



मानवाधिकारों का साहित्य : विविध आयाम

डॉ. न. पु. काळे



मानवाधिकारों का साहित्य : विविध आयाम

प्रा. डॉ. न.पु. काळे
सहायक प्राध्यापक
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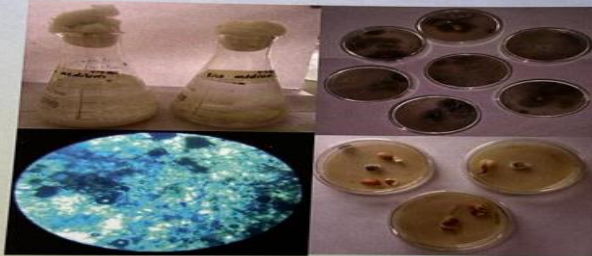
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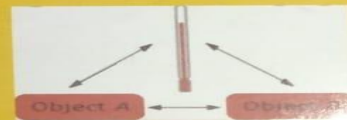
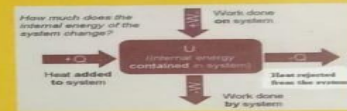
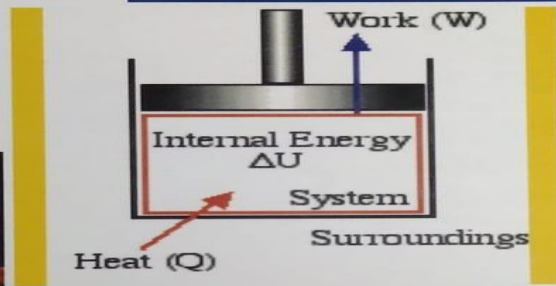


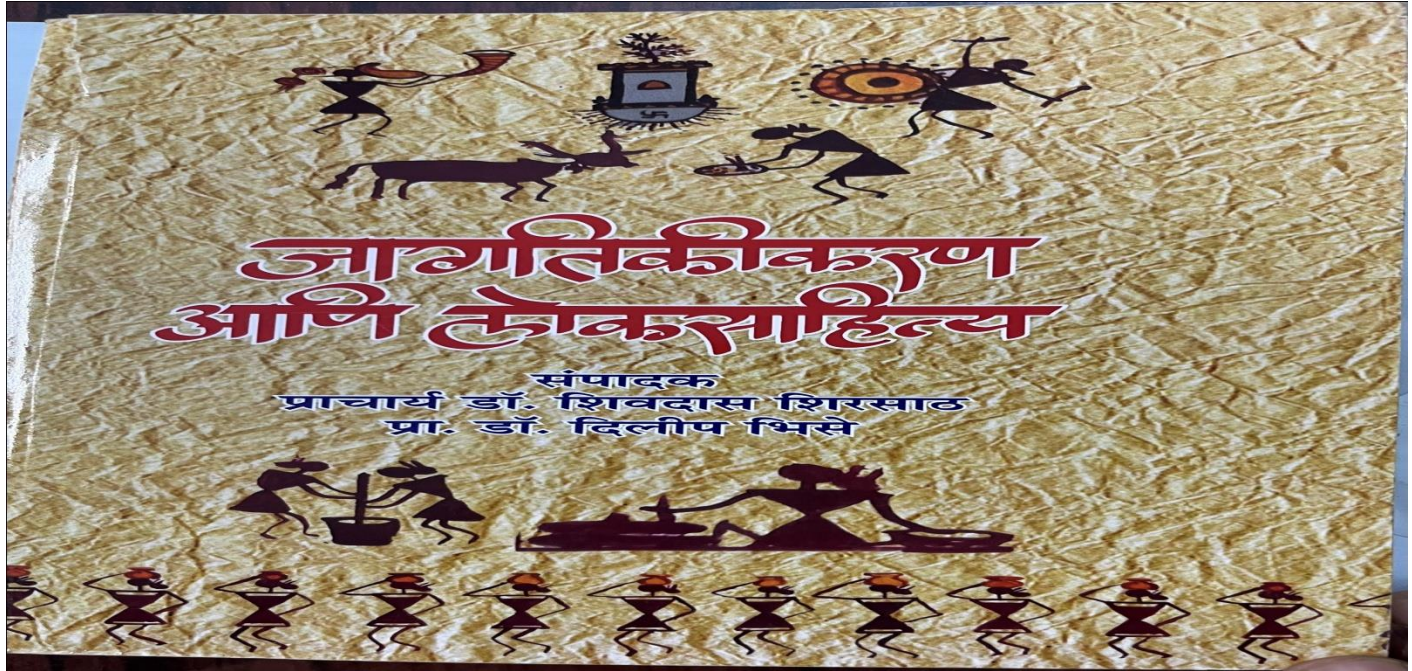
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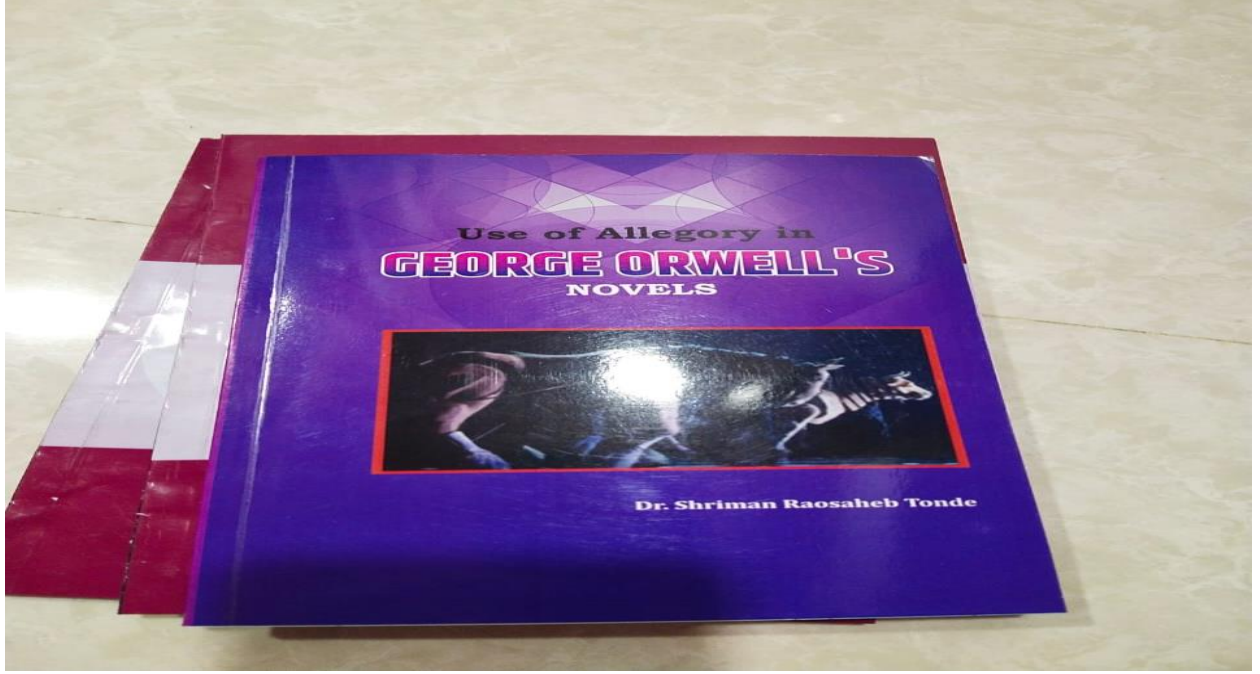
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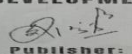
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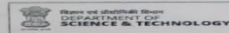
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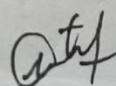
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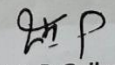
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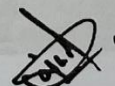
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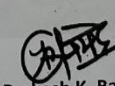
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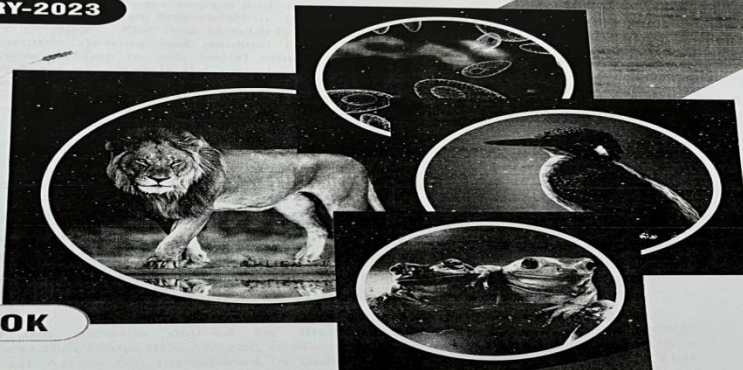
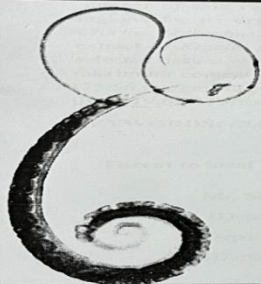


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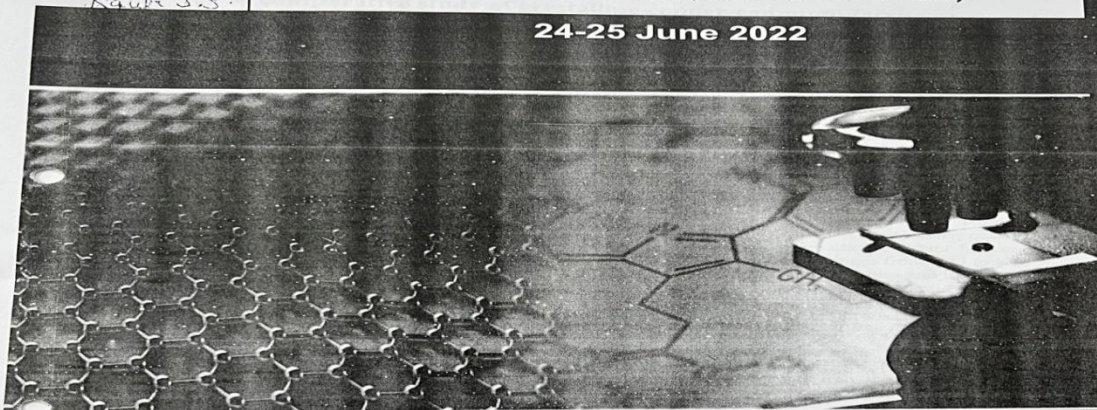


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Viscosity deviations ($\Delta\eta$) of propionaldehyde with n-propanol at temperatures- 298.15, 308.15 and 318.15 K

Satish B. Maulage¹, Pandit R. Khakre²
Mrs. K.S.K. Arts, Science and Commerce College, Beed. (MS)
Mail id: satishmaulage@gmail.com

Abstract: Binary excess molar volumes, excess free energies of activation of viscous flow ΔG^{*E} and viscosity deviations of propionaldehyde with n-propanol are determined by measuring densities and viscosities over the range of all compositions at three temperatures 298.15, 308.15 and 318.15 K. Other thermodynamic parameters like molar volumes V_m and excess free energies of activation of viscous flow ΔG^{*E} of these binary mixtures are also estimated by using the experimental data. All estimated values of these properties are correlated using the Redlich-Kister polynomial equation to obtain their coefficients and standard deviations. It is that in all cases the experimental data obtained fitted with the values correlated by the corresponding model very well. The molecular interactions existing between the component molecules have also been discussed in this paper.

Key words: Excess molar volume, Viscosity deviation and excess free energies of activation of viscous

Abstract Id- ICMSNSA2023/A-54

Preparation and Characterization of Copper Oxide Nanofluids for Heat Transfer Application

S. S. Raut^{1*}, A. A. Wadewale², S. V. Kshirsagar¹, K. M. Jadhav³

¹K. S. K. College, Beed -431112
²Devgiri College, Aurangabad 431004 (M.S.),
³University Department of Basic and Applied Sciences,
MGM University Aurangabad 431003 (M.S.).

*Corresponding author: raut.shivaji@rediffmail.com

Abstract: In the present work copper oxide (CuO) nanoparticles were prepared by well-known sol-gel auto combustion method. The as prepared powder of CuO was annealed at 850°C for 6 h to remove the water content and impurities if any present. X-ray diffraction tool was employed to study the crystal structure and phase analysis. X-ray diffraction pattern and their analysis confirm that CuO nanoparticles possesses single phase monoclinic structure. The crystallite size determined from Debye Scherrer formula was obtained to be 36 nm. The lattice constant calculated from XRD data is found to be in the reported range. The prepared CuO nanoparticles were dispersed in deionised water and ethylene glycol mixture in the 1:1 ratio to make a nanofluid. The thermal conductivity measurement for different volume fraction of the nanofluid shows that enhancement in thermal conductivity with increasing volume fraction. The stability of the prepared nanofluid was verified through zeta potential study. The obtained results on copper oxide nano-fluid are useful for heat transfer applications.

Keywords: CuO nanoparticles, XRD, Sol-gel auto combustion, Nanofluid, Thermal conductivity, Zeta Potential

Keywords – Cobalt ferrite, Sol-gel autocombustion, Debye temperature, Elastic moduli, Elastic wave velocities.

ICNHMSN-P-53

Glycine-assisted Synthesis of Nanocrystalline Cobalt Ferrite Nanoparticles

Rupesh Y. Kokate^{1*}, Shivaji Raut², Swapnil A. Jadhav², S. V. Kshirsagar¹

¹Dept. of Physics, Shri. Mahadevrao patil mahavidyalaya, Murum, Tq. Omerga, Dist. Osmanabad-413606. (MS), India.

²Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004 (MS), India

³Department of physics, Mrs. K.S.K. college, Beed-431122 (MS), India., *Corresponding author:
krupesh748@gmail.com

Abstract

Nanoparticles of CoFe_2O_4 are synthesized by sol-gel auto combustion method using glycine as fuels with corresponding metal nitrates. The prepared samples were characterized by advanced analysis techniques such as XRD, FT-IR, dielectric properties. Pure phase formation of cobalt ferrite with cubic spinel structure was observed for all the samples in X-ray diffraction patterns. The average crystallite size, lattice parameter were calculated from XRD data. FT-IR analysis shows the presence of two expected bands in the frequency attributed to metal-O stretching vibration in tetrahedral site of spinel structure and other parameter like force constant, Debye temperature, the elastic stiffness constant also calculated. Dielectric properties like dielectric constant and dielectric loss tangent was investigated using LCR-Q meter method at varying frequencies. Both dielectric constant and dielectric loss tangent decreases with increasing frequencies.

Keywords: CoFe_2O_4 , combustion method, XRD, FT-IR, Dielectric properties.

Dept. of Physics, Yeshwantrao Chavan College of Arts, Commerce & Science, Sillod, Dist-Aurangabad. 49

KEYWORDS: *Channa argus*, *Catla catla*, *Mystus cavasius*, *Oreochromis mossambicus*

AF-96

Threat to local fish fauna due to invasive species *Oreochromis mossambicus* in two districts of Marathwada region.

Mr. Somnath B. Choure¹, Ms. Shravani C²., Dr. Anil N. Shelke³.

1Department of Zoology, Mrs. K. S. K. College Beed (MS) India

2. Department of Zoology, Devgiri College, Aurangabad. (MS) India.

3Department of Zoology, Mrs. K. S. K. College Beed (MS) India.

Email:- somchoure27@gmail.com

Abstract:-

This study depicts the menace caused by the invasive species of *Oreochromis mossambicus* on local fish fauna like *Mrigal*, *Catla catla*, *Mystus cavasius*, etc. This fish is indigenous to southeast Africa but introduced in India from Thailand and Shrilanka. This species currently exists in at least 114 countries and found to be very harmful to the local fauna. The present study was done by sampling method. The percentage of population found investigated in the local lakes and reservoirs like Nagapur Lake, Majalgaon Lake, and Nathasagar Paithan Lake. This species *Oreochromis mossambicus* now occupies 55% of fish fauna in Nagapur Dam, 40% of fish fauna in Majalgaon Dam and 38.80% of fish fauna in Nathasagar Paithan Dam.

Keywords:- Invasive species, *Oreochromis mossambicus*. Tilapia,

88

International Conference on New Horizons in Materials Science and Nanotechnology-2022

ICNHMSN-P-56

Wet chemical, low temperature synthesis and structural characterization of copper oxide (CuO) nanoparticles

S. S. Raut^{1*}, Vishnu Shinde², S.P. Jadhav³, S. V. Kshirsagar¹

¹ Mrs. K. S. K. College, Beed -431112

² Shivaji College Omerga, Osmanabad (M.S.).

³ Adarsh College, Omerga, Osmanabad (M.S.).

*Corresponding author: raut.shivaji@rediffmail.com

Abstract

In the present work, copper oxide (CuO) nanoparticles have been synthesized using wet chemical temperature sol-gel auto combustion method using citric acid as fuel. The as prepared nanoparticles were sintered for 600°C for 5h in a muffle furnace. X-ray diffraction technique (XRD) was used to investigate the phase purity and for determination of crystal structure. Room temperature XRD pattern analysed by means of Origin software. Single phase formation along with nanocrystalline nature was confirmed through X-ray diffraction analysis. The sintered powder is used to prepare nanofluid. Water and ethylene glycols are used as a base fluid to prepare copper oxide nanofluid. The prepared nanofluid showed good dispersion stability which is useful for heat transfer application.

Keywords: Copper oxide, Wet chemical synthesis, Nanofluid, X-ray diffraction

ICNHMSN-P-57

National Conference on Revolutionary Perceptions in Science and Technology (RPST-2023), 10th and 11th April 2023

Synthesis, Characterization and Thermal behavior of Mixed ligand complexes of Mn(II) and Fe(III) Metals with L-Amino acids and 5-Chloro-8-hydroxyquinoline as ligands

Sonaji V. Gayakwad and Pandit R. Khakre
Dept of chemistry, Mrs. K.S.K. College Beed.
Email: sonajis5@gmail.com

Abstract: The organic ligand contains nitrogen, oxygen and carboxylic acid groups were used for the synthesis of mixed ligand chelated complexes. Mixed ligand complexes of Manganese (II) and Ferrous (III), metals with L-amino acids and 5-Chloro-8-hydroxyquinoline as ligands. The synthesized mixed ligand complexes were characterized by UV-visible spectroscopy, measurements, micro elemental analysis, electrochemical molar conductivity, solubility and the thermal behavior of synthesized complexes were characterized using TGA (Thermo gravimetric analysis) DTA (Differential thermal analysis) methods. The complexes are of (1:1:1) (Metal:5-Chloro-8-HQ: Amino acids) Stoichiometry. The structural analysis indicates a six co-ordinated [M(Amino acid)(5-Chloro-8-HQ)] mixed ligand complexes having distorted octahedral arrangement of bidentate ligand molecules around the central metal atoms in complexes. The magnetic properties were determined by using Gouy balance method. The magnetic moment was found to be in between 3.20 BM to 4.88 BM. This value is calculated by using spin only formula. The weight loss is occurring after 200°C temperature indicates all the complexes are thermally more stable.

Keywords: 5-Chloro-8-hydroxyquinoline, Manganese, ferrous etc.

L-Alanine,

L-Phenylalanine,

Abstract Id- ICMSNSA2023/A-03

Preparation and Characterization of Indium and Aluminum doped Cobalt Spinel Ferrite

Rupesh Y. Kokate¹, Yogesh Ubale², S. V. Kshirsagar³, K.M. Jadahav⁴

¹Department of Physics, Shri. Madhavrao Patil Mahavidyalaya, Murum, Osmanabad-413606 (MS), India.

²Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004 (MS), India

³Department of physics, Mrs. K.S.K. college, Beed-431122 (MS), India.

⁴Department of Physics MGM University Aurangabad -431004 (M.S.) India.

Corresponding author: krupesh748@gmail.com

Abstract: Indium and aluminum co-doped cobalt spinel ferrite ($\text{CoFe}_{2-x}\text{In}_{x/2}\text{Al}_{x/2}\text{O}_4$) for $x = 0.2$, $x = 0.4$ and $x = 0.6$ nanoparticles were synthesized by sol-gel auto combustion method using glycine as a fuel. The prepared nanoparticles were annealed at a temperature of 600°C for 5 h. These annealed nanoparticles are used to characterize by XRD and FT-IR. XRD analysis confirms the single phase and cubic crystal structure of all prepared nanoparticles. Here, we report the structural and infrared properties of pure cobalt ferrite and In-Al co-doped cobalt ferrite ($x = 0.2$). The crystallite size calculated by using Debye-Scherrer formula is of the order of 22nm and 24 nm respectively for pure and co-doped sample. The lattice constant of the pure cobalt ferrite matches well with the reported values and increases after co-doping of In-Al. FT-IR study of pure and In-Al doped cobalt spinel ferrite exhibit the of expected bands in the frequency attributed to metal-O stretching vibration in tetrahedral site of spinel structure and chemical, structural analysis, force constant, Debye temperature, the elastic stiffness constant is also studied with this technique.

Keywords: CoFe_2O_4 , sol-gel auto combustion method, XRD, FT-IR, Debye temperature.