

RESUME OF KRISHNA JYOTHI NADELLA

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Educational Qualifications:

Sl. No.	Qualification	Name of Board / University	Institution	Year of Passing	Class and % of Marks	Grade	Specialization
a)	Ph.D. (Physics)	Acharya Nagarjuna University	Acharya Nagarjuna University	2017			Solid State Ionics
b)	M. Phil. (Physics)	Acharya Nagarjuna University	Acharya Nagarjuna University	2006	75 %	1 st Class	Radiation Physics
c)	M.Sc. (Physics)	Acharya Nagarjuna University	Acharya Nagarjuna University	2003	70 %	1 st Class	Condensed Matter Physics
d)	B.Sc.	Acharya Nagarjuna University	M.V.G.R.R. Degree College	2001	85 %	1 st Class	B.Sc (MPC)
e)	Intermediate (10+2)	Intermediate Board of A.P	KSR Girls Jr. College	1998	82.5 %	1 st Class	MPC
f)	10 th	Board of Secondary School Education	T M Rao High School	1996	70%	1 st class	English, Telugu, Hindi, Maths, Science and social

Academic/ Research Experience:

Details	Name of the Organization	Duration		Designation	Total Experience
		From	To		
a) Teaching	1. K L University, Guntur, India	2008	2012	Assistant Professor	5
		01-01-2016	Till date	Assistant Professor	1
	2. Nalanda Degree & PG College, Vijayawada	2006	2007	Lecturer	1
	3. ASN Degree & PG College, Tenali	2003	2006	Lecturer	3
b) R & D	1. Acharya Nagarjuna University Campus	2007	2008	Research Associate	1
	2. K L University	01-01-2013	31-12-2015	Woman Scientist	3
Total					14

Professional Research Areas: Nano Composite Materials for Energy storage device applications - Solid state Ionics- Fabrication of Electrochemical cells.

Research Projects being pursued / carried out: The project entitled “Development and characterization of Nano Structured conducting polymer Electrolyte system for Electro chemical cell applications” (F.No.SR/WOS-A/PS-52/2011), sanctioned 23.8 Lakhs by DST, New Delhi, during 2012-2015.

Research Expertise:

- Expertise in preparing Conducting Polymer Nano Composites and Solid/gel polymer electrolytes.
- Expertise in analyzing of Solid polymer electrolytes by FTIR, XRD, DSC, SEM, Conductivity measurements – both DC and AC and transport properties.
- Expertise in analyzing dielectric properties of solid polymer electrolytes.
- Expertise in finding Electrical and Discharge Properties of Electrochemical cells prepared with solid polymer electrolytes and good exposure in Fabrication of Electrochemical cells.

Workshops/ National Conferences Organized:

1. Coordinator –National workshop on “Nano Science and Technology for Device Applications (NSTDA – 2011)” – 31st Oct-2011, conducted at K L University, Guntur.

2. Coordinator –Two day national conference on National conference on “Recent trends in Nano Science and Technology for Device Applications (RNTDA-2012)” 4-5th, April 2013, conducted at K L University, Guntur.
3. Coordinator- Two day national conference on “Emerging trends of Advanced Functional Materials (NCAFM-2015)” 3-4th, September 2015, conducted at K L University, Guntur.

Membership of Professional bodies/societies:

- ✓ Life Member in Indian Science Congress Association (ISCA)

Courses Taught:

Sl. No.	Courses	Class
1.	Methods of Mathematical Physics & Quantum Mechanics	M.Sc. (1 st year)
2.	Atomic and Molecular Spectroscopy & Resonance Spectroscopy	M.Sc. (2 nd year)
3.	Engineering Physics, Applied Physics & Engineering Materials	B.Tech. (1 st year)

Sponsored Research Projects/ Consultancy Projects:

Number	Duration	Funding Agency	Project/Consultancy Amount	Details
01	2012-2015	DST, New Delhi	WOS-A/Rs. 23,80,646/-	Completed

Publications in journals:

1. “Electrical Studies of Gel Polymer Electrolyte based on PAN for Electrochemical Cell Applications” *Materials Today: Proceedings* 3, Elsevier (2016) 21 – 30.
2. “Preparation and characterization of PAN-KI complexed gel polymer electrolytes for solid state battery applications”, *Bulletin of Material Science*, 39(4) (2016) 1047-1055. (**Impact factor: 0.87**)
3. “Ionic Conductivity and Battery Characteristic studies of a new PAN based Na⁺ ion Conducting Gel Polymer Electrolyte system”, *Indian Journal of Physics*, 90(3) (2016) 289-296. (**Impact factor: 1.377**).
4. “Structural, thermal and battery characteristic properties of NH₄CF₃SO₄ doped pan films for electrochemical cell applications” *International Journal of ChemTech Research*, 9 (2016) 432-438.
5. Ion transport and spectroscopic studies of Polyacrylonitrile complexed with Ammonium trifluoro methane sulfonate (NH₄CF₃SO₄) gel polymer electrolyte system, *International Journal of Chemical Sciences*, 14(2) 2016 789-802.

6. “FTIR, XRD and DC conductivity studies of proton conducting gel polymer electrolytes based on polyacrylonitrile (PAN)”, *International Journal of ChemTech Research*, 6 (2014) 5214-5219. **(Impact Factor: 0.57)**.
7. “Influence of Plasticizer on a PEO based K^+ ion conducting polymer electrolyte system for Battery applications”, *International Journal of ChemTech Research*, 6 (2014) 5178-5186. **(Impact Factor: 0.57)**.
8. “Structural and A.C. Conductivity Studies of (PVdF + $NaClO_4$) Solid Polymer Electrolyte System for an Electrochemical Cell Application”, *Asian Journal of Chemistry*, 25 (2013) S459-S463. **(Impact factor: 0.25)**.
9. “Effect of TiO_2 Ceramic Filler on PEG-Based Composite Polymer Electrolytes for Magnesium Batteries”, *American Institute of Physics*, 1512 (2013) 996-997. **(Impact factor: 0.16)**.

List of Papers Presented in International/ National Conferences/ Seminars:

1. The abstract entitled “Effect of Al_2O_3 ceramic filler on PAN based composite gel polymer electrolytes for solid state battery applications” has been presented in international conference “104th Indian Science Congress” from 3-7th Jan 2017, organized by S.V. University, Tirupathi.
2. The abstract entitled “Structural and Electrical studies of a new nanocomposite polymer electrolyte based on PAN:NaI:ZrO₂” has been presented as a oral presentation in “International conference on Nanoscience, Nanotechnology and Advanced functional materials (NANOS-2015)” from 14-17th Dec 2015, organized by Dept. of chemistry, GITAM Institute of Science, Visakhapatnam.
3. The abstract entitled “Electrical studies of gel polymer electrolyte based on PAN for electrochemical cell applications” has been presented in “National conference on Emerging Trends of Advanced Functional Materials (NCAFM-2015)” from 3-4th Sep 2015, organized by Dept. of Physics, K L University, Guntur.
4. The abstract entitled “Transport and Conductivity Studies of Polymer Electrolyte based on Poly acrylonitrile – Ammonium Iodide” has been presented as a poster in Frontiers in Nanoscience, Technology and Applications (FiNSTA’14) from 20-22nd Dec 2014, Organized by Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, AP, India.
5. The abstract entitled “Structural and Electrical studies of Sodium iodide doped poly acrylonitrile polymer electrolyte films for electrochemical cell applications” has been presented as poster in

International conference on Advances in New materials (ICAN 2014) from 20th - 21st June 2014, held at Dept. of Inorganic chemistry, University of Madras.

6. The paper entitled “Structural and A.C. Conductivity Studies of Lithium Ion Conducting PAN based Polymer Electrolyte System” has been presented as poster at IUMRS ICA- 2013 from 16-20th Dec, 2016 held at IISC, Bangalore.
7. The short term training program entitled “Colloids and Interfaces with Polymers and Surfactants” has been trained from 3-7th March 2014 held at Dept. of chemical engineering, IIT Madras.
8. International conference on “Nanomaterials: Science, Technology and Applications (ICNM’13)” held on 5-7th December, 2013 at B. S. Abdur Rahman University, Chennai, India.
9. The paper entitled on “Structural & AC Conductivity studies of (PVdF+NaClO₄) solid electrolyte system for an Electrochemical cell Applications” has been presented in International conference on “Nano Science and Nano Technology (ICONN 2013)” held on 18-20th March 2013 at SRM University, Kattankulathur, Chennai, India.
10. International conference on “57th DAE Solid State Physics Symposium” held on 3-7th December, 2012, at Indian Institute of Technology- Bombay, Mumbai.
11. The abstract entitled “Electrical Studies of Gel Polymer Electrolyte based on PAN for Electrochemical Cell Applications” has been presented as oral in National conference on “Emerging Trends of Advanced Functional Materials (NCAFM-2015)” from 3-4th Sep 2015, organized by dept. of Physics, K L University, Guntur, A.P.
12. The abstract entitled “FTIR, XRD and DC conductivity studies of proton conducting gel polymer electrolytes based on polyacrylonitrile (PAN)” has been presented as oral in National conference on Materials for Energy Storage and Conversion (MESCon-2014) from 4-5th Sep 2014, organized by the Centre for Scientific and Applied Research (C-SAR), PSN college of Engineering and Technology, Tirunelveli, Tamilnadu.
13. The Abstract entitled “Electrical and Transport studies of PAN based gel polymer electrolytes” has been presented in one day national conference on Nanoscience & Nanotechnology (NCNN-2014) on 21st Feb. 2014 at Mahatma Gandhi University, Nalgonda.
14. A National Seminar on “Futuristic Trends of Nanocomposites and their Fabrication” (Sponsored by Department of Science & Technology, Govt. of India, New Delhi) held on 6-7th Sep., 2013 at R.V.R. & J.C. College of Engineering (Autonomous), Chowdavaram, Guntur, A.P.

15. The abstract entitled “ AC Impedance studies of Poly (Vinylidene fluoride) based solid polymer electrolytes” has been selected for best poster award in National conference on “Recent trends in Nano Science and Technology for Device Applications (RNTDA-2013)” Sponsored by SERB, Department of Science & Technology (DST), New Delhi, held on 4-5th April 2013 at K L University Vijayawada, A.P, India.
16. A national workshop on “Recent trends in Device materials (RTDM-2013)” organized by the Department of Physics under TEQIP-II, held on 8-10th November 2013 at NIT Warangal, Warangal, A.P, India.
17. A national workshop on “Alternative energies – A thrust on solar thermal & photo voltaic” held on 28th December 2012 at the K L University, Vaddeswaram, A.P.

REFERENCES

Sl. No.	Name & Designation	Contact Number	Mail ID
1	Dr. K. Vijaya Kumar Prof. & HOD, Department of Physics Dayananda Sagar Academy of Technology and Management, Bangalore – 560 082.	09000597487	drvijayakambila@gmail.com phyhoddsatm@gmail.com
2	Dr. T. Subbaiah Adviser R &D, (Former Chief Scientist, CSIR-IMMT & Professor AcSIR) K L University Andhra Pradesh- 522 502	8179879729	tsubbaiah@yahoo.com
3	Dr. V.N. Mani Scientist-F, Centre for Materials for Electronics Technology (GOI), Cherlapalli, Hyderabad-500 051.	7382489862	vnm_crystal272001@yahoo.com

(Dr. N KRISHNA JYOTHI)