

Publications in International Journals

1. Morphology dependent room temperature CO₂ sensing of β -Ga₂O₃
Rekha Pilliadugula and **N Gopalakrishnan**
Materials Today: Proceedings 58 (2022) 959-969
2. Effect of Cr on ZrO₂ nanostructures for gas sensing investigation
E Hemalatha and **N Gopalakrishnan**
Bulletin of Materials Science 44 (2021), Article 292, pp 1-10
3. Ferromagnetism in Gd-doped ZnO thin films mediated by defects
A Sukumaran, N Sivanantham, E Vinoth and **N Gopalakrishnan**
Bulletin of Materials Science 44 (2021), Article 259, pp 1-11
4. Room temperature ammonia sensing performances of pure and Sn doped β -Ga₂O₃
R Pilliadugula and **N Gopalakrishnan**
Materials Science in Semiconductor Processing 135 (2021) 106086.
5. Effect of morphology and (Sn, Cr) doping on in vitro antiproliferation properties of hydrothermally synthesized 1D GaOOH nanostructures
Rekha Pilliadugula, Jebiti Haribabu, Mohamed Kasim Mohamed Subarkhan, Cesar Echeverria, Ramasamy Karvembu and **N.Gopalakrishnan**
Journal of Science: Advanced Materials and Devices 6 (2021) 351-363
6. Triggering of ferromagnetism by amine functionalization on ZnO:Mn films grown by RF magnetron sputtering.
Sivanantham Nallusamy and **Gopalakrishnan Nammalvar**
Journal of Materials Science: Materials in Electronics (2021) 32:1623-1630
7. Synthesis and characterization of pure and Cd doped ZrO₂ nano structures for ammonia sensing applications.
E Hemalatha and **N. Gopalakrishnan**
Materials Today: Proceedings 39(2020)1714-1718
8. Crystallite size and micro-strain investigations of hydrothermally synthesized β -Ga₂O₃ by different analytical methods.
Rekha P and **N. Gopalakrishnan**
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10. Influence of Ga₂O₃, CuGa₂O₄ and Cu₄O₃ phases on the Sodium-ion Storage behaviour of CuO and its Gallium composites
Rekha Pilliadugula, Chandrasekaran Nithya and **N. Gopalakrishnan**
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11. Effect of heat treatment on the optical properties of layered muscovite single crystal sheets.
M.Kirubanithy, N.Sivanantham, **N.Gopalakrishnan** and K.Balamurugan
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12. Fabrication of interdigitated electrode (IDE) based ZnO sensors for room temperature ammonia detection
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13. Synthesis of ZrO₂ nanostructure for gas sensing application E Hemalatha and **N Gopalakrishnan**
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14. Enhanced performance of PSF/PVP polymer membrane by silver incorporation Pramila Ponnaiyan and **Gopalakrishnan Nammalvar**
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15. Enhancement of the PSF/PVP membrane performance by Ag-ZnO incorporation P. Pramila and **N.Gopalakrishnan**
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16. Enhancing the saturation magnetisation in Ni doped ZnO thin films by TOPO functionalization
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17. Gas sensing performances of pure and Cu-doped ZrO₂ nano structures E Hemalatha and **N Gopalakrishnan**
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18. Effect of additives on graphene oxide incorporated polysulfone (PSF) membrane Pramila Ponnaiyan and **Gopalakrishnan Nammalvar**
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31. Enhancement of ferromagnetism in Thiol functionalized Mn doped ZnO thin films Sivanantham Nallusamy and **N.Gopalakrishnan**

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