

## Profile of G. Nagarjuna

1. Name: : **Dr. Gunnam Nagarjuna**  
2. Fathers Name : G. Gopala Krishna  
3. Nationality : Indian  
4. Gender : Male  
5. DOB/ Age : 20-08-1969/ 54 Years  
6. Marital Status : Married  
7. Category : OBC  
8. Present designation and : Lecturer  
Details of institutions Department of Chemistry,  
Govt. Degree College,  
AVANIGADDA - 521121,  
Krishna Dist., A.P.



9. Communication Address :  
Office : Lecturer,  
Department of Chemistry,  
Avanigadda Govt. Degree College,  
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- Residence : Dr. G. Nagarjuna,  
D.No.: 8-140, Sai Sankara Recidency, Ramalayam Street,  
Prasadampadu, VIJAYAWADA – 521 108,  
NTR Dist., A.P.

10. Mobile : +91-9440444223  
12. E-Mail : [gngjcn@gmail.com](mailto:gngjcn@gmail.com)

### 13. Educational Qualifications:

S. No	DEGREE / DIPLOMA	UNIVERSITY / INSTITUTE	YEAR	TOPIC / SPECIALIZATION
1.	B. Sc	Nagarjuna Univ.	1989	Chemistry main
2.	B. Ed	Nagarjuna Univ.	1991	Maths, Physical Sciences
3.	M. Sc	Andhra Univ.	1993	Physical Chemistry
4.	M. Ed	Bharathidasan Univ.	1998	Educational Counselling
5.	M.Phil.	Acharya Nagarjuna Univ., Guntur, A.P.	2006	Solid State Chemistry/Materials Science (Glass ceramics)
6.	Ph.D.	Acharya Nagarjuna Univ., Guntur, A.P.	2010	Solid State Chemistry/Materials Science (Glass ceramics)

**14. Teaching / Work Experience:**

S. No	Designation	Date		Total years and months	Type of service
		From	To		
1.	SGT & SA	June 1995	Mar 2001	5 Years	ZP/Govt.
1.	Junior Lecturer	March 2001	Nov 2010	9 years	Govt.
2.	Lecturer	Nov 2010	Till date	12 years	Govt.

15. Total years of service : 28 years app.

16. Present Designation : Lecturer

17. Research Experience : 18 years

A. Details of Research Publications : 24 ( Total no. of Publications)

List of Publications enclosed seperately

B. Research Guidance : Recognized as Research Supervisor by JNTU, Kakinada and Krishna University, Machiipatnam and acting as guide for 2 candidates for Ph D

C. Seminars Attended : International - 06  
National - 45

D. Research Interests : Materials Chemistry (Glass-Ceramics, Nanoparticles),  
Environmental Chemistry

**E. UGC Sponsored Research Projects Completed as Project Principal Investigator**

Title of the Minor Research Project	Funding Agency	Total Out lay (in lakhs)	Period
Synthesis of Magnesium Doped Calcium Phosphate Glasses with Controllable Degradability	UGC	2.75	2015-17

**F. Seminars Organized**

Organized UGC Sponsored 2-day National Seminar “Recent Trends in Chemistry and Physics of Materials (RTCPM-2017)” during Sept 15-17, 2017 in SRR & CVR GDC (A), Vijayawada.

## G. Membership in Prestigious Scientific / Professional Bodies

Life Member of the  
INDIAN ASSOCIATION OF THE NUCLEAR CHEMISTS AND  
ALLIED SCIENTISTS, LM 1619

### List of Publications by Dr G. Nagarjuna

1. *The structural role of chromium ions on the improvement of insulating character of ZnO-ZnF<sub>2</sub>-B<sub>2</sub>O<sub>3</sub> glass system by means of dielectric, spectroscopic and magnetic properties*  
G. Naga Raju, **G. Nagarjuna**, P.V.V. Satyanarayana, N. Veeraiah,  
**Physica B : Condensed Matter Physics (ELSEVIER)** 373 (2006) 297
2. *Structural influence of aluminum, gallium and indium metal oxides by means of dielectric and spectroscopic properties of CaO-Sb<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub> glass system.* a  
M. Srinivasa Reddy, G. Nagaraju, **G. Nagarjuna**, N. Veeraiah  
**Journal of Alloys and Compounds (ELSEVIER)** 438 (2007) 41
3. *Fe<sub>2</sub>O<sub>3</sub> – induced crystallization and the physical properties of lead arsenate glass system*  
**G. Nagarjuna**, N. Venkataramaiah, P.V.V. Satyanarayana, N. Veeraiah,  
**Journal of Alloys and Compounds (ELSEVIER)** 468 (2009) 466-472
4. Spectroscopic investigations on PbO-As<sub>2</sub>O<sub>3</sub> glasses crystallized with TiO<sub>2</sub>  
**G. Nagarjuna**, T. Satyanarayana, V. Ravi Kumar, N. Venkataramaiah,  
P.V.V. Satyanarayana, N. Veeraiah,  
**Philosophical Magazine (Taylor & Francis)** 89(2009) 2255-2270
5. *Cobalt ion as structural probe in Pb<sub>2</sub>O<sub>3</sub>-As<sub>2</sub>O<sub>3</sub> glass ceramics*  
**G. Nagarjuna**, T. Satyanarayana, Y. Gandhi, P.V.V. Satyanarayana, N. Veeraiah  
**Solid State Communications (ELSEVIER)** 130 (2010) 9-13
6. *Spectroscopic features of manganese doped tellurite glass ceramics.*  
T. Satyanarayana, M.A. Valente, **G. Nagarjuna**, N. Veeraiah  
**Journal of Physics and Chemistry of Solids (ELSEVIER)**, 71 (2013) 229-235
7. *Synthesis, Characterization and Spectroscopic Properties of ZnO Nanoparticles,*  
Satyanarayana Talam, Srinivasa Rao Karumuri, **Nagarjuna Gunnam**,  
**ISRN Nanotechnology( HINDAWI )**, Volume 2012, Article ID 372505, 6 pages
8. *Spectral features of lead arsenate glasses doped with copper oxide*  
T. Satyanarayana, **G. Nagarjuna**, K. Ravikiran  
**Solid State Phenomena Vol. 207 (2014) pp 55-67**  
© (2014) **Trans Tech Publications, Switzerland**  
*doi:10.4028/www.scientific.net/SSP.207.55*
9. *Dielectric studies on alkali borate glasses mixed with iron oxide*  
T. Satyanarayana, K. Srinivasa Rao, N.T.V. Naga Lakshmi, **G. Nagarjuna**  
**Solid State Phenomena Vol. 207 (2014) pp 69-96**

10. *Structural features of Copper doped heavy metal oxide based glasses*  
T. Satyanarayana, K. Srinivasa Rao, G. Srinivas, **G. Nagarjuna**  
**International Journal of Current Engg. and Tech.**, INPRESSCO  
<http://inpressco.com/category/ijcet> Special issue-2 ( Feb 2014 )
11. *Investigation on Luminescence of  $P_2O_5$ -CaO-Na<sub>2</sub>O-K<sub>2</sub>O:Tm<sub>2</sub>O<sub>3</sub> glasses*  
T. Satyanarayana, P. Krishna Kanth, **G. Nagarjuna**, B. Nagamani and N. Srinivasa Rao  
**International Journal of Science and Research (IJSR)**  
ISSN ( Online ) : 2319-7064, [www.ijsr.net](http://www.ijsr.net)
12. *Synthesis & Characterization of SrO doped Calcium Phosphate Bioactive Glasses*  
**Proceedings of International Conference on Science and Engineering of Materials for Future Needs, ICSEMF-2015, 21-22 Dec 2015**  
T. Satyanarayana, B. Nagamani, G. Nagarjuna, G. Srinivasa Rao  
ISBN 978-1-329-77555-8 (e-book) P. No. 130-135.
13. *Thermodynamic and Gas Sensing Properties of Cu<sup>2+</sup> Doped SnO<sub>2</sub> Thin Films*  
M.C. Rao, K. Ravindranadh, T. Srikumar, G.V. Ramana and **G. Nagarjuna**  
**International Journal of Chemical Concepts** ISSN:2395-4256 [www.chemconsai.com](http://www.chemconsai.com)  
Vol.01, No.03, pp 114-119, 2015
14. *Structural investigations on  $P_2O_5$ -CaO-Na<sub>2</sub>O-K<sub>2</sub>O: SrO bioactive glass ceramics*  
T. Satyanarayana, M. Vasu Babu, V. Rama Koti Reddy, **G. Nagarjuna**,  
P. Venkateswara Rao and P. Syam Prasad  
**Ceramics International-ELSEVIER**, 43 (2017) 10144-10150  
<https://doi.org/10.1016/j.ceramint.2017.05.037>
15. *Structural and luminescent properties of Fe<sup>3+</sup> doped tin oxide thin films by spray pyrolysis*  
M.C. Rao, K. Ravindranadh, T. Satyanarayana, **G. Nagarjuna**, R.K.N.R. Manepalli  
**Optoelectronics and Advanced Materials – Rapid Communications,**  
**(SCI-Expanded)** 11(3-4) (2017) 242-245.
16. *Structural investigations on  $P_2O_5$ -CaO-Na<sub>2</sub>O-K<sub>2</sub>O: SrO bioactive glass ceramics*  
T. Satyanarayana, M. Vasu Babu, **G. Nagarjuna**, D.V. Rama Koti Reddy, P. Venkateswara  
Rao, P. Syam Prasad, **Ceramics International**  
**Volume 43, Issue 13**, September 2017, Pages 10144-10150  
<https://doi.org/10.1016/j.ceramint.2017.05.037>
17. *Structural And Luminescent Properties Of Fe<sup>3+</sup> Doped Tin Oxide Thin Films By Spray Pyrolysis*  
M. C. Rao, K. Ravindranadh, T. Satyanarayana, **G. Nagarjuna**, R. K. N. R. Manepalli  
**OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS** Vol. 11, No. 3-4, March-April 2017, p. 242 - 245
18. *Preparation and structural characterization of  $P_2O_5$ -CaO-Na<sub>2</sub>O: CuO glasses*  
Satyanarayana Talam, Rambabu Busi, **Nagarjuna Gunnam**, P. Syam Prasad,  
Venkateswara Rao Penugonda  
**JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS**  
Vol. 21, No. 7-8, July – August 2019, p. 530 - 535
19. *Optical, electrical and photoluminescence studies on Al<sub>2</sub>O<sub>3</sub> doped PVA capped ZnO nanoparticles for optoelectronic device application*  
Ravindranadh Koutavarapu, R.K.N.R. Manepalli, B.T.P. Madhav,

T. Satyanarayana, **G. Nagarjuna**, Jaesool Shim, M.C. Rao

**Optik - International Journal for Light and Electron Optics 205 (2020) 164236**

<https://doi.org/10.1016/j.ijleo.2020.164236>

20. *Dielectric investigations on metal (Ni and Cu) tetrahydroxy phenyl porphyrins in PMMA polymer matrix*  
P. Prasanth, Satyanarayana Talam, **Gunnam Nagarjuna**, Rambabu Busi, M.C. Rao, Venkatramaiah Nutalapati  
**Materials Today: Proceedings**, <https://doi.org/10.1016/j.matpr.2021.10.027>
21. *Synthesis and Spectral Characteristics of CoO mixed ZnO-Bi<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub> Glasses*  
Bejjipurapu Chandrasekhar, **Gunnam Nagarjuna**, Sopinti Ramesh, B.V. Raghavaiah  
**SAMRIDDHI** Vol.14, Issue 1, 2022; Print ISSN: 2229-7111 Online ISSN: 2454-5767
22. *Preparation and Dielectric Investigations of TiO<sub>2</sub> mixed ZnO-TeO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub> Glasses*  
Sopinti Ramesh, **Gunnam Nagarjuna**, Bejjipurapu Chandrasekhar, B.V. Raghavaiah  
**SAMRIDDHI** Vol.14, Issue 4, 2022 Print ISSN: 2229-7111 Online ISSN: 2454-5767
23. *Spectroscopic characterization of P<sub>2</sub>O<sub>5</sub>-CaO-B<sub>2</sub>O<sub>3</sub>: CuO glasses*  
Kaviti Venkatarao, **Gunnam Nagarjuna**, R. Rambabu  
**Journal of optoelectronics and advanced materials**.  
Vol. 24, No. 9-10, Sep – Oct 2022, p. 494 - 498
24. *Optical Absorption and Emission Spectral Properties of ZnO-Bi<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub>:TiO<sub>2</sub> Glasses*  
Bejjipurapu Chandrasekhar, **Gunnam Nagarjuna**, Sopinti Ramesh Darsi Rajeswara Rao, B.V. Raghavaiah  
**Bulgarian Journal of Physics** vol. XX (20XX) 1–7

#### Other Academic Activities

- Acted as (Chemistry) **Paper Setter** for Adikavi Nannayya University, Rajahmundry; P.R. Govt. College, Kakinada; D.N.R. College, Bhimavaram; V.S. Krishna College, Visakhapatnam., GDC (W), Guntur and Govt, College (A), Rajamahendravaram.
- Nominated as Adikavi Nannayya University representative for the **Board of Studies Member** of K.G.R.L. College (A), Bhimavaram and Sir C.R. Reddy College, Eluru. (2010-12, 2012-14)
- Empaneled as Instructor to IGNOU & BRAOU.
- Acted as BoS Member in Chemistry to ASNM Govt. Degree College, Palakollu, W.G. Dist. (2015-17)
- Acting as BoS Member in Chemistry to Maris Stella College, Vijayawada.

