

List of Publications:

INTERNATIONAL

1. Effect of external Magnetic field on the co-existence of superconductivity and anti-ferromagnetism in Rare earth nickel borocarbides Salila Das and Prakash Chandra Padhi, *Int. J. Mod. Phys. B30*, 1650044 (2016) [13 pages] DOI: 10.1142/S0217979216500442.
2. Magnetic moment of Baryons S. Panda and Salila Das International Journal of Engineering Research and Science and Technology 3,204-208 (2013).
3. Theory of Hole Superconductivity-11 S. Das and N. C. Das **Phys. Rev. B 50(1994)4131**
4. Thermodynamic properties based on Hole pairing model S. Das and N. C. Das **Physica 225 (1994) 167**
5. Theory of Hole Superconductivity in High T_c Superconductors BCS-GORKOV Formalism in Extended Hubbard Model Salila Das and N. C. Das **Solid State Commn. 81(1992)867.**
6. Hole pairing and dependence of transition temperature on carrier concentration in High T_c superconductors Salila Das and N. C. Das **Physica C 193(1992) 8.**
7. Theory of Hole Superconductivity S. Das and N. C. Das Phys. Rev. B 46(1992) 6451.

National Journals:

1. Study of superconductivity & Antiferromagnetism in rare earth Nickel borocarbide, Salila Das & Preeti Suman Dash, IOSR Journal of Applied Physics Vol-9, Issue-3 May-June 2017 .
2. Coexisting of Magnetism & superconductivity in HoNiB₂C, S. Das, P.S. Dash, P. Patro & P. Rath Orissa Journal of Physics Vol.24, No-1 February 2017
3. Theoretical model for iron-based magnetic super conducts, Salila Das, International Journal Adv Res 5(6), 1886-1889, June 2017.
4. Theory of electronic heat capacity of rare earth ternary superconductors S. Panigrahi , S.Das and N. C. Das. Physics **Teacher, October-December (1990)176.**
5. Superconducting Gap function and upper critical field in the presence of inhomogeneous magnetic field P.C. Padhi, S. Panigrahi, S. Das and N. C. Das **Bull. Matir. 14(1991)029.**

Conferences Attended (2015-2018)

- Participated in “National Seminar on Optics and Photonics” Organised by NIST ISTE CHAPTER in collaboration with Optical Society of India on 23rd January 2015.
- Participated in international conference on “INNOVATIVE APPLICATIONS OF CHEMISTRY IN PHARMACOLOGY & TECHNOLOGY” organized by P.G. Department of chemistry, Berhampur University, India on 6-8 February 2015.
- Participated in “National Workshop on Biotechnology for Economic Enhancement of Rural Community in Southern Region of Odisha” organized by Department of Zoology, Berhampur University on 11th September 2015.

- Participated in “SAKSHAM-IT Champion Training Program” organized by Microsoft, 25th-30th September, 2015 at Berhampur University.
- Contributed a paper and participated in International Conference “ICFMST-15” organized by NIST, Berhampur, 10th-12th December, 2015.
- Invited talk on “Co-existence of Superconductivity and antiferromagnetism in rare earth nickel borocarbide compounds” in International Conference on New trends in Field Theories, 6th to 10th November 2016, Banaras Hindu University, Banaras.
- Participated in the workshop cum training program in recent development and future trends of Bioinformatics in Biological Science on 26th – 27th December 2016 organized by P.G. Department of Zoology Berhampur University.
- Participated in National Seminar in 34th Annual Convention of Orissa Physical Society on 11-12th Feb -2017, P.G. Department Of Physics Berhampur University, Bhanja Bihar, Berhampur.
- National workshop on Matlab for mathematical applications 22-23rd January 2017 organized by Institute of Mathematics & Applications, Bhubaneswar
- Participated on workshop on physics experiments for CBCS Syllabus 23.8.2017 organized by P.G. Department of Physics, Berhampur University.
- Participated in National Seminar in 35th Annual Convention of Orissa Physical Society on 10-11th Feb -2018, Department Of Physics B.J.B. College, Bhubaneswar.
- As a resource person to the seminar in the Department of Physics of Khemundi College, Digapahandi on 17.01.2018
- To attend and present a paper in national seminar at NISER, Bhubaneswar, 17.11.2018 and 18.11.2018
- Participated in a national seminar on beach erosion and anthropogenic organize by P.G. Department of Zoology, Berhampur University on 29.03.18 & 30.03.2018.
- Participated and present a paper on International seminar on Emerging Trends in Physics and Applications, 36th Convention of OPS at Parla Maharaja Engineering college ,Berhampur from 2nd Feb to 4th February 2019.
- Participated and presented a paper in National Seminar on Recent Advances in Physics 23rd March to 24th March 2019 organised by P.G Department of Physics, Berhampur University.