Mahila T.T. College, Jodhpur, Rajasthan</i>

International Webinar on Ethics in Scientific Research	Dept. of Computer Science, Sree Narayana Guru College, Coimbatore - 641 105	10 October 2020: Dept. of Computer Science, Sree Narayana Guru College, Coimbatore - 641 105
National webinar on EMERGING TRENDS IN MODERN CHEMISTRY	Dept. of Chemistry, Faculty of Humanities and Science, Adayalampattu Phase - II campus, Dr.M.G.R EDUCATIONAL RESEARCH INSTITUTE	14th & 15th September 2020 Dept. of Chemistry, Faculty of Humanities and Science, Adayalampattu Phase - II campus, Dr.M.G.R EDUCATIONAL AND RESEARCH INSTITUTE Maduravoyal, Chennai - 600 095. Tamilnadu. India.
National Webinar on Nanotechnology: Small in Size but Big in Innovations	Dept. of Microbiology, Govt. College of Arts, Science and Commerce, Goa	7th October, 2020: Dept. of Microbiology, Govt. College of Arts, Science and Commerce, Goa
National Webinar on UPGRADATION IN TEACHING AND LEARNING WITH PROPER DOCUMENTATION	IQAC, J.K.College, Purulia, W.B.	14th October, 2020: IQAC, J.K.College, Purulia, W.B.
International Webinar on Materials in Medicine	Dept. of Chemistry, Biochemistry & IQAC, MSE ASMABI College, Kerala	3 rd -5 th October 2020: Dept. of Chemistry, Biochemistry & IQAC, MSE ASMABI College, Kerala
National Webinar <i>on Integrating Energy, Climate Change and Development</i>	<i>Department of Management, Mizoram University</i>	<i>8th September , 2020: Department of Management, Mizoram University</i>
National Webinar on <i>MAGNETIC NANOPHOTOCATALYSTS FOR ENVIRONMENTAL APPLICATIONS</i>	<i>Dept. of Chemistry, N. C. (Auto) College, Jajpur, Odisha</i>	<i>11.10.2020: Dept. of Chemistry, N. C. (Auto) College, Jajpur, Odisha</i>
International Webinar on <i>Emerging Technologies in Drug Delivery and Development</i>	<i>Department of Chemistry, Nizam College , Osmania University, Hyderabad</i>	<i>04th - 05th September 2020: Department of Chemistry, Nizam College , Osmania University, Hyderabad</i>
International Webinar on <i>Recent trends in Chemistry in the fields of Medicine and Industry</i>	<i>Department of Chemistry, Presidency University, Kolkata</i>	<i>5th September 2020: Department of Chemistry, Presidency University, Kolkata</i>
National Webinar on <i>Recent Trends in Chemical Science</i>	<i>AURO University, Surat, Gujura</i>	<i>AURO University, Surat, Gujura</i>
National Webinar on <i>Nanotechnology in Food Processing and Preservation</i>	<i>Department of Food Engineering, NIFTEM</i>	<i>21st August 2020: Department of Food Engineering, NIFTEM</i>
National Webinar on Advanced Metal-Organic Frameworks (AMOF-2020)	Dept. of Chemistry, VSSUT, Burla, Sambalpur	25 th - 26 th Sept. 2020 Dept. of Chemistry, VSSUT, Burla, Sambalpur

OTHER ACHIEVEMENTS

1, Reviewer of *Material Science Research India*, an Internal Peer review Journal