

- [1]. Biogenic synthesis of amorphous silica integrated-bimetallic versatile Nanosorbents for efficient removal of antibiotic, cationic, and anionic dye contaminants
Aman Savita, Hariom Gupta, Narendra Kumar, Rajesh Patidar, Gopala Ram Bhadu, **Naresh Kumar**
Inorganic Chemistry Communications, Vol. 185 (2026) , pp. 115993 [**Impact Factor = 5.4**]
- [2]. Bio-inspired zinc oxide/silica hybrid nanosorbents for environmentally benign, efficient, and sustainable remediation of crystal violet contaminant
Aman Savita, Hariom Gupta, Mohammad Gufran, Narendra Kumar, Rajesh Patidar, Gopala Ram Bhadu, Vaibhav Kulshrestha, **Naresh Kumar**
Next Materials, Vol. 10 (2026) , pp. 101516 [**Impact Factor = NA**]
- [3]. Charge transport study in MoS₂ blended PCPDTBT based organic field effect transistor
Pankaj Kumar, Sarita Yadav, C. K. Singh, Anchal Kishore Singh, **Naresh Kumar** & Lokendra Kumar
Applied Physics A, Vol. 131 (2025) , pp. 578 [**Impact Factor = 2.8**]
- [4]. Study of charge transport in cesium lead bromide perovskite quantum dots and PCPDTBT composites: an application to photosensitive FETs
Shukla P.; Kumar P.; Singh A.K.; Kumar Naresh.; Kumar L.
Physica Scripta , Vol. 99 (2024) , pp.075959 [**Impact Factor = 2.6**]
- [5]. Synthesis of the oleylamine coated mesoporous Fe₃O₄ nanospheres and their application towards the efficient chemical fixation of carbon dioxide
Bhim Sen Yadav; Anand Kumar Vishwakarma, Anchal Kishore Singh.;Kumar S.;Koh J.;Dutta P.K.;Kumar Naresh
Solid State Sciences, Vol. 150 (2024), pp. 107500 [**Impact Factor = 3.3**]
- [6]. Enhanced electrocatalytic OER activity following electrochemical pre-cathodic treatment of Mn-substituted nickel ferrite
Anchal Kishore Singh, Sarvesh Kumar, Bhim Sen Yadav; Anand Kumar Vishwakarma and **Naresh Kumar**
Applied Physics Letters, Vol. 125 (2024), pp. 163903 [**Impact Factor = 3.6**]
- [7]. Evidence of oxygen evolution over sputtered zinc ferrite (ZnFe₂O₄) thin film by enhanced lattice oxygen participation
Anchal Kishore Singh, **Naresh Kumar**
Applied Physics Letters 123, (2023) 033902 [**Impact Factor = 3.6**]
- [8]. Structural, Morphological, and Superparamagnetic Properties of Sodium Acetate- Assisted Synthesized Zinc Ferrite (ZnFe₂O₄) Nanospheres
Bhim Sen Yadav, Anand Kumar Vishwakarma, Anchal Kishore Singh, Sarvesh Kumar, **Naresh Kumar**
Journal of Electronic Materials, Vol. 52 (2023) , pp. 1069-1082
- [9]. Oxygen vacancies induced ferromagnetism in RF-sputtered and hydrothermally annealed zinc ferrite (ZnFe₂O₄) thin films.
B. S. Yadav; A. K.Vishwakarma, A. K. Singh, and **Naresh Kumar**
Vacuum, 207, 111617 (2023). [**Impact Factor = 4.11**]
- [10]. Effect of Oxygen Vacancies and Cationic Inversion on Magnetic Properties of Pulsed Laser Deposited Zinc Ferrite Thin Films
B. S. Yadav; A. K.Vishwakarma, A. K. Singh, Sarvesh Kumar and **Naresh Kumar**
Journal of Superconductivity and Novel Magnetism. Vol. 36 (2023), pp. 289-299 [**Impact Factor = 1.8**]
- [11]. Structural, Morphological, and Superparamagnetic Properties of Sodium Acetate-Assisted Synthesized Zinc Ferrite (ZnFe₂O₄) Nanospheres
B. S. Yadav; A. K.Vishwakarma, A. K. Singh, Sarvesh Kumar and **Naresh Kumar**
Journal of Electronic Materials. Vol. 52 (2023), pp. 1069-1082. [**Impact Factor = 2.047**]
- [12]. Antibacterial activity of PANI coated CoFe₂O₄ nanocomposite for gram-positive and gram-negative bacterial strains
A. K. Vishwakarma, B. Sen Yadav, J. Singh, S. Sharma, and **Naresh Kumar**.
Materials Today Communications, Volume 31, June 2022, 103229 (2022). [**Impact Factor = 4.5**]
- [13]. Multiple spintronic functionalities into single zinc-ferrous ferrite thin films
M. Bohra, R. Arras, J.-F.Bobo, V. Singh **Naresh Kumar**, H. Chou,
Journal of Alloys and Compounds, Volume 895, Part 1, 162425 (2022). [**Impact Factor = 6.371**]
- [14]. Structural, optical and photocatalytic properties of Ni doped BiFeO₃ nanoparticles
M. Sahni, S. Kumar, S. Chauhan, M. Singh, S. Pandit, P. C. Sati, M. Kumar, A. Kumar, **Naresh Kumar**
Materials Today: Proceedings, Volume 49, Part 8, Pages 3015-3021 (2022). [**Impact Score = 1.46**]
- [15]. Unfolding Photophysical Properties of Poly(3-hexylthiophene)-MoS₂ Organic-Inorganic Hybrid Materials: An Application to Self-Powered Photodetectors
V. Chaudhary, R.K. Pandey, R. Prakash, **Naresh Kumar** and A. K. Singh
Nanotechnology, Volume 32, Number 38 June (2021). [**Impact Factor = 3.953**]
- [16]. Effect of Yb/Co co-dopants on surface chemical bonding states of BiFeO₃ nanoparticles with promising photocatalytic performance in dye degradation
M. Sahni, S. Mukhopadhyay, R. M. Mehra, S. Chauhan, P. C. Sati, M. Kumar, M. Singh, **Naresh Kumar**

- Journal of Physics and Chemistry of Solids, Volume 152, May, 109926 (2021). **[Impact Factor = 4.383]**
- [17]. The effects of cesium lead bromide quantum dots on the performance of copper phthalocyanine-based organic field-effect transistors
P. Shukla, S. Yadav, M S Patel, P. Kumar, **Naresh Kumar** and L. Kumar,
Nanotechnology, Volume 32, 195208 February (2021). **[Impact Factor = 3.953]**
- [18]. Effect of Organic Solvent Vapor Treatment on Transistor Performance and Contact Resistance of Copper Phthalocyanine Based Organic ... Transistors
P. Kumar, S. Yadav, **Naresh Kumar**, and L. Kumar
Solid-State Electronics 176(24):107954 (2021). **[Impact Factor = 1.916]**
- [19]. Gold nanoparticles decorated radio-frequency sputtered ZnFe₂O₄/ZnO nanostructures for photoelectrochemical applications
Jyotirmay Dwivedi, Amit Srivastava, **Naresh Kumar**
Thin Solid Films , 709, 138227-pp1-7, (2020). **[Impact Factor = 2.358]**
- [20]. MoS₂ Assisted Self-Assembled Poly(3-hexylthiophene) Thin Films at an Air/Liquid Interface for High-Performance Ambient Conditions
V. Chaudhary, R. K. Pandey, P. K. Sahu, R. Prakash, **Naresh Kumar**, and A. K. Singh
Journal of Physical Chemistry C, 124, 15, 8101–8109 (2020). **[Impact Factor = 4.117]**
- [21]. Facile synthesis of substantially magnetic hollow nanospheres of maghemite (γ -Fe₂O₃) originated from magnetite (Fe₃O₄) via solvothermal method
B. S. Yadav, R. Singh, A. K. Vishwakarma and **Naresh Kumar**
Journal of Superconductivity and Novel Magnetism 33,2199–2208 (2020). **[Impact Factor = 1.8]**
- [22]. Study of structural, optical and photocatalytic activity of Sm and Ni doped BiFeO₃ (BFO) and BFO@ZnO nanostructure
Mohit Sahni· Dharmesh Kumar , Munendra Singh and **Naresh Kumar**
Materials Today: Proceedings, 28, part1, 56-60 (2020). **[Impact Score = 1.46]**
- [23]. Material study of Co₂CrAl Heusler Alloy magnetic thin film and Co₂CrAl/n-Si Schottky junction device
R. Singh, F. Ahmad, K. Nazeer, R. Kumar, **Naresh Kumar**, A. K. Ojha , S. S. Kushvaha and P. Kumar
Journal of Electronic Materials, 49, 3652–3658 (2020). **[Impact Factor = 2.047]**
- [24]. Structural, optical, magnetic, dielectric, and photocatalytic properties of Sm- and Ni-substituted BiFeO₃ nanoparticles
M. Sahni, S. Mukherjee, A. Hamid, D. Kumar, S. Chauhan and **Naresh Kumar**
Journal of Materials Science: Materials in Electronics, 31, 7798–7810 (2020). **[Impact Factor = 2.779]**
- [25]. Methanol sensing using catalyst free nickel foam modified with solvo-thermally synthesized magnetite (Fe₃O₄) nanoparticles
Bhim Sen Yadav, Anand Kumar Vishwakarma and **Naresh Kumar**
J. Indian Chem. Soc., Vol. 97, No. 10a, 2020, pp. 1-5 (2020).
- [26]. Highly aligned and crystalline poly(3-hexylthiophene) thin films by off-center spin coating for high performance organic field-effect transistors
V. Chaudhary, R. Pandey, R. Prakash, **Naresh Kumar**, A. K. Singh;
Synthetic Metals, 258, 116221 pp 1- 9, (2019). **[Impact Factor = 4.00]**
- [27]. Comparative study of Fabrication and Characterization of Al-ZnO based Schottky Barrier Diodes using Pd and Au Metal Contacts
M. R. Singh, M. Sahni, M. Singh, B. Bhattacharya, **Naresh Kumar**
Journal of Materials Science: Materials in Electronics 30, Issue 14, pp 13280–13289 (2019). **[Impact Factor = 2.779]**
- [28]. Solubility dependent trap density in poly (3-hexylthiophene) organic Schottky diodes at room temperature
Vivek Chaudhary, **Naresh Kumar**, Arun Singh
Synthetic Metals, 250, 88-93 (2019). **[Impact Factor = 4.00]**
- [29]. Effect of Pr³⁺ substitution on structural, dielectric, electrical and magnetic properties of BiFe_{0.80}Ti_{0.20}O₃ceramics
P C Sati, M Sahni, M Kumar, M Arora, P Negi, M Tomar, V Gupta and **Naresh Kumar**
Integrated Ferroelectrics, 193, 1–13 (2018). **[Impact Factor = 0.836]**
- [30]. Deposition and Study of AZO Heterojunction Schottky Diodes at Different Temperature
Manisha R Singh, Sucheta Singh, Shubhra Aakanksha, Mohit Sahni, Bhaskar Bhattacharya, Pallavi Gupta, **Naresh Kumar**
Journal of Materials Science: Materials in Electronics, 29, Issue 23, pp 20319–20328 (2018). **[Impact Factor = 2.779]**
- [31]. Fabrication of a p–n Heterojunction Using Topological Insulator Bi₂Te₃–Si and Its Annealing Response
F. Ahmad, R. Singh, P. K. Misra, **Naresh Kumar**, R. Kumar, and P. Kumar
Journal of Electronic Materials, 47, Issue 12, pp 6972–6983 (2018). **[Impact Factor = 2.047]**
- [32]. Magnetization in nanocrystalline PLD zinc ferrite thin films deposited on fused quartz substrate
Aashish Jha, **Naresh Kumar**, Mohit Sahni, Amit Srivastava, Jyotirmay Dwivedi and Sanjay Chaubey

- Journal of Superconductivity and Novel Magnetism, 31, 1, pp 107–116 (2018). **[Impact Factor = 1.8]**
- [33]. H₂O₂ sensing using HRP modified catalyst-free ZnO nanorods synthesized by RF sputtering
Amit Srivastava, **Naresh Kumar**, Priti Singh, and Sunil Kumar Singh
Applied Physics A 123 453 p1-8 (2017). **[Impact Factor = 2.983]**
- [34]. Effect of Substrate temperature on (001) oriented growth of ZnO Nanostructures on fused quartz substrate by PLD
Amit Srivastava and **Naresh Kumar**
Journal of Materials Science: Materials in Electronics, 28, 9258–9264 (2017). **[Impact Factor = 2.9]**
- [35]. Effect of Post deposition annealing on RF sputtered catalyst free grown ZnO Nanostructures
Amit Srivastava and **Naresh Kumar**
Journal of Electronic Materials, 46, Issue 8, pp 4842–4847 (2017). **[Impact Factor = 2.047]**
- [36]. Unusual magneto-thermal properties in Sr₄Ru₃O₁₀
Pramod Kumar, **Naresh Kumar**, and Rachana Kumar
Materials Research Express 4 026104 (2017). **[Impact Factor = 2.025]**
- [37]. Transient reflection spectra in topological nanocrystals of Bi₂Se₃, Bi₂Te₃, Bi₂Te₂Se
Faizan Ahmad, Rashmi Singh, Rachna Kumar, Mukesh Jewariya, Chandra Shekhar, **Naresh Kumar**, Pramod Kumar
Advanced Materials Letters 8(4), 423-427 (2017). **[Impact Factor = 0.6]**
- [38]. Characterizing the phase purity of nanocrystalline Fe₃O₄ thin films using Verwey transition
Murtaza Bohra, K. Eswar Prasad, Ravi Bollina, S.C. Sahoo, **Naresh Kumar**
Journal of Magnetism and Magnetic Materials 418, 137-142 (2016). **[Impact Factor = 3.097]**
- [39]. Effects of substrate temperature, oxygen pressure and laser fluence on structural and magnetic properties of pulsed laser deposited cobalt ferrite thin films
Aashish Jha, **Naresh Kumar**, Sanjay Chaubey and Mohit Sahni
Journal of Superconductivity and Novel Magnetism 29 (3) 855-862 (2016). **[Impact Factor = 1.8]**
- [40]. Study of magnetic, dielectric and magnetodielectric properties of BaTiO₃/Fe₃O₄ core/shell nanocomposite
Sushant Singh, **Naresh Kumar**, Aashish Jha, Mohit Sahni, Kil-dong Sung, J. H. Jung, and S. Chaubey
Journal of Materials Science: Materials in Electronics 26, 32-36, (2015). **[Impact Factor = 2.779]**
- [41]. One Pot Synthesis of Water-Dispersible DHA Coated Fe₃O₄ Nanoparticles under Atmospheric Air: Blood Cell compatibility Resonance Imaging
Hariom Gupta, P. Paul, **Naresh Kumar**, Seema Baxi and Dipti P. Das
Journal of Colloid and Interface Science 430 221–228, (2014). **[Impact Factor = 9.965]**
- [42]. Switching in structural, optical, and magnetic properties of self-assembled Co-doped ZnO: effect of Co-concentration
R. Bhargava; P. K Sharma, S. Singh, M. Sahni, A. C Pandey, **Naresh Kumar**
Journal of Materials Science: Materials in Electronics 25 552-559 (2014). **[Impact Factor = 2.9]**
- [43]. Influence of Mn doping on structural, electrical and magnetic properties of (0.90) BiFeO₃(0.10) BaTiO₃ composite
Mohit Sahni, **Naresh Kumar**, Sushant Singh, Aashish Jha, S Chaubey, Manoj Kumar, M K Sharma
Journal of Materials Science: Materials in Electronics 25 2199-2209 (2014). **[Impact Factor = 2.9]**
- [44]. Effect of Sr substitution on structural, dielectric, magnetic and magnetoelectric properties of rapid liquid sintered BiFe_{0.8}Ti_{0.2}O₃ ceramics
Mohit Sahni, **Naresh Kumar**, Manoj Kumar, Sushant Singh
Journal of Materials Science: Materials in Electronics 25 4743-4749 (2014). **[Impact Factor = 2.9]**
- [45]. Conduction Mechanism and Bandgap Engineering in Pulsed Laser Deposited Cd_{1-x}Pb_xS Films
S. Kumar, A. Kumar, **Naresh Kumar**, Amarjyoti Goswami and Ramesh Chandra
Journal of Applied Physics 116 073504, 1-6 (2014). **[Impact Factor = 2.877]**
- [46]. Magnetodielectric effect in BaTiO₃/ZnFe₂O₄ core/shell nanoparticles
S. Singh, **Naresh Kumar**, R. Bhargava, M. Sahni, Kil-dong Sung, J H Jung
Journal of Alloys and Compounds 587 437-441 (2014). **[Impact Factor = 6.371]**
- [47]. Effect of Annealing Temperature on the Physical Properties of Zn-ferrite Nanoparticles
S. Singh, **Naresh Kumar**, A. Jha, M. Sahni, R. Bhargava, A. Chawla, R Chandra, S. Kumar, S Chaubey
Journal of Superconductivity and Novel Magnetism 27 821-826 (2014). **[Impact Factor = 1.8]**
- [48]. Synthesis and Characterization of DHA/ZnO/ZnFe₂O₄ Nanostructures for Biomedical Imaging Application
Hariom Gupta, P Paul and **Naresh Kumar**
Procedia Materials Science 5 198-203 (2014). **[Impact Factor = NA]**
- [49]. Low Temperature Magnetization Studies of Nanocrystalline Zn-Ferrite Thin Films
Murtaza Bohra, Prasad Shiva, N. Venkataramani, S C Sahoo, **Naresh Kumar**, R Krishnan
IEEE Transactions on Magnetics, 49 4249-4252, (2013). **[Impact Factor = 1.848]**
- [50]. Enhancement of magnetic and dielectric properties in chemically modified multiferroic (0.90)BiFe_{1-x}Cr_xO₃-(0.10) BaTiO₃ nanocomposite
M Sahni, S Singh, R Bhargava, Amit K Chawla, R Chandra, A Dalvi, N Gupta, S. Kumar, **Naresh Kumar**
Journal of superconductivity and novel magnetism 26 397-402, (2013). **[Impact Factor = 1.8]**

- [51]. Synthesis and Lasing Action in ZnO Hexahedrons
R. Bhargava, A K Singh, K Kumar, A C Pandey, **Naresh Kumar**
Journal of Nanoengineering and Nanomanufacturing 3 (4), 317-320, (2013). [Impact Factor = NA]
- [52]. Narrow ferromagnetic resonance linewidth polycrystalline Zn-ferrite thin films
M. Bohra, S. Prasad, N. Venkataramani, **Naresh Kumar**, S C Sahoo, R. Krishnan
IEEE Transactions on Magnetics, 47 345-348, (2011). [Impact Factor = 1.848]
- [53]. Polar and longitudinal magneto-optical spectroscopy of bismuth substituted yttrium iron garnet films grown by pulsed laser deposition
M. Veis, E. Lišková, R. Antoš, Š. Višňovský, **Naresh Kumar**, D S Misra, N Venkataramani, S Prasad, R. Krishnan
Thin Solid Films 519 8041-8046, (2011). [Impact Factor = 2.358]
- [54]. Raman investigations of $\text{Zn}_{1-x}\text{Co}_x\text{O}$ nanocrystals: role of starting precursors on vibrational properties
R. Bhargava, P K Sharma, S Kumar, A C Pandey, **Naresh Kumar**
Journal of Raman Spectroscopy 42 1802-1807, (2011). [Impact Factor = 2.727]
- [55]. Variation in structural, optical and magnetic properties of $\text{Zn}_{1-x}\text{Cr}_x\text{O}$ ($x = 0.0, 0.10, 0.15$, and 0.20) nanoparticles: magnetization
R. Bhargava, P K Sharma, A K Chawla, S. Kumar, R. Chandra, A C Pandey, **Naresh Kumar**
Materials Chemistry and Physics 125, 664-671, (2011). [Impact Factor = 4.778]
- [56]. High temperature powder diffraction study of (Zn,Cd)S and ZnCdS nano powders
Sanjeev Kumar, Amit K Chawla, **Naresh Kumar** and Ramesh Chandra
RSC Advances 1 1078-1082, (2011). [Impact Factor = 4.036]
- [57]. Differential susceptibility of Escherichia coli cells toward transition metal-doped and matrix-embedded ZnO nanoparticles
R K Dutta, P K Sharma, R Bhargava, **Naresh Kumar** and A C Pandey
The Journal of Physical Chemistry B 114 5594-5599, (2010). [Impact Factor = 3.466]
- [58]. Zinc based Indian traditional drug (Yashad Bhasma): Preparation, characterization and its bacterial response
R Bhargava, **Naresh Kumar**, R K. Dutta, A C. Pandey, N K. Singh and S Kumar
Natural Product: An Indian Journal 6, 4 Pg 1-9, (2010).
- [59]. Influence of Co-doping on the thermal, structural, and optical properties of sol-gel derived ZnO nanoparticles
R. Bhargava, P K Sharma, R K Dutta, S Kumar, A C Pandey, **Naresh Kumar**
Materials Chemistry and Physics 120 393-398, (2010). [Impact Factor = 4.778]
- [60]. In-plane magnetization with high coercivity in terbium iron garnet thin films deposited on Pt/Si substrate by PLD
Naresh Kumar, R Bhargava, S Kumar, A K Chawla, R Chandra, M Bohra
Journal of Magnetism and Magnetic Materials 322 1727-1730, (2010). [Impact Factor = 3.097]
- [61]. Consequence of doping mediated strain and the activation energy on the structural and optical properties of ZnO: Cr nanoparticles
R. Bhargava, P K Sharma, S Kumar, A C Pandey, **Naresh Kumar**
Journal of Solid State Chemistry 183 1400-1408, (2010). [Impact Factor = 3.656]
- [62]. Magnetic properties of magnetite thin films close to the Verwey transition
M Bohra, S Prasad, N. Venkataramani, **Naresh Kumar**, S C Sahoo, R Krishnan
Journal of Magnetism and Magnetic Materials 321 3738-3741, (2009). [Impact Factor = 3.097]
- [63]. The influence of substrate temperature and annealing on the properties of pulsed laser-deposited YIG films on fused quartz substrate
Naresh Kumar, S Prasad, D S Misra, N Venkataramani, M Bohra, R Krishnan
Journal of Magnetism and Magnetic Materials 320 2233-2236, (2008). [Impact Factor = 3.097]
- [64]. Epitaxial growth of terbium iron garnet thin films with out-of-plane axis of magnetization
Naresh Kumar, N G Kim, Y A Park, N Hur, J H Jung, K J Han, K J Yee
Thin Solid Films 516 7753-7757, (2008). [Impact Factor = 2.358]
- [65]. Epitaxial Growth and Magnetodielectric Properties of Terbium-Iron-Garnet Thin Films
Naresh Kumar, N G Kim, Y A Park, N Hur, J H Jung, Y H Jo, M H Jung
Journal of Korean Physical Society 52 112-115, (2008). [Impact Factor = 0.657]
- [66]. Application of magnetic fields for a low temperature growth of high-quality SrRuO_3 thin films
N G Kim, **Naresh Kuma**, Y A Park, N Hur, C U Jung, J H Jung
Journal of Physics D: Applied Physics 41 125005, (2008). [Impact Factor = 3.409]
- [67]. Study of pulsed laser deposited magnetite thin film
M. Bohra, N Venkataramani, S Prasad, **Naresh Kumar**, D S Misra, S C Sahoo
R Krishnan Journal of Magnetism and Magnetic Materials 310 2242-2244, (2007). [Impact Factor = 3.097]
- [68]. RF sputter deposited nanocrystalline (110) magnetite thin film from $\alpha\text{-Fe}_2\text{O}_3$ target
M. Bohra, N Venkataramani, S Prasad, **Naresh Kumar**, D S Misra, S C Sahoo, R Krishnan
Journal of Nanoscience and Nanotechnology 7, 1-3, (2007). [Impact Factor = 1.354]
- [69]. Large room temperature magnetization in nanocrystalline zinc ferrite thin films
M. Bohra, N Venkataramani, S Prasad, **Naresh Kumar**, D S Misra, S C Sahoo, R Krishnan
Applied physics letters 88 262506-262506-3, (2006). [Impact Factor = 3.971]

- [70]. Magnetic properties of pulsed laser ablated YIG thin films on different substrates
Naresh Kumar, D S Misra, N Venkataramani, S Prasad, R Krishnan
Journal of Magnetism and Magnetic Materials 272 E899-E900, (2004). [Impact Factor = 3.097]
- [71]. Magnetic, Optical and I-V Characteristics of MoO₃ thin films
Singh, Rashmi, Ahmad, Faizan, Kumar, Surendra, Kumar, Naresh, Kumar, Rachana, Kumar, Pramod
Journal of Physics: Conference Series, 1947, 012048 (2021). IOP Publishing
- [72]. Comparative study of Co₂MnSi structural and surface morphological thin films on Si/SiO₂
Rashmi Singh, Puneet Jain, **Naresh Kumar**, Rachana Kumar, Pramod Kumar
Advanced Materials Proceedings 1(2)165-170 (2016).
The International Association of Advanced Materials ISSN : 2002-4428
- [73]. HRP modified pulse laser ablated ZnO nanostructure for H₂O₂ sensing
Amit Srivastava and **Naresh Kumar**
Advanced Materials Proceedings 1(2)165-170 (2016).
The International Association of Advanced Materials ISSN : 2002-4428
- [74]. Anomalous magnetoresistance in topological insulator Bi₂Te₃
Pramod Kumar, Rashmi Singh, Faizan Ahmad, Chandra Shekhar, **Naresh Kumar** and Rachana Kumar
Advanced Materials Proceedings, 21-24, (2016)
The International Association of Advanced Materials ISBN:978-91-88252-01-2
- [75]. Study of pulsed laser deposited nanocrystalline cobalt ferrite thin films
Aashish Jha, **Naresh Kumar**, S Chaubey
Proceedings of 41st IRF International Conference, 18-21 (2016) ISBN: 978-93-86083-00-5
- [76]. Influence of substrate temperature and oxygen Pressure on the structural and morphological properties of PLD grown ZnFe₂O₄ thin films
Sushant Singh, **Naresh Kumar**, Mohit Sahni, Aashish Jha, Amit Srivastava, S. Chaubey
Proceedings of the International Conference on Multifunctional Materials, Structures and Applications, 181-184 (2014).
- [77]. Catalyst free growth of ZnO nanorods using pulsed laser deposition
Amit Srivastava, Ashish Jha, Sushant Singh & **Naresh Kumar**
Proceedings of the International Conference on Multifunctional Materials, Structures and Applications, 185 -188 (2014). ISBN-13: 978-93-392-2019-8
- [78]. Growth induced magnetic anisotropy in nanocrystalline cobalt ferrite thin films deposited by PLD
Aashish Jha, Sushant Singh, Amit Srivastava, S. Chaubey and **Naresh Kumar**
Proceedings of the International Conference on Multifunctional Materials, Structures and Applications, 196-199 (2014). ISBN-13: 978-93-392-2019-8
- [79]. Preparation and characterization of zinc based ayurvedic medicine: Yashad Bhasma
Richa Bhargava, Godwin Newton, A K Pal, S. Chaubey, and **Naresh Kumar**
Proceedings of the Symposium on Safety Profile of Rasaushadhis. Organized by the Department of Rasa Shastra, held at BHU Varanasi, 55-57 (2009).
- [80]. Growth of Cobalt Ferrite Thin Film by Pulsed Laser Ablation
Murtaza Bohra, N. Venkataramani, Shiva Prasad, **Naresh Kumar**, D. S. Misra, S. C. Sahoo, and R. Krishnan
Proceedings of the DAE Solid State Physics (India) 51,477 (2006). ISBN 81-8372-030-7
- [81]. Sputter deposition of Fe₃O₄ thin films using α -Fe₂O₃ target
Murtaza Bohra, N. Venkataramani, Shiva Prasad, **Naresh Kumar**, D. S. Misra, S. C. Sahoo, and R. Krishnan
Proceedings of the DAE Solid State Physics (India) 50, 481(2005). ISBN 81-8372-019-5
- [82]. Electron diffraction study of pulsed laser deposited thin films using YIG target
Naresh Kumar, D. S. Misra and Shiva Prasad, I. Samajdar and N. Venkataramani
Proceedings of the 9th International Conference on Ferrites 27, 183- 188, (2004). ISBN: 978-1-57498-218-3
- [83]. Oriented Strontium Ferrite Thin Films Deposited by Pulsed Laser Deposition
Naresh Kumar, D. S. Misra, N. Venkataramani, Shiva Prasad and R. Krishnan
Proceedings of the DAE Solid State Physics, (India) 49, 516 (2004). ISBN 81-8372-000-5
- [84]. Study of Bi-Doped YIG Thin Films Grown by Pulsed Laser Deposition
Naresh Kumar, D. S. Misra, N. Venkataramani, Shiva Prasad and R. Krishnan
Proceedings of the DAE Solid State Physics, Amritsar (India) 49, 490 (2004). ISBN 81-8372-000-5
- [85]. Deposition of Fe₃O₄ thin films at low temperature by using Pulsed Laser Deposition
Murtaza Bohra, **Naresh Kumar**, D. S. Misra, N. Venkataramani, Shiva Prasad and R. Krishnan
Proceedings of the DAE Solid State Physics, (India) 49, 518 (2004) ISBN 81-8372-000-5
- [86]. FMR studies of YIG thin films prepared by Pulsed Laser Deposition
Naresh Kumar, D. S. Misra, N. Venkataramani, Shiva Prasad and R. Krishnan
Proceedings of the DAE Solid State Physics, (India) 45, 495 (2002). ISBN 81-7764-484-X

Presentations in Conferences/Publication as an abstract in conferences

- [87]. Investigating the catalytic potential of RF- sputtered zinc ferrite thin films, through varied Annealing techniques for Water splitting
Ritu Agrahari, Sarvesh Kumar, Anchal Kishore Singh, **Naresh Kumar**
16th National Conference on Solid State Ionics (NCSSI-16), IIT Bhilai, December 04-06, 2025.
- [88]. Binder-free approach for in-situ deposition of cobalt ferrite thin film for high-performance supercapacitor applications
Sarvesh Kumar, Anchal Kishore Singh, Ritu Agrahari, **Naresh Kumar**
16th National Conference on Solid State Ionics (NCSSI-16), IIT Bhilai, December 04-06, 2025
- [89]. Synthesis, characterization and photocatalytic application of ZnO coating on Fe₃O₄ nanocomposite
Anand Kumar Vishwakarma, Bhim Sen Yadav, Anchal Kishor Singh, Sarvesh Kumar, **Naresh Kumar**
International Conference on Technological Interventions for Sustainability (Chem-Conflux22) During April 14-16, 2022 at MNNIT Allahabad, Prayagraj, India. (International).
- [90]. Methanol Sensing using Catalyst Free Nickel Foam Modified with Solvo-thermally Synthesized Magnetite (Fe₃O₄) Nanoparticles.
Bhim Sen Yadav, Anand Kumar Vishwakarma, **Naresh Kumar**
International Conference "Chem-Conflux²⁰: Energy and Environmental Technologies for Sustainable Development" During February 14-16, 2020 at MNNIT Allahabad, Prayagraj, India. (International). (**Awarded 2nd Best Poster Presentation award**).
- [91]. Study of antibacterial action for CoFe₂O₄/PANI magnetic nanocomposites
Anand Kumar Vishwakarma, Bhim Sen Yadav, **Naresh Kumar**
National Conference on "Industrial Applications of Nanoscience & Nanotechnology – IANN-2019" during November 15 - 16, 2019, MNNIT Allahabad, India. (National).
- [92]. The Effect of Random and Directional Crystallization of Conducting Polymers on Electronic Devices
Vivek Chaudhary, **Naresh Kumar**, Arun Kumar Singh
National Conference on "Industrial Applications of Nanoscience & Nanotechnology – IANN-2019" during November 15 - 16, 2019, MNNIT Allahabad, India. (National).
- [93]. Organic Solvent Treated Field-Effect Transistor based on Copper Phthalocyanine
Pankaj Kumar, Sarita Yadav, **Naresh Kumar**, Vivek Chaudhary, Lokendra Kumar
National Conference on "Industrial Applications of Nanoscience & Nanotechnology – IANN-2019" during November 15 - 16, 2019, MNNIT Allahabad, India. (National).
- [94]. Study of variation in magnetization of Fe₃O₄ nanoparticles with duration of solvothermal treatment of precursors.
Bhim Sen Yadav, Anand Kumar Vishwakarma, **Naresh Kumar**
National Conference on "Industrial Applications of Nanoscience & Nanotechnology – IANN-2019" during November 15 - 16, 2019, MNNIT Allahabad, India. (National).
- [95]. Synthesis and characterization of ZnO coated hollow nano spheres of Maghemite (γ -Fe₂O₃) obtained from Magnetite (Fe₃O₄) via solvothermal method,
Bhim Sen Yadav, Rashmi Singh, and **Naresh Kumar**
Third International Conference on Advanced Materials (ICAM 2019) held at Mahatma Gandhi University, Kottayam, Kerala, Kottayam, Kerala, India during August 09-11, 2019. (International).
- [96]. Growth induced magnetic anisotropy in RF sputtered nanocrystalline Cobalt Ferrite (CoFe₂O₄) thin films with varying gas (Ar:O₂) pressure
Jyotirmay Dwivedi, Amit Srivastava and **Naresh Kumar**
International Conference on Advanced Nanomaterials & Nanotechnology, 18-21 Dec, 2017, IIT – Guwahati (International).
- [97]. Role of magnetization of ZFO thin film in PEC efficiency enhancement of Au-NP decorated RF sputtered ZnFe₂O₄/ZnO nanostructures
Jyotirmay Dwivedi , Amit Srivastava and **Naresh Kumar**
International Conference on "Emerging Materials and Applications" organized by Physics Department, University of Allahabad, during February 20-22, 2017. (International).
- [98]. Sensing of H₂O₂ using (00l) oriented RF sputtered deposited HRP modified ZnO nano rods
Amit Srivastava and **Naresh Kumar**
39th International conference on vacuum ultraviolet and X-ray Physics (VUVX2016) Organized by Paul Scherrer Instituts (PSI) Zurich, Switzerland July 03-08, 2016. (International).
- [99]. HRP modified pulse laser ablated ZnO nanostructure for H₂O₂ sensing
Amit Srivastava and **Naresh Kumar**
International Conference on Materials Science & Technology, University of Delhi, India. India, 01 - 04 March, 2016 Organized by International Association of Advanced Materials International (International).
- [100]. Static and dynamic magnetic properties of sol-gel derived Zn-ferrite nanoparticles
Naresh Kumar

- IEEE International Magnetism Conference Taipei Taiwan April 25-29, 2011 Organized by IEEE (International).
- [101]. Effect of pH (controlled using NaOH and NH₃) and Temperature on the synthesis of ZnO nanoparticles
Naresh Kumar
7th International Conference on Inorganic Materials in Biarritz, September 12-14, France September 12-14, 2010 Organized by Elsevier
- [102]. Textured growth of terbium iron garnet thin films as a high coercivity media
Naresh Kumar
International Conference on Materials for advanced Technology Singapore, June 28–July 2, 2009 Organized by MRS Singapore (International).
- [103]. Textured growth of terbium iron garnet thin films on Pt/Si substrate by using pulsed laser deposition
Naresh Kumar
International Conference on Magnetic Materials & their Applications for 21st Century MMA 21, National Physics Laboratory New Delhi, Oct. 21-23, 2008 Organized by NPL New Delhi (International).
- [104]. Epitaxial growth and magnetodielectric properties of terbium iron garnet thin films
Naresh Kumar and J. H. Jung
The Korean Physical Society Meeting, Jeju, Korea Oct 18-19, 2007 Organized by Korean Physical Society (International).
- [105]. Structural and magnetic properties of terbium iron garnet thin films deposited by pulsed laser deposition.
Naresh Kumar and J. H. Jung
1st International Symposium on Advanced Magnetic Materials and Applications (ISAMMA-2007), Jeju, Korea May 28-June 1, 2007 Organized by Korean Physical Society (International).
- [106]. Study of PLD YIG thin films on Si(100) substrate.
Naresh Kumar
National Symposium on Recent Trends in Physics, Pilani India, November 4-5, 2005 Organized by BITS Pilani (National). Study of magnetic properties of pulsed laser deposited YIG thin films.
- [107]. Study of magnetic properties of pulsed laser deposited YIG thin films.
Naresh Kumar, D. S. Mishra, N. Venkataramani and Shiva Prasad
DAE-BRNS 2nd National Symposium on Pulsed Laser Deposition (NS-PLD-2003), Pune India November 14-1, 2003 Organized by Pune University (National).
- [108]. Study of Bi:YIG thin films deposited by PLD
Naresh Kumar, D. S. Mishra, N. Venkataramani and Shiva Prasad
International Symposium on Recent Advances in Inorganic Materials, IIT Bombay India, December 11-13, 2012 Organized by IIT Bombay [International]

Details of Books Edited:

- [109]. Industrial Application of Nanoscience and Nanotechnology, Vol. -1, Excel India Publishers 2020.
Editors with Md. Siraj Alam, Animesh K. Ojha, and Ankur Gaur.
Multifunctional Materials, Structures and Applications, McGraw-Hill Education India (ISBN(13):978-93-392-2019-8; ISBN(10):93-392-2019-6), 2014.
Editors with P. Chakrabarti, S. Khanna, K. K. Shukla, and Anindya Bhar
- [110]. XXXIV Annual IAPT Convention – 2019, National Seminar on Recent Advances & Innovation in Physics Teaching & Research (RAIPTR-2019)-Souvenir & Abstracts (Pre- Conference Proceedings) organized by Department of Applied Sciences, Indian Institute of Information Technology Allahabad, Prayagraj India.
Editors with Sanjai Singh, Anil Kumar Singh, Animesh Kr. Ojha, and Sanjay Sharma.

(Naresh Kumar)