

Rayat Shikshan Sanstha's
Yashavantrao Chavan Institute of Science (Autonomous)
Satara-415001
Scopus Indexed Publications (2020)

(TOTAL 44 Publications)

- 1) Fuzzy supply chain management model for healthcare sector.
- 2) Facile synthesis of nanostructured Ni-Co/ZnO material: An efficient and inexpensive catalyst for Heck reactions under ligand-free conditions.

<https://www.sciencedirect.com/science/article/pii/S1878535220304184?via%3Dihub>



- 3) Greener and Environmentally Benign Methodology for the Synthesis of Pyrazole Derivatives.

<https://chemistry-europe.onlinelibrary.wiley.com/doi/10.1002/slct.202003008>

- 4) Applicability of Mg-ferrite for enhancement of bandwidth in circular MPA at 2.45 GHz.

<https://aip.scitation.org/doi/abs/10.1063/5.0016925>

- 5) Chroococcalean blue green algae from the paddy fields of Satara District, Maharashtra, India.

<https://threatenedtaxa.org/index.php/JoTT/article/view/5683>

- 6) Photoelectrochemical (PEC) Investigation of Ga-Doped MoBi_2Se_5 Thin Films Deposited by Arrested Precipitation Technique.

<https://onlinelibrary.wiley.com/doi/10.1002/masy.201900210>

7) Superhydrophobic Coating Using TiO₂ NPs/PMHS Composite for Self-Cleaning Application.

<https://onlinelibrary.wiley.com/doi/10.1002/masy.202000033>

8) X-Band Microwave Absorption in Nd³⁺-Substituted Mg-Cd Spinel Ferrites Synthesized under Microwave Sintering.

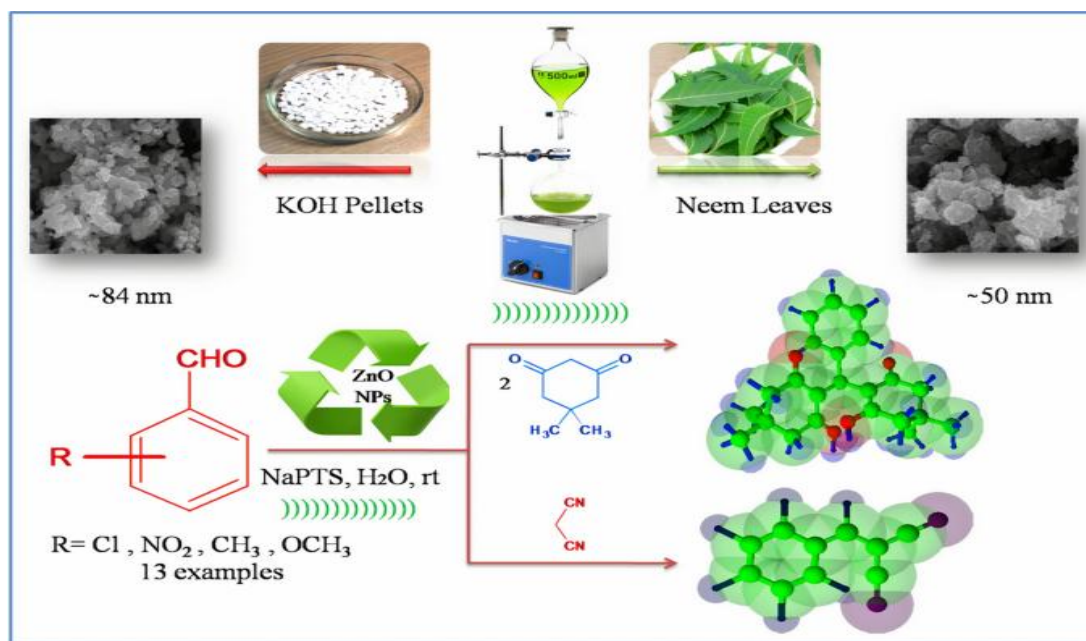
<https://ieeexplore.ieee.org/document/9158361>

9) Synthesis, characterization, and photoelectrochemical performance of nanocrystalline ternary MoxBi(2-x)Se₃ mixed metal chalcogenide thin films.

<https://link.springer.com/article/10.1007%2Fs10854-020-04363-x>

10) Enhanced catalytic activity of bio-fabricated ZnO NPs prepared by ultrasound-assisted route for the synthesis of tetraketone and benzylidenemalonitrile in hydrotropic aqueous medium.

<https://link.springer.com/article/10.1007%2Fs11164-020-04233-5>

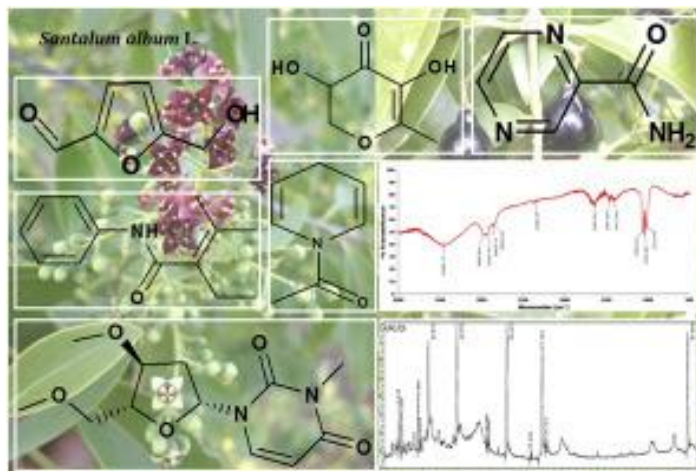


11) Sodium toluene-4-sulfonate as a reusable and ecofriendly catalyst for greener synthesis of 5-aminopyrazole-4-carbonitrile in aqueous medium.

<https://onlinelibrary.wiley.com/doi/10.1002/jhet.4077>

12) Phytochemical investigation and antioxidant efficacy of wild, underutilized berries of economically important Indian Sandalwood (*Santalum album* L.).

<https://www.sciencedirect.com/science/article/abs/pii/S1878818120305879?via%3Dihub>

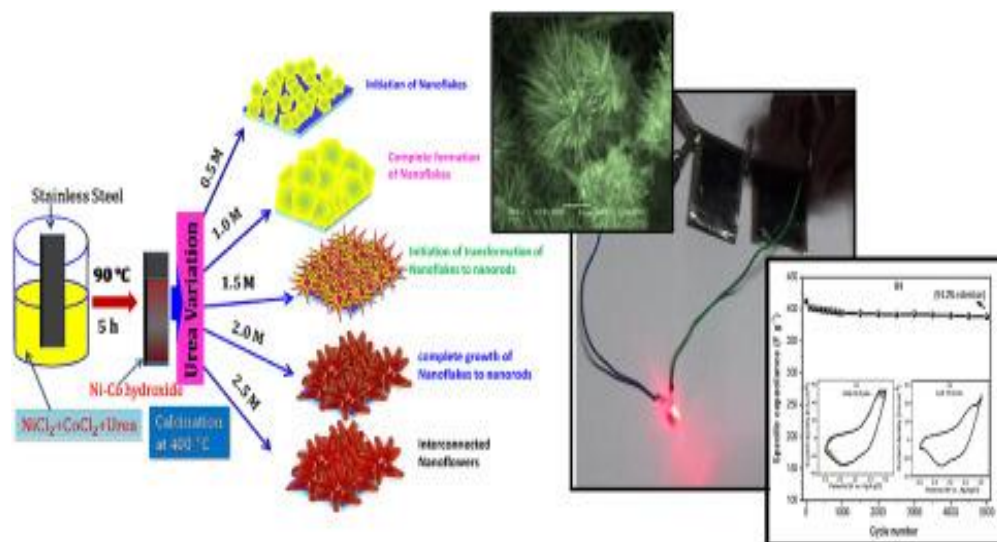


13) A Nonlinear Programming Approach to Solve the Stochastic Multi-objective Inventory Model Using the Uncertain Information.

<https://link.springer.com/article/10.1007%2Fs13369-020-04618-z>

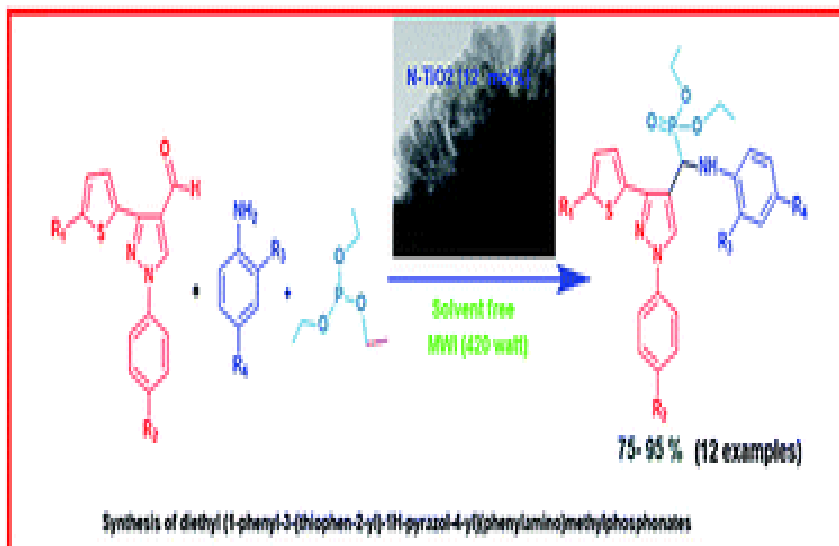
14) Chemical bath synthesis of NiCo₂O₄ nanoflowers with nanorods like thin film for flexible supercapacitor application-effect of urea concentration on structural conversion.

<https://www.sciencedirect.com/science/article/abs/pii/S0013468620308057?via%3Dihub>



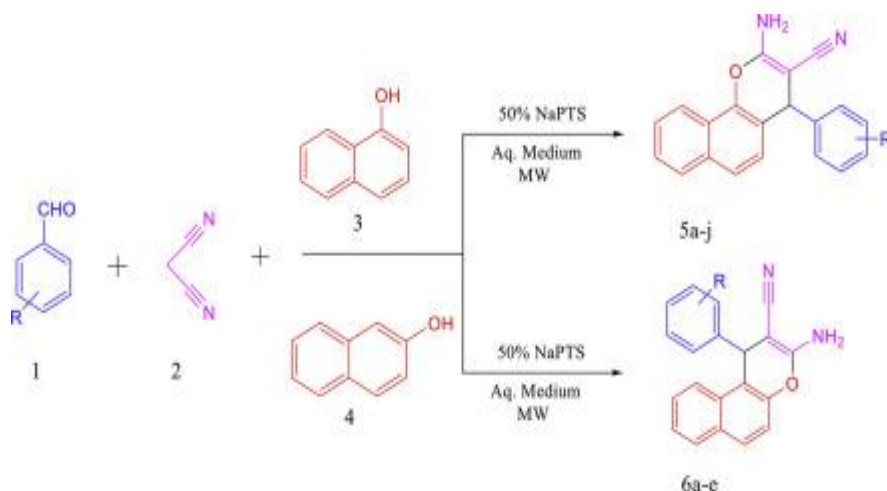
15) Nanostructured N doped TiO₂ efficient stable catalyst for Kabachnik-Fields reaction under microwave irradiation.

<https://pubs.rsc.org/en/content/articlelanding/2020/RA/D0RA04533K>



16) Microwave enhanced green and convenient synthesis of 2-amino-4H-chromenes in aqueous hydrotropic medium.

<https://www.sciencedirect.com/science/article/pii/S2666086520300175?via%3Dihub>

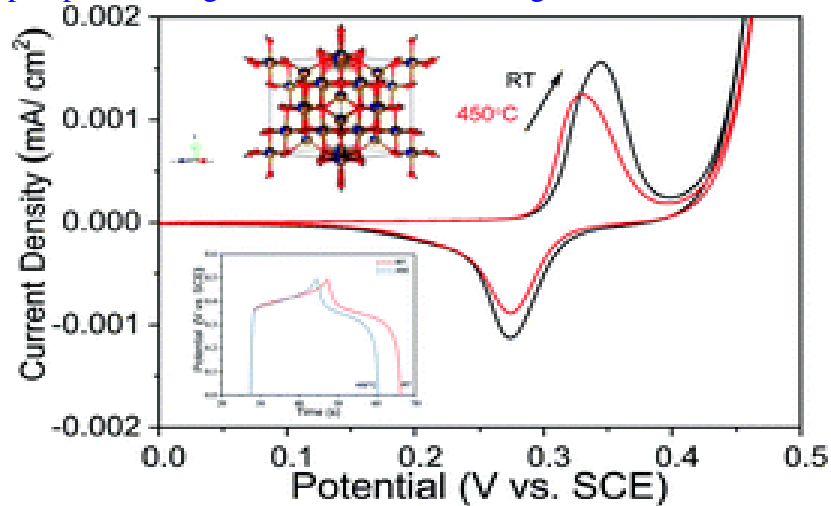


17) Micropropagation, polyphenol content and biological properties of Sweet Flag (*Acorus calamus*): a potent medicinal and aromatic herb.

<https://link.springer.com/article/10.1007%2Fs42535-020-00107-8>

18) Pulsed laser deposited CoFe₂O₄ thin films as supercapacitor electrodes.

<https://pubs.rsc.org/en/content/articlelanding/2020/RA/D0RA02564J>



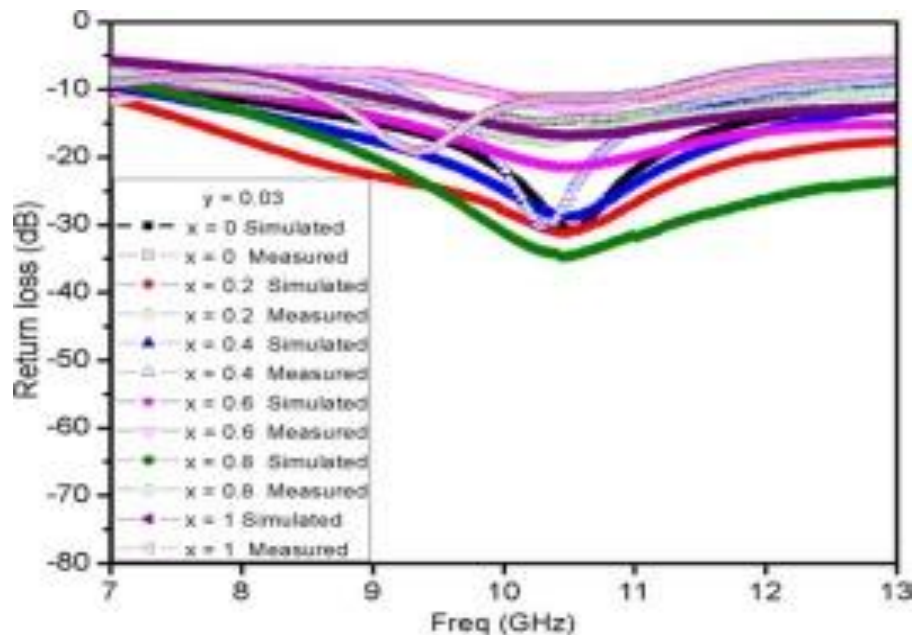
19) Application Studies of Purified Tyrosinase from Isolated Aeromonas sp. SNS with Detailed Characterization and Kinetic Studies.

<https://www.tandfonline.com/doi/abs/10.1080/22311866.2020.1784041>

20) Diversity of desmids from some water bodies of Satara district, Maharashtra (India).

21) Mg-Nd-Cd ferrite as substrate for X-band microstrip patch antenna.

<https://www.sciencedirect.com/science/article/abs/pii/S0304885319316385?via%3Dihub>



22) **Piceatannol: A natural stilbene for the prevention and treatment of cancer.**

<https://www.sciencedirect.com/science/article/abs/pii/S1043661819323035?via%3Dihub>



23) **Bacopa monnieri (L.) Pennell, a potential plant species for degradation of textile azo dyes.**

<https://link.springer.com/article/10.1007%2Fs11356-019-07430-x>

24) **Palladium loaded on ZnO nanoparticles: Synthesis, characterization and application as heterogeneous catalyst for Suzuki–Miyaura cross-coupling reactions under ambient and ligand-free conditions.**

<https://www.sciencedirect.com/science/article/abs/pii/S0254058419313719?via%3Dihub>



25) Chalcogenide nanocomposite electrodes grown by chemical etching of Ni-foam as electrocatalyst for efficient oxygen evolution reaction.

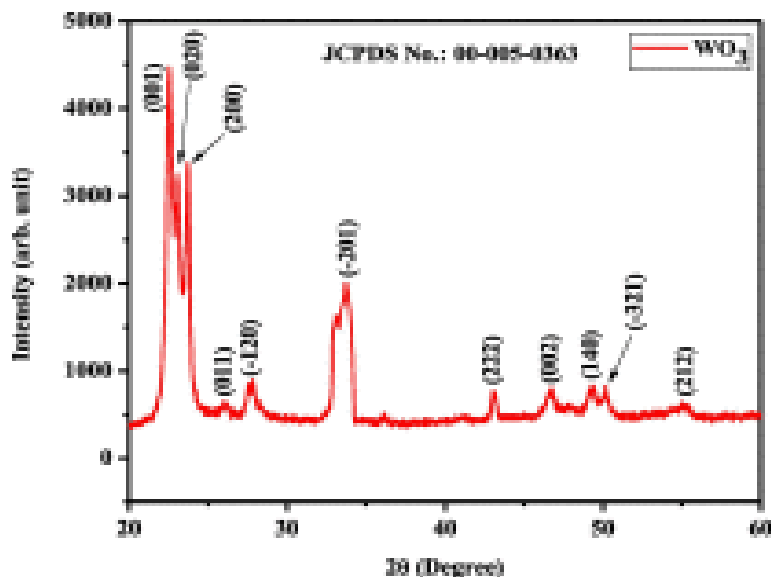
<https://onlinelibrary.wiley.com/doi/10.1002/er.5018>

26) To study the impact of emissions of methyl esters blends in diesel engine.

https://link.springer.com/chapter/10.1007%2F978-3-030-16848-3_40

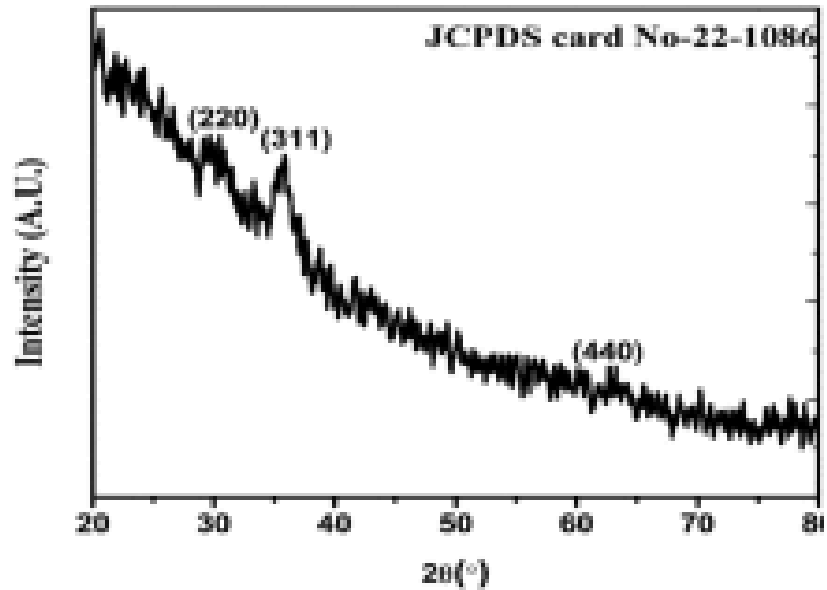
27) Synthesis, characterization and gas sensing performance of tungsten oxide by hydrothermal method.

<https://www.sciencedirect.com/science/article/pii/S2214785320352378?via%3Dihub>



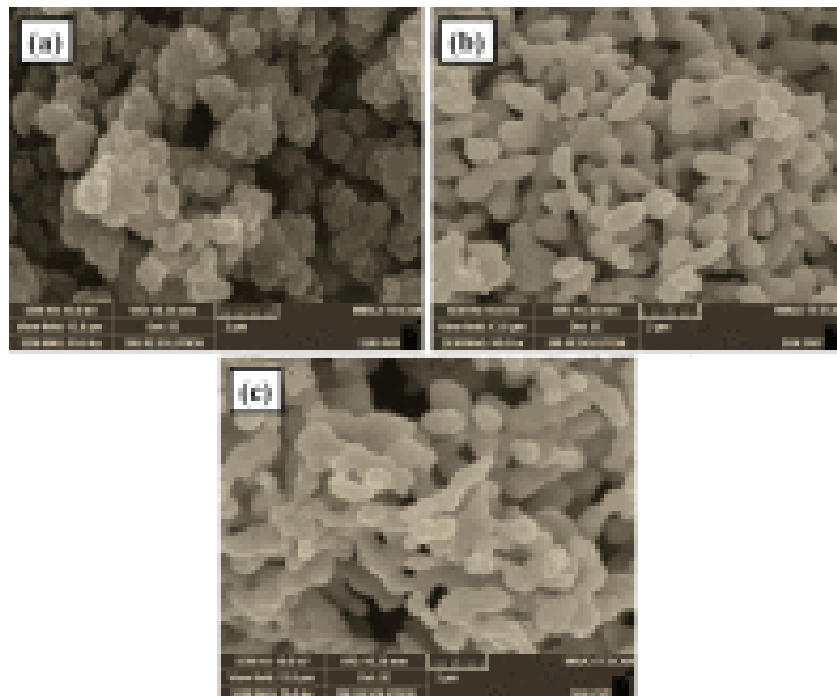
28) Mesoporous cobalt ferrite thin film for supercapacitor applications.

<https://www.sciencedirect.com/science/article/pii/S2214785320346587?via%3Dihub>



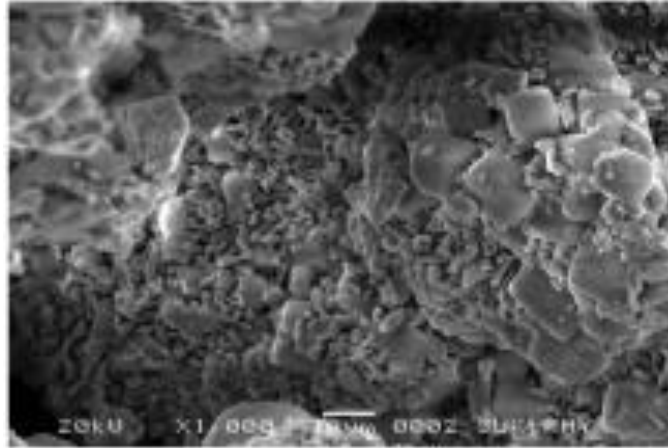
29) Study the photovoltaic performance of pure and cd-doped zno nanoparticles prepared by reflux method.

<https://www.sciencedirect.com/science/article/pii/S2214785320358673?via%3Dihub>

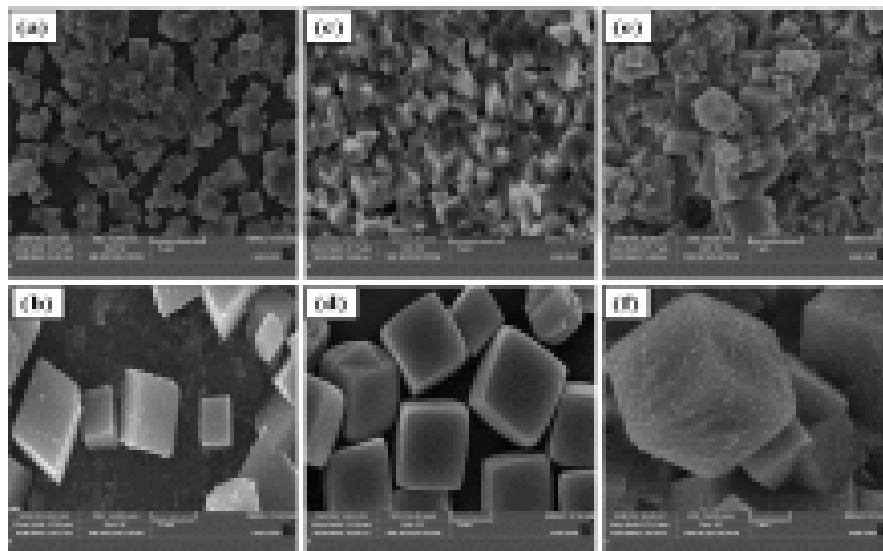


30) Synthesis and characterization of ginger (*z. officinale*) extract mediated iron oxide nanoparticles and its antibacterial activity.

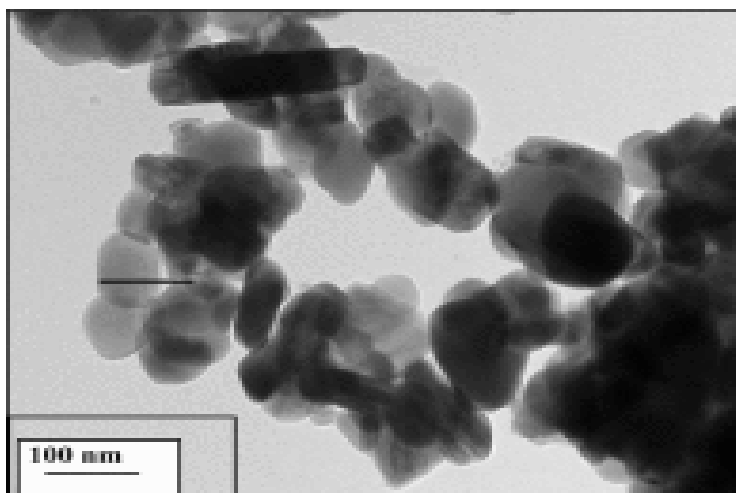
<https://www.sciencedirect.com/science/article/pii/S2214785320390829?via%3Dihub>



31) A simple chemical approach for the deposition of cu₂sns₃ (cts) thin films.
<https://www.sciencedirect.com/science/article/pii/S221478532033772X?via%3Dihub>

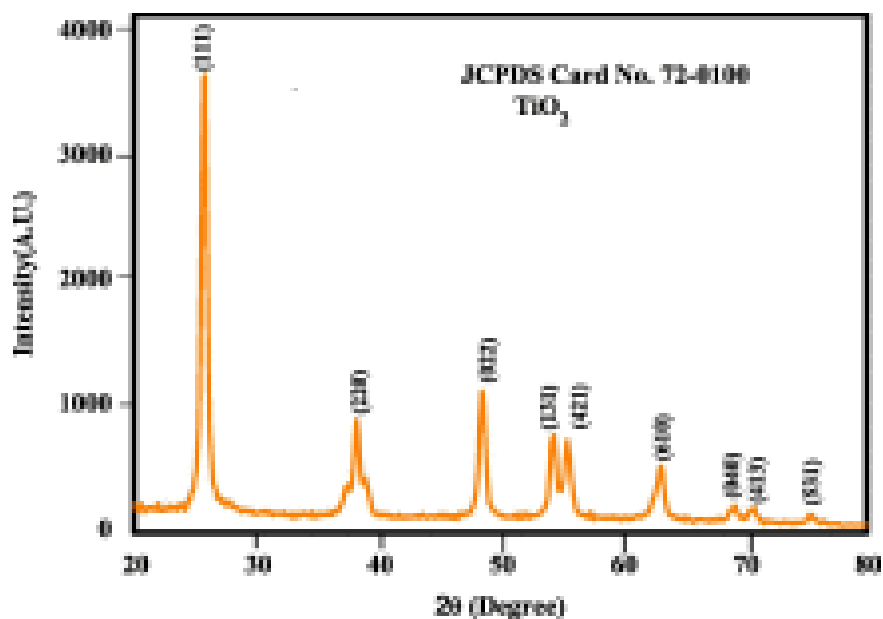


32) Effect of peg and mn on microwave properties of nano sized ba₄co₂fe₃₆o₆₀ hexaferrite bulk.
<https://www.sciencedirect.com/science/article/pii/S2214785320375830?via%3Dihub>



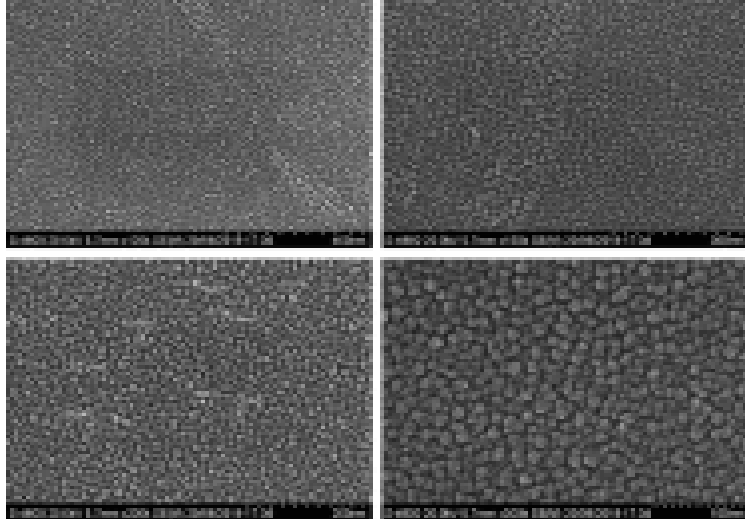
33) Photocatalytic dye degradation study of TiO₂ material.

<https://www.sciencedirect.com/science/article/pii/S2214785320349543?via%3Dihub>



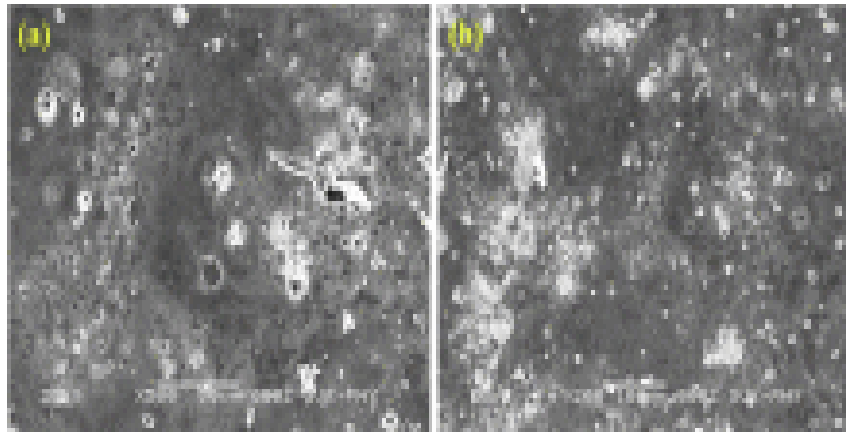
34) Structural, morphological and optical properties of coFe₂O₄ thin film by spray pyrolysis technique.

<https://www.sciencedirect.com/science/article/pii/S2214785320336336?via%3Dihub>



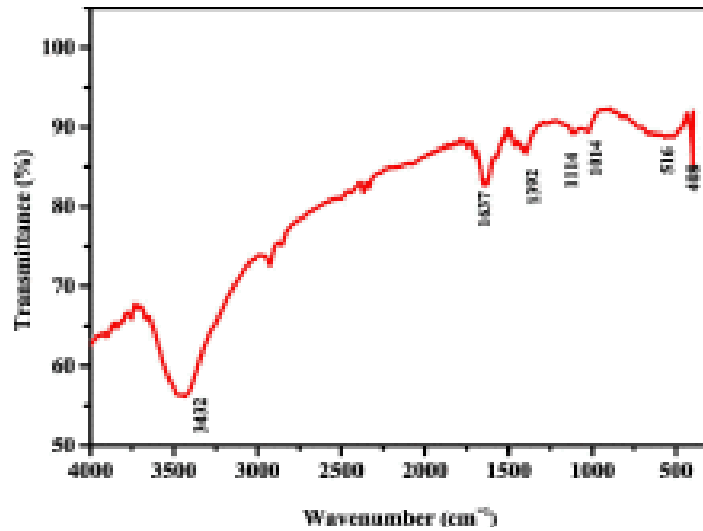
35) Electrochemical supercapacitive performance study of spray pyrolyzed cobalt oxide film.

<https://www.sciencedirect.com/science/article/pii/S2214785320349555?via%3Dihub>



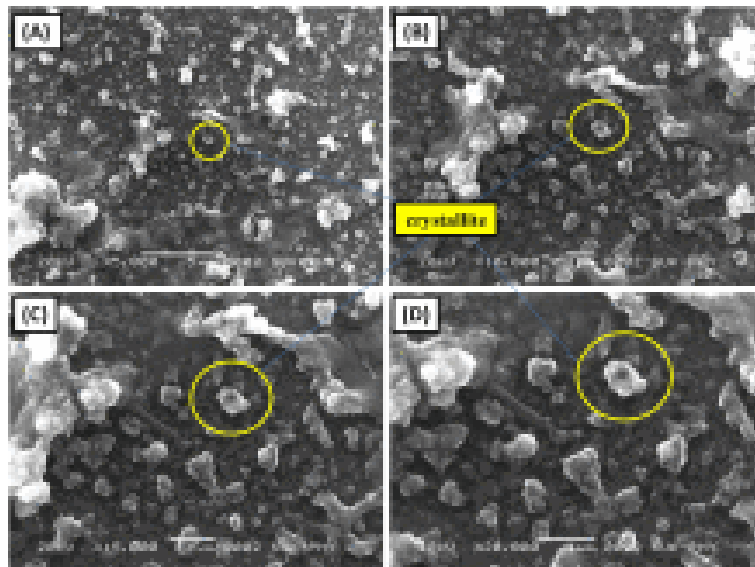
36) Synthesis and characterization of hydrothermally prepared molybdenum disulfide for supercapacitor application.

<https://www.sciencedirect.com/science/article/pii/S2214785320346101?via%3Dihub>



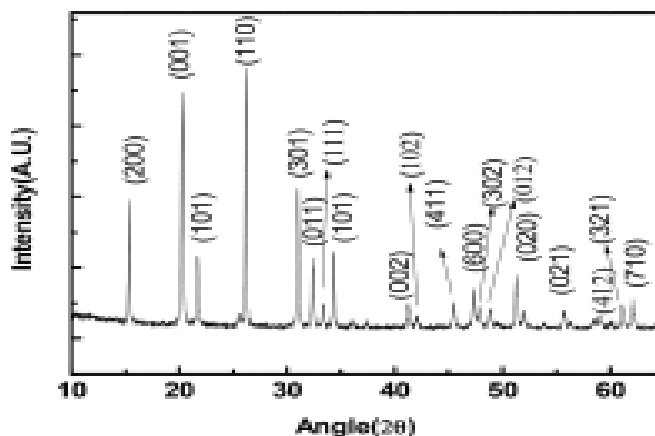
37) Extraction of natural dye (specifically anthocyanin) from pomegranate fruit source and their subsequent use in dssc.

<https://www.sciencedirect.com/science/article/pii/S2214785320348306?via%3Dihub>



38) Sol-gel prepared vanadium oxide for photocatalytic degradation of methylene blue dye.

<https://www.sciencedirect.com/science/article/pii/S2214785320328200?via%3Dihub>



39) Reinstatement of *Pimpinella katrajensis* R.S.Rao & Hemadri (Apiaceae), an endemic species to Maharashtra with notes on its taxonomy and distribution.

<https://threatenedtaxa.org/index.php/JoTT/article/view/5163>

40) The Eggshell Waste Transformed Green and Efficient Synthesis of K-Ca(OH)₂ Catalyst for Room Temperature Synthesis of Chalcones.

<https://www.tandfonline.com/doi/abs/10.1080/10406638.2020.1776740?journalCode=gpol20>

41) Electrochromic Properties of Layered Nb₂O₅-WO₃Thin Films.

<https://www.sciencedirect.com/science/article/pii/S2214785320308038?via%3Dihub>

42) Morpho-physiological and biochemical responses of finger millet (*Eleusine coracana* (L.) Gaertn.) genotypes to PEG-induced osmotic stress.

<https://www.sciencedirect.com/science/article/abs/pii/S1878818119312794?via%3Dihub>

43) Metabolite profiling, antioxidant potential and RP-UFLC determination of bioactive molecules from eight *Swertia* species.

<https://www.sciencedirect.com/science/article/abs/pii/S1878818119306000?via%3Dihub>

44) Sodium acetate/MWI: a green protocol for the synthesis of tetrahydrobenzo[*a*]xanthen-11-ones with biological screening.

<https://link.springer.com/article/10.1007%2Fs11164-019-03945-7>

