

Research Publications During 2019 to 2023

2024

@article{irshad2024exploring,
title={Exploring the magnetic, optical and dielectric properties of Cr-doped hematite (α -Fe (2- x) Cr_xO₃): A comprehensive study},
author={Irshad, Iqra and Lone, Abdul Gaffar and Want, Basharat},
journal={Journal of Alloys and Compounds},
volume={971},
pages={172696},
YEAR={2024},
publisher={Elsevier}}

@article{fatema2024structural,
title={Structural analysis, ferroic properties with enhanced magnetoelectric coupling in novel (1-x) BiFeO₃-(x) GdFeO₃ nanocomposites},
author={Fatema, Mehroosh and Mala, Nazir Ahmad and Qahtan, Aref AA and Manzoor, Samiya and Somvanshi, Anand and Mahboob, Hajra and Want, Basharat and Khan, Wasi and Husain, Shahid and others},
journal={Journal of Alloys and Compounds},
volume={976},
pages={173268},
YEAR={2024},
publisher={Elsevier}}

@article{ganie2024elucidating,
title={Elucidating the structure, ferroic properties and magnetoelectric coupling in Dy-doped BiFeO₃ nanostructures},
author={Ganie, Asif Nazir and Rather, Mehraj ud Din and Want, Basharat},
journal={Journal of Materials Science: Materials in Electronics},
volume={35},
number={2},
pages={168},
YEAR={2024},
publisher={Springer US New York}}

@article{irshad2024tuning,
title={Tuning of magnetic and dielectric properties of Gallium doped hematite (α -Ga_xFe (2- x) O₃) nanospheres},
author={Irshad, Iqra and Nazir, Asif and Want, Basharat},
journal={Journal of Alloys and Compounds},
volume={984},
pages={173901},

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YEAR={2024},  
publisher={Elsevier}  
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@article{dar2024optical,  
title={Optical, thermal and semiempirical study of Samarium bi-tartrate trihydrate},  
author={Dar, Faheem A and Bujran, M Ashraf and Want, Basharat},  
journal={Current Applied Physics},  
YEAR={2024},  
publisher={North-Holland}  
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@article{tahir2024doping,  
title={Doping effect of Europium (Eu3+) on flower-like ZnO nanostructures: shape variations,  
optical properties and its applicability in electrochemical sensing of heavy metal (Lead) ion  
detection},  
author={Tahir, Asma and Want, Basharat},  
journal={Applied Physics A},  
volume={130},  
pages={217},  
YEAR={2024}
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@article{nazir2024electrochemical,  
title={Electrochemical detection and catalytic reduction of nitrobenzene using  
a bimetallic NiS2/Fe3S4 magnetic heterostructure: an innovative approach for  
environmental remediation},  
author={Nazir, Irfan and Haq, Zia Ul and Bashir, Arshid and Qureashi, Aaliya  
and Ganaie, Firdous Ahmad and Fatima, Kaniz and Irfan, Sheikh and Dar, Ghulam  
Nabi and Pandith, Altaf Hussain},  
journal={New Journal of Chemistry},  
volume={48},  
number={11},  
pages={4909--4921},  
YEAR={2024},
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@article{rashid2024dephasing,  
title={Dephasing effects on quantum correlations and teleportation in presence  
of state dependent bath},  
author={Rashid, Mehboob and Lone, Muzaffar Qadir and Ganai, Prince A},  
journal={Modern Physics Letters B},  
volume={38},  
number={06},  
pages={2350245},  
YEAR={2024},  
publisher={World Scientific Publishing Company}
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@article{rashid2024quantum,  
title={Quantum non-Markovianity of a qubit in presence of state dependent  
bath},  
author={Rashid, Mehboob and Lone, Muzaffar Qadir and Ganai, Prince A},  
journal={Physica Scripta},  
volume={99},  
number={4},  
pages={045117},  
YEAR={2024},  
publisher={IOP Publishing}
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@article{rather2024unique,
title={Unique observations and interactions over the low-mid latitude transition region: Simultaneous study of plasma blobs, MSTIDs and plasma irregularities},
author={Rather, Mohammad Rafeeq and Bhat, Aashiq Hussain and Ramkumar, TK and Malik, Manzoor A},
journal={Advances in Space Research},
volume={73},
number={7},
pages={3578--3594},
YEAR={2024},
publisher={Elsevier}}

@article{bhat2024role,
title={The Role of Convectively-Generated Gravity Waves in Poleward Propagation of MSTIDs Over Srinagar (34.1° N, 74.8° E)},
author={Bhat, Aashiq Hussain and Rather, Mohammad Rafeeq and Ramkumar, TK and Malik, Manzoor Ahmad},
journal={Journal of Geophysical Research: Space Physics},
volume={129},
number={1},
pages={e2023JA032199},
YEAR={2024},
publisher={Wiley Online Library}}

@article{dar2024can,
title={Can FSRQ 3C 345 be a Very High Energy blazar candidate?},
author={Dar, Athar A and Sahayanathan, Sunder and Shah, Zahir and Iqbal, Naseer},
journal={Monthly Notices of the Royal Astronomical Society},
volume={527},
number={4},
pages={10575--10583},
YEAR={2024},
publisher={Oxford University Press}}

@article{boked2024time,
title={Time resolved spectroscopy of a GRS 1915+ 105 flare during its unusual low state using AstroSat},
author={Boked, Sajad and Maqbool, Bari and V, Jithesh and Misra, Ranjeev and Bhat, Naseer I and Bhulla, Yashpal},
journal={Monthly Notices of the Royal Astronomical Society},
volume={528},
number={4},
pages={7016--7026},
YEAR={2024},
publisher={Oxford University Press}}

@article{manzoor2024broadband,
title={Broadband spectral and temporal study of Ton 599 during the brightest January 2023 flare},
author={Manzoor, Aaqib and Shah, Zahir and Sahayanathan, Sunder and Iqbal, Naseer and Dar, Athar A},
journal={Monthly Notices of the Royal Astronomical Society},
pages={stae588},
YEAR={2024},
publisher={Oxford University Press}}

2023

@article{najar2023effect,
title={Effect of rare-earth Eu³⁺ and Tb³⁺ ions on the optoelectrical parameters of lithium sulfate monohydrate crystals},
author={Najar, Fayaz A and Bhat, Bilal H and Naik, Mudasar M and Mir, Feroz A and Vakil, Gowher B},
journal={Optical and Quantum Electronics},
volume={55},
number={5},
pages={421},
YEAR={2023},
publisher={Springer}}

@article{ahmad2023crystallographic,
title={Crystallographic, optical, dielectric, thermal, and ferroelectric characteristics of gel-grown RbHC₄H₄O₆ single crystals},
author={Ahmad, Nazir and Vakil, GB},
journal={Journal of Materials Science: Materials in Electronics},
volume={34},
number={16},
pages={1285},
YEAR={2023},
publisher={Springer}}

@article{nazir2023triaxial,
title={Triaxial projected shell model approach for negative parity states in even-even nuclei},
author={Nazir, Nazira and Jehangir, S and Rouoof, SP and Bhat, GH and Sheikh, JA and Rather, N and Malik, Manzoor A},
journal={Physical Review C},
volume={108},
number={4},
pages={044308},
YEAR={2023},

@article{yousuf2023effects,
title={Effects of calibration uncertainties on the detection and parameter estimation of isotropic gravitational-wave backgrounds},
author={Yousuf, Junaid and Kandhasamy, Shivaraj and Malik, Manzoor A},
journal={Physical Review D},
volume={107},
number={10},
pages={102002},
YEAR={2023},

@article{khanday2023statistical,
title={Statistical description of galaxy clusters in Finzi model of gravity},
author={Khanday, Abdul W and Upadhyay, Sudhaker and Iqbal, Naseer and Ganai, Prince A},
journal={Physica Scripta},
volume={98},
number={6},
pages={065019},
YEAR={2023},
publisher={IOP Publishing}}

@article{manzoor2023understanding,
title={Understanding the very high energy γ -ray excess in nearby blazars using leptonic model},
author={Manzoor, Aaqib and Sahayanathan, Sunder and Shah, Zahir and Bhattacharyya, Subir and Iqbal, Naseer and Malik, Zahoor},
journal={Monthly Notices of the Royal Astronomical Society},
volume={525},
number={3},
pages={3533--3540},
YEAR={2023},
publisher={Oxford University Press}

@article{khanday2023large,
title={Large scale structure formation for conformal theory of gravity},
author={Khanday, Abdul W and Upadhyay, Sudhaker and Iqbal, Naseer and Ganai, Prince A},
journal={General Relativity and Gravitation},
volume={55},
number={9},
pages={101},
YEAR={2023},
publisher={Springer US New York}

@article{dar2023predicting,
title={Predicting and understanding the structural stability, origin of half-metallic magnetic nature, and study of opto-electronic properties of Cs₂KXCl₆: X= Ti and V double perovskites},
author={Dar, Suhail A and Want, Basharat},
journal={Journal of Physics and Chemistry of Solids},
volume={174},
pages={111135},
YEAR={2023},
publisher={Pergamon}

@article{ganie2023unravelling,
title={Unravelling the linear and biquadratic magnetoelectric coupling in Ba_{0.95}Sn_{0.05}Ti_{0.95}Ga_{0.05}O₃--CoFe_{1.8}Ga_{0.2}O₄ particulate multiferroic composites},
author={Ganie, Asif Nazir and Mala, Nazir Ahmad and Fatema, Mehroosh and Ansari, Daud Ahmad and Lone, Abdul Gaffar and Want, Basharat and Husain, Shahid and others},
journal={Journal of Alloys and Compounds},
volume={946},
pages={169266},
YEAR={2023},
publisher={Elsevier}

@article{hassan2023enhancement,
title={Enhancement in the magneto-dielectric and ferroelectric properties of BaTiO₃--CoFe_{1.9}Yb_{0.1}O₄ core-shell multiferroic nanocomposite},
author={Hassan, Nahida and Rashid, Mudasir and Samad, Rubiya and Jahan, Saima and Want, Basharat and Gull, Muntazir and Sultan, Khalid},
journal={Journal of Alloys and Compounds},
volume={941},

pages={168841},
YEAR={2023},
publisher={Elsevier}

@article{dar2023structure,
title={Structure, optical transition analysis and magnetic study of lanthanide based metal-organic framework: Holmium bi-tartrate trihydrate},
author={Dar, Faheem A and Want, Basharat},
journal={Physica Scripta},
volume={98},
number={9},
pages={095943},
YEAR={2023},
publisher={IOP Publishing}

@article{rahman2023investigation,
title={Investigation of the Ferroelectric, Magnetic and Magnetoelectric Properties in Honeycomb-Layered YCrTeO6},
author={Rahman, Raja Altaf U and Mala, Nazir Ahmad and Rather, Mehraj ud Din and Rather, Gowher Hameed and Parray, Ishfaq Ahmad and Shahzadi, Asma and Saqib, Sonabar and Husain, Shahid and Want, Basharat},
journal={Journal of Electronic Materials},
volume={52},
number={6},
pages={4011--4019},
YEAR={2023},
publisher={Springer US New York}

@article{rather2023unravelling,
title={Unravelling the linear and biquadratic magnetoelectric coupling in Ba_{0.95}Sn_{0.05}Ti_{0.95}Ga_{0.05}O₃-CoFe_{1.8}Ga_{0.2}O₄ particulate multiferroic composites},
author={Rather, Mehraj Ud Din and Ganie, Asif Nazir and Mala, Nazir Ahmad and Fatema, Mehroosh and Ansari, Daud Ahmad and Lone, Abdul Gaffar and Want, Basharat and Husain, Shahid},
journal={JOURNAL OF ALLOYS AND COMPOUNDS},
volume={946},
YEAR={2023},
publisher={ELSEVIER SCIENCE SA PO BOX 564, 1001 LAUSANNE, SWITZERLAND}

@article{mohi2023comparative,
title={A comparative analysis of radon (²²²Rn) concentration in the different water sources of Ganderbal, Jammu and Kashmir},
author={Mohi u Din, Mehak and Simnani, Shakeel and Nazir, Salik and Masood, Sajad and Chakan, Mohammad Rafiq and Rani, Supriya and Singla, Amit Kumar and Saleem, Shahid},
journal={Radiation Detection Technology and Methods},
volume={7},
number={4},

pages={627--635},
YEAR={2023},
publisher={Springer}

@article{aalim2023effect,
title={Effect of chromium (Cr)-doping on electrochemical performance of microwave synthesized hematite (α -Cr_xFe_{2-x}O₃) nanosheets for supercapacitor application},
author={Aalim, Malik and Irshad, Iqra and Tantray, Ab Mateen and Sohail, Aamir and Want, Basharat and Shah, MA},
journal={Journal of Materials Science: Materials in Electronics},
volume={34},
number={18},
pages={1409},
YEAR={2023},
publisher={Springer US New York}

@phdthesis{want2023all,
title={All candidates who have been exempted from the entrance test and have successfully submitted their online form for the Ph. D. Programme (2023) in Physics are here},
author={Want, Basharat Ahmad},
YEAR={2023},
school={Department of Physics, University of Kashmir}

@article{jahan2023electric,
title={Electric, magnetic, and magneto-dielectric properties of bilayered multiferroic Pb_{0.95}R_{0.05}Zr_{0.52}Ti_{0.48}O₃/CoPr_{0.1}Fe_{1.9}O₄ (R= Pr, Yb) thin films},
author={Jahan, Saima and Rather, Mudasir Rashid and Abass, Shohaib and Najar, Feroz A and Hassan, Nahida and Samad, Rubiya and Sultan, Khalid and Want, Basharat},
journal={Journal of Materials Science: Materials in Electronics},
volume={34},
number={23},
pages={1668},
YEAR={2023},
publisher={Springer US New York}

@article{rather2023electric,
title={Electric and magnetic properties of 0.9 PbZr_{0.52}Ti_{0.48}O₃-0.1 CoR_{0.02}Fe_{1.98}O₄ (R= Sm, Y, and Pr) multiferroic composites},
author={Rather, Mudasir Rashid and Hassan, Nahida and Abass, Shohaib and Najar, Feroz A and Samad, Rubiya and Jahan, Saima and Want, Basharat and Sultan, Khalid},
journal={Indian Journal of Physics},
pages={1--8},
YEAR={2023},
publisher={Springer India New Delhi}

@article{malik2023symmetric,
title={Symmetric bidirectional quantum teleportation using a six-qubit cluster state as a quantum channel},
author={Malik, Javid Ahmad and Lone, Muzaffar Qadir and Malla, Rayees Ahmad},

journal={Pramana},
volume={97},
number={1},
pages={50},
YEAR={2023},
publisher={Springer India New Delhi}

@article{dar2023toward,
title={Toward new energy storage devices: Electrochemical and photovoltaic performance of SnSe/Fe, SnSe/Ni nanospherical composites},
author={Dar, Mohd Arif and Mala, Nazir Ahmad and Govindarajan, D and Dar, GN and Siva, C and Rather, Aafaq A and Ahamed, S Rafi},
journal={Inorganic Chemistry Communications},
volume={148},
pages={110318},
YEAR={2023},
publisher={Elsevier}

@article{dar2023enhanced,
title={Enhanced supercapacitor performance of Mg-doped SnO₂ nanorods synthesized through the solvothermal method},
author={DAR, MOHD ARIF and MALA, NAZIR AHMAD and Bhat, Md YASIR and AHAMED, S RAFI and RATHER, AAFAQ A and BATOO, KHALID MUJASAM and Dar, GN},
journal={Bulletin of Materials Science},
volume={46},
number={2},
pages={69},
YEAR={2023},
publisher={Indian Academy of Sciences Bangalore}

@article{bhat2023decoherence,
title={Decoherence in a PT-symmetric qubit},
author={Bhat, Junaid Majeed and Lone, Muzaffar Qadir and Datta, Sanjoy and Dar, GN and Farouk, A},
journal={Ukrainian journal of physics},
volume={68},
number={2},
pages={101--101},
YEAR={2023}

@article{shah2023porous,
title={Porous pentagraphene nanotube halogen gas sensor: a first principles study},
author={Shah, Khurshed A and Parvaiz, M Shunaid and Dar, GN},
journal={Advances in Natural Sciences: Nanoscience and Nanotechnology},
volume={14},
number={2},
pages={025016},
YEAR={2023},
publisher={IOP Publishing}

@article{showket2023pristine,
title={Pristine and modified silicene based volatile organic compound toxic gas sensor: a first principles study},
author={Showket, Shazia and Shah, Khurshed A and Dar, GN},
journal={Physica Scripta},
volume={98},

number={8},
pages={085937},
YEAR={2023},
publisher={IOP Publishing}

2022

@article{shah2022carbon,
title={Carbon nanotube logic gates: An interplay of spin and light},
author={Shah, Khurshed A and Parvaiz, M Shunaid and Dar, GN and Misra, Prabhakar},
journal={Journal of Applied Physics},
volume={131},
number={20},
YEAR={2022},
publisher={AIP Publishing}

@article{dar2022dephasing,
title={Dephasing effects on the low-energy dynamics of ϕ 4-model},
author={Dar, Irfan A and Lone, Muzaffar Qadir and Najar, Imtiyaz A and Dar, Ghulam N},
journal={International Journal of Modern Physics B},
volume={36},
number={26},
pages={2250175},
YEAR={2022},
publisher={World Scientific Publishing Company}

@article{qayoom2022modified,
title={Modified solution combustion-grown Zn-doped Ni--Mg ferrite nanostructures for room temperature NH₃ sensing},
author={Qayoom, Mubashir and Irfan, Sheikh and Malik, Gazala Farooq and Shah, Khurshed Ahmad and Lone, Muzaffar Qadir and Kumar, Ramasamy Thangavelu Rajendra and Dar, Ghulam Nabi},
journal={Journal of Materials Science: Materials in Electronics},
volume={33},
number={34},
pages={25645--25660},
YEAR={2022},
publisher={Springer US}

@article{malik2022study,
title={Study of superconducting fluctuations in YBCO+ xBZO composites},
author={Malik, Bilal A and Asokan, K and Malik, Manzoor A},
journal={Journal of Low Temperature Physics},
pages={1--11},
YEAR={2022},
publisher={Springer US}

@article{najar2022effect,
title={Effect of γ -radiations on the optoelectrical parameters of coumarin-poly vinyl alcohol composite thin films},

author={Najar, Fayaz A and Mir, Feroz A and Vakil, Gowher B and Dar, Suhail A and Ghayas, Baseerat},
journal={Radiation Physics and Chemistry},
volume={193},
pages={109973},
YEAR={2022},
publisher={Elsevier}

@article{ganaie2022imager,
title={Imager observation of concentric mesospheric gravity waves over Srinagar, Jammu and Kashmir, India},
author={Ganaie, Bilal Ahmad and Ramkumar, TK and Bhat, Aashiq Hussain and Malik, Manzoor Ahmad},
journal={Advances in Space Research},
volume={70},
number={2},
pages={427--439},
YEAR={2022},
publisher={Elsevier}

@article{najar2022effect,
title={Effect of rare-earth (Re3+) ions on the optoelectrical parameters of lithium sulfate monohydrate crystals},
author={Najar, Fayaz Ahmad and Bhat, Bilal H and Mir, Feroz A and Vakil, Gowher B},
YEAR={2022}

@article{malik2022model,
title={Model-independent redshift estimation of BL Lac objects through very-high-energy observations},
author={Malik, Zahoor and Sahayanathan, Sunder and Shah, Zahir and Iqbal, Naseer and Manzoor, Aaqib and Bhatt, Nilay},
journal={Monthly Notices of the Royal Astronomical Society},
volume={511},
number={1},
pages={994--1003},
YEAR={2022},
publisher={Oxford University Press}

@article{malik2022very,
title={Very-high-energy flat spectral radio quasar candidates},
author={Malik, Zahoor and Sahayanathan, Sunder and Shah, Zahir and Iqbal, Naseer and Manzoor, Aaqib},
journal={Monthly Notices of the Royal Astronomical Society},
volume={515},
number={3},
pages={4505--4513},
YEAR={2022},
publisher={Oxford University Press}

YEAR={2022},
publisher={Oxford University Press}

@article{zahoor2022very,
title={Very High Energy Flat Spectral Radio Quasar Candidates},
author={Zahoor, Malik and Sahayanathan, Sunder and Zahir, Shah and Iqbal, Naseer and Manzoor, Aaqib},
journal={arXiv preprint arXiv:2204.03229},
YEAR={2022}

@article{dar2022computer,
title={Computer based predictions of structural stability and systematic study of magneto-electronic and optical properties of lead free halide double perovskites: Cs₂KXCl₆: X= Co and Ni},
author={Dar, Suhail A and Want, Basharat and Khandy, Shakeel Ahmad},
journal={Journal of Magnetism and Magnetic Materials},
volume={545},
pages={168603},
YEAR={2022},
publisher={North-Holland}}

@article{dar2022cs2tlbii6,
title={Cs₂tlbii₆: Direct Bandgap Lead-Free Double Perovskite Halide for Solar Cell Applications},
author={Dar, Suhail A and Want, Basharat},
journal={Available at SSRN 4017499},
YEAR={2022}}

@article{dar2022dft,
title={DFT study of structural, mechanical, and opto-electronic properties of scadium-based halide double perovskite Cs₂ScInBr₆ for optoelectronic applications},
author={Dar, Suhail A and Want, Basharat},
journal={Micro and Nanostructures},
volume={170},
pages={207370},
YEAR={2022},
publisher={Elsevier}}

@article{dar2022photovoltaic,
title={Photovoltaic and Supercapacitor performance of SnSe nanoparticles prepared through co-precipitation method},
author={Dar, Mohd Arif and Govindarajan, D and Batoo, Khalid Mujasam and Hadi, Muhammad and Dar, GN},
journal={Materials Technology},
volume={37},
number={10},
pages={1396--1409},
YEAR={2022},
publisher={Taylor & Francis}}

@article{dar2022direct,
title={Direct band gap double perovskite halide Cs₂ScInCl₆ for optoelectronic applications—A first principle study},
author={Dar, Suhail A and Want, Basharat},
journal={Computational Condensed Matter},
volume={33},
pages={e00736},
YEAR={2022},
publisher={Elsevier}}

@article{dar2022analysis,

title={Analysis of structural stability and optoelectronic properties of new direct band gap halide double perovskites Cs₂XRhCl₆: X= Na, K—a first principle study},
author={Dar, Suhail A and Want, Basharat},
journal={Solid State Communications},
volume={355},
pages={114928},
YEAR={2022},
publisher={Pergamon}

@article{thakur2022fabrication,
title={Fabrication of Bi-component Co--Cr doped M-type Sr-hexagonal ferrites: their structural, hysteresis, and susceptibility performance metrics},
author={Thakur, Manisha and Singh, Charanjeet and Godara, Sachin Kumar and Want, Basharat Ahmad and Srivastava, AK},
journal={Journal of Materials Science: Materials in Electronics},
volume={33},
number={28},
pages={22421--22434},
YEAR={2022},
publisher={Springer US New York}

@article{rashid2022time,
title={Time evolution of quantum correlations in presence of state dependent bath},
author={Rashid, Mehboob and Lone, Muzaffar Qadir and Ganai, Prince A},
journal={Physica Scripta},
volume={97},
number={7},
pages={075104},
YEAR={2022},
publisher={IOP Publishing}

@article{qayoom2022synthesis,
title={Synthesis of sodium acetate oriented Ni (II)-doped iron oxide nanospheres for efficient acetone sensing},
author={Qayoom, Mubashir and Shah, Khurshed A and Firdous, Arfat and Dar, Ghulam Nabi},
journal={Sensors International},
volume={3},
pages={100150},
YEAR={2022},
publisher={Elsevier}

@article{qayoom2022modification,
title={Modification of structural, topographical and magnetic properties induced by Ag ion irradiations in pure and divalent metal (Zn²⁺ and Co²⁺)-doped iron oxide thin films},
author={Qayoom, Mubashir and Shah, Khurshed A and Asokan, K and Sulania, Indra and Dar, Ghulam Nabi},
journal={Journal of Materials Science: Materials in Electronics},
volume={33},
number={8},
pages={5661--5677},

YEAR={2022},
publisher={Springer US}

2021

@article{dar2021comparing,
title={Comparing the electrochemical performance of bare SnS and Cr-doped SnS nanoparticles synthesized through solvothermal method},
author={Dar, MA and Govindarajan, D and Dar, GN},
journal={Physics of the Solid State},
volume={63},
number={9},
pages={1343--1350},
YEAR={2021},
publisher={Pleiades Publishing}

@article{malik2021study,
title={Study on excess conductivity in YBCO+ x Ag composites},
author={Malik, Bilal A and Rather, Gowher H and Asokan, K and Malik, Manzoor A},
journal={Applied Physics A},
volume={127},
pages={1--10},
YEAR={2021},
publisher={Springer Berlin Heidelberg}

@article{bhat2021study,
title={Study of canonical spin glass behavior in Co doped LaMnO₃},
author={Bhat, Farooq H and Khan, Ghazala A and Kataria, Gitansh and Kumar, Ravi and Sahdev, Deshdeep and Malik, Manzoor A},
journal={AIP advances},
volume={11},
number={2},
YEAR={2021},

@article{ramkumar2021airglow,
title={Airglow-imager based observation of possible influences of subtropical mesospheric gravity waves on F-region ionosphere over Jammu & Kashmir, India},
author={Ramkumar, TK and Malik, Manzoor Ahmad and Ganaie, Bilal Ahmad and Bhat, Aashiq Hussain},
journal={Scientific Reports},
volume={11},
number={1},
pages={10168},
YEAR={2021},
publisher={Nature Publishing Group UK London}

@article{bhat2021xas,
title={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},
author={Bhat, FH and Anjum, G and Kumar, Ravi and Malik, Manzoor A and Choudhary, RJ and Shukla, DK},

journal={Ceramics International},
volume={47},
number={5},
pages={6753--6763},
YEAR={2021},
publisher={Elsevier}

@article{bhat2021northward,
title={Northward propagation of medium scale traveling ionospheric disturbances over Srinagar, J and K India},
author={Bhat, Aashiq Hussain and Ganaie, Bilal Ahmad and Ramkumar, TK and Malik, Manzoor A},
journal={Advances in Space Research},
volume={68},
number={9},
pages={3806--3813},
YEAR={2021},
publisher={Elsevier}

@article{bhat2021simultaneous,
title={Simultaneous detection of medium-scale traveling ionospheric disturbances and ionospheric plasma irregularities over Srinagar, J\&K, India},
author={Bhat, Aashiq Hussain and Ganaie, Bilal Ahmad and Ramkumar, TK and Chaitanya, P Pavan and Malik, Manzoor A},
journal={Acta Geophysica},
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number={3},
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