

List of Anna University Recognized Research Supervisors

S.No	Name of the Supervisor	Designation	Reference Number	Area of Field
1.	Dr. H. Krishnan	Professor & Head	11.799.13/1170272	Experimental Solid State Physics.
2.	Dr. M. Anbuezhayan	Associate Professor	20.799.53/2070015	Nano material, Crystal Growth
3.	Dr. K. Thirupathi	Assistant Professor (Sr.G)	17.799.04/1770742	Materials Science, Magnetic Materials
4.	Dr. S. Padmaja	Assistant Professor	2970099	Polymer and magnetic materials, Thin films.

List of Publications

S.No	Author	Title of the paper	Name of the Journal	Volume No.	Year
				Page No.	
1	C. Deepa, M.Anbuezhayan , and T. Arivazhagan	Synthesis, spectroscopic, thermal analysis and quantum chemical calculation of a new third-order nonlinear optical material: N-allylthiourea	Journal of Materials Science- Materials in Electronics	Vol 32: 15364 – 15374	2021
2	N. Srinivasan alias Arunankar, M. Anbuezhayan , and S. Padmaja	Enhanced photocatalytic mineralization efficiency of anionic element doped ZnO by improving separation of excitons	Journal of Materials Science- Materials in Electronics	Vol 32: 12631 –12647	2021
3	Priyadharsini K, Anbuezhayan M , Senguttuvan N & Rajendran Sribalan	Multifunctional polyethylene glycol-polymethyl methacrylate comprised magnetic nanoparticles as pH-responsive smart cargo for specific	Materials Technology (Advanced Performance	https://doi.org/10.1080/10667857.2021	2021

		curcumin delivery	Materials)	<u>1.1913947</u>	
4	Gandhimathi Sivasubramanian, Senthil Andavan Gurusamy Thangavelu, Berlina Maria Mahimai, Krishnan Hariharasubramanian, and Paradesi Deivanayagam	Unprecedented sulphonated poly(ether ether ketone)– bismuth cobalt zinc oxide composites: physicochemical and electrochemical performance in fuel cell	Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-021-06672-1	2021
5	S.Padmaja	Investigations on CdS reinforced PMMA solid films of different molar concentrations for optical applications	Journal of Advanced Materials and Applications	Vol 6	2021
6	Ramya Rajan Meethale Pallolathil , Ramaswamy Rathikha Rajendran Nithyabalaji, Rajendran Sribalan	Synthesis, characterization, in vitro and in silico studies of bis-hydrazone complexes derived from terephthalic dihydrazide	Journal of Molecular Structure	Volume 1242 Page number 130683	2021
7	C Deepa, M.Anbuechhiyan, R.Sribalan	Theoretical and experimental study of new nonlinear optical material nicotinothiazide	Journal of Nonlinear Optical Physics and Materials	<u>Vol. 29,</u> <u>No. 03n04,</u> <u>2050007</u>	2020
8	C.Deepa, M.Anbuechhiyan & R.Sribalan	The Combined Experimental and Theoretical study of N-acetyl L- Glutamine	International Tierärztliche Praxis	Vol.No.40 1493-1507	2020
9	Rajendran Nithya Balaji,Hariharasubramanian Krishnan, Rajendran Sri Balan	Synthesis, Molecular structure in vitro and in silico studies of - phenyl morpholine – Heterocyclic amides	Journal of Molecular Structure.	Vol. 1204, pp. 127563	2020
10	M.P. Ramya Rajan , Ramaswamy Rathikha Rajendran Nithyabalaji , Rajendran Sribalan	Synthesis, characterization, in silico studies and in vitro biological evaluation of isoniazid-hydrazone complexes.	Journal of Molecular Structure	Vol. 1204, pp. 128297.	2020
11	R. Kavitha , Swaminathan Nirmala, Rajendran Nithyabalaji , Rajendran Sribalan	Biological evaluation, molecular docking and DFT studies of charge transfer complexes of quinaldic acid with heterocyclic carboxylic acid.	Journal of Molecular Structure	vol. 1204, pp. 127508.	2020

12	S.Gandhimathi, H. Krishnan & D. Paradesi	Development of proton exchange polymer nanocomposite membranes for fuel cell applications	Polymers and Polymer Composites	Vol.28 (7), pp.492-501	2020.
13	S.Gandhimathi, H. Krishnan& D. Paradesi,	New series of organic-inorganic polymer nanocomposite membranes for fuel cell applications	High Performance Polymers	Vol. 32(3), pp.296-305	2020
14	Arputha latha, A, Anbuechziyan, M	The crystal structure, linear and nonlinear optical properties of 3-Aminonitrobenzene for photonic application — A combined experimental and theoretical investigation”	Journal of Nonlinear Optical Physics & Materials	Vol. 28, No. 3 ,1950028	2019
15	Srinivasan Alias Arun Sankar N, M. Anbuechziyan, S. Ponnusamy	Hydrothermal synthesis of C doped ZnO nanoparticles coupled with BiVO ₄ and their photocatalytic performance under visible light irradiation	Applied Surface Science.	494 , 771-782	2019
16	Ms. S. Gandhimathi Dr. H. Krishnan	Energy Material - The role of silicotungstic acid and fly ash in sulfonated poly (ether sulfone) composites for PEMFC applications.	Journal of macro molecular science, part A: pure and applied chemistry.	vol.56 (2), pp. 146- 152	2019
17	Ms. R. Nithya Balaji Dr. H. Krishnan	Synthesis, Molecular Structure and biological activities of N- (3-methoxy phenyl) 3 (pyridine 4 yl) 1H- pyrazole 5-carboxamide	Journal of Molecular Structure	1186, 1-10.	2019

18	Deivanayagam Paradesi ,Sivasubramanian Gandhimathi ,Harihara Subramanian Krishnan ,Ramaswamy jayalakshmi	A Novel proton conducting polymer electrolyte membrane for fuel cell applications	High performance polymers	30, 116-125	2018
19	A.Aruputhalatha M.Anbuechziyan C. Charles KanakamK.Selvarani	Synthesis and Characterization of g-glycine-a nonlinear optical single crystal for optoelectronic and photonic applications	Materials science-Poland	Vol .35(1) Page 140-150	2017

20	Sivasubramanian Gandhimathi, Harihara Subramanian Krishnan Deivanayagam Paradesi Ramaswamy jayalakshmi	High performance SPEEK/SWCNT/FLY ASH Polymer Electrolyte Nanocomposite Membranes for fuel cell Applications	Polymer journal	Vol 49, Page 703- 709	2017
21	S.Raju, R.Muralidharan, H.Smila and H.Krishnan	Growth and low temperature Raman studies on a Non Linear optical potassium thiourea chloride single crystals	Optik - International Journal for Light and Electron Optics.	Vol 127, issue 7, Page 3620-3623	2016
22	K.Sarojini H.Krishnan	Antimicrobial Activity of some Sulfonamide derivatives	The Imperial Journal of Interdisciplin ary research,	Vol. 2- issue4, pp-348- 350	2016
23	S. Raju, S. Kanagathara, D. Rajan Babu R. Muralidharan H. Krishnan	Thermal and Electrical studies on solution grown barium thiourea chloride single crystals	Material Research Innovation	Vol. 20 , Iss. 6, page 439- 442	2016

24	S.Raju, R.Muralidharan, H.Smila and H.Krishnan	Ferroelectric like transition on a hygroscopic barium thiourea chloride single crystal	Modern Physics Letters B	Vol.29,15 50047	2015
25	M.Anbuezhiyan A.Aruputhalatha S Ponnusamy K Syed Suresh Babu	Effect of phosphorous on the growth, optical, mechanical and thermal properties of L-alanine crystals	Photonics Letters of Poland	Vol 7, (2), 44-46	2015
26	K.Thiruppathi	The Analysis and Early Characterization of Fly ash Blended Calcium Sulfoaluminate Cement	International Journal of Futuristic Trends in Engineering and Research	Vol.2 (7)	2015
27	K.Thiruppathi Zarana Laheri Shet Kinnari Parekh R V Uppadhayay	The effect of Spherical nanoparticle on rheological properties of bi-dispersed magneto rheological fluids	American Institute of Physics	1165- 130020	2015
28	K.Thiruppathi Dr.S.Bharathan, Mr.G.Sivakumar	An Experimental study on SRPC and CSA cement systemsbased on flyash and anhydrite	International of Engineering Research and Technology	3(4) 1328- 1339.	2014

29	K.Thiruppathi, S.Barathan, G.Sivakumar , D.Govindarajan.	FTIR and XRD characterization of CSAC fly ash Blended system.	International Journal of Engineering Research & Technology.	Vol.3.Issue.5, 281-293.	2014
30	S.Karthikeyan,	FTIR and ICP-AES study, Effect of heavy mixture nickel and chromium on tissue protein of an edible fish protein of an edible fish <i>cirrhinus mrigala</i> using FTIR and ICP-AES study.	Romanian Journal of biophysics	Vol. 24, No.109-116	2014
31	K. Sarojini, H.Krishnan	Molecular docking studies of some sulfonamide derivatives as PBP-2X inhibitors as antibacterial agents	Romanian Journal of biophysics	Vol 24(3)	2014
32	S.Raju, R.Muralidharan and H.Krishnan	“A comparative study on the spectral properties of thiourea potassium chloride and thiourea single crystals”	International Journal of Chem Tech Research	Vol.6, No., pp 4212-4215	2014

33	S.Raju, R.Muralidharan, H.Smila and H.Krishnan	Synthesis, Spectral and Antibacterial studies of Semi-Organic Single Crystal: Barium Thiourea Chloride”	Research Journal of Pharmaceutic al,Biological and Chemical Sciences	5[5], page no. 1440,	2014
34	K. Sarojini, H.Krishnan	Synthesis, structural, spectroscopic studies,NBO analysis,NLO and LUMO of 4-methyl-N- (3-nitrophenyl) benzene sulphonamide”	Spectrochimic a Acta Part A: Molecular and Biomolecular Spectroscopy	108, 159-170	2013
35	K. Sarojini, H.Krishnan, Charles C Kanagam, S.Muthu	“Molecular structure, vibrational spectroscopic and Homo LUMO studies of 4-methyl-N- (2-methylphenyl) benzene sulphonamide”	Advanced material research	665 (2013) 101-111	2013
36	Mr.Syed Suresh Babu, M.Anbuezhiyan, Mr.M.Gulam Mohamed, P.A/Abdullah Mahaboob and R.Mohan	“ Growth, optical, dielectric, thermal and mechanical properties of pure and Sr(II)-doped L-asparagine monohydrate single crystal”	Archives of Physics Research,	4, 31-39.	2013
37	P.Mathivanan N.Balakrishnan, Krishnan.H,	Impact Properties of Aluminium - Glass Fiber Reinforced Plastics Sandwich Panels.	Materials Research	Vol 15(3), 347-354	2012
38	K. Sarojini, H.Krishnan, CharlesC Kanagam, S.Muthu,	Synthesis, X-ray structural, characterization, NBO and HOMO–LUMO analysis using DFT study of 4-methyl-N-(naphthalene-1-yl) benzene sulfonamide	Spectrochimic a Acta Part A: Molecular and Biomolecular Spectroscopy	Vol 96 657–667	2012
39	K. Sarojini, H.Krishnan, Charles C Kanagam, S.Muthu	Molecular structure, vibrational spectroscopic and Homo LUMO studies of 4-methyl-N-(4-methylphenyl) benzene sulfonamide,	AIP Conf. Proc.	1447 , 2011-2113	2012
40	Anbuezhiyan, M., Ponnusamy, S., Muthamizhchelvan,C ., Kanakam,C.C., Singh, S.P., Pal, P.K., Datta,P.K.,	“Etching, micro hardness and laser damage threshold studies of a nonlinear optical material L-valine”	Eur. Phys. J. Appl. Phys.	58: 10201 2012	2012

