




GANGADHAR MEHER UNIVERSITY, SAMBALPUR (Faculty Profile)

Name	Dr. Gangadhar Behera			Photograph 
Designation	Assistant Professor			
School	School of Physics			
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ORCID ID	https://orcid.org/0000-0003-3849-0802			
Researcher ID	AAX-8968-2020			
SCOPUS ID	2661083			
PubMed ID				
Qualifications				
Degree	Institution	Year	Subject Details	
BSc	Narasingh Choudhury Autonomous College, Jajapur, Odisha	2004	Physics (Major), Chemistry Mathematics	
MSc	Utkal University, Bhubaneswar, Odisha	2008	Physics	
PhD	Indian Institute of Technology, Kanpur	2016	Physics	
Any other	Regional Institute of Education, Bhubaneswar	2006	BEd (Education)	
Areas of Interest/ Specialization				
<p>Designing and Fabrication of plasmonic, dielectric, Dirac semimetal and semiconductor meta-surfaces that exhibit novel optical properties in application to improve the performance of different photonic devices in visible to infrared, THz and microwave regions. Looking for active, tunable, switching and non-linear optical properties of such plasmonics and metamaterials structures and also how it can be used for sensing, biomedical detection, optical switching, energy harvesting and thermal imaging applications.</p>				
Teaching/Research Experience				
Organization/Institution	Designation	Duration	Role	
Indian Institute of Technology, Kanpur	Research scientist	20-11-2015 to 30-08-2016	Researcher	
Royal Military College of Canada, Canada	Post-doctoral Researcher	06-09-2016 to 31-07-2017	Researcher	
Model Degree College, Malkangiri, Odisha	Assistant Professor	05-10-2017 to 20-02-2020	Teaching	
Awards and Honors (Top Five only)				
<ol style="list-style-type: none"> 1. Best graduate Award in UG 2. CSIR-NET (JRF & SRF) 3. UGC-NET (JRF) 4. GATE 5. JEST 				
International Collaboration/Consultancy (Top Five only)				
<ol style="list-style-type: none"> 1. Y. M. M Antar, Royal Military College of Canada, Canada 				
Extra-mural Projects (Give Details)				
Completed : Projects in hand : Projects submitted:				
PhD Guided/Ongoing				

Publications

Number of Publications:

Books/Monographs :(), Last Five Years (), Last Three Years (), Last One Year ()

Research papers: Total : 8, Last Five Years (8), Last Three Years: 1, Last One Year : 0

Reviews: (), Last Five Years (), Last Three Years (), Last One Year ()

Book chapters: (), Last Five Years (), Last Three Years (), Last One Year ()

Best Peer/Review Publications (Up to 5)

[1] **Gangadhar. Behera** and S. A. Ramakrishna, Enhanced broadband transmission through structured plasmonic thin films for transparent electrodes J. Nanophotonics, 8 083889, 2014.

[2] **Gangadhar Behera**, P. Mandal and S. A. Ramakrishna, Complementary layer pairs of plasmonic ladder-like structured films: Fabrication and Visible-NIR properties, J.Appl. Phys., 118(7), 2015.

[3] **Gangadhar Behera** and S. A. Ramakrishna, Tri-layered composite plasmonic structure with a nano-hole array for multiband enhanced absorption at visible to NIR frequencies:plasmonic and metamaterial resonances, J. Phys. D: Appl. Phys., 49(075103), 2016.

[4] **Gangadhar Behera** and S. A. Ramakrishna, Polarization dependent enhanced infrared transmission through complementary nanostructured gold films, J. Optics., 18(055013), 2016

[5] J. K. Pradhan, **Gangadhar Behera**, A. Agarwal, A. Ghosh and S. A. Ramakrishna, Cermet based metamaterials for multi band absorbers over NIR to LWIR frequencies, J. Phys. D: Appl. Phys, 50(24)(245104), 2017.

Paper Presentation in Major Conferences (Up to 5)

[1]. Nov 18th 2015 Talk on “Enhanced optical properties through a complementary pairs of nanostructured plasmonic thin films”, 2nd URSI-Regional Conference on Radio Science, Jawaharlal Nehru University, New Delhi, India.

[2]. Apr 7th 2015 Invited talk on “Design of multiband perfect absorber by using the comsol multiphysics”, Fundamentals and Applications of Metamaterials, Indian Institute of technology, Kanpur, India.


[3]. Mar 18th 2015 Invited talk on “Integrated approach to fabricate the metal nano-structured for device application, Indian Institute of technology”, Workshop on Micro and Nano-fabrication, Kanpur, India.

[4]. Feb 26th 2015 Poster presentation on “Enhance optical properties through a structured plasmonic thin films”, 8th India Singapore Symposium in Condensed Matter Physics Indian Institute of technology, Kanpur, India.

[5]. Jan 7th 2013 Poster presentation on “Optical properties of the silica monolayer”, Indo – Us bilateral workshop, Indian Institute of science, Bangalore, India.

Patents (if any)**Memberships of Professional Bodies/Societies (Up to 5)****Other Details (Academic/Research Related)****Research Matrix [Current]**

Database	Total citations	Total publications	Open Access	h-index
WoS	33	8	8	4
Publons	33	8	8	4
Scopus	33	8	8	4
PURE				
GS	33	8	8	4
RG				
ICI				


(Signature)