

CURRICULUM VITAE

Dr. N.O. Gopal

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Personal Information:

Date of birth : 10th May 1973
Nationality : Indian
Marital Status: Married

Permanent Address:

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Arekere Villlage
Bannerughatta Road
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Academic Profile:

Teaching: (From May 2013)

Designation: Assistant Professor

Place of Work: Vikrama Simhapuri University PG Centre, Kavali- 524201

Postdoctoral Experience: (February 2005 – April 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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Research

- Research papers published in International Journals: 74
- Papers presented in National/International conferences: **24**
- Total Citations as on December, 2021: 1775, H-index: 24
(Source: Web of Science)
- Ph.D Degrees awarded **:02**
- Students working for Ph.D. **:04**

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.

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.

Instruments operated:

Electron Paramagnetic Resonance Spectrometer (**EPR**)
Electron Nuclear Double Resonance Spectrometer (**ENDOR**)
Scanning Electron Microscope (**SEM**)
X-ray Photoelectron Spectrometer (**XPS**)
Raman Spectrometer
UV-Vis Spectrophotometer
X-ray Diffractometer (**XRD**)

Teaching experience : 8 years in the field of Material Science and Spectroscopy (Post-Graduation level)

Research Experience : 20 Years in the field of Materials Science (Preparation and characterization)

Research areas of Interest : TiO₂ Nanomaterials for photocatalytic applications. Polymer thin films and Glasses doped with transition metal and rare-earth ions.

Referee for Journals:

Ceramics International
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
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.
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Awards:

OUTSTANDING SCIENTIST AWARD

In the International Scientist Awards on Engineering, Science and Medicine, held on 16 & 17-Jul-2021, Mysore, India, Organized by VDGGOOD Professional Association, India.

Publications:

1. Structural and spectroscopic characterizations of boron doped TiO₂-CeO₂ 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:2.46)
Accepted 31 December 2020 Available online 7 January 2021
<https://www.sciencedirect.com/science/article/abs/pii/S0022286021000235>
2. Thermal, Structural, Optical and Electrical Conductivity studies of pure and Mn²⁺ 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)
Accepted 20 September 2020
<https://www.sciencedirect.com/science/article/pii/S1026918520300512>
3. 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 (2020), <https://doi.org/10.1080/14328917.2020.1831152>
(ISSN: 1432-8917 (Print) 1433-075X (Online), Impact Factor:1.14)
Accepted 28 September 2020 Published online: 06 Oct 2020.
<https://www.tandfonline.com/doi/full/10.1080/14328917.2020.1831152>
4. Effect of 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 (2020). DOI:10.1080/14328917.2020.1795336
(ISSN: 1432-8917 (Print) 1433-075X (Online), Impact Factor:1.14)
Accepted 8 July 2020 Published online: 20 Jul 2020
<https://www.tandfonline.com/doi/abs/10.1080/14328917.2020.1795336>
5. Thermal, structural, optical and electrical conductivity studies of pure and Fe³⁺ ions doped PVP films for semiconducting polymer devices
K. Sreekanth, T. Siddaiah, **N. O. Gopal**, Y. Madhava Kumar & Ch. Ramu
Materials Research Innovations (2020). DOI:10.1080/14328917.2020.1744346
(ISSN: 1432-8917 (Print) 1433-075X (Online), Impact Factor:1.14)
Accepted 14 March 2020 Published online: 25 Mar 2020.
<https://www.tandfonline.com/doi/abs/10.1080/14328917.2020.1744346>
6. Spectroscopic, thermal, structural and electrical studies on VO²⁺ 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 (2019) 267-275
(ISSN: 2468-2179, Impact Factor:3.783)
Accepted 13 March 2019 Available online 19 March 2019
<https://www.sciencedirect.com/science/article/pii/S2468217918302478>

7. 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 (2019) 860-876.
(ISSN: 0022-2348 (Print) 1525-609X (Online), Impact Factor:1.204)
Accepted 12 August 2019 Published online: 28 Aug 2019.
<https://www.tandfonline.com/doi/abs/10.1080/00222348.2019.1658372>
8. 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 (2019) 230-236
(ISSN: 2468-2179, Impact Factor:3.783)
Accepted 3 June 2019 Available online 8 June 2019
<https://www.sciencedirect.com/science/article/pii/S2468217919300061>
9. 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: 3.316)
Accepted 3 December 2018
<https://www.sciencedirect.com/science/article/abs/pii/S0921510718300862>
10. 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 (2018) 22129-22134
(ISSN: 0272-8842, Impact Factor:3.057)
Accepted 27 August 2018 Available online 29 August 2018
<https://www.sciencedirect.com/science/article/pii/S027288421832409X>
11. 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, 2018, 500, pp.266-271
(ISSN: 0022-3093, Impact Factor:2.488)
Accepted 7 August 2018 Available online 17 August 2018
<https://www.sciencedirect.com/science/article/abs/pii/S0022309318304800>
12. Thermal, Structural, Optical and Electrical Properties of PVA/MAA:EA polymer blend filled with different concentrations of Lithium Perchlorate (LiClO_4)
T. Siddaiah, Pravakar Ojha, **N. O. Gopal**, Ch. Ramu, H. Nagabhushana
Journal of Science: Advanced Materials and Devices, 3 (2018) 456-463.
(ISSN: 2468-2179, Impact Factor:3.783)
Accepted 18 November 2018 Available online 27 November 2018
<https://www.sciencedirect.com/science/article/pii/S2468217918301424>

13. 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. 2018; 21(5): e20170987,
(ISSN: 1980-5373, Impact Factor:1.01)
Accepted: June 05, 2018
https://www.scielo.br/scielo.php?pid=S1516-14392018000500216&script=sci_arttext

14. 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: 0.93)
Accepted 2018-01-29
[https://content.sciendo.com/configurable/contentpage/journals\\$002fmsp\\$002f36\\$002f1\\$002farticle-p34.xml](https://content.sciendo.com/configurable/contentpage/journals$002fmsp$002f36$002f1$002farticle-p34.xml)

15. 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** (2018) e20170328.
(ISSN:1516-1439, Impact Factor: 1.01)
Accepted: September 17, 2017
https://www.scielo.br/scielo.php?pid=S1516-14392018000100105&script=sci_arttext

16. 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

17. 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:2.324)
Accepted: 22 August 2016
<https://link.springer.com/article/10.1007/s10854-016-5618-7>

18. Preparation and characterization of pure and copper doped PVC films.
K. Bhyagyasree, Y. Madhava Kumar, **N.O. Gopal**, Ch. Ramu
Journal of Polymer Engineering, 37 (2017) 83 - 92.
(ISSN:2191-0349, Impact Factor:0.69)
Accepted March 3, 2016
<https://www.degruyter.tools/document/doi/10.1515/polyeng-2015-0446/html>

19. 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
Bulletin of Materials Science **40(5)** (2017) 877-886.
(ISSN:0973-7669 , Impact Factor:1.52)
Accepted 28 November 2016
<https://link.springer.com/article/10.1007/s12034-017-1453-6>
20. Structural, thermal and optical properties of Mn²⁺ doped Methacrylic Acid – EthylAcrylate (MAA:EA) copolymer films.
Y. Madhava Kumar, K. Bhygyasree, **N.O. Gopal**, Ch. Ramu, H. Nagabhushana.
Zeitschrift für physikalische chemie, **231** (2017), pp.1039 – 1055
(ISSN:0942-9352, Impact Factor: 2.030)
Accepted October 6, 2016
<https://search.proquest.com/docview/1894497247?pqorigsite=gscholar&fromopenview=true>
21. 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** (2016) 26-33.
(ISSN: 2277-7164, Impact Factor: 0.5)
22. 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** (2016) 1167-1175.
(ISSN:1516-1439, Impact Factor: 1.01)
Accepted: August 11, 2016
https://www.scielo.br/scielo.php?pid=S1516-14392016000501167&script=sci_arttext
23. 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, Impact Factor:3.779)
Accepted 30 sept 2015 Available online 8 oct 2015
<https://www.sciencedirect.com/science/article/abs/pii/S0925838815312548>
24. 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
<http://dx.doi.org/10.1063/1.4917793>

25. 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 (2014) 2877-2884.
(ISSN: 1932-7447, Impact Factor:4.484)
<https://pubs.acs.org/doi/abs/10.1021/jp411723m>

26. 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
Journal of Magnetism and Magnetic Materials, 358-359 (2014) 132-141.
(ISSN: 0304-8853, Impact Factor:3.046)
<https://www.sciencedirect.com/science/article/abs/pii/S0304885314000328>

27. 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, Impact Factor: 3.779)
<https://www.sciencedirect.com/science/article/abs/pii/S0925838813032192>

28. 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>

29. 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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<https://www.sciencedirect.com/science/article/abs/pii/S0304885313001108>

30. 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.
(ISSN: 1932-7447, Impact Factor: 4.484)
<https://pubs.acs.org/doi/abs/10.1021/jp212346f>
31. 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
Journal of the American Chemical Society, 132 (2010) 10982-10983.
(ISSN: 0002-7863, Impact Factor:14.357)
<https://pubs.acs.org/doi/abs/10.1021/ja909901f>
32. 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 (2009) 140–147.
(ISSN: 1386-1425, Impact Factor: 2.880)
<https://www.sciencedirect.com/science/article/abs/pii/S1386142509002340>
33. 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:3.495)
<https://aip.scitation.org/doi/abs/10.1063/1.3216585>
34. 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**
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35. 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 (2008) 2760-2761.
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36. 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 (2007) 33-38.
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<https://www.sciencedirect.com/science/article/abs/pii/S0254058407003136>

37. EPR and optical studies of Mn^{2+} ions in $Li_2O-Na_2O-B_2O_3$ glasses – An evidence of mixed alkali effect.
R.P. Sreekanth Chakradhar, B. Yasoda, J.L. Rao and **N.O. Gopal**
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38. Electron paramagnetic resonance and optical absorption studies of Cu^{2+} ion doped polyvinyl alcohol films.
Ch. Linga Raju, J.L. Rao, **N.O. Gopal** and B.C.V. Reddy
Materials Chemistry and Physics, 101 (2007) 423-427.
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39. Mixed alkali effect in $Li_2O-Na_2O-B_2O_3$ glasses containing CuO – An EPR and optical study.
R.P. Sreekanth Chakradhar, B. Yasoda, J. Lakshmana Rao and **N.O. Gopal**
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<https://www.sciencedirect.com/science/article/abs/pii/S0022309306009550>
40. Mixed alkali effect in $Li_2O-Na_2O-B_2O_3$ glasses containing Fe_2O_3 —An EPR and optical absorption study.
R.P. Sreekanth Chakradhar, B. Yasoda, J. Lakshmana Rao and **N.O. Gopal**
Materials Research Bulletin, 41 (2006) 1646-1656.
(ISSN: 0025-5408, Impact Factor:2.873)
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41. Low temperature kinetics and energetics of the electron and hole traps in irradiated TiO_2 nanoparticles as revealed by EPR spectroscopy.
Shyue-Chu Ke, Ting-Chung Wang, Ming-Show Wong, **Neeruganti O. Gopal**
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Kumar V.R., Rao J.L., **Gopal N.O.**
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43. EPR investigation of TiO_2 nanoparticles with temperature-dependent properties.
Kumar C.P., **Gopal N.O.**, Wang T.C., Wong M.S., Ke S.C.
Journal of Physical Chemistry B, 110 (2006) 5223-5229.
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44. Redox chemistry in the reaction of oxovanadium(V) with thiolate containing ligands: The isolation and characterization of non-oxovanadium(IV) complexes containing disulfide and thioether groups.
Hua-Fen Hsu, Chia-Ling Su, **Neeruganti O. Gopal**, Chi-Chin Wu, Wei-Cheng Chu, Yi-Feng Tsai, Yi-Hung Liu, Ting-Shen Kuo, Shyue-Chu Ke.
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45. EPR and optical investigations of manganese ions in alkali lead tetraborate glasses.
R.P. Sreekanth Chakradhar, G. Sivaramaiah, J. Lakshmana Rao, **N.O. Gopal**
Spectrochimica Acta, Part A, 62 (2005) 761-768.
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<https://www.sciencedirect.com/science/article/abs/pii/S1386142505000995>
46. Spectral studies on VO²⁺ ions in potassium thiourea bromide single crystals using EPR and optical absorption spectroscopy.
Ch. Linga Raju, K.V. Narasimhulu, **N.O. Gopal**, J.L. Rao, B.C.V. Reddy
Journal of Molecular structure, 754 (2005) 100-105.
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<https://www.sciencedirect.com/science/article/abs/pii/S0022286005005004>
47. Chromium ions in alkali lead borotellurite glasses – An EPR and optical study.
R.P. Sreekanth Chakradhar, J. Lakshmana Rao, G. Sivaramaiah, **N.O. Gopal**
Phys. Stat. Sol. (b), 242 (2005) 2919–2929.
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48. Fe³⁺ ions in alkali lead tetraborate glasses - an electron paramagnetic resonance and optical study.
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List of papers presented in conferences and workshops

International:

1. Preparation and characterization of Nitrogen doped TiO₂ 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)
2. Preparation and characterization of phosphorus and nitrogen Co-doped TiO₂ 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
3. Doping Dependence of structural and optical properties of VO²⁺ doped MAA:EA Copolymer films
Y. Madhava Kumar, K. Bhygyasree, N.O. Gopal, Ch. Ramu
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3. Optical properties of Cu²⁺ 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)
4. Thermal and Optical Properties of Pure and Mn²⁺ 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).
5. 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, R.P.S. Chakradhar
59th DAE-Solid State Physics Symposium", December 16 - 20, 2014 heldt at VIT University, Vellore Tamilnadu , INDIA.
6. Preparation and characterization of TiO₂ 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).

7. Visible light active phosphorous doped TiO₂ 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”.
8. Origin of photoactivity of oxygen-deficient TiO₂ under visible light
Hsin-Hsi 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.
9. EPR and optical absorption studies of Cr³⁺ ions in alkaline earth alumino borate glasses.
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4th Asia Pacific EPR/ESR symposium, November 21-25, 2004, held at Indian Institute of Science, Bangalore, India.
10. Electron Spin Resonance studies of Mn²⁺ activated MgGa₂O₄ 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).
11. EPR and optical absorption spectra of Cu²⁺ ions in alkali lead tetraborate glasses
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DAE Solid State Physics Symposium, 26-30 December 2002 held at Punjab University, Chandigarh (Poster Presentation)
12. Electron paramagnetic resonance and optical absorption studies on VO²⁺ ions doped in alkali lead borotellurite glasses.
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DAE Solid State Physics Symposium, 26-30 December 2001 held at Bhabha Atomic Research Centre, Mumbai (Poster Presentation)
13. Structural, optical and magnetic resonance studies on single crystals of clinocllore mineral.
N.O. Gopal, K.V. Narasimhulu and J. Lakshmana Rao
International Workshop on Preparation and Characterization of Technologically Important Single Crystals. 26-28 February 2001 held at National Physical Laboratory, New Delhi.
14. A single crystal electron paramagnetic resonance study of VO²⁺ ions doped in cobalt maleate tetrahydrate
N.O. Gopal, K.V. Narasimhulu and J. Lakshmana Rao
International Workshop on Preparation and Characterization of Technologically Important Single Crystals. 26-28 February 2001 held at National Physical Laboratory, New Delhi.

15. 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. Electron Paramagnetic Resonance, Optical and Morphological studies on VO^{2+} ions doped PVA/MAA:EA polymer blend films
Ojha Pravakar, T. Siddaiah, **N.O. Gopal**, Ch. Ramu
Andhra Pradesh Science Congress (APSC-2018) held on 9-11th November 2018, Yogivemana University, Kadapa
2. Studies on thermal, structural, morphological and optical Properties of PVA/MAA:EA polymer blend complexed with different concentrations of Potassium Chloride (KCl)
T. Siddaiah, Pravakar ojha, **N.O. Gopal**, Ch. Ramu
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K. Sreekanth, T. Siddaiah, **N.O. Gopal**, Ch. Ramu
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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
5. Structural and spectroscopic characterization of boron doped TiO_2 - CeO_2 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.
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Md. Hussain Basha, **N.O. Gopal**
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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.
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Y. Madhava Kumar, **N.O. Gopal**, Ch. Ramu
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