Profile

Name of the Faculty	Raju Panthagani	
Designation	Associate Professor	
Department	Freshman Engineering	
Area of Interest	nanocomposites, Polymer nanocomposites, magnetic materials	
Subjects Taught	Applied Physics, Semiconductor Devices, Engineering Physics	
JNTUH Registration Id	7878-170912-145949	
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Educational Qualifications:

S. No.	Degree	Specialization	University/College	Year
1	Ph. D	Nanocomposites	Osmania University	2017
2	M. Sc	Nanoscience	Osmania University	2010
3	B. Sc	M.P.C	ANU, Guntur. APRDC, N Sagar	2008
4	Intermediate	M.P.C	Govt Junior College, Parkal, Warangal	2005

Research Publications:

S. No.	Publication details
1.	Ni0.48Cu0.12Zn0.4Fe2O4+ paraformaldehyde nanocomposites as microwave absorbent dominant materials **P. Raju**, A. Thirupathi, P. Neelima, M. Kanakadurga Solid State Communication, 2022, 114790, https://doi.org/10.1016/j.ssc.2022.114790
2.	Giant dielectric behavior in NdCrO3 perovskite Jada Shanker, J Ananthaiah, N Pavan Kumar, Kasarapu Venkataramana, M Anand pandarinath, Ujwal U P, **P. Raju**, E Meher Abhinav and D Suresh babu IOP Conf. Series: Materials Science and Engineering 1233 (2022) 012011 doi:10.1088/1757-899X/1233/1/012011
3.	Ultrasonically induced in situ polymerization of PANI-SWCNT nanocomposites for Electromagnetic shielding applications. **P. Raju**, G. Neeraja Rani, S.Udaya Kumar, Andrews Joseph and K. C. James Raju J Mater Sci: Mater Electron (2022) https://doi.org/10.1007/s10854-022-07702-2
4.	Effect of BaTiO3 phase on frequency dispersion characteristics of Mg0.48Cu0.12Zn0.4Fe2O4 + BaTiO3 nanocomposites. M. Kanaka Durga, **P. Raju** Materials Science and Engineering B 272 (2021) 115340 https://doi.org/10.1016/j.mseb.2021.115340
5.	Enhanced Microwave Absorption Properties of Ni0.48Cu0.12Zn0.4Fe2O4 + Polyaniline Nanocomposites **P. Raju,** P. Neelima, G. Neeraja Rani, M. Kanaka Durga Journal of Physics and Chemistry of Solids 154 (2021)110048, doi.org/10.1016/j.jpcs.2021.110048
6.	Structural and Microwave Behavior of Dy3+ substituted Ni0.5Zn0.5DyxFe2-xO4 Ferrites. P. Neelima, Ramesh Thotakura, **P. Raju**, S R Murthy J Mater Sci: Mater Electron (2021). https://doi.org/10.1007/s10854-020-04941-z
7.	Study of microstructure and thermal properties of PbTiO3 based glass ceramics.

	J. Shankar, **P. Raju**, A. Shiva Kumar, J. Anjaiah, G. Neeraja Rani, and V. K. Deshpande AIP Conf. Proc. 2269, 030077-1–030077-4 (2020); https://doi.org/10.1063/5.0019493
8.	Quenching effect of co-dopant Pr3+ on red emitting yttrium vanadate phosphor doped with Eu(III) G. Neeraja Rani, J. Shankar, **P. Raju**, J. Anjaiah, B. Mamatha, and N. H. Ayachit AIP Conf. Proc. 2269, 030063-1–030063-6 (2020); https://doi.org/10.1063/5.0019645
9.	Complex permittivity and permeability properties analysis of NiCuZn Ferrite-Polymer nanocomposites for EMI suppressor applications. **P Raju**, J Shankar, J Anjaiah, Ch Kalyani and G Neeraja Rani J. Phys.: Conf. Ser. 1495 012001 (2020) doi:10.1088/1742-6596/1495/1/012001
10.	Solid State Root Preparation, Characterization and Electrical Properties of NiCuZnFe2O4 / Paraformaldehyde Nanocomposites **P Raju**, S Rajesham, J Shankar, J Anjaiah and G Neeraja Rani J. Phys.: Conf. Ser. 1495 012004 (2020) doi:10.1088/1742-6596/1495/1/012004
11.	Microstructure, Frequency & Temperature dependent dielectric properties of nanocrystalline Zinc Ferrite **P. Raju**, S.R.Murthy AIP Conf. Proc. 2115, 030113-1–030113-4 (2019); https://doi.org/10.1063/1.5112952
12.	Shielding effectiveness studies of NiCuZn ferrite – Polyaniline nanocomposites for EMI suppression Applications **P. Raju** , J. Shankar, J. Anjaiah, and S. R. Murthy AIP Conf. Proc. 2162, 020027-1–020027-7 (2019); https://doi.org/10.1063/1.5130237
13.	Study of Microstructure and Dielectric Properties of PbTiO3 based Glass Ceramics J. Shankar, G. Neeraja Rani, J. Anjaiah, **P. Raju**, and V. K. Deshpande AIP Conf. Proc. 2162, 020045-1–020045-6 (2019); https://doi.org/10.1063/1.5130255

14.	Thermoluminescence Characteristics and Dosimetric Aspects of Li2O-CaO-B2O3 Glasses Doped with Rare Earth Ions J. Anjaiah, G. Neeraja Rani, J. Shankar, and **P. Raju** AIP Conf. Proc. 2162, 020043-1–020043-8 (2019); https://doi.org/10.1063/1.5130253
15.	MgCuZnFe2O4 + PbZrTiO3 Nanocomposites for EMI Applications M. Kanakadurga, P.Raju, S.R. Murthy Materials Today: Proceedings 3 (2016) 1398–1408
16.	Ferrite + Polymer nanocomposites for EMI applications **P. Raju**, T. Ramesh and S.R.Murthy Int.J. ChemTech Res.2014-2015,7(3),pp 1343-1350
17.	Microwave Hydrothermal Synthesis and Electromagnetic properties of Nanocrystalline Y3-xDyxFe5O12 garnets for microwave antenna applications T.Ramesh, **P.Raju**, R.S.Shinde and S.R.Murthy, Int.J. ChemTech Res.2014-2015,7(2),pp 539- 546
18.	Multiferroic properties of microwave sintered BaTiO3–SrFe12O19 composites Sadhana Katlakunta, **Pantagani Raju**, Sher Singh Meena, Sanyadanam Srinath, Reddigari Sandhya, Praveena Kuruva, Sarabu Ramana Murthy Physica B 448 (2014)323–326
19.	Preparation and characterization of BaTiO3+MgCuZnFe2O4 nanocomposites M. Kanakadurga, **P. Raju**, S.R. Murthy Journal of Magnetism and Magnetic Materials 341 (2013) 112–117
20.	Preparation and characterization of Ni–Zn ferrite + polymer nanocomposites using mechanical milling Method **P.Raju** and S.R.Murthy. Appl Nanosci (2013) 3:469–475, DOI 10.1007/s13204-012-0163-z
21.	Electromagnetic properties of microwave sintered xTiO2 + (1-x)CoFe2O4 nanocomposites K. Sadhana. K. Praveena. P. Raju. S. R. Murthy Appl Nanosci (2012) 2:203–210, DOI 10.1007/s13204-012-0084-x
22.	Microwave-hydrothermal synthesis of CoFe2O4- TiO2 nanocomposites

	P.Raju and S.R.Murthy (2012) Adv. Mat. Lett. 2013, 4(1), 99-105, DOI 10.5185/amlett.2012.icnano.130

Books/Book Chapters Published:

S. No.	Publication details
1	Preparation of Polymer + Ferrite Nanocomposites for EMI Applications P. Raju & S. R. Murthy, Advanced Polymeric Materials, From Macro- to Nano-Length Scales, Chapter 6, (2017) pg 99-118.
2	American Institute of Physics (AIP) Conference Proceedings : International Conference on Multifunctional Materials (ICMM-2019) (19-21, December, 2019). Volume 2269, ISBN: 978-0-7354-2032-8, ISSN: 0094-243X, 010001 (2020); https://doi.org/10.1063/12.0001002, Published Online: 12 October 2020 Editors: G. Neeraja Rani, J. Anjaiah, P. Raju
3	Book of Abstracts "International Conference on Multifunctional Materials (ICMM-2019)" Editors: G. Neeraja Rani, J. Anjaiah, P. Raju and M. Aruna Bharathi ISBN:9789353962067

Experience:

Teaching	7 Years
Industry	-
Research	10+ Years
Total Experience	12 Years