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Address: Jaipur ,Rajasthan,India - 302004

Expertise

Condensed Matter Physics

Electronic structure and Magnetic Properties of materials. Radiation Physics

Work experience

1. University of Rajasthan 2013 — Present

Assistant Professor
Jaipur

2. Oil and Natural Gas Corporation Ltd 2012 — 2013

Scientific Officer
Mehasana

Education

1. Ph.D. - 2017

University of Rajasthan

2. M.Sc. - 2009

Honours and Awards

1. TARE Fellowship - 2021

DST-SERB

Research Project

Structural and Magnetic Properties of Heusler Alloys

Role: Principal Investigator

Year 2021, Amount 1803000

Membership In Professional Bodies

1. Indian Association of Physics Teachers , 2021

Lifetime Member

2. Neutron Scattering Society of India , 2018

Life Member

Membership In Committees

Publication

1. Study of bismuth oxide/polystyrene composites as flexible electrodes for super capacitors

Yadav D.K.;Yadav A.;Singh S.;Payal R.S.;Jakhar N.;Jain S.K.;Tripathi B.

Materials Today: Proceedings, Volume , Year 2023

2. **Impact of Mn^{2+} - Si^{4+} co-substitution on the electronic structure of $Zn_{0.3}Mn_{0.7}Fe_2O_4$ ferrites studied by X-ray photoelectron spectroscopy**
Komal K. Jani ., Pooja Y. Raval ., Nimish H. Vasoya ., Monika Nehra ., Mamraj Singh ., Narendra Jakhar ., Sandeep Kumar ., Kunal B. Modi ., Dong-Kwon Lim ., Rishi Kumar Singhal .,
Ceramics International, Volume 48, Year 2022, Pages 31843-31849
3. **State-of-the-Art Review of Organic Phase Change Materials for Low-Temperature Thermal Energy Storage Technology**
, Year 2022
4. **Study of dielectric response of $BaTiO_3$ /PVA composites for energy storage applications**
Yadav A.;Yadav D.K.;Choudhary B.L.;Jakhar N.;Jain S.K.;Tripathi B.
Materials Today: Proceedings, Volume 67, Year 2022, Pages 894-899
5. **Study of CNT Intercalated Bi_2O_3 /PVDF Composite for Super Capacitors Applications**
Yadav D.K.;Yadav A.;Meena K.;Devat K.;Mishra J.K.;Sahu R.;Jain S.K.;Dixit A.;Srivastava N.;Patodia T.;Jakhar N.;Tripathi B.
Macromolecular Symposia, Volume 399, Year 2021
6. **Effect of $BaTiO_3$ Nanofillers on the Energy Storage Performance of Polymer Nanocomposites**
Yadav A.;Yadav D.K.;Mishra J.K.;Sahu R.;Jain S.K.;Dixit S.;Agarwal G.;Jakhar N.;Tripathi B.
Macromolecular Symposia, Volume 399, Year 2021
7. **Control growth of $NiFe_2O_4$ phase in thermal annealed α - Fe_2O_3 / $NiFe_2O_4$ nanocomposites for the beneficial magnetic application**
Jena S.;Mishra D.K.;Soam A.;Jakhar N.;Mallick P.
Applied Physics A: Materials Science and Processing, Volume 127, Year 2021
8. **Ca^{2+} - substitution effect on the electronic structure of $CaCu_3Ti_4O_{12}$ studied by electron spectroscopy for chemical analysis**
Komal K. Jani ., Divyesh V. Barad ., Pooja Y. Raval ., Monika Nehra ., Nimish H. Vasoya ., Narendra Jakhar ., Kunal B. Modi ., Sandeep Kumar ., Dong-Kwon Lim ., Rishi Kumar Singhal .,
Ceramics International, Volume 47, Year 2021, Pages 5542-5548
9. **Electronic structure, orbital symmetry transformation, charge transfer, and valence state studies on Fe^{3+} - substituted $CaCu_3Ti_4O_{12}$ quadruple perovskites using X-ray photoelectron spectroscopy**
Urmila M. Meshiya ., Pooja Y. Raval ., Pooja R. Pansara ., Monika Nehra ., Narendra Jakhar ., Sandeep Kumar ., Kunal B. Modi ., Dong-Kwon Lim ., Rishi Kumar Singhal .,
Ceramics International, Volume 46, Year 2020, Pages 2147-2154
10. **Switching-on superparamagnetism in diluted magnetic $Fe(III)$ doped $CdSe$ quantum dots**
Yadav A.N.;Bindra J.K.;Jakhar N.;Singh K.
CrystEngComm, Volume 22, Year 2020, Pages 1738-1745

11. Graphene derivative based high dielectric constant polymer composite electrodes for supercapacitors
Srivastava N.;Patodia T.;Yadav A.;Yadav D.;Jakhar N.;Sharma K.B.;Tripathi B.
Materials Today: Proceedings, Volume 42, Year 2019, Pages 1657-1660
12. Characterization of Am-Be neutron source based PGNA setup using aqueous solutions of Chlorine and Boron
Meena D.;Gupta S.K.;Palsania H.S.;Jakhar N.;Chejara N.;Meena P.
International Journal of Radiation Research, Volume 17, Year 2019, Pages 301-308
13. Effect of Co and O defects on ferromagnetism in Co-doped ZnO: An X-ray absorption spectroscopic investigation
Singhal R.;Jakhar N.;Samariya A.;Dolia S.;Kumar S.
Physica B: Condensed Matter, Volume 530, Year 2018, Pages 1-6
14. Defects studies in as-synthesized and neutron-irradiated Mn, Li co-doped ZnO using Positron Annihilation Spectroscopy
Jakhar N.;Chejara N.;Singhal R.K.;Dolia S.N.;Gupta S.K.;Palsania H.S.;Prashant B.L.
2018 19th International Scientific Conference on Electric Power Engineering, EPE 2018 - Proceedings, Volume , Year 2018, Pages 1-5
15. X-ray Absorption Spectroscopic Investigation of Ferromagnetic Ni-doped ZnO
Jakhar N.;Samariya A.;Sharma S.C.;Dhawan M.;Palsania H.S.;Dolia S.N.;Singhal R.K.
Macromolecular Symposia, Volume 376, Year 2017
16. Study of Doppler broadening in neutron irradiated ADS related materials using positron annihilation spectroscopy
Palsania H.S.;Chejara N.;Jakhar N.;Meena D.;Gupta S.K.;Bharti A.;Kumar V.;Vijay Y.K.
Proceedings - 2016 17th International Scientific Conference on Electric Power Engineering, EPE 2016, Volume , Year 2016
17. XPS study of some dilute magnetic semiconductors
Singhal R.K.;Sharma S.C.;Jakhar N.
AIP Conference Proceedings, Volume 1391, Year 2011, Pages 62-64