

Profile

Name of the Faculty	Dr. J. Shankar	
Designation	Professor	
Department	Physics	
Area of Interest	Materials Science	
Subjects Taught	Applied Physics, Engineering Physics, Semiconductor Physics Advanced physics	
JNTUH Registration Id	2164-160107-105632	
College Staff Code	1134	
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Educational Qualifications:

S. No.	Degree	Specialization	University/College	Year
1	Ph.D.	Materials Science	VNIT Nagpur	2012
2	M.Sc(Tech.)	Engineering Physics	NIT Warangal	2002
3	B.Sc.	M.P.E.	Kakatiya University, Warangal	1999

Publications Details :

S. No.	Publication details
1.	Influence of Calcium Doping on the Physical, Microstructural, and Electrical Characteristics of Sr _{1-x} Ca _x TiO ₃ Ceramics Jakkula Shankar, Parmesh Donta, Raju Panthagani Physics of the Solid State, Volume 67, Year 2025, Pages 533-539
2.	Physical and microstructural properties of Ba _{1-x} Sr _x TiO ₃ ceramics with heat treatment Jakkula shankar; A. Shiva Kumar; P. Raju; S. Rajesham; S.K. Mahammad Ali Ceramics International, Volume 51, Year 2025, Pages 6506-6514
3.	Influence of Sintering Temperature on Microstructure and Dielectric Properties of Strontium Calcium Titanate (Sr _{0.9} Ca _{0.1} TiO ₃) Ceramic Shankar J.; Ali S.K.M.; Raju P. Key Engineering Materials, Volume 1001, Year 2024, Pages 43-48
4.	Effect of sintering temperature on microstructure, dielectric and ferroelectric properties of BaTiO ₃ ceramics Shankar J.; Kumar A.S.; Kumar R.V.S. Ferroelectrics, Volume 606, Year 2023, Pages 207-218
5.	Structural Phase Modulation in Lanthanum- and Tin-Cosubstituted Pb(Zr,Ti)O ₃ Ceramics and its Energy and Pyroenergy Storage Properties Kumara Raja Kandula ., Tukaram Shet ., Mohan Nuthalapatib ., Lokeswara Rao Koneti ., Anees A. Ansari ., Khalid M. Alotaibi ., Abdullah A. Alotaibi ., Chitti Babu Atragada ., Narasimha Rao Nelaturi ., Sudharshan Vadnala ., Jakkula Shankar ., Raghava Rao Paritala ., Rajasekhar Bhimireddi ., Physica Status Solidi (A) Applications and Materials Science, Volume 220, Year 2023
6.	Ultrasonic Velocity Studies in Pure and Adulterated Edible Oils Mahammad Ali S.K.; Raju P.; Prashanthi T.V.; Shankar J.; Anjaiah J.; Nuslin Bibi S.K.; Rajesham S. Conference Paper AIP Conference Proceedings, Volume 2764, Year 2023
7.	Effect of heat treatment on dielectric and ferroelectric properties of BST ceramics A Shiva Kumar ., R.V. Sudheer Kumar ., S.K. Mahammad Ali ., J. Shankar ., Conference Paper Materials Today: Proceedings, Volume 92, Year 2023, Pages 1070-1073
8.	Effect of sintering temperature on physical and dielectric properties of SrTiO ₃ ceramics S.K. Mahammad Ali; J. Shankar; A. Shiva Kumar; P. Raju journal-article Materials Today: Proceedings, Volume 92, Year 2023, Pages 976-979
9.	Synthesis and thermal stability of ferrites added polymers nanocomposites Raju, P.; Thirupathi, A.; Kalyani, Ch.; Ali, Sk.M.; Shankar, J.; Rani, G.N.; Anjaiah, J.; Durga, M.K. Conference Paper Materials Today Proceedings, Volume 92, Year 2023, Pages 1671-1675
10.	Synthesis, microstructure and ferroelectric properties of PbO-TiO ₂ -B ₂ O ₃ based glass ceramics

	journal-article Materials Today: Proceedings, Volume 64, Year 2022, Pages 585-589
11.	Quenching effect of co-dopant Pr ³⁺ on red emitting yttrium vanadate phosphor doped with Eu(III) G. Neeraja Rani ., J. Shankar ., P. Raju ., J. Anjaiah ., B. Mamatha ., N. H. Ayachit ., Conference Paper AIP Conference Proceedings, Volume 2269, Year 2020
12.	Solid State Root Preparation, Characterization and Electrical Properties of NiCuZnFe ₂ O ₄ /Paraformaldehyde Nanocomposites Raju, P.;Rajesham, S.;Shankar, J.;Anjaiah, J.;Neeraja Rani, G. conference-paper Journal of Physics: Conference Series, Volume 1495, Year 2020
13.	Complex permittivity and permeability properties analysis of NiCuZn Ferrite-Polymer nanocomposites for EMI suppressor applications Raju, P.;Shankar, J.;Anjaiah, J.;Kalyani, C.;Neeraja Rani, G. Conference Paper Journal of Physics Conference Series, Volume 1495, Year 2020
14.	Study of microstructure and thermal properties of PbTiO ₃ based glass ceramics Shankar, J and Raju, P and Kumar, A Shiva and Anjaiah, J and Rani, G Neeraja and Deshpande, VK article aip, Volume 2269, Year 2020, Pages 030077
15.	Application of dielectric mixtures formulae to PbTiO ₃ based glass-ceramic systems Shankar J.;Rani G.;Deshpande V. Conference Paper AIP Conference Proceedings, Volume 2100, Year 2019
16.	Thermoluminescence characteristics and dosimetric aspects of Li ₂ O-Cao-B ₂ O ₃ glasses doped with rare earth ions journal-article PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS: ICAM 2019, Volume 2162, Year 2019
17.	Preparation and characterization of red emitting Yttrium Vanadate phosphor doped with Eu(III): Y ₁ -XVO ₄ : Eux journal-article PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS: ICAM 2019, Volume 2162, Year 2019
18.	Study of microstructure and dielectric properties of PbTiO ₃ based glass ceramics journal-article PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS: ICAM 2019, Volume 2162, Year 2019
19.	Shielding effectiveness studies of NiCuZn ferrite-polyaniline nanocomposites for EMI suppression applications Raju, P.;Shankar, J.;Anjaiah, J.;Murthy, S.R. conference-paper AIP Conference Proceedings, Volume 2162, Year 2019
20.	Crystallization and dielectric properties of PbTiO ₃ based glass ceramics Shankar, J and Rani, G Neeraja and Deshpande, VK inproceedings , Volume 1942, Year 2018, Pages 070001
21.	Enhanced electrical properties of SrBi ₄ Ti ₄ O ₁₅ ceramic with addition of ZrO ₂ Mamatha B.;Rani G.;Shankar J. Conference Paper AIP Conference Proceedings, Volume 1942, Year 2018
22.	Synthesis and characterization of PbTiO ₃ based glass ceramics Shankar, J and Rani, G Neeraja and Mamatha, B and Deshpande, VK inproceedings , Volume 1832, Year 2017, Pages 070016
23.	Study of PbO-TiO ₂ -B ₂ O ₃ glass and glass ceramics Shankar, J and Deshpande, VK

	inproceedings , Volume 1665, Year 2015, Pages 070001
24.	PbTiO ₃ based ferroelectric glass ceramics Shankar, J and Deshpande, VK inproceedings , Volume 1591, Year 2014, Pages 708--710
25.	Effect of MgO addition on the properties of PbO--TiO ₂ --B ₂ O ₃ glass and glass--ceramics Jakkula, Shankar and Deshpande, Vilas article Ceramics International, Volume 39, Year 2013, Pages S15--S18
26.	Study of PbO-SrO-TiO ₂ -B ₂ O ₃ glass and glass ceramics Shankar J.;Deshpande V. Article Physica B: Condensed Matter, Volume 407, Year 2012, Pages 2160-2163
27.	Effect of CaO addition on the properties of PbTiO ₃ glass ceramic Shankar J.;Deshpande V. Article Ferroelectrics, Volume 423, Year 2011, Pages 116-125
28.	Electrical and thermal properties of lead titanate glass ceramics Shankar J.;Deshpande V. Article Physica B: Condensed Matter, Volume 406, Year 2011, Pages 588-592
29.	Study of lead titanate based glass ceramics with addition of BaO Shankar J.;Deshpande V. Conference Paper Integrated Ferroelectrics, Volume 119, Year 2010, Pages 110-121
30.	Effect of heat treatment schedule on the properties of lead titanate based glass ceramic Deshpande V.K.;Shankar J. Conference Paper Ferroelectrics, Volume 393, Year 2009, Pages 63-70
31.	Optical and Photoluminescence Characterizations of Li ₂ O-MO (M= Zn, Ca and Cd)-B ₂ O ₃ Glasses Doped with Ho ³⁺ Ions, ECS Journal of Solid State Science and Technology, July 2025
32.	Impact on Structural and Radiation Shielding Features of 60B ₂ O ₃ -20CdO-5Al ₂ O ₃ -(15-x) CaF ₂ -xMoO ₃ ECS Journal of Solid State Science and Technology, May 2025

Experience:

Teaching	23
Industry	-
Research	18
Total Experience	23