



ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF HUMANITIES & BASIC SCIENCES

RESEARCH PUBLICATIONS

ACADEMIC YEAR: 2020-21

Sl. No.	Name of the Faculty Author	Title of the Paper	Name of the Journal	ISBN/ISSN Number	Vol/Month	SCIE/UGC/Scopus	URL/DOI
1	Dr.A.Rama Krishna	Synthesis, Micro-structural and vibrational studies of Nb doped Lithium Titanate Anode Materials for Lithium-ion Batteries	Solid state technology	0038 -111X	Vol 6 2020	Scopus	https://solidstatetechnology.us/index.php/JSST/article/view/8787
2	Dr.A.Rama Krishna	Magnetic and DC Electrical Resistivity Properties of Cu doped Mg _{0.6-x} Ni _{0.4} Cu _x Fe ₂ O ₄ Ferrite	Solid state technology	0038 -111X	Vol 5 2020	Scopus	https://solidstatetechnology.us/index.php/JSST/article/view/8787
3	Dr.Raghavendra Vemuri	Effect of Cr ³⁺ substitution on dc electrical resistivity and magnetic properties of Cu _{0.7} Co _{0.3} Fe _{2-x} Cr _x O ₄ ferrite nanoparticles prepared by sol-gel auto combustion method	Results in Physics	2211-3797	Vol 24 May 2021	SCI	https://doi.org/10.1016/j.rinp.2021.104117

4	Dr.Raghavendra Vemuri	Effect of Cu substitution on magnetic and DC electrical resistivity properties of Ni-Zn nano ferrites	Journal of Materials Science: Materials in Electronics	1573-482X	June 2021	SCI	10.1007/s10854-021-06127-7
5	Dr.Raghavendra Vemuri	Synthesis, Structural and antibacterial activity of pure Fe doped and glucose capped ZnO nano particles	Surfaces and Interfaces	2468-0230	Oct 2021	SCI	https://doi.org/10.1016/j.surfin.2021.101327
6	Dr.Raghavendra Vemuri	Influence of Cr ³⁺ -substituted Co _{0.7} Cu _{0.3} Fe _{2-x} Cr _x O ₄ nanoferrite on structural, morphological, dc electrical resistivity and magnetic properties	Applied Physics A: Materials Science & Processing	1432-0630	July 2021	SCI	https://doi.org/10.1007/s00339-021-04750-z
7	Dr.A.Rama Krishna	Evaluation of micro-structural and magnetic properties of nickel nanoferrite and Mn ²⁺ substituted nickel nanoferrite	Physica B: Condensed Matter	0921-4526	Volume 620, November 2021,	SCI	https://doi.org/10.1016/j.physb.2021.413264
8	Dr.A.Rama Krishna	Micro-structural, dielectrical and magnetic properties of Cu ²⁺ substituted Ni _{0.7} Mn _{0.3-x} Cu _x Fe ₂ O ₄ (x=0.0,0.05,0.1,0.15 and 0.2) nanoferrites	Journal of Magnetism and Magnetic Materials	0304-8853	Volume 540 Dec 2021	SCI	https://doi.org/10.1016/j.jmmm.2021.168464

9	Dr.B.S.N.Murthy	Mathematical transmission analysis of SEIR tuberculosis disease model	Sensors International	2666-3511	Volume 2 2021	SCI	https://doi.org/10.1016/j.sintl.2021.100120
10	Dr.Raghavendra Vemuri	Structural and modulus spectroscopy studies of Bi _{0.5} (Na _{0.8} K _{0.2}) _{0.5} TiO ₃ nano-polycrystalline ceramics	Journal of the Australian Ceramic Society	0004-881x	October 2021	SCI	https://doi.org/10.1007/s41779-021-00666-2
11	Dr.N.Rajeswara Rao	Electron Beam Radiation Modification on Chemical, Thermal and Crystalline Properties of Poly (L-lactic acid)	Indian Journal of Pure & Applied Physics	0975-1041	Volume 59 October 2021	Scopus	http://nopr.niscair.res.in/handle/123456789/58308
12	Dr.N.Rajeswara Rao	Detection of copper by localized surface Plasmon resonance based fiber optic technique	SPIE	1996-756X	April 2021	Scopus	https://doi.org/10.1117/12.2589085
13	Dr.N.Rajeswara Rao	Carcinogenic chromium (VI) sensing using swelling characteristics of hydrogel on Fiber Bragg grating	SPIE	1996-756X	October 2021	Scopus	https://doi.org/10.1117/12.261586

14	Dr.N.Rajeswara Rao	Multi U-bent cladded POF sensors for refractive index measurement	SPIE	1996-756X	April 2021	Scopus	https://doi.org/10.1117/12.2589198
15	Dr.N.Rajeswara Rao	Monitoring of pH by using stimulus responsive hydrogel and Fiber Bragg grating for bioreactor application	SPIE	1996-756X	October 2021	Scopus	https://doi.org/10.1117/12.2615861
16	Dr.A.Rama Krishna	An experimental investigation on effect of durability on strength properties of M40 grade concrete with partial replacement of sand with copper slag	Materials Today: Proceedings	2214-7853	April 2021	Scopus	https://doi.org/10.1016/j.matpr.2020.09.767
17	Dr.A.Rama Krishna	Microstructural Impedence and conductivity studies of magnecium doped Lithium Titanate Materials for Li-ion Batteries	Materials Today: Proceedings	2214-7853	April 2021	Scopus	https://www.sciencedirect.com/science/article/pii/S2214785320370814?via%3Dihub
18	Dr.A.Rama Krishna	Synthesis, characterization and electrical studies on Nb substituted L 4Ti 5012 anode materials for Li ion batteries	Materials Today: Proceedings	2214-7853	April 2021	Scopus	https://www.sciencedirect.com/science/article/pii/S2214785320370814?via%3Dihub

19	Dr.Raghavendra Vemuri	Cadmium substitution effect on structural, electrical and magnetic properties of Ni-Zn nano ferrites	Results in Physics	2211-3797	December 2020	SCI	https://www.sciencedirect.com/science/article/pii/S2211379720319434
20	Dr.Raghavendra Vemuri	Optical and luminescence properties of pure, iron-doped, and glucose capped ZnO nano particles	Results in Physics	2211-3797	December 2020	SCI	https://doi.org/10.1016/j.rinp.2020.103508
21	Dr. Raghavendra Vemuri	Effect of cr substitution on magnetic properties of co-cu Nano Ferrites	Solid State Technology	0038-111X	Vol 63 2020	Scopus	http://solidstatetechnology.us/index.php/JSST/article/view/7828
22	Mr.G.B.C.Mouli	On Spectral Relaxation Approach for Thermal Diffusion and Diffusion Thermo Effects on Viscous Dissipative Casson Fluid Through a Stretched Surface	International Journal of Applied and Computational Mathematics	2199-5796	November 2020	SCI	https://doi.org/10.1007/s40819-020-00916-0
23	Dr.A.Rama Krishna	Biologically synthesized silver nano particles from shoreal Robusta L, Plant and associated antibacterial property	Materials Today :Proceedings	2214-7853	Decemeber2 020	Scopus	https://doi.org/10.1016/j.matpr.2020.10.610
24	Dr.A.Rama Krishna	Anticancer and antibacterial activity of green synthesized silver nanoparticles using Adina cordifolia	Materials Today: Proceedings	2214-7853	Novemeber 2020	Scopus	https://doi.org/10.1016/j.matpr.2020.10.043

25	Dr.A.Rama Krishna	Microstructural, thermal, electrical and magnetic analysis of Mg substituted Cobalt ferrite	Applied Physics	1432-0630	December 2020	SCI	https://doi.org/10.1007/s00339-020-04048-6
26	Dr.A.Rama Krishna	Microstructural and electric properties of Mg. substituted Li ₄ Ti ₅ O ₁₂ synthesized by ceramic method	AIP Conference Proceedings	1551-7616	October 2020	Scopus	https://aip.scitation.org/doi/10.1063/5.0019597
27	Dr.Raghavendra Vemuri	Structural optical luminescence properties of pure ,Fe doped and glucose capped cdo semiconductor nanoparticles and their anti bacterial activity	Journal of material science: Material in electronics	3920-3928	Jan 2021	SCi	https://doi.org/10.1007/s10854-020-05135-3
28	Dr.J.M.Kanthi Tilaka	Female identity in Anees Jung seven sisters	Solid state technology	0038-111X	Vol 63 (2020)	Scopus	http://solidstatetechnology.us/index.php/JSST/article/view/1380

Faculty in charge

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