

Photo

Dr. Sukanti Behera

Designation: Assistant Professor Grade-I

Qualification: PhD

Department: Chemistry

Research Topic: *Materials Chemistry - HER/OER, Solid State Chemistry, Materials Synthesis, Gas Sensor, Thermoelectric*

Contact Details	
Email Id	sukantib@manit.ac.in; sukantib.manit@gmail.com
Phone No.	+91-7552671661 (Off.)
Google Scholar	https://scholar.google.com/citations?hl=en&tzom=-330&user=aKCmg5kAAAAJ
Scopus Author ID	59179801400
Linked In	www.linkedin.com/in/dr-sukanti-behera-000b71137
ORCID	0000-0003-3917-780X
Vidwan	138981

Organization	Start Date	End Date	Degree/ Designation
CeNSE, IISC Bangalore	June 2018	May 2019	Post-Doctoral Fellow
Indian Institute of Science, Bangalore	Aug 2010	June 2017	PhD Scholar
Utkal University, Bhubaneswar, Odisha	2007	2009	M.Phil
Berhampur University, Berhampur, Odisha	2004	2006	M.Sc Chemistry (Analytical Chemistry)
Berhampur University, Berhampur, Odisha	2001	2004	B.Sc Chemistry (Hons.)

Subjects Taught	
U.G	CY1107: Engineering Chemistry
	CY1110: Environmental Science
	CY1126: Engineering Chemistry Practical
P.G	CY512: Inorganic Chemistry I (Coordination Chemistry & Reaction Mechanism)
	CHY525: Materials Chemistry
	CHY 522: Inorganic chemistry -II (General Chemistry & Group Theory)
	CHY 612: Main Group elements & Organometallics
	CHY 615: Inorganic Chemistry Practical Lab - III
	CHY 516: Inorganic Chemistry Lab - I
	CHY518: Seminar
	CHY526: Inorganic Chemistry Lab II & Minor Project -II (Self-learning)

Teaching Experience				
Organization	Start Date	End Date	Designation	Nature of Work

MANIT Bhopal	24 th Dec 2023	Till Date	Assistant Professor, Grade - I	Teaching & Research
MANIT Bhopal	3 rd June 2019	23 rd Dec 2023	Assistant Professor, Grade - II	Teaching & Research
National Institute of Technology Calicut, Kerela	31 st July 2017	9 th May 2018	Ad-hoc Assistant Professor	. Teaching

Ph.D. Supervised/Ongoing			
Name of the Student	Topic	Year of Award	Co-Supervisor (if any)
Avala Ramesh Sch. No. 203102001	Two-dimensional Transition Metal Dichalcogenides: Synthesis and Applications	Ongoing	---
Shimona Diwakar Sch. No. 25302011108	Design and Development of Hydrogen Gas Sensor Based on Metal Oxides Integrated with MOFs	Ongoing	---

Lab Details		
Device or Software	Utilization	Small Picture
NIL		

Sponsored Research Projects (Completed/Ongoing)				
Title	Sponsoring Agency	Duration	Amount	Co-PI (if any)
Thermoelectric performance of hybrid composite materials: Bismuth tellurides and conducting polymer on flexible substrate	UGC-DAE CSR	3 years	~ 6 lakhs	Dr. Dinesh Kumar Shukla
Synthesis and gas sensing studies of Transition metal dichalcogenides (TMDs).	Seed-grant Fund, MANIT Bhopal	2 years	5 lakhs	Nil

Major Consultancy Projects				
Title	Sponsoring Agency	Duration	Amount	Co-Investigator (if any)
NIL				

Publication						
Authors	Title	Journal	Vol. No. Page No.	Year	SCI/ Scopus	Impact Factor
Ramesh, A., Behera, S*	MoS ₂ bulk layer and carbon composite of enhanced catalytic activity for hydrogen evolution reaction.	J. of Electroanalyt ical Chem.	989; 119137	2025	SCI	4.1
Ramesh, A.,	Alkali Metal Assisted	Mater. Adva.	5 (14);	2024	Scop	4.7

Goswami, M., Kumar, S., Behera, S*	Nucleation Growth of stable 1T/2H - MoS ₂ for Hydrogen Evolution Reaction Applications		5922-5931		us	
Behera, S., Kamble, Vinayak B., Vitta, S., Umarji, A. M., Shivakumara, C.,	Synthesis, structure and thermoelectric properties of La _{1-x} NaxCoO ₃ oxides,	Bull. Mater. Sci.	40(12); 1291-1299	2017	SCI	2.1
C Shivakumara, AK John, S Behera , N Dhananjaya, R Saraf	Photoluminescence and photocatalytic properties of Eu ³⁺ -doped ZnO nanoparticles synthesized by the nitrate-citrate gel combustion method	Euro. Phys. J. Plus	132 (1); 44	2017	SCI	2.9
Saraf, Rohit Shivakumara, C. Behera, S., Dhananjaya, N. Nagabhushana, H.	Synthesis of Eu ³⁺ - activated BiOF and BiOBr phosphors: photoluminescence, Judd-Ofelt analysis and photocatalytic properties	RSC Adv.	5(12); 9241-9254	2015	SCI	4.6
Dhananjaya, N. Shivakumara, C. Saraf, Rohit Behera, S. Nagabhushana, H.	Comparative study of Eu ³⁺ -activated LnOCl (Ln = La and Gd) phosphors and their Judd-Ofelt analysis	J. of Rare Earths	33(9); 946-953	2015	SCI	5.0
Saraf, R., Shivakumara, C., Dhananjaya, N., Behera, S., Nagabhushana, H.,	Synthesis and photoluminescence properties of Eu ³⁺ activated Ce _{0.5} Al _{0.5} O _{2-δ} nanophosphors for WLEDs application.	AIP Conf. Proc.	1665; 050172	2015	SCI	-
Saraf, Rohit Shivakumara, C. Behera, S., Nagabhushana, H. Dhananjaya, N.	Facile synthesis of PbWO ₄ : Applications in photoluminescence and photocatalytic degradation of organic dyes under visible light	Spectro. Acta - Part A: Mol. and Biomol.	136	2015	SCI	4.6
Saraf, R., Shivakumara, C., Behera, S., Nagabhushana, H., Dhananjaya	Synthesis of Eu ³⁺ -activated BaMoO ₄ phosphors and their Judd-Ofelt analysis: Applications in lasers	Spectro. Acta - Part A: Mol. and Biomol.	151; 141-148	2015	SCI	4.6
Saraf, Rohit Shivakumara, C Behera, S.,	Photoluminescence, photocatalysis and Judd-Ofelt analysis of Eu ³⁺ -	RSC Adv.	5 (6); 4109-4120	2015	SCI	4.6

Nagabhushana, H Dhananjaya, N	activated layered BiOCl phosphors					
Saraf, Rohit Shivakumara, C. Dhananjaya, N. Behera, S., Nagabhushana, H.	Photoluminescence properties of Eu ³⁺ -activated CaMoO ₄ phosphors for WLEDs applications and its Judd–Ofelt analysis	J. of Mater. Sci.	50 (1); 287-298	2015	SCI	2.269
Shivakumara, C. Saraf, Rohit Behera, S., Dhananjaya, N. Nagabhushana, H.	Scheelite-type MWO ₄ (M=Ca, Sr, and Ba) nanophosphors: Facile Synthesis, structural characterization, photoluminescence, and photocatalytic properties	Mater. Res. Bull.	61; 422-432	2015	SCI	5.6

Patents				
Title	Date of Filing/Publishing/Granting	Agency	Co-Investigator (if any)	Published/Granted/Filed
NIL				

Event Organized/News		
Programme	Duration	Coordinators
National Workshop, “Advances in Material Research, Innovation and Technology (AMRIT-2025)”	23/07/2025 to 27/07/2025	Prof. Amit Dubey (Convener) Dr. Rampal Pandey (Coordinator) Dr. Dharmendar Kumar Sharma (Coordinator) Dr. Sukanti Behera (Coordinator)

Citations			
	h-index	i-10 index	Total Citations
Google Scholar	9	9	624