

Department of Physics
Islamic University of Science and Technology

List of Publications (year-wise)

2015

- ❖ Ionospheric influences on GPS signals in terms of range delay
(<http://elpub.wdcb.ru/journals/rjes/doi/2015ES000555-res.html>)

2016

- ❖ Evaluation of long term solar activity effects on GPS derived TEC
(<https://iopscience.iop.org/article/10.1088/1742-6596/759/1/012069/pdf>)
- ❖ Thin film growth of multiferroic La_{0.8}Bi_{0.2}Fe_{0.7}Mn_{0.3}O₃ on LaNiO₃ using RF sputtering and its characterization
(<https://www.sciencedirect.com/science/article/abs/pii/S0167577X16308187?via%3Dihub>)

2017

- ❖ Centrality Dependence of the Particle Yield and Their Ratios in RHIC Experiment
(<https://go.gale.com/ps/i.do?id=GALE%7CA516633721&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=10637761&p=AONE&sw=w&userGroupName=anon%7Eaa797fa6>)
- ❖ Study of ionospheric TEC variability over low, mid and high latitudes during solar maximum and its comparison with IRI-2012 and IRI-2016 model
(<https://ui.adsabs.harvard.edu/abs/2017A%26AT...30..223A/abstract>)
- ❖ Centrality and system size dependence of ϕ meson production at RHIC
(<https://iopscience.iop.org/article/10.1209/0295-5075/118/41001>)
- ❖ Structural, vibrational and NMR spectroscopic investigations of newly synthesized 3-((ethylthio)(4-nitrophenyl)methyl)-1H-indole
(<https://www.sciencedirect.com/science/article/abs/pii/S0022286017306968?via%3Dihub>)
- ❖ Anharmonic vibrational and electronic spectral study of 2-amino-4-hydroxy-6methylpyrimidine: A combined experimental (FTIR, FTRaman, UVeVis) and theoretical (DFT, MP2) approach

(<https://www.sciencedirect.com/science/article/abs/pii/S0022286017309286?via%3Dihub>)

- ❖ Anharmonic vibrational spectral analysis of L-(-)-xylose molecule
(<https://www.worldscientific.com/doi/abs/10.1142/S0219633617500596>)
- ❖ Study of nanosized copper-doped ZnO dilute magnetic semiconductor thick films for spintronic device applications
(<https://link.springer.com/article/10.1007%2Fs00339-017-1457-5>)
- ❖ Some observations on Levy stability and intermittency in nucleus-nucleus interactions at SPS energies
(<https://www.sciencedirect.com/science/article/abs/pii/S0577907316304063?via%3Dihub>)
- ❖ Some Features of Statistical Quantum Chromodynamics in Relativistic Heavy Ion Collisions
(<https://www.ijsr.net/archive/v6i1/ART20164072.pdf>)
- ❖ Methodology of Wavelets in Relativistic Heavy Ion Collisions in One Dimensional Phase Space (η -Space)
(<https://www.scirp.org/journal/paperinformation.aspx?paperid=74913>)

2018

- ❖ The role of the elemental nature of $A = 3$ nuclei in neutron-rich nuclei
(<https://www.worldscientific.com/doi/abs/10.1142/S021830131850060X>)
- ❖ Variability of Geomagnetic Field with Interplanetary Magnetic Field at Low, Mid and High Latitudes
(<https://www.banglajol.info/index.php/JSR/article/view/34509>)
- ❖ CdZnO coated film: A material for photovoltaic applications
(<https://www.sciencedirect.com/science/article/pii/S221137971830038X?via%3Dihub>)
- ❖ Electronic structure, mechanical and thermodynamic properties of BaPaO₃ under pressure
(<https://link.springer.com/article/10.1007%2Fs00894-018-3666-z>)
- ❖ Predicting the electronic structure, magnetism, and transport properties of new Co-based Heusler alloys
(<https://onlinelibrary.wiley.com/doi/abs/10.1002/er.4182>)
- ❖ DFT understandings of structural properties, mechanical stability and thermodynamic properties of BaCfO₃ perovskite

(<https://iopscience.iop.org/article/10.1088/2053-1591/aad9eb>)

- ❖ A Comprehensive Review of Properties of Screen-Printed Pure and Doped ZnO and CdO Thick Films

(<http://www.eurekaselect.com/article/91488>)

- ❖ Impact of Inter-Wall Distance on Physical Properties of Metal-Semiconducting Double Walled Carbon Nanotube Quantum Dot

(https://jnep.sumdu.edu.ua/en/full_article/2472)

- ❖ Perovskite Solar Cells: The Challenging Issues for Stable Power Conversion Efficiency

(<https://www.intechopen.com/chapters/60961>)

- ❖ Dielectric and Electromagnetic Shielding Investigations of Activated charcoal Loaded Acrylic composite Films

(http://www.ijarse.com/images/fullpdf/1522761107_JK1022IJARSE.pdf)

- ❖ Investigating structure, magneto-electronic, elastic and thermoelectric properties of alkaline earth actinide perovskite oxide (BaBkO₃) from first principle calculations

(<https://www.sciencedirect.com/science/article/abs/pii/S2352214318302697>)

- ❖ First principles understanding of structural electronic and magnetic properties of new quaternary Heusler alloy: FeVRuSi

(<https://iopscience.iop.org/article/10.1088/2053-1591/aac253/meta>)

- ❖ Sun: It's Structure and Phenomena

(<https://www.lap-publishing.com/catalog/details/store/gb/book/978-613-4-99965-6/sun:-it-s-structure-and-phenomena?search=sun>)

- ❖ Material Science Techniques

(<https://www.lap-publishing.com/catalog/details/store/ru/book/978-613-9-81448-0/material-science-techniques?search=Material%20Science%20Techniques>)

2019

- ❖ Fluctuations in produced charged particle multiplicities in relativistic nuclear collisions for simulated events

(<https://inspirehep.net/files/aa74f4429c28d7d2938f98cb0cb93772>)

- ❖ Study of magneto capacitance effect, exchange bias, XMCD and XAS in La_{0.8}Bi_{0.2}Fe_{0.7}Mn_{0.3}O₃/LaNiO₃/LaAlO₃ multiferroic thin film
(<https://iopscience.iop.org/article/10.1088/1361-648X/ab229c>)

2020

- ❖ High-spin doublet band structures in odd–odd 194–200Tl isotopes
(<https://link.springer.com/article/10.1140%2Fepja%2Fs10050-020-00206-9>)
- ❖ Effect of variations in the gas mixture compositions on the timing and charge of glass RPC
(<https://iopscience.iop.org/article/10.1088/1748-0221/15/01/C01003>)

2021

- ❖ Three-phonon multiplets in ¹¹⁶Sn
(<https://www.sciencedirect.com/science/article/abs/pii/S0375947421002402>)
- ❖ Systematic study of near-yrast band structures in odd-mass ¹²⁵⁻¹³⁷Pr and ¹²⁷⁻¹³⁹Pm isotopes
(<https://journals.aps.org/prc/abstract/10.1103/PhysRevC.104.044322>)
- ❖ Evidence of antimagnetic rotational motion in ¹⁰³P
(<https://journals.aps.org/prc/abstract/10.1103/PhysRevC.103.024324>)
- ❖ Broad-band spectral and timing properties of MAXI J1348–630 using AstroSat and NICER observations
(<https://academic.oup.com/mnras/article-abstract/505/1/713/6273160?redirectedFrom=fulltext>)
- ❖ The revised locus of control scale: its reliability, validity and norms establishment
([http://s3-ap-southeast-1.amazonaws.com/ijmer/pdf/volume10/volume10-issue5\(1\)/36.pdf](http://s3-ap-southeast-1.amazonaws.com/ijmer/pdf/volume10/volume10-issue5(1)/36.pdf))
- ❖ Triaxial projected shell model study of γ -bands in atomic nuclei
(https://epja.epj.org/articles/epja/abs/2021/11/10050_2021_Article_620/10050_2021_Article_620.html)
- ❖ Study of canonical spin glass behavior in Co doped LaMnO₃
(<https://aip.scitation.org/doi/full/10.1063/9.0000142>)
- ❖ XAS and XPS analysis of double magnetic transition, canonical spin glass behavior and magnetoresistance in LaMn_{1-x}CoxO₃ (0.1 ≤ x ≤ 0.5) system
(<https://www.sciencedirect.com/science/article/pii/S0272884220333319?via%3Dihub>)

- ❖ Signature of Intermittency during Emission of Target Associated Particles in Heavy Ion Collisions at SPS Energies.
(<https://scik.org/index.php/jmcs/article/view/5515/0>)
- ❖ Study of Ground State Properties in Atomic Nuclei using Hartree Fock Bogoliubov Approach
(<https://drive.google.com/file/d/1-LqCQG0RQWQxKG9liDfAUkyi2sKGgNAj/view>)