

PROFILE

Name : C.S.Ananda Kumar, M. Sc., M. Phil.,
Designation : Lecturer in Physics
Date of Birth : 02-04-1965
Date of Appointment : 16-08-1990
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Educational Qualifications:

1. M. Sc (Physics) - Andhra University, Visakhapatnam
2. M. Phil., - Andhra University, Visakhapatnam - 1992

“POTENCIAL ENERGY CURVES OF BeO & CaO

And

Electronic Transition Moment in B-X system of SrF

Teaching Experience:

- Working as Lecturer in physics since 16th August, 1990 in S.V.K.P & Dr.K.S. Raju Arts & Science College, Penugonda.

No.of.Research Publications : 14

No.of Chapters Published : 15

No.of Workshops/Conferences attended : 14

No.of. Paper presented at the Seminar/Conferences : 03

No.of.FDP/Training programmes : 06

Orientation/Refresher courses attended : 04

Research Publications :

- “Spectroscopic properties of Borate Glasses Doped with a transition Metal ion – in GIS SCIENCES JOURNAL (An UGC – CARE Approved Group – II Journal, November 2023 ISSN Number : 1869-9391.
- “A Review on applications of smart materials in International Journal of Novel Research and Development(IJNRD)(An International open access, peer-reviewed , Referred Rournal December 2023, (ISSN: 2456-4184)

Chapter Published :

Chapter – 38 “ Research on Environmental Education in Research Methodology in Environmental Sciences”.(ISBN No : 978-93-90028-80-1)Published by YVNR Government Degree College, Kaikaluru, Feb-2024, Page No 200 -207

Papers Presented :

- “Perspectives of Developed and Developing Countries on Climate Change“. Paper presented at Three - day Multidisciplinary International Conference on “Influence of India on Global Diplomacy. An appraisal of its role in International relations since 1947. (ICIIGD – 2024) Maris Stella college, Vijayawada on 26,27 and 28th March 2024.
- Paper published in Two- day National Seminar on “An impact of developmental programmes for social transformations of schedule caste and schedule tribes on 29th,30th November 2019 at KBN College (A), Vijayawada.“ Implementation of the POA Act in Uttar Pradesh as Socio- political development method”.

Workshops Attended:

- Attended One-Day Workshop on “NIRF” Ranking – 2024 at organized by A.P.State Council of Higher Education, at Adikavi Nannaya University, Rajamahendravaram on 1st December 2023.
- Attended National Work shop on” Past, Present and Future Research in Luminescence and its varied applications”. Conducted by SVRK Government Degree College, Nidadavolu on 6th January 2022.
- One-Day National Workshop on “ English in Real Life situation” conducted by Hindu College , Guntur on 30th March 2022.
- Attended online workshop on “ Technological Tools and Platforms for effective Online Teaching, Learning and Evaluation” organized by ACTA, AP on 22nd June 2021.
- One-Day work shop on NIRF ranking organized by A.P.State Council of Higher Education at Acharya Nagarjuna University, Guntur on 17th Octoaber 2019.
- One-Day National Workshop on “OUTCOME BASED EDUCATION – POSSIBILITIES AND CHALLENGES “ at ANR College, Gudiwada on 22nd November, 2019.

- One-Day National Workshop on “ Sustainable Environment – Contemporary Issues and Challenges “ by DRG Government Degree College, Tadepalligudem on 16th September 2019.
- One-Day National workshop on “ Emerging Trends in Renewable organized Energy Resources “ organized by Sri Y.N.College (A), Narasapuram on 3rd August 2019.
- One-Day National Workshop on “ Gandhian Vision – Different Facets” conducted by D.R.G.Government Degree College, Tadepalligudem on 6th October 2018.
- Two-Day Workshop on “ Fluid Mechanics “ conducted by KBN College , Vijayawada on 4th and 5th October 2018.
- One-Day Workshop on “ Common elective Papers and Cluster Papers of Sixth Semester by DRC, SCIM Government Degree College, Tanuku on 8th December 2017.
- One-Day Workshop on “ Light Emitting Devices and Materials”(LEDM-2015) by Government College (A),Rajamundry on 20th November 2015.
- Two-Day Workshop on “ Choice Based Credit Systems “ (CBCS) by DNR Government Degree College for Women, Palakollu on 3rd and 4th of September 2015.
- One-Day Workshop on “ Institutional Quality Parameters – IQAC” by DRC, West Godavari, A.P on 19th September 2014.

FDP/Training Programmes :

- Five-Day National Webinar on “Pathways to Discovery and Innovation : Nurturing Researchers for Tomorrow” from 25-04-2024 to 30-04-2024 organized by P.R. Government College (A) Kakinada.
- Five-Day Online FDP on “ Physical Education and Sports Sciences” organized by KVR,KVR&MKR College-Khajipalem, Bapatla from 21-08-2023 to 25-08-2023.

- Five-Day Inter Disiplinary online FDP on “Institutional Initiatives for Effective assessment and Accreditation in the context of NEP-2020” from 07-08-2023 to 11-08-2023 by SS& N College ,Narasaropeta, in collaboration with AP-CCE.
- Six-Day UGC Sponsored “Orientation and Teacher Retraining Programme “ organized by SVKP & Dr.K.S.Raju Arts & Science College, (A), Penugonda from 09-03-2020 to 14-03-2020.
- Seven-Day Teacher Training Programme on “ Usage of ICT in Teaching Learning Process” by MVNRS&RVR College of Arts & Science, Malikipuram from 2-12-2019 to 9-12-2019.
- UGC sponsored Six-Day “Teacher Orientation and Retraining Programme” by IQAC and SKSD Mahila Kalasala, Tanuku from 25-07-2016 to 01-08-2016.

Orientation/Refresher Courses Attended:

- Attended Refreshed Course in Physics at Academic Staff College, Andhra University, Visakhapatnam from 13-05-2008 to 02-06-2008.
- Attended Orientation Course at Academic Staff College , Andhra University, Visakhapatnam from 17-05-2007 to 13-06-2007.
- Attended Refreshed Course in Physics and Computer Maintenance at Government College (A), Rajamundry from 10-06-2002 to 30-06-2002.
- Attended Refresher course on Electronics at Academic Staff College, Andhra University, Visakhapatnam from 01-06-1998 to 26-06-1998.

PUBLICATIONS OF
C.S.ANANDA KUMAR,M.Sc., M.Phil.,
FACULTY OF PHYSICS

ISSN JOURNAL NO.OF ARTICLES 14
ISBN BOOK CHAPTERS 15

S.N O	Type International /National/ State	Title of the publication/Book chapter	Journal/Book chapter	Publication History ISSN/ISBN
01	International	Spectroscopic Properties of Borate Glasses Doped with a Transition Metal Ion	GIS Science Journal http://www.gisscience.net?VOULME10-ISSUE-11-2023/ Doi:20.18001.gsj2022,v10111.23411 665 UGC Cre List Group 2- Scopus Active Journal -2	ISSN No : 1869-9391 Vol.10.Issue 11 November 2023 P.Nos 35-41
02	International	A review on Applications of Smart Materials	International Journal of Novel Research and Development (www.ijnrd.org) IJNRD2312055	ISSN No : 2456-4184 Vol 8 Issue11 Impact Factor : 8.76 November 2023 Page Nos::a418-a424
03	National	Research on Environmental Education (chapter 32)	International Webinar on “ Research Methodology in Evironment Sciences” YVNR Gdc, Kaikaluru	ISBN 973-93-90028-80-1 Feb 2024 P.Nos 200-207 Roshan Publiishers – Visakhapatnam and published by YVNR GdC, Kaikalur
04	International	Basic understanding of Mixed-Method Research International Institute of Organised Research (I2OR), India2021, No.3179, Sector 52, Chandigarh(160036) India.	International Conference Proceedings on “ Pathways to Discovery and Innovation: Nurturing Researchers for Tomorrow”	ISBN No : 978-321-967563-1-4 April 2024, P.No 64-68 Chapter No : 26
05	International	A glimpse into the present status of Energy Storage Systems (ESS) through real-wrld instances	International Journal of Novel Reserch and Development . Open-access, peer-reviewed journal	ISSN : No : 2456-4184 IJNRD,ORG 2024 IJNRD Vol No.9. Issue No : 9 Impact Factor : 8.76 P Nos d745-d749 September 2025.
06.	International	Importance, Historical Overview & significance of Energy Storage Systems (ESS)	International Jounral of Reserch and anylitical reviews(IJRAR) UGC Approved Jounal No :43602	E-ISSN 2348-1269 P-ISSN 2349-5138 Volume 11, Issue 4 Impact Factor :7.15 Page No: 552-556 October 2024

S.N O	Type International /National/ State	Title of the publication/Book chapter	Journal/Book chapter	Publication History ISSN/ISBN
07	National	Sustainable Green Horizon Practices for a Better Tomorrow	Springer Nature	ISSN :2468-5747 ISBN 978-94-6463-648-2 P.No 68 November 2024.
08	International	A Comprehensive Review of Nanoparticle Characterization Techniques	International Journal of Research; Website www.ijrjournal.com Peer Reviewed Journal	P-ISSN 2454-2237 E-ISSN : 2349-9788Volume 12; Issue : 1 P.No.194-200 January 2025
09	International	The Promise of Nanotechnology in the future	International Journal of Creative Research Thoughts (IJCRT) www.ijcrt.org ,Peer Reviewed Open Access Journal	ISSN- 2320-2882 2025 IJCRT Volume 13 Issue 1, P.No.a692-a696 January 2025
10	International	India's Traditional Knowledge Framework	Bohal Shodh Manjusha Google Scholar	ISSN : 2395-7115 Impact Factor : 8.642 Page Nos 218 to 225 April 2025
11	International	Nano-wonders: Frontiers of Nanotechnology	DAT-SERB/ANRF Sponsored International Conference on Biobased Environment for SustainableTerritory _ ICBEST- 24) 7 th -8 th Nov Department of Chemistry e-mail: chemistrydepartment@gcrjy.ac.in	ISBN: 978-93-341-3965-5 P.No. 99-100 November, 2024
12	International	Crafting a Research Frame Work	(International Webinar on Research Methodology in Material Science- YV.NR.Government Degree College, Kaikaluru) Published by YVNR Govt.Degree College, Kakilaru, in association with ROSHAN Publications, Visakhapatnam	ISBN: 978-93-90028-56-6 Chapter :8 P.No.28-32, Rohan Publications, Visakhapatnam January 2025
13	International	Evaluate Literature Analysis in Research Development	(International Webinar onResearch Methodology in Material Science – YVNR Govt.Degree College, Kailkalur) Published by YVNR Govt Degree College, Kaikalur in association with Roshan Publictions, Visakhapatnam	ISBN: 978-93-90028-56-6 Chapter 10 P.No: 37-43 Roshan Publictions, Visakhapatnam January 2025

S.N O	Type International /National/ State	Title of the publication/Book chapter	Journal/Book chapter	Publication History ISSN/ISBN
14	International	A comprehensive Review on Nanoparticle in construction materials	(International Webinar on Research Methodology in Material Science – YVNR Govt. Degree College, Kaikalur) Published by YVNR Govt Degree College, Kaikalur in association with Roshan Publications, Visakhapatnam	ISBMN : 978-93-90028-56-6 P.No.65-70. Chapter 15 Roshan Publications, Visakhapatnam January 2025
15	International	Innovative Materials from CO ₂	smart materials (ICFSM-2k25) KBN College- Vijayawada	ISBN: 978-81-983232-4-8 P.No.43, Chapter 43 February 2025
16	National	A Holistic Approach to Sustainable Development Goals and the Post-2015 Agenda	National Seminar entitled Sustainable Living Practices for a Healthier Environment- Hindu college-Guntur In collaboration with A.P. Pollution control Board	ISBN: 978-93-342-1300-3 P.No. 15-24 February 2025
17	National	Sustainable waste management through zero waste principles	National Seminar entitled "Sustainable practices for socio economic and environmental development" Org by Dept of Environmental Sciences, Acharya Nagarjuna University-Guntur	ISBN : 978-93-490-2284-3 P.No.248-258 Chapter 26 February 2025
18	National	Transforming future computing and electronics with quantum transistors & dots	National Seminar on Advancing Quantum Frontiers: Optoelectronic Smart Materials for Next-Gen Technologies 24 th & 25 th February 2025 org by Dept of Physics Andhra Loyola College, Vijayawada-8	ISBN : 978-893-342-2475-7 P.No 17-19 February 2025
19	National	The role of novel soft materials in shaping the future	National Conference on Interdisciplinary for Materials Science for Sustainable Energy & Environment Article NCIMSSEE-2025, Dept of Physics(26-27 th) March 2025, GDC-Hanumakonda	ISBN: 978-81-980548-5-2 P.No. 73 March 2025
20	National	Why Lithium-Ion Batteries Stand Out: Advantages and Applications	National Seminar on Convergence of Chemistry and Physics in Advanced Nanomaterials & Nanotechnology 28 and 29 th March 2025, Idela College, Kakinada, www.kypublications.com , editorkypublications@gmail.com http://kypublications.com	ISBN(Print): 978-93-92760-68-6 P.No.185-192 March 2025
21	International	Advancing construction & stabilization with Nanomaterials	International Journal of Novel research and Development (IJNRD) (Peer-reviewed Reference Journal open access)	ISSN: 2456-4184 P.No.a271 –a277 Impact Factor 8.76 June 2025

S.N O	Type International /National/ State	Title of the publication/Book chapter	Journal/Book chapter	Publication History ISSN/ISBN
22	International	Linking policy and politics in climate action- An Overview (Review Paper)	International Journal of Research and Review: (Indexed, Peer Reviewed Journal)	P-ISSN: 2349-9788 E-ISSN : 2454-2237 Volumer 12, Issue : 6, Page No : 364-369 June 2025
23	International Conference	Sustaniable growth for all : Jobs: Water & energy	International conference on “ Sustainable Goals to revitalize and transform India” by Ch.S.D.St.Theresas College for Women (A), Eluru	International Journal of Academic Research P-ISSN- : 2348-7666 Volume 12, Impact Factor 6.023 July-Septermembr 2025 Issue 3
24	International Conference	From challenges to solutions “ India Evolving SDV Narrative(SDV – Sustainable Development Goals)	Internatinal Journal of academic research	P-ISSN-2348-7666 Vol12, Impact Factor : 6.023 July-Sept: 2025 Issue
25	International	Bio-ceramics in Biomedical engineering materials, methods and clinical relevance (Review Article)	European Journal of Biomedical & pharmaceuticals sciences http://www.ejbps.com	ISSN: 2349-8870 Vol 12, Issue 10 Impact Facgor 7.482 P.No 290-294 September 2025
26	International	Turning the Tide: climate change, Desertification and the WMO	International Journal of Creative Research Thoughts (IJCRT)	ISSN- 2320-2882 Vol : 13, PNo 91-98 August 2025
27	National Seminar	Bioplastics to Biosuper conductors : Weaving sustanibility with futuristic polymers	National Seminar on “ emerging Trends in catalytic synthesis of Small Molecules”, P.R.college, Kakinada	ISBN : 978-93-92760-65-5 Chapter : 19 P.No. 124-127 12 th Sept 2025
28	National Seminar	Energy –efficient construction using polymers and nanomaterials	National Seminar on “ emerging Trends in catalytic synthesis of Small Molecules”, P.R.college, Kakinada	ISBN : 978-93-92760-65-5 Chapter : 20, P.No. 128-135 12 th Sept 2025
29	International	“ The Material that Heals” (Review Article)	European Journal of biomedical pharmaceuticals science http://www.ejbps.com	ISSN: 2349-8870 Vol12, Issue 10, Impact Factor: 7.482 P.Nos 295-300 30-9-2025

S.N O	Type International /National/ State	Title of the publication/Book chapter	Journal/Book chapter	Publication History ISSN/ISBN
30	National Seminar	Nanofields to Ferrofields – thermal and Magnetic Functionalities	International Journal of Engineering Research- Online	ISSN: 2321-7758 Volume 14, P.No 91-98 24 th January 2026
31	National Seminar	“Geometrical and component modeling approaches for recrystallization and grain growth simulations”	International Journal of Engineering Research- Online	ISSN: 2321-7758 Volume 14, P.No 102-107 24 th January 2026
32	International webinar	“ IPR – driven strategies for energy efficieant and sustainable growth”	Two- Day International Webinar on “ Intellectual Property rights in Environmental Science: A global sustainable future on 19 th 20 th Feb 2026 YVNR Govt Degree College, Kaikaluru	ISBN : 978-93-5779-472-5 Chapter No : 09, P.No.32-34 March 2026
33	National Conference	“ A life cycle perspective on the environmental effects of building materials”	Two-Day National conference on Echos of the Past, Beans of light: Exploring the scientific phenomena behind telangana architecture-2026 by Govt Degree College, Nelakondapalli, Khammam Dist	Sponsored by PM-USHA (RUSA) on 6-7 th March 2026
34	International Conference	“ Two dimensional FET biosensors in medical Diagnostics”	International conference on Eco-Adaptive research for Techno-sustainable harmony organized by SRR & CVR Govt.Degree College, Vijayawadain associating with International Journal of scientific research in Science & Technology	P-ISSN: 2395-6011 Vol13, Issue 11 On 20 th March 2026 International peer reviewed , open access Journal
35	3 day International Conference	“Ferriate Materials in Microwave engineering: An Overview:	3 – day international conference on “ Bio-digital Alchemy: global innivations in AI-Quantum enablem transfomations of next-generation smart materials and life sciences, organic by Bapatla Engineering College	ISBN: 978-93-5773-598-8 P.No.349-353 23 rd to 25 th March 2026