Name	:	Dr. V. Gopala Krishnan	
Designation	:	Professor	
Department	:	Physics	
Qualification	:	M.Sc., M. Phil., Ph. D.	
Experience	:	Teaching: 12 Years Research: 13 Years	
Area of Specialization(s)	:	Gas sensing Oxide Materials, Photovoltatic,	
Supercapacitors Mobile Number		: 81246 81010, 80564 55006	
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Degree	Branch	Institution / University Name	Year of Graduation
Ph. D.	Physics	Government Arts College, Coimbatore	2018
M. Phil.,	Physics	Sri Ramakrishna Mission Vidhyala College of Arts and Science College, Coimbatore	2010
M. Sc.,	Physics	Sri Ramakrishna Mission Vidhyala College of Arts and Science College, Coimbatore	2008
B. Sc.,	Physics	Kongunadu College of Arts and Science College, Coimbatore	2006

Research Publications (Indexed)

R. Dilip, K. Ravikumar, Kamlesh V. Chandekar, Mohd. Shkir, **V. Gopala Krishnan**, Keshav S. Shinde, and I. M. Ashraf, Enhancement of magnetic and dielectrics performance of BaFe₂O₄ nanoparticles influenced by tri-sodium citrate as surfactant, J Mater Sci: Mater Electron, 2022, doi.org/10.1007/s10854-022-09142-4. (Indexed in SCOPUS).

S. Deivanayaki, P. Jayamurugan, S. Ashokan, **V. Gopala Krishnan**, Growth of Non-enzymatic Cholesterol Biosensor using TiO₂ Decorated Graphene Oxide with Bare GCE and PPy-GCE, J. Polym. Mater. Vol. 38, No. 3-4, 2021, 297-309. (Indexed in SCOPUS).

P. Jayamurugan, S. Deivanayaki, S. Ashokan, **V. Gopala Krishnan**, N. V. S. S. Seshagiri Rao, J. Chandrasekaran & Ehab El Sayed Massoud, Impact of MnO₂ on the optical electrical and antibacterial characteristics of Graphite/Polyaniline Ternary composites, Journal of Materials

Science: Materials in Electronics, Issue 9, 2022, DOI: 10.1007/s10854-022-07902-w (Indexed in SCOPUS).

M.Raja, R.Marnadu, M.Balaji, K.Ravikumar,**V.Gopala Krishnan**, MohanrajKumar, Ehab El SayedMassoud, Fabrication and characterization of novel Ga-doped WO3 films and n-Ga@WO₃/p-Si junction diode for optoelectronic device applications, Inorganic Chemistry Communications 139 (2022) 10929, DOI: 10.1016/j.inoche.2022.109291 (Indexed in SCOPUS). B. Gokul, P. Matheswaran, M. Pandian, C. Arun Paul, K. Ravikumar, **V. Gopala Krishnan**, Mohd. Shkir, S. AlFaify, Gedi Sreedevi, "Polymorphism induced magnetic transitions in Ni(OH)₂ nanostructures", Journal of Magnetism and Magnetic Materials 539 (2021) 168364, ISSN: 0304-8853, (Indexed in SCOPUS).

V. Gopala Krishnan, P. Elango, K. Ravikumar, R. Marnadu, Omar M. Aldossarye and Mohd Ubaidullah, "Noticeable improvement in the toxic gas-sensing activity of the Zn-doped TiO₂ films for sensing devices", New J. Chem., 2021, 45, 10488, ISSN: 1144-0546 (Indexed in SCOPUS).

V. Gopala Krishnan, RavikumarN, Dilip R.P. Elango, "Gas Sensing Nature and Characterization of Zr Doped TiO₂ films Prepared by Automated Nebulizer Spray Pyrolysis Technique", Optik, Vol. 206 pp. 164347, March 2020, ISSN: 0030-4026, (Indexed in SCOPUS).

V. Gopala Krishnan, P. Elango, V. Ganesan, "Surface Characterization and Gas sensing Performance of Yttrium Doped TiO₂ nanofilms Prepared by Automated Nebulizer Spray Pyrolysis (ANSP)", Journal of Materials Science: Materials in Electronics, Vol. 29 No.4, pp. 392 – 401, January 2018, ISSN: 0957-4522, (Indexed in SCOPUS).

V. Gopala Krishnan, P. Elango, V. Ganesan, "Role of Molar Concentration in Structural, Optical and Gas Sensing Performance of Anatase Phase TiO₂ Nanofilms: Automated Nebulizer Spray Pyrolysis (ANSP) Technique", Applied Physics A, Vol.123, Issue.7, pp. 498 (1-9), July 2017, ISSN: 0947 8396, (Indexed in SCOPUS).

V. Gopala Krishnan, P. Elango, A. Purushothaman, A. Chandra Bose, "Automated Nebulizer Sprayed Tin Doped Titanium Dioxide ($Sn_XTi_{1-X}O_2$) Anatase Nanofilms Properties, Gas Sensing Performance", Materials Chemistry and Physics, Vol. 199, pp.113-121, September 2017, ISSN: 0254 0584, (Indexed in SCOPUS).

V. Gopala Krishnan, P. Elango, "Influence of Ba Doping Concentration on the Physical Properties and Gas Sensing Performance of ZnO Nanocrystalline Films: Automated Nebulizer Spray Pyrolysis (ANSP) Method", Optik, Vol. 141, pp. 83- 89, July 2017, ISSN: 0030-4026, (Indexed in SCOPUS)

V. Gopala Krishnan, A. Purushothaman, P. Elango, "Effect of Thickness on the Physical Properties and Gas Sensing Application: Anatase Titanium Dioxide Nanofilms by Automated Nebulizer Spray Pyrolysis (ANSP)", Journal of Materials Science: Materials in Electronics, Vol. 28 Issue. 15, pp. 11473 – 11481, August 2017, ISSN: 0957-4522, (Indexed in SCOPUS).

Vijayan Gopala Krishnan, Annadurai Purushothaman, and Palaniappan Elango, A Study of the Physical Properties and Gas-Sensing Performance of TiO₂ Nanofilms: Automated Nebulizer Spray Pyrolysis Method (ANSP), Physica Status Solidi A, Vol.214, Issue.10, pp. 1700020, October 2017, ISSN : 1862-6300, (Indexed in SCOPUS).

V Gopala Krishnan, P Elango, M Ragavendar, P Sathish and G Gowrisankar, "Effect of Doping on the Surface Modification of Nebulizer Sprayed $Ba_XZn_{1-X}O$ Nanocrystalline Thin Films". Materials Research Express, Vol. 4, Issue.3, pp. 036401 – 036410, March 2017, ISSN: 2053-1591, (Indexed in SCOPUS).

V. Gopala Krishnan, P. Elango, V. Ganesan, P. Sathish, "pH Deeds on Structural, Optical, Electrical and Gas Sensing Performance of TiO₂ Nanofilms by Automated Nebulizer Spray Pyrolysis Technique", Optik, Vol. 127 No.23, pp. 11102 – 11110, December 2016, ISSN: 0030-4026, (Indexed in SCOPUS).

J.Balavijayalakshmia, N.Suriyanarayanan, R.Jayaprakash, **V.Gopala Krishnan**, "Effect of concentration on dielectric properties of Co-Cu ferrite nano particles" Physics Procedia 49 (2013) 49 – 57, ISSN: 18753892, (Indexed in SCOPUS).

DC Member

- DC Member to Ms. Maheshwari.S, Ph.D. Scholar at Adhiyamann College of Engineering, Hosur, Krishnagiri. Affiliated to Anna University
- DC Member to Mr. Ramasamy.R, Ph.D. Scholar at Adhiyamann College of Engineering, Hosur, Krishnagiri. Affiliated to Anna University
- 3. DC Member to **Mr. Thirumurugan. R**, Ph.D. Scholar at Sri Eashwar Engineering College, Kinathukadavu, Coimbatore. Affiliated to Anna University

Patent Publication

 S.Balamurugan, V. Gopala Krishnan, R. Ravikumar et al., Deep Learning Approach for Brain Tumor Detection and Classification using Multistage Convolutional Neural Networks, The Patent Office Journal No. 52/2022 Dated 30/12/2022, 202241074703 A

Conference / Seminar/ Workshop organized

 Organizing Secretary, National Conference on Frontiers in Advanced Physics (NCFAP 2019), Vivekananda College of Arts & Sciences for Women, Tiruchengode, Namakkal, 07 & 08 February -19

2. Organizing Member, First National Conference on Recent Trends in Basic andApplied Sciences (March 2-3, 2020), Dr. N.G.P. Arts and Science College, Coimbatore.

3. Convener, Smart NextGen Nanomaterials for sustainable Development of Energy asnd Environment-An Interdisciplinary Approah (ICSSE-2024), Dr. N.G.P. Arts and Science College, Coimbatore.

4. Convener, 5 Day virtual National Faculty Development Programme (03-02-2025 to 07-02-2025), Dr. N.G.P. Arts and Science College, Coimbatore.

Invited Speaker / Session Chair- Conference / Seminar / Workshop

1. Resource Person, Student Intership Programme, Dr. N.G.P. Arts and Science College, Coimbatore, 25th June 2019

Session Chair, National Conference on Recent Trends in Basic and Applied Sciences, Dr.
N.G.P. Arts and Science College, Coimbatore, 2 & 3rd March 2020

 Resource Person , Student institution innovation council Programme, Elango Matriculation Higher Secondary School, Erode, 1st August 2024

 Resource Person in the seminar entitled "Thin Films Fabrication and Applications" on 24.12.2024 @ Department of Physics, Adhiyamann College of Engineering, Hosur, Krishnagiri. Affiliated to Anna University

Participated - Conference / Seminar / Workshop

1. Participated in the national seminar on "Novel Materials for Sustainable energy development and Radiation Measurements" Organized by Medical Physics, Dr. N. G.P. Arts and Science College, Coimbatore.

2. Participated in the FDP entitled "Physics in Engineering and Technology" on 12.02.2024 to 16.02.2024, Department of Physics, PSG Institute of Technology and Apllied Research, Coimbatore

3. Participated the National Seminar on National Credit Framework: Credit Transfer Policy, on 10 th , February, 2023. Organized by the Institution of Eminence and Human Resource Development Centre, University of Hyderabad.

4. Participated the International Seminar on Advanced Materials for Sustainable development and Energy applications on 17th February 2023. Organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai.

5. Participated the One day National workshop on "Beneficial Applications of Radiation Technology and Indian Nuclear Energy Programme" on Auguest 31, 2023, organized by Department of Medical Physics in association with KMCH Institute of Allied Health Science, Coimbatore.

6. Participated in the FDP on "Empowering Education for Innovation – A NEP Perspective" during 30 th June – 04 th July 2023, Organized by Centre for professional Development, Dr. N. G.P. Arts and Science College, Coimbatore.

7. Participated in the One Week Faculty Development Programme on Spectra of Physics II, from 26 th Sep to 1 st Oct 2022. Organized by Department of Physics, PSGR Krishnammal College for Women, Coimbatore.

8. Participated in the AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Novel Materials: Advances and Application" from 24/09/2021 to 28/09/2021 at National Institute of Technology Raipur.

9. Participated the Two day International virtual workshop on astrophotography, on 24-25, September, 2021, Organized by PG & amp; Research Department of Physics, The New College (Autonomous), Chennai.

Member in BoS

- 1. Physics, Dr. N.G.P. Arts and Science College, Coimbatore, 2019 2022
- 2. Medical Physics, Dr. N.G.P. Arts and Science College, Coimbatore, 2019 2022
- 3. Sunject Expert, Hindusthan Arts and Science College, Coimbatore, 2024-2026

Membership in Professional Bodies

Name of the Professional Body	Nature of	Duration	
	membership		
Indian Association for Crystal Growth (IACG)	Life Member	Life Time	
All India Council For Technical Skill Development	Life Member	Life Time	
Indian Association of Physics Teachers	Annual Member	2024-2025	

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award	
Best Teacher	Dr. N.G.P. Arts and Science	2020	
	College, Coimbatore		