




GangadharMeher University, Sambalpur (Faculty Profile)

Name	Pranati Purohit			
Designation	Assistant Professor			
School	School of Physics			
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ORCID ID	https://orcid.org/0000.0003-2174-2401			
Researcher ID				
SCOPUS ID	57195693312			
PubMed ID				
Qualifications				
Degree	Institution	Year	Subject Details	
BSc	R.D Womens' College, Bhubaneswar	1996	Physics (Hons), Chemistry, Mathematics	
MSc	Utkal University, Vani Vihar, Bhubaneswar	1998	Physics with Electronics and Instrumentation (Spl)	
MPhil	Sambalpur University, JyotiVihar, Burla	1999	Physics	
PhD	Sambalpur University, JyotiVihar, Burla	2015	Physics	
Any other				
Areas of Interest/ Specialization				
Low dimensional semiconductors, Nano materials, Piezoelectric materials and devices				
Teaching/Research Experience				
Organization/Institution	Designation	Duration	Role	
EAST, Bhubaneswar, Odisha	Sr. Lecturer	September 2001-July 2007	Teaching B.Tech	
The NorthCap University, Gurugram	Assistant Professor	August 2007-February 2020	Teaching BSc, B.tech, M.Tech and Ph.D	
Awards and Honors (Top Five only)				
National scholarship in 1991				

International Collaboration/Consultancy (Top Five only)
None
Extra-mural Projects (Give Details)
Completed : Projects in hand : Projects submitted:
PhD Guided/Ongoing
Publications
Number of Publications: Books/Monographs : (0), Last Five Years (0), Last Three Years (0), Last One Year (0) Research papers: Total : (11), Last Five Years (5), Last Three Years (3), Last One Year (1) Reviews: (02), Last Five Years (02), Last Three Years (02), Last One Year (02) Book chapters: (0), Last Five Years (0), Last Three Years (0), Last One Year (0)
Best Peer/Review Publications (Up to 5)
<ol style="list-style-type: none"> 1. P. Purohit, Y.K.Yadav and S.S.K Titus, "Low Force Measurement Based on Impedance of a Piezo-resonator," MAPAN-Journal of Metrology Society of India, 2017,Vol 32, (4), pp293-296 doi:10.1007/s12647-017-0219-3. (Springer) 2. P. Purohit, Y. K. Yadav and S.K. Jain, "A Study of Determination of Dynamic Viscosity in Liquids Using Radial Mode Piezo-resonator," Ferroelectrics, 2017,Vol. 519(1), pp 236-240 doi:10.1080/00150193.2017.1362273. (Taylor &Francis) 3. P.Purohit, Indu Elizabeth, S.S.K Titus and S.K. Jain, "Optimization of a Piezoelectric Mechanical Amplifier Actuator for Nano-indentation" Integrated Ferroelectrics, Vol 202, No.1, 2019, pp144-150. (Taylor &Francis) 4. P. Purohit, D. K. Roy, S. P. Pati, S. Sahoo, "Conduction of Electrons in Quantum Wires of Circular Cross-section" Indian Journal of Science and Technology, 2016 Decembe (48),pp 1-6 doi:10.17485/ijst/2016/v9i48/105748. 5. P.Purohit, D. K. Roy, S. P. Pati, and S. Sharma, "Quantum Mechanical Tunneling of Electrons in Quantum Wire p-n Junctions", Adv. Sci. Lett., 20,2014,pp 1700-1702.
Paper Presentation in Major Conferences(Up to 5)
<ol style="list-style-type: none"> 1. P.Purohit and S.K.Jain "Status of poly crystalline relaxor-PT piezoelectric ceramics" International Conference on Nanotechnology for Better Living, 2016 (NBL-2016), 25-29 May,2016, Research Publishing, Singapore,Vol.3, NO.1, Page 24, doi:10.3850/978-981-09-7519-7nbl16-rps-24. 2. P.Purohit, S. K. Jain, R. Chawla and N. Dahiya "Design and Study of a Piezoelectric Actuator with Mechanical Amplification" 2nd National Conference on Recent Developments in Electronics (NCRDE-2016) University of Delhi, South Campus, 17-18 Feb, 2017, Page no. 30-33. 3. Pranati Purohit, Dillip.K. Roy and Shankar.P. Pati, "On the Calculation of Energy Eigen States of Electrons in a Spherical Quantum Dot", Proc. SPIE 8549, 16th International Workshop on Physics of Semiconductor Devices, 85491J, October 15, 2012, doi:10.1117/12.923801 S.P.Pati, P.R.Tripathy, S.K.Choudhury, M.Mukharjee, P.Purohit , "Si, SiCHomojunctions and n-SiC/p-Si Heterojunction MM-wave Performance

Characteristics”, Proc. SPIE 8549, 16th International Workshop on Physics of Semiconductor Devices, 85490P, October 15, 2012, doi:10.1117/12.926955.

5. **P.Purohit**, S.Satapathy, S.K.Dash, I.P.Mishra and S.P.Pati, “Microwave Performance of Proposed Double Bump Double Drift Diode”, Proceedings of Advances in Microwaves and Light waves, Allied Publishers Limited, March 2000, pp. 142-145.

Patents (if any)

None

Memberships of Professional Bodies/Societies (Up to 5)

Life member of Metrology Society of India (MSI)

Life member of Orissa Physical Society (OPS)

Other Details (Academic/Research Related)

Research Matrix [Current]

Database	Total citations	Total publications	Open Access	h-index	
WoS					
Publons					
Scopus	5	7		2	
PURE					
GS	15	14		2	
RG					
ICI					