

CURRICULUM VITAE

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Personal Information:

Date of birth : 10th May 1973

Nationality : Indian

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No.65, Kodandareddy Layout
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Arekere Village
Bannerughatta Road
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Academic Profile:

Teaching: (From May 2013 to present)

Designation: Assistant Professor

Place of Work: Vikrama Simhapuri University College, Kakuturu, Nellore-524324
Vikrama Simhapuri University College, Kavali- 524201

Postdoctoral Experience: (February 1, 2005 – April 30, 2013)

Place of work: Department of Physics, National Dong Hwa University,
Shoufeng, Hualien 97401, Taiwan, R.O.C.

Supervisor: Professor Shyue-Chu Ke

Area of research: “Preparation and characterization of TiO₂ nanomaterials”.

Doctoral Work: Ph.D.: (1999 – 2004)

Place of work: Department of Physics, Sri Venkateswara University,
Tirupati, 517502, India.

Supervisor: Professor J. Lakshmana Rao

Title of Thesis: “EPR and optical absorption spectral investigations of Iron group transition metal ions in paramagnetic host single crystals and minerals”.

Pre-doctoral Work:

- Obtained **M.Sc.** (first class) in **Physics** with Solid State Physics and Applied Spectroscopy as electives from the Department of Physics, Sri Venkateswara University, Tirupati, 517502, India in **1996**.
 - Obtained **B.Sc.** (first class) in Mathematics, Physics and Chemistry from Sri Krishnadevaraya University, Anantapur, India in **1994**.
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Teaching experience : 12 years in the field of Material Science and Applied Spectroscopy (Post-Graduation level)

Research Experience : 25 Years in the field of Materials Science (Preparation and characterization)

Research areas of Interest : Nanomaterials for photocatalytic applications. Polymer thin films for battery and antimicrobial applications and Glasses doped with transition metal and rare-earth ions.

Awards:

1. BEST RESEARCHER AWARD

In the International Award Ceremony on the Birth Anniversary of Dr. Sarvepalli Radha Krishnan on 5th September 2022, Organized by Research Education Solutions (RES) and International School of Technology and Sciences (ISTS), Rajamahendravaram, A.P., India.

Research:

- Research papers published in International Journals: **80**
- Papers presented in National/International conferences: **29**
- Book Chapters: **03**
- Total Citations as on July, 2025: **2284**, H-index: **28**
(Source: Web of Science)
- Total Citations as on July, 2025: **2909**, H-index: **31**, i10-index-60
(Source: Google Scholar)
- Ph.D Degrees awarded : **02**
- Students working for Ph.D. : **05**

Research Projects:

- **Principal Investigator** for the CSIR sponsored research project entitled "Preparation and Characterization of Visible Light Active TiO₂ Nanomaterials"
Duration: 3 years; Date of Commencement: 01-06-2016.
- Worked as a Project Fellow in a "University Grants Commission" Major Research Project from June 2001 to May 2004.

Project Title: Magnetic Resonance Studies of Transition Metal and Rare-earth Ions in glasses

Place of work: Department of Physics, Sri Venkateswara University, Tirupati, 517502, India.

Referee for Journals:

Chemosphere
International Journal of Biological Macromolecules
Inorganic Chemistry Communications
Ceramics International
Journal of Non-Crystalline Solids
Journal of Alloys and Compounds
Journal of Physics and Chemistry of Solids
Journal of Molecular Structure
Journal of Materials Science: Materials in Electronics
Arabian Journal of Chemistry
Nano-Structures & Nano-Objects
Materials Letters
Ionics
Surface Review Letters

Invited Talks:

1. Invited talk on "Modified TiO₂ nanomaterials with visible light activity for photocatalytic applications" at the 'National conference on trends in advanced materials and their applications (TAMA-2017)' on 30th November 2017 held at Department of studies and research in physics, Tumkur University, Tumkur, Karnataka, India
2. Invited talk on "EPR spectroscopic studies" at the 'National seminar on spectroscopic techniques in physical sciences' on 25th February 2014 held at DRW College, Gudur, A.P., India.

Excellent Poster Award:

"Visible light active Phosphorus doped TiO₂ nanoparticles"

2011 International Symposium on Nano Science and Technology, November 18-19, 2011, held at Southern Taiwan University, Tainan, Taiwan.

Publications:

1. The Effect of Lattice Strain on Magnetic Properties of BaFe₁₂O₁₉ and NiFe₂O₄ Thick Films Prepared Via Tape Casting Method
Venkata Krishnaiah Rayapu, **Gopal Neeruganti O**, Raja ShekarAley, Samba Siva Rao Katlagunta, Srinivas Adiraj
Physica B: Condensed Matter 710 (2025) 417227
(ISSN: 0921-4526 (Print), 1873-2135 (Online), **Impact Factor:2.8**), **Web of Science/Scopus**
Accepted Date: 5 April 2025
<https://www.sciencedirect.com/science/article/pii/S0921452625003448>
2. Studies on PVA/MAA:EA polymer blend films modified by Fe³⁺ doping
N.O. Gopal, Md. Hussain Basha, Ojha Pravakar, Y. Madhav Kumar
Applied Microscopy 55:8 (2025)
(ISSN: 2287-5123 (Print) 2287-4445 (Online), **Impact Factor:0.54**), **Scopus**
Accepted Date: 16 March 2025
<https://appmicro.springeropen.com/articles/10.1186/s42649-025-00109-3>
3. PVA/CMC-Ag Polymer Blend Nanocomposites Prepared by Doping Bio-Derived Ag Nanoparticles and Their Structural, Thermal, Optical, Antimicrobial and Electrical Characterization
Gopala Krishna Manne, Kameswaran Srinivasan, **Gopal Neeruganti Obularajugari**, Ranjit Kumar, Prathap Pathi, Nagabhushana Hanumanthappa, Gopi Krishna Pitchika, Swapna Battana, Ramakrishna Mandala
Journal of Applied Polymer Science 142: (2025) e56811
(ISSN: 0021-8995 (Print) 1097-4628 (Online), **Impact Factor:2.8**), **Web of Science/Scopus**
Accepted: 19th January 2025
<https://onlinelibrary.wiley.com/doi/10.1002/app.56811>
4. Review of Cerium-based Catalysts and Eco-friendly Oxidants for Chlorine-free Benzaldehyde Production Via Selective Oxidation of Benzyl Alcohol
Ganesh Babu Bathula, **N. O. Gopal**, Narsaiah Chelimela, Mohan Kurra, S. Sharat kumar Goud, Rameshwar Nimma, Satyanarayana Mavurapu, S.B. Jonnalagadda, Chandra Sekhar Vasam
Oriental Journal of Chemistry, 40(4) (2024), 920-932.
(ISSN: 0970-020X (Print) 2231-5039 (Online), **Impact Factor:0.3**), **Web of Science/Scopus**
<https://www.orientjchem.org/vol40no4/review-of-cerium-based-catalysts-and-eco-friendly-oxidants-for-chlorine-free-benzaldehyde-production-via-selective-oxidation-of-benzyl-alcohol/>
5. Doping Na⁺ into polyvinyl alcohol: methacrylic acid-ethyl Acrylate (PVA/MAA:EA) polymer blend electrolytes; a way to improve the blend's thermal, structural, optical and Electrical properties.
T. Siddaiah and **N. O. Gopal**
Journal of Macromolecular Science-Prart B, 61(10–11) (2022), 1451–1462.
(ISSN: 0022-2348(Print),1525-609X(Online),Impact Factor:1.2) **Web of Science/Scopus**
Accepted: 24 March 2023
<https://www.tandfonline.com/doi/full/10.1080/00222348.2022.2197765>

6. The Effect of Doping Cr^{3+} Ions on Thermal, Structural and Morphological, Properties of PVP Polymer Electrolytes
Md. Hussain Basha, P. Mohanbabu, Sk. Erfan, N.O. Gopal,
Mathematical Statistician and Engineering Applications, 71(4) (2022), 9908-9916.
(ISSN: 2094-0343, Impact Factor:-----) **Scopus**
Accepted: 14 November 2022
<https://philstat.org/index.php/MSEA/article/view/1806>

7. Structural and spectroscopic characterizations of boron doped $\text{TiO}_2\text{--CeO}_2$ nanocomposite synthesized by solution combustion technique for photocatalytic applications
Md. Hussain Basha, Ch. Ramu, **Neeruganti O. Gopal**, M.V. Bhaskar Reddy
Journal of Molecular Structure, 1231 (2021) 129892.
(ISSN: 0022-2860, **Impact Factor: 4.7**), **Web of Science/Scopus**
Accepted 31 December 2020 Available online 7 January 2021
<https://www.sciencedirect.com/science/article/abs/pii/S0022286021000235>

8. Thermal, Structural, Optical and Electrical Conductivity studies of pure and Mn^{2+} doped PVP films
K. Sreekanth, T. Siddaiah, **N.O. Gopal**, N. Krishna Jyothi, K. Vijaya Kumar, Ch. Ramu,
South African Journal of Chemical Engineering, 36 (2021) 8–16
(ISSN:1026-9185, **Impact Factor: 1.6**), **Web of Science/Scopus**
Accepted 20 September 2020
<https://www.sciencedirect.com/science/article/pii/S1026918520300512>

9. Studies on the effect of Cu doping on the structural, thermal and spectroscopic properties of PVA/MAA:EA polyblend films
Ojha Pravakar , T. Siddaiah , P. V. R. K. Ramacharyulu , **N. O. Gopal** , Ch. Ramu, H. Nagabhushana
Materials Research Innovations, 25(7) (2021) 442-448.
(ISSN: 1432-8917 (Print) 1433-075X (Online), **Impact Factor: 1.14**), **Scopus**
Accepted 28 September 2020 Published online: 06 Oct 2020.
<https://www.tandfonline.com/doi/full/10.1080/14328917.2020.1831152>

10. Effect of K^+ ion doping on structural and physical properties of PVA/MAA:EA polymer blend electrolytes.
Siddaiah Tellamekala, Pravakar Ojha, **Gopal NO**, Nagabhushana H, Ramu Ch.
Materials Research Innovations, 25(5) (2021) 287-299.
(ISSN: 1432-8917 (Print) 1433-075X (Online), **Impact Factor: 1.14**), **Scopus**
Accepted 8 July 2020 Published online: 20 Jul 2020
<https://www.tandfonline.com/doi/abs/10.1080/14328917.2020.1795336>

11. Thermal, structural, optical and electrical conductivity studies of pure and Fe^{3+} ions doped PVP films for semiconducting polymer devices
K. Sreekanth, T. Siddaiah, **N. O. Gopal**, Y. Madhava Kumar & Ch. Ramu
Materials Research Innovations, 25(2) (2021) 95-103.
(ISSN: 1432-8917 (Print) 1433-075X (Online), **Impact Factor: 1.14**), **Scopus**
Accepted 14 March 2020 Published online: 25 Mar 2020.
<https://www.tandfonline.com/doi/abs/10.1080/14328917.2020.1744346>

12. Spectroscopic, thermal, structural and electrical studies on VO^{2+} ions doped PVA/MAA:EA polymer blend films.
Ojha Pravakar, T. Siddaiah, P.V.R.K. Ramacharyulu, **N.O. Gopal**, Ch. Ramu, H. Nagabhushana.
Journal of Science: Advanced Materials and Devices, 4(2) (2019) 267-275.
(ISSN: 2468-2179, **Impact Factor: 6.7**), **Web of Science/Scopus**
Accepted 13 March 2019 Available online 19 March 2019
<https://www.sciencedirect.com/science/article/pii/S2468217918302478>
13. Optical and conductivity studies of Cr^{3+} doped polyvinyl pyrrolidone polymer electrolytes.
K. Sreekanth, T. Siddaiah, **N.O. Gopal**, N. Krishna Jyothi, K. Vijaya Kumar, Ch. Ramu
Journal of Macromolecular Science-Prart B, 58(11) (2019) 860-876.
(ISSN: 0022-2348(Print) 1525-609X(Online), **Impact Factor: 1.2**), **Web of Science/Scopus**
Accepted 12 August 2019 Published online: 28 Aug 2019.
<https://www.tandfonline.com/doi/abs/10.1080/00222348.2019.1658372>
14. Optical and electrical conductivity studies of VO^{2+} doped polyvinyl pyrrolidone (PVP) polymer electrolytes.
K. Sreekanth, T. Siddaiah, **N.O. Gopal**, Y. Madhava Kumar, Ch. Ramu
Journal of Science: Advanced Materials and Devices, 4(2) (2019) 230-236.
(ISSN: 2468-2179, **Impact Factor: 6.7**), **Web of Science/Scopus**
Accepted 3 June 2019 Available online 8 June 2019
<https://www.sciencedirect.com/science/article/pii/S2468217919300061>
15. Solution combustion synthesis and characterization of phosphorus doped $\text{TiO}_2\text{-CeO}_2$ nanocomposite for photocatalytic applications
Md. Hussain Basha, **Neeruganti O. Gopal**
Materials Science & Engineering B, 236–237 (2018) 43–47
(ISSN: 0921-5107, **Impact Factor: 4.6**), **Web of Science/Scopus**
Accepted 3 December 2018
<https://www.sciencedirect.com/science/article/abs/pii/S0921510718300862>
16. TiO_2 nano-flakes with high activity obtained from phosphorus doped TiO_2 nanoparticles by hydrothermal method
Neeruganti O. Gopal, Md. Hussain Basha
Ceramics International, 44(18) (2018) 22129-22134.
(ISSN: 0272-8842, **Impact Factor: 5.6**), **Web of Science/Scopus**
Accepted 27 August 2018 Available online 29 August 2018
<https://www.sciencedirect.com/science/article/pii/S027288421832409X>
17. Synthesis and investigations on correlation between EPR and optical properties of Fe doped Li_2SiO_3
M.S.Pathak, **N.O.Gopal**, N.Singh, M.Mohapatra, J.L.Rao, J.K. Lee, V. Singh
Journal of Non-Crystalline Solids, 500 (2018) 266-271.
(ISSN: 0022-3093, **Impact Factor: 3.5**), **Web of Science/Scopus**
Accepted 7 August 2018 Available online 17 August 2018
<https://www.sciencedirect.com/science/article/abs/pii/S0022309318304800>

18. Thermal, Structural, Optical and Electrical Properties of PVA/MAA:EA polymer blend filled with different concentrations of Lithium Perchlorate (LiClO₄)
T. Siddaiah, Pravakar Ojha, **N. O. Gopal**, Ch. Ramu, H. Nagabhushana
Journal of Science: Advanced Materials and Devices, 3(4) (2018) 456-463.
(ISSN: 2468-2179, **Impact Factor: 6.7**), **Web of Science/Scopus**
Accepted 18 November 2018 Available online 27 November 2018
<https://www.sciencedirect.com/science/article/pii/S2468217918301424>
19. Structural, Optical and Thermal Characterizations of PVA/MAA:EA Polyblend Films
T. Siddaiah, Pravakar Ojha, **N. O. Gopal**, V.Ramesh Kumar, Ch. Ramu
Materials Research, 21(5) (2018): e20170987.
(ISSN: 1980-5373, **Impact Factor:1.01**), **Web of Science/Scopus**
Accepted: June 05, 2018
https://www.scielo.br/scielo.php?pid=S1516-14392018000500216&script=sci_arttext
20. Structural and optical properties of VO²⁺ doped Methacrylic acid Ethylacrylate (MAA:EA) copolymer films.
Y. Madhava Kumar, K. Bhyagyasree, **N.O. Gopal**, Ch. Ramu
Materials Science-Poland, 36(1) (2018) 34-41.
(ISSN:2083-134X, **Impact Factor: 1.3**), **Web of Science/Scopus**
Accepted 2018-01-29
<https://sciendo.com/article/10.1515/msp-2018-0014>
21. Thermal and conductivity studies of VO²⁺ doped Methacrylic acid – Ethyl crylate (MAA:EA) copolymer films.
Y. Madhava Kumar, K. Bhyagyasree, **N.O. Gopal**, Ch. Ramu
Materials Research, 21(1) (2018) e20170328.
(ISSN: 1516-1439, 1980-5373, **Impact Factor: 1.01**), **Web of Science/Scopus**
Accepted: September 17, 2017
https://www.scielo.br/scielo.php?pid=S1516-14392018000100105&script=sci_arttext
22. Thermal, Optical And Dielectric Studies Of VO²⁺ Doped Polyvinyl Chloride Thin Films.
K. Bhyagyasree, Y. Madhava Kumar, **N.O. Gopal** and Ch. Ramu
Journal of Advanced Materials and Processing, 5(4) (2017) 21-33.
(ISSN:2322-388X, **Impact Factor: 0.3**)
Accepted: 30 January 2018
http://jmatpro.iaun.ac.ir/article_623126.html
23. Phosphorus and boron codoping into TiO₂ nanoparticles; an avenue for enhancing the visible light photocatalytic activity.
Md. Hussain Basha, **Neeruganti O. Gopal**, Dipak B. Nimbalkar, Shyue-Chu Ke
J. Mater. Sci.: Mater. Electron., 28 (2017) 987–993.
(ISSN: 0957-4522(Print),1573-482X(Online), **Impact Factor: 2.8**), **Web of Science/Scopus**
Accepted: 22 August 2016
<https://link.springer.com/article/10.1007/s10854-016-5618-7>
24. Preparation and characterization of pure and copper doped PVC films.
K. Bhagyasree, Y. Madhava Kumar, **N.O. Gopal**, Ch. Ramu
Journal of Polymer Engineering, 37(1) (2017) 83-92.
(ISSN:2191-0340, **Impact Factor: 1.7**), **Web of Science/Scopus**
Accepted March 3, 2016
<https://www.degruyter.com/document/doi/10.1515/polyeng-2015-0446/html>

25. Structural, thermal and optical properties of Cu²⁺ doped Methacrylic Acid – Ethyl Acrylate (MAA:EA) copolymer films.
Y. Madhava Kumar, **N.O. Gopal**, Ch. Ramu, S. Babu, J. Lakshmana Rao, H. Nagabhushana, S.C. Sharma
Bullettin of Materials Science, **40(5)** (2017) 877-886.
(ISSN: 0250-4707, 0973-7669, **Impact Factor:2.1**), **Web of Science/Scopus**
Accepted 28 November 2016
<https://link.springer.com/article/10.1007/s12034-017-1453-6>

26. Structural, thermal and optical properties of Mn²⁺ doped Methacrylic Acid – EthylAcrylate (MAA:EA) copolymer films.
Y. Madhava Kumar, K. Bhyagyasree, **N.O. Gopal**, Ch. Ramu, H. Nagabhushana.
Zeitschrift für physikalische chemie, 231(5) (2017), pp.1039 – 1055
(ISSN:0942-9352, 2196-7156, **Impact Factor: 3.2**), **Web of Science/Scopus**
Accepted October 6, 2016
<https://search.proquest.com/docview/1894497247?pq-origsite=gscholar&fromopenview=true>

27. Spectroscopic, morphological and structural investigations of Fe³⁺ ions doped Methacrylic Acid- Ethyl Acrylate (MAA:EA) Copolymer Films.
Y. Madhava kumar , K. Bhyagya sree, **N.O. Gopal**, Ch. Ramu
Advances in Polymer Science and Technology: An International Journal, 6(2) (2016) 26-33.
(ISSN: 2277-7164, **Impact Factor: 0.5**)

28. Structural, thermal and optical properties of pure and Mn²⁺ doped Poly (vinyl chloride) films.
K. Bhagyasree, Y. Madhava Kumar, **N.O. Gopal**, Ch. Ramu
Materials Research, 19(5) (2016) 1167-1175.
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Accepted: August 11, 2016
https://www.scielo.br/scielo.php?pid=S1516-14392016000501167&script=sci_arttext

29. Incorporation of Cr³⁺ ions in tuning the magnetic and transport properties of nano zinc ferrite
B. Daruka Prasad, H. Nagabhushana, K. Thyagarajan, S.C. Sharma, C. Shivakumara, **N.O. Gopal**, B.M. Nagabhushana, Shyue-Chu Ke, R.P.S. Chakradhar, K.R. Prabhakara
Journal of Alloys and Compounds, 657 (2016) 95–108.
(ISSN: 0925-8388, 1873-4669, **Impact Factor: 6.3**), **Web of Science/Scopus**
Accepted 30 sept 2015 Available online 8 oct 2015
<https://www.sciencedirect.com/science/article/abs/pii/S0925838815312548>

30. Development and characterization of Mn²⁺ doped MgO nanoparticles by solution combustion synthesis
Md. Hussain Basha, N. O. Gopal, J. L. Rao, H. Nagabhushana, B. M. Nagabhushana, and R. P. S. Chakradhar
AIP Conference Proceedings, **1665**, 050152 (2015); doi: 10.1063/1.4917793
View online: <http://dx.doi.org/10.1063/1.4917793>

31. Electron Paramagnetic Resonance Investigation of Charge Transfer in TiO₂(B)/Anatase and N–TiO₂(B)/Anatase Mixed-Phase Nanowires: The Relative Valence and Conduction Band Edges in the Two Phases
Hsin-Hsi Lo, **Neeruganti O. Gopal**, Shiann-Cherng Sheu, and Shyue-Chu Ke
Journal of Physical Chemistry C, 118(5) (2014) 2877-2884.
(ISSN: 1932-7447, 1932-7455, **Impact Factor: 3.2**), **Web of Science/Scopus**
<https://pubs.acs.org/doi/abs/10.1021/jp411723m>

32. Magnetic and dielectric interactions in nano zinc ferrite powder: Prepared by self-sustainable propellant chemistry technique
B. Daruka Prasad, H. Nagabhushana, K.Thyagarajan, B.M. Nagabhushana, D.M. Jnaneshwara, S.C.Sharma, C. Shivakumara, **N.O. Gopal**, Shyue-Chu Ke, R.P.S. Chakradhar
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<https://www.sciencedirect.com/science/article/abs/pii/S0304885314000328>

33. Synthesis, structural and thermoluminescence properties of YAlO₃:Dy³⁺ nanophosphors
H.B. Premkumar, D.V. Sunitha, H. Nagabhushana, S.C. Sharma, B. Daruka Prasad, B.M. Nagabhushana, C. Shivakumara, J.L. Rao, **N.O. Gopal**, K.R. Prabhakara, Shyue-Chu Ke, R.P.S. Chakradhar
Journal of Alloys and Compounds, 591 (2014) 337–345.
(ISSN: 0925-8388, 1873-4669, **Impact Factor: 6.3**), **Web of Science/Scopus**
<https://www.sciencedirect.com/science/article/abs/pii/S0925838813032192>

34. Temperature dependent magnetic ordering and electrical transport behavior of nano zinc ferrite from 20 to 800 K
B. Daruka Prasad, H. Nagabhushana, K. Thyagarajan, B.M. Nagabhushana, D.M. Jnaneshwara, S.C. Sharma, C. Shivakumara, **N.O. Gopal**, Shyue-Chu Ke, R.P.S. Chakradhar.
Journal of Alloys and Compounds, 590 (2014) 184–192.
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<https://www.sciencedirect.com/science/article/abs/pii/S0925838813030740>

35. Electron paramagnetic resonance, magnetic and electrical properties of CoFe₂O₄ nanoparticles
D.M. Jnaneshwara, D.N.Avadhani, B.DarukaPrasad, B.M.Nagabhushana, H. Nagabhushana, S.C.Sharma, C.Shivakumara, J.L.Rao, **N.O.Gopal**, Shyue-Chu Ke, R.P.S.Chakradhar
Journal of Magnetism and Magnetic Materials, 339 (2013) 40–45.
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36. Visible light active phosphorus doped TiO₂ nanoparticles: An EPR evidence for the enhanced charge separation.
Gopal Obularajugari Neeruganti, Hsin-Hsi Lo, Tzu-Feng Ke, Chin-Hua Lee, Chang-Chih Chou, Jyun-De Wu, Shiann-Cherng Sheu, and Shyue-Chu Ke
Journal of Physical Chemistry C, 116 (2012) 16191-16197.
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37. A potential site for trapping photogenerated holes on rutile TiO₂ surface as revealed by EPR spectroscopy: An avenue for enhancing photocatalytic activity.
Neeruganti O. Gopal, Hsin-Hsi Lo, Shiann-Cherng Sheu, Shyue-Chu Ke
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38. EPR and IR spectral investigations on some leafy vegetables of Indian origin.
C.P. Lakshmi Prasuna, R.P.S. Chakradhar, J.L. Rao, **N.O. Gopal**
Spectrochimica Acta Part A, 74(1) (2009) 140–147.
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<https://www.sciencedirect.com/science/article/abs/pii/S1386142509002340>
39. Origin of photoactivity of oxygen-deficient TiO₂ under visible light.
Hsin-Hsi Lo, **Neeruganti O. Gopal**, Shyue-Chu Ke
Applied Physics Letters, 95 (2009) 083126.
(ISSN: 0003-6951, **Impact Factor:3.971**), **Web of Science/Scopus**
<https://aip.scitation.org/doi/abs/10.1063/1.3216585>
40. EPR as an analytical tool in assessing the mineral nutrients and irradiated food products–vegetables.
C.P. Lakshmi Prasuna, R.P.S. Chakradhar, J.L. Rao and **N.O. Gopal**
Spectrochimica Acta Part A, 71(3) (2008) 809–813.
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<https://www.sciencedirect.com/science/article/abs/pii/S1386142508001029>
41. Chemical state and environment of boron dopant in B,N-codoped anatase TiO₂ nanoparticles: An avenue for probing diamagnetic dopants in TiO₂ by Electron Paramagnetic Resonance spectroscopy.
Neeruganti O. Gopal, Hsin-Hsi Lo, Shyue-Chu Ke
Journal of the American Chemical Society, 130(9) (2008) 2760-2761.
(ISSN: 0002-7863, 1520-5126, **Impact Factor:15.6**), **Web of Science/Scopus**
<https://pubs.acs.org/doi/abs/10.1021/ja711424d>
42. EPR and optical absorption studies of VO²⁺ ions in alkaline earth aluminoborate glasses.
B. Yasoda, R.P. Sreekanth Chakradhar, J.L. Rao and **N.O. Gopal**
Materials Chemistry and Physics, 106(1) (2007) 33-38.
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BOOK CHAPTERS:

1. S. Kameswaran, N.O. **Gopal**, A. Sivashankar Redddy, Ch. Manjula, B. Manjunatha and B. Ramesh. **2024**. “*Role of biotechnology and bioprocess in bioenergy*”. Book: “*Microbial Biotechnology for Bioenergy*”. Eds. Naga Raju Maddela, Sesan Abiodun Aransiola, Chizoba I. Ezugwu, Lizziane Kretli Winkelstroter Eller, Laura Scalvenzi, Fangang Meng. **Elsevier** – ISBN: 9780443141133.
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2. S. Kameswaran, Bellamkonda Ramesh, N. O. Gopal, and A. Sivashankar Reddy. Nano-Emulsions as Potential Drug Discovery and Delivery Systems for Bioactive Compounds: Preparation, Characterization, and Applications in Drug/Pharmaceutical Industry. In: *Recent Trends in Functional Foods and Nutraceuticals*. Eds. Ajeet Singh and Navneet Bithel. Apple Academic Press. ISBN: 9781779520074.
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List of papers presented in conferences and workshops

International:

1. Microwave Absorption Properties of Barium Hexaferrite ($\text{BaFe}_{12}\text{O}_{19}$) and Nickel ferrite (NiFe_2O_4) composite thick films with PVDF as polymer Matrix
Venkata Krishnaiah Rayapu, **Gopal Neeruganti O**, Raja ShekarAley, Samba Siva Rao Katlagunta, Srinivas Adiraj.
International Symposium on Nanomaterials for Health & Energy, Department of Chemistry, JSS Science & Technology University – Mysuru, 2nd Sept 2024.
2. Magnetic Spring Exchange Coupling between Barium Hexaferrite and Nickel Ferrite Flexible Thick Films with PVDF as Polymer Matrix (G1-0020)
Venkata Krishnaiah Rayapu, **Gopal Neeruganti O**, Raja ShekarAley, Samba Siva Rao Katlagunta, Srinivas Adiraj
2nd International Conference on Recent Trends in Applied Physics & Material Science (RAM -2024), Department of Physics, Bikaner Technical University, Bikaner-334004 Rajasthan, 15th & 16th November 2024.
3. Non-metal insertion into TiO_2 nanomaterials by various methods-A way to enhance the activity of TiO_2 .
N.O. Gopal
“5th Edition of International Conference on Materials Science and Engineering (MAT 2023)”, held during September 25-27, 2023 in Hybrid Format at Valencia, Spain. (Oral Presentation-Virtual)
4. Preparation and characterization of Nitrogen doped TiO_2 nanoparticles; A correlation of EPR and optical absorption studies on visible light active centers.
N.O. Gopal
International Conference On 'Advances in Materials, Ceramics & Engineering Sciences'(AMCES- 2020), 17th -18th January, 2020, Dayananda Sagar College of Engineering, Bengaluru, India. (Oral Presentation)
5. Preparation and characterization of phosphorus and nitrogen Co-doped TiO_2 nanoparticles with visible light activity
Md.Hussain Basha, **Neeruganti O Gopal**
International Conference on Science & Technology STFCS – 2016.
August 8th & 9th 2016, Indian SPS alumni association (IJAA), Mysore, INDIA
6. Doping Dependence of structural and optical properties of VO^{2+} doped MAA:EA Copolymer films
Y. Madhava Kumar, K. Bhyagyasree, **N.O. Gopal**, Ch. Ramu
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5. Optical properties of Cu^{2+} ions doped Methacrylic Acid – Ethyl Acrylate (MAA:EA) copolymer films
Y.Madhava Kumar, K. Bhagya Sree, **N.O. Gopal** and Ch. Ramu
International Seminar on Luminescence and Materials held on 7th January, 2016 at D.S. Government Degree College for Women, Ongole. (Poster Presentation)
6. Thermal and Optical Properties of Pure and Mn^{2+} Doped PVC films
K. Bhagya Sree, Y. Madava Kumar, **N.O. Gopal** and Ch. Ramu
Polymer conference for Young Researchers held on 18th December, 2015 at National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram. (Poster Presentation).
7. Development and characterization of Mn^{2+} - doped MgO nanoparticles by solution combustion synthesis
Md. Hussain basha, **N.O. Gopal**, J.L. Rao, H. Nagabhushana, B.M. Nagabhushana, R.P.S. Chakradhar
59th DAE-Solid State Physics Symposium", December 16 - 20, 2014 heldt at VIT University, Vellore Tamilnadu , INDIA.
8. Preparation and characterization of TiO_2 nanowires and nanobelts with high photocatalytic activity
N.O.Gopal and Md.Hussain Basha
International conference on “ Nano-Bio and Materials Sciences(ICONBMS-2014), January 08-10, 2014, heldt at Dept. of Physics Nizam College, Osmania University, Hyderabad (Poster presentation).
9. Visible light active phosphorous doped TiO_2 nanoparticles
Neeruganti O Gopal, Hsin-Hsi Lo, Shyue-Chu Ke
2011 International Symposium on Nano Science and Technology, November 18-19, 2011, held at Southern Taiwan University, Tainan, Taiwan (Poster Presentation)
Got “Excellent Poster Award”.
10. Origin of photoactivity of oxygen-deficient TiO_2 under visible light
Hsin-His Lo, **Neeruganti O. Gopal**, Shyue-Chu Ke
Annual Meeting of the Physical Society of ROC; Taiwan-Argonne Workshop on Nano-Structured Materials, February 1-2, 2010, held at National Cheng Kung University, Tainan, Taiwan.
11. EPR and optical absorption studies of Cr^{3+} ions in alkaline earth alumino borate glasses.
V.Ramesh kumar, J. Lakshmana Rao and **N.O.Gopal**
4th Asia Pacific EPR/ESR symposium, November 21-25, 2004, held at Indian Institute of Science, Bangalore, India.
12. Electron Spin Resonance studies of Mn^{2+} activated MgGa_2O_4 phosphors
B. Yashoda, **N.O. Gopal** and J. Lakshmana Rao
National Symposium on Magnetic Resonance held at Indian Institute of Science, Bangalore during 3-6 February, 2003 (Oral presentation).

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 G. Sivaramaiah, **N.O. Gopal** and J. Lakshmana Rao
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15. Structural, optical and magnetic resonance studies on single crystals of clinocllore mineral.
N.O. Gopal, K.V. Narasimhulu and J. Lakshmana Rao
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16. A single crystal electron paramagnetic resonance study of VO^{2+} ions doped in cobalt maleate tetrahydrate
N.O. Gopal, K.V. Narasimhulu and J. Lakshmana Rao
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17. EPR study of Mn^{2+} ions in nickel maleate tetrahydrate single crystals
N.O. Gopal, K.V. Narasimhulu and J. Lakshmana Rao
 DAE Solid State Physics Symposium, 27-31 December 2000 held at Guru Ghasidas University, Bilaspur, Chhattisgarh (Poster Presentation)

National:

1. In-Plane and Out-of-Plane Magnetic Properties of Flexible Barium Hexaferrite ($\text{BaFe}_{12}\text{O}_{19}$) Thick Films Prepared by Tape Casting Method
 Venkata Krishnaiah Rayapu, **Gopal Neeruganti O**, Raja ShekarAley, Samba Siva Rao Katlagunta, Srinivas Adiraj
 National Seminar on Emerging Trends and Advanced Multi-Functional Materials (NSETAFM - 2025), Department of Physics, Acharya Nagarjuna University- Guntur, 20th & 21st March 2025.
2. The Effect of Lattice Strain on Magnetic Properties of $\text{BaFe}_{12}\text{O}_{19}$ and NiFe_2O_4 Thick Films Prepared by the Tape Casting Method
 Venkata Krishnaiah Rayapu, **Gopal Neeruganti O**, Raja ShekarAley, Samba Siva Rao Katlagunta, Srinivas Adiraj
 National Conference on Synthesis of Advanced Materials for Science and Technology (NCSAMST-2024), Department of Physics & Electronics, Govt. College for Men (A) Kadapa – 516004, 25th November 2024, *Received Best Poster Award.*

3. Thermal, structural and morphological studies of VO²⁺ doped polyvinyl pyrrolidone (PVP) polymer electrolytes.
K.Sreekanth, T.Siddaiah, **N.O.Gopal**, Ch.Ramu
National seminar on emerging trends and advances in multi functional materials (NSETAFM-2019) held on 10th & 11th December 2019 at ANU college of sciences, Acharya Nagarjuna University, Guntur, A.P., India., India.
4. Electron Paramagnetic Resonance, Optical and Morphological studies on VO²⁺ ions doped PVA/MAA:EA polymer blend films
Ojha Pravakar, T. Siddaiah, **N.O. Gopal**, Ch. Ramu
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5. Studies on thermal, structural, morphological and optical Properties of PVA/MAA:EA polymer blend complexed with different concentrations of Pottasium Chloride (KCl)
T. Siddaiah, Pravakar ojha, **N.O. Gopal**, Ch. Ramu
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6. Optical and Conductivity Studies of Cr³⁺ doped Polyvinyl Pyrrolidone (PVP) Polymer Electrolytes
K. Sreekanth, T. Siddaiah, **N.O. Gopal**, Ch. Ramu
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7. Effect of Fe³⁺ doping on thermal, structural, morphological, optical and electron paramagnetic resonance studies of PVA/MAA:EA polymer blend films”
Pravakar Ojha and **N.O. Gopal**
National Conference on Novel Materials for Device Applications (NCNMDA-2018) from November 4-5, 2018 held at S. V. University, Titupati, A.P, India
8. Structural and spectroscopic characterization of boron doped TiO₂-CeO₂ nanocomposite synthesized by solution combustion technique.
Md. Hussain Basha, **Neeruganti O. Gopal**
‘National conference on trends in advanced materials and their applications (TAMA-2017)’ on 30th November 2017 held at Department of studies and research in physics, Tumkur University, Tumkur, Karnataka, India.
9. Preparation and characterization of phosphorus and boron codoped TiO₂ nanoparticles with visible light activity.
Md. Hussain Basha, **N.O. Gopal**
National seminar on advances in materials science (NSAMS-15), November 25-26, 2015 held at ANU college of sciences, Acharya Nagarjuna University, Guntur, A.P., India., India.
10. Structural, thermal and optical properties of Cu²⁺ ions doped MAA:EA copolymer films.
Y. Madhava Kumar, K. Bhagya Sree, **N.O. Gopal**, Ch. Ramu
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11. Preparation and characterization of pure and copper doped PVC films.
K. Bhagya Sree, Y. Madhava Kumar, **N.O. Gopal**, Ch. Ramu
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12. Investigation on structural and optical characterization of Mn^{2+} Doped MAA: EA copolymer films.
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Subject Categories

Materials Science; Physics; Chemistry; Spectroscopy; Science & Technology - Other Topics

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[Nanomaterials](#) [Polymer thin films](#)

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