

Dr. S. Sudhahar Assistant Professor

Contact	
Address	: Department of Physics
	Alagappa University
	Science campus, Karaikudi – 630 003
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Academic Qualifications: M.Sc./M.Ed./Ph.D.

Teaching Experience: 07 Years

Research Experience: 12 Years

Areas of Research

- > Crystal Growth (Nonlinear and Ferroelectric Materials)
- ➤ Thin Films and
- > Nanomaterials (Supercapacitor and Biomedical applications)

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	04	04
	M.Phil.	11	Xx
Project	PG	30	06
	UG / Others	Xx	Xx

Ph.D Completed: 04

Dep	partment of Physics,	Alagappa University, Karaikudi-630003	
S. No.	Students Name	Title of the Thesis	Awarded
01	G. PARVATHY	Investigations on the synthesis, growth,	13 th April 2022
	(R2016 1810)	physicochemical and quantum chemical	
		calculations of 5-chloro-2-hydroxybenzoic	
		acid derivative single crystals for nonlinear	
		optical applications.	
02	R. KALIAMMAL	Investigations on the synthesis, growth,	17 th June 2022
	(R2016 1943)	physicochemical and quantum chemical	
		calculations of 2-amino-6-methylpyridine	
		derivative single crystals for nonlinear	
		optical applications.	
03	K. VELSANKAR	A comprehensive exploration on green	15 th September
	(R2016 2024)	synthesized metal oxide nanoparticles	2022
		using panicoideae (edible grass-millet	
		crops) subfamily grains extract for	
		emerging biological applications.	
04	G. MAHESHWARAN	Investigation on two dimensional layered	20 th January
	(R2016 2343)	bismuthene nanosheets and its composites	2023
		for supercapacitor applications.	

Ph.D Ongoing: 04

D	Department of Physics, Alagappa University, Karaikudi-630003		
S. No.	Students Name	Title of the Thesis	Ongoing
01	A. NIVEDHITHA	Functional and fabrication of layered two	Ongoing
	BHARATHI	dimensional transition metal based electrode	
	(R2016 2678)	materials for high performance supercapacitor	
		applications.	
02	V. KOUSALYA DEVI	Investigations on the synthesis, growth,	Ongoing
	(R2016 2771)	physicochemical and quantum chemical	
		calculations on creatinine derivative single	

		crystals for nonlinear optical applications.	
03	S. SUGANYA	Development of ternary metal oxide	Ongoing
	(R2016 2827)	nanostructured electrode materials for the	
		fabrication of high performance hybrid	
		supercapacitors.	
04	F. KOUSI	Investigations on the synthesis, growth,	Ongoing
	(R2016 2977)	physicochemical and quantum chemical	
		calculations on p-toulenesulphonic acid based	
		single crystals for non linear optical	
		applications.	

M.Phil Completed: 11

Department of Physics, Alagappa University, Karaikudi-630003			
S. No.	Students Name	Title of the Thesis	Awarded
01	R. ERNEST AMALA	Crystal growth and characterization of	July 2017
	(R2016581005)	2-aminopyridinium salicylate organic	
		nonlinear optical single crystal	
02	A. SAVARI RAJEEV	Synthesis, growth and characterization of	July 2017
	(R2016581014)	2-amino 6-methylpyridinium 6-aminocaporate	
		nonlinear optical single crystal	
03	U. KARUPPASAMY	Synthesis, growth and characterization of	October
	(R2016582008)	8-hydroxyquinolinium 6-aminocaproate	2017
		organic nonlinear optical single crystal	
04	S. SHARAVANAN	Synthesis, growth and characterization of	October
	(R2016582017)	8-hydroxyquinolinium salicylate organic	2017
		nonlinear optical single crystal	
05	R. ARCHANA	Growth and characterization of	July 2018
	(R2017581002)	8-hydroxyquinolinium 3,4-dimethoxybenzoate	
		and p-toluidinium picrate organic single	
		crystals for nonlinear optical applications	
06	J. SAHAYA MELBA	Synthesis, growth and characterization of	July 2018
	(R2017581009)	2-amino-6-methylpyridinium	
		5-chlorosalicylate and l-alaninium	
		5-chlorosalicylate organic nonlinear optical	
		single crystals	
07	B. BHUVANA	Synthesis, growth and non-linear optical	April 2019
	MARIDHASAN	properties of 2-amino 6-methylpyridinium	
	(R2017582003)	3,4-dimethoxybenzoate single crystal	
08	R. MUTHU	Growth and structural, spectral, optical,	April 2019
	KARUPPASAMY	thermal properties of l-alaninium	
	(R2017582013)	3,5-dinitrobenzoate NLO single crystal	

09	S. SUMATHY	Synthesis, growth and characterization of	April 2019
	(R2017582018)	l-alaninium p-hydroxybenzoate non-linear	
		optical single crystal	
10	G. MAHESHWARAN	Mechanical, thermal and optical properties of	August
	(R2018581002)	piperazinium orthophthalate non-	2019
		centrosymmetric single crystal	
11	V. VINOTHINI	Green synthesis of silver nanoparticles using	June
	(R2019581009)	zephyranthes candida flower extract for	2020
		biomedical application	

M.Sc Completed: 30

C	Department of Physics	s, Alagappa University, Karaikudi-630003	
S. No.	Students Name	Title of the Thesis	Awarded
01	S. ANUSIYA	Synthesis, growth, structural and optical	April
	(R2015521002)	properties of 8-hydroxyquinolinium	2017
		4-hydroxybenzoate NLO single crystal	
02	R. KRISHNA	Synthesis, growth, structural, optical, thermal	April
	(R2015521018)	properties of 2-aminopyridinium copper	2017
		acetate single crystal	
03	G. PARVATHY	Synthesis, growth, spectral, and optical	April
	(R2015521024)	properties of piperazinium p-hydroxybenzoate	2017
		nonlinear optical single crystal	
04	M. PERIYANAYAKI	Synthesis, crystal growth, structural, spectral,	April
	(R2015521025)	thermal and optical properties of piperidinium	2017
		p-hydroxybenzoate NLO single crystal	
05	S. SIVARANJANI	Synthesis, crystal growth, structural, spectral	April
	(R2015521038)	and optical properties of 2-aminopiridinium	2017
		p-chlorobenzoate NLO single crystal	
06	A. CAROLIN AMALA	Synthesis, growth, spectral and optical	April
	(R2016521004)	properties of 2-aminopyridinium succinate and	2018
		vanillinium 2-chlorobenzoate nonlinear optical	
		single crystals	
07	P. ISWARYA	Synthesis, growth and characterization of	April
	(R2016521009)	piperazinium benziliate NLO single crystal	2018
08	M. MUNEESWARI	Synthesis, growth and characterization of	April
	(R2016521017)	4-aminopyridinium p-chlorobenzoate and	2018
		8-hydroxyquinolinium sebaciate nonlinear	
		optical single crystal	
09	M. VALLIKKODI	Synthesis, growth and characterization of	April
	(R2016521040)	piperazinium p-aminobenzoate and	2018
		piperazinium p-chlorobenzoate nonlinear	

		optical single crystals	
10	K. VELSANKAR	Synthesis, growth, structural, spectral and	April
	(R2016521041)	optical studies on piperazinium salicylate and	2018
		vanillinium 3,4-dimethoxybenzoate single	
		crystal	
11	V. ATCHAYA	Crystal growth and characterization of	April
	(R2017521006)	vanillium succinate and 2-aminopyridinium	2019
		3,5-dinitrobenzoate organic nonlinear optical	
		single crystals	
12	M. KARTHIKA	Synthesis, growth and characterization of	April
	(R2017521019)	benzilate 2-amino 6-methyl pyridium and	2019
		5-chlorosalicylate 2-amino pyridinium	
		nonlinear optical single crystal	
13	R. MANGALA	Synthesis, crystal growth, structural, spectral	April
	BHARATHI	and optical properties of nicotinamide	2019
	(R2017521023)	8-hydroxy quinoline and 2-amino 6-	
		methylpyridinium myristate NLO single crystal	
14	K. RAJIYA BEGAM	Synthesis, structural and optical properties of	April
	(R2017521033)	MnFe ₂ O ₄ nanoparticles	2019
15	V. VINOTHINI	Synthesis, structural and optical properties of	April
	(R2017521047)	pure and copper doped ZnS nanocrystals	2019
16	R.M. ASWIN KUMAR	Green synthesis of copper oxide nanoparticles	June
	(R2018521006)	using tamarindus Indica pulp extract and its	2020
		antibacterial activity	
17	M. MALAISELVI	Green synthesis of lanthanum oxide	June 2020
	(R2018521019)	nanoparticles using moringa oleifera leaves	
		extract with its antioxidant,anti-inflammatory	
		and antidiabetic activities	
18	A. NIVEDHITHA	Green synthesis of silver nanoparticles via	June 2020
	BHARATHI	zeephyranthes roses flower extract for	
	(R2018521026)	antibacterial and anti-inflammatory application	
19	R. PREETHI	Green synthesis of silver nanoparticles via	June 2020
	(R2018521030)	allium sativum flower extract for	
		antimicrobialand anti-inflammatory application	
20	R. SELVA	Eco friendly synthesis of lanthanum oxide	June 2020
	MUNEESWARI	nanoparticles using eucalyptus globules leaves	
	(R2018521039)	extract for biomedical application	
21	S. ARCHANA	A novel 2D-Sb/rGO nanocomposites as a	April
	(R2019521003)	potential electrode material for high	2021
		performance supercapacitor application	
22	P. MUTHUMARI	Greern synthesis of ZnO nanoparticles via	April
	(R2019521017)	erythrina indica leaf extract for antimicrobial	2021

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		application	
23	G. SEETHALAKSHMI	Development of high performance electrode	April
	(R2019521031)	based on Cr ₂ O ₃ -Co ₃ O ₄ nanocomposite in	2021
		aqueous electrolyte	
24	C. SELVI	Exploration of Cr ₂ O ₃ -NiO nanocomposites as a	April
	(R2019521032)	superior electrode material for supercapacitor	2021
		application	
25	S. SUGANYA	Green synthesis CuO nanoparticls via capsicum	April
	(R2019521038)	frutescens leaf extract for antibacterial	2021
		application	
26	S. ABDULKAJINA	Synergistic effect of two dimensional MoS ₂ -	May 2022
	(R2020521001)	Cr ₂ O ₃ nanocomposite based electrode material	
		for high performance supercapacitor	
		applications	
27	C. DEEPIKA	Hybridization of carbon sphere-graphitic	May 2022
	(R2020521007)	carbon nitride based nano composite for high	
		performance supercapacitor application	
28	C. NITHYASHREE	Fabrication of multilayered MoO ₃ -Sb	May 2022
	(R2020521029)	nanocomposite based electrode for	
		electrochemical supercapacitor	
29	S. PUSHPA	Exploration of two dimensional antimony@rGO	May 2022
	(R2020521034)	nanocomposite for high performance of	
		supercapacitor	
30	M. THENMOZHI	Investigation on two dimensional layered	May 2022
	(R2020521044)	MoO ₃ -La ₂ O ₃ nanocomposite for supercapacitor	
		applicaton	

M.Sc Ongoing: 06

Department of Physics, Alagappa University, Karaikudi-630003			Awarded
S. No.	Students Name	Title of the Thesis	/ Ongoing
01	S. ABITHA BHANU	Investigation of MoO_3 -Fe ₂ O ₃ nanocopmposite	Ongoing
	(R2021521003)	based electrode for supercapacitor	
		applications.	
02	C. ASHWIN	Exploration of two dimensional layered	Ongoing
	(R2021521009)	hexagonal boran nitride for the fabrication of	
		high performance hybrid supercapacitor	
03	P. DIVYARANI	Fabrication of Y ₂ O ₃ -CoO ₃ nanocomposites and	Ongoing
	(R2021521018)	analysing their electrochemical properties for	
		supercapacitor applications.	
04	J. JEYAPRATHA	Exploration of electrochemical properties of	Ongoing
	(R2021521024)	SrO-NiO as an effective electrode for	

		supercapacitor	
05	S. RAMYA	Preparation of MnFe ₂ O ₄ -gC ₃ N ₄	Ongoing
	(R2021521034)	nanocomposites for high performance	
		supercapacitor applications.	
06	V. YOGA THARSHINI	Synthesis, crystal growth and optical	Ongoing
	(R2021521045)	properties of 8-Hydroxyquinolinium	
		3,5-Dinitrobenzoate for NLO applications.	

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

- 1. Active Member of Organising Committee, NATIONAL SEMINOR on RECENT ADVANCES in PHYSICS, March 7-8, 2014.
- 2. Organizing Committee member National Seminar on Recent Advancements in Frontier Areas of Materials Science, 23-24, March, 2016.
- 3. Active Member of Organizing Committee, National Seminar on Advanced Materials Research, Alagappa University, 19th January, 2017.
- 4. Active Member of Organizing Committee, Business Oriented Hands-on Training on Analytical Instrumentation, 2-3rd March, 2017.
- 5. Active Member of Organizing Committee, National Conference on Futuristic Materials, 27-28th March, 2017.
- 6. Organizing Committee member International Conference on Momentus Role of Nanomaterials in Renewable Energy Devices, 1-2, March, 2018.
- 7. Organizing Committee member National conference on advanced materials for sustainable energy and sensors (NCAMSES), 20-22, March, 2019.
- 8. Organizing Secretary International Conference on Advanced materials for sustainable energy and sensors (INCAMSES 2019), 16-17, September 2019.
- 9. Organizing Secretary World Standards Day-2019, October 2019.
- 10. Organizing Secretary AcT NExT 2020, February 2021.

Membership in

Professional Bodies

- 1. Life Member: Indian Physics Association, Life Membership No. GEN/LM/13173
- 2. Life Member: Indian Laser Association.
- 3. Life Member: Society for Advancement of Electrochemical Science and Technology.

Awards

- 1. Promising Researcher Award (cash) 2022
- 2. Vallal Alagappar Research Recognition Award 2020

Academic Bodies (such as Board of studies etc.,)

- 1. Member: Board of studies to frame M.Sc (Physics)., M.Phil (Physics)., Syllabi, Alagappa University.
- 2. Swatchh Bharath Supervisor since 2018 to till date.
- 3. Rotary Club Coordinator since September-2019 to till date.

Department Developmental Activity

- 1. NSS Coordinator since 2016 to till date
- 2. Student Welfare Coordinator since 2016 to till date
- 3. Swatchh Bharath Coordinator since 2016 to till date.

Resource persons in various capacities

Number of invited / Special Lectures delivered: 04

Publications

International		Nati	onal	Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs /
				Manuals
104	15	05	39	Xx
Cumulativ	ve Impact Factor (as per JCR) :	379.153	
Highest Ir	npact Factor	:	19.069	
CCDC File	d	:	12	
h-index		:	17	
i10 index		:	33	
Total Cita	tions	:	1119	

Papers Presented International Conferences

1. R. Kaliammal, G. Parvathy, G. Maheswaran, **S. Sudhahar,** Crystal growth and characterization of 2-amino 6-methylpyridinium 3,4 -dimethoxybenzoate organic nonlinear optical single crystal, Participated and presented a poster in International symposium on modelling crystal growth processing and devices (MCGPD 2019) held at SSN institute of technology Chennai on 26-28 February 2019.

- 2. G. Parvathy, R. Kaliammal, K. Velsankar, **S. Sudhahar,** Synthesis, growth, spectral and optical properties of L-alanium p-hydroxybenzoate nonlinear optical single crystal, Participated and presented a poster in International symposium on modelling crystal growth processing and devices (MCGPD 2019) held at SSN institute of technology Chennai on 26-28 February 2019.
- 3. A. Carolin Amala, P. Iswarya, M. Krishnakumar, **S. Sudhahar**, 'Synthesis, growth, structural and optical properties of 8-hydroxyquinolinium 6-aminocaproate nonlinear optical single crystal', Participated and presented a poster in IC MNRE 2018 held at Alagappa University, Karaikudi, March 1-2, 2018.
- 4. G. Parvathy, S. Muniyasamy, R. Kaliammal, **S. Sudhahar**, 'Synthesis, growth, spectral and optical properties of 2-aminopyridinium p-aminobenzoate nonlinear optical single crystal', Participated and presented an Oral in IC MNRE 2018 held at Alagappa University, Karaikudi, March 1-2, 2018.
- 5. S. Sahaya Melba, R. Archana, A. Thirunavukkarasu, **S. Sudhahar**, 'Growth and characterization of nonlinear optical 4-dimethylamino pyridinium 4-aminobenzoate dihydrate single crystal', Participated and presented a poster in IC MNRE 2018 held at Alagappa University, Karaikudi, March 1-2, 2018.
- 6. R. Archana, S. Sahaya Melba, A. Thirunavukkarasu, **S. Sudhahar**, 'Growth and third harmonic properties of bis-benzotriazole tricholro acetate nonlinear optical single crystal', Participated and presented a poster in IC MNRE 2018 held at Alagappa University, Karaikudi, March 1-2, 2018.
- 7. R. Kaliammal, G. Parvathy, R. Mohan Kumar, **S. Sudhahar**, 'Crystal growth and characterization of 2-aminopyridinium salicylate organic nonlinear optical single crystal', Participated and presented an Oral in IC MNRE 2018 held at Alagappa University, Karaikudi, March 1-2, 2018.
- 8. R. Velsankar, M. Muneeswari, R. Vallikkodi, **S. Sudhahar**, 'Synthesis, growth and characterization of piperazinium salicylate nonlinear optical single crystal', Participated and presented a poster in IC MNRE 2018 held at Alagappa University, Karaikudi, March 1-2, 2018.
- 9. S. Muniyasamy, R. Kaliammal, G. Parvathy, **S. Sudhahar**, 'Synthesis, growth and characterization of 2-amino 6-methylpyridinium 6-aminocaproate nonlinear optical single crystal', Participated and presented a poster in IC MNRE 2018 held at Alagappa University, Karaikudi, March 1-2, 2018
- 10. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Investigation on Spectral, Thermal and Dielectric Properties of DAST Crystal', Participated and presented a poster in International Conference Recent Trends in Applied Physics & Materials Science (RAM 2013) held at Govt. College of Engineering and Technology, Bikaner, Rajasthan, Feb 01-02, 2013.
- 11. **S. Sudhahar**, M. Krishna Kumar, R. Mohan Kumar, 'Studies on structural, spectral and optical properties of organic nonlinear optical single crystal: 2-amino-4,6-dimethylpyrimidinium p-hydroxybenzoate", Participated and presented an Oral in International conference on Research, Perspectives and Procedures organized by SDNB Vaishnav College for Women, Chennai-44, during August 23-24, 2012.

- M. Krishna Kumar, S. Sudhahar, R. Mohan Kumar, 'Crystal growth, X-raydiffraction, pectroscopic,Optical studies on 4-bromo-4'-N'methylstilbazolium tosylate single crystals', Participated and presented an Oral in International conference: Research: Perspectives & Procedures held at SDNB Vaishnav college for Women, Chennai 23-24 August 2012.
- 13. **S. Sudhahar,** M. Krishna Kumar, R. Mohan Kumar, 'Effect of Sm³⁺ ion on structural, thermal, mechanical, linear and nonlinear optical properties of potassium hydrogen phthalate single crystals', Participated and presented a poster in International Conference on Materials Science and Technology (ICMST-2012) held at St. Thomas College, Pala, Kerala, during June 10-14, 2012.
- 14. **S. Sudhahar**, M. Krishna Kumar, P. Pandi, R. Mohan Kumar, 'Investigation on rare earth doped nonlinear optical potassium hydrogen phthalate single crystals', Participated and presented a poster in International conference on Recent Trends in Advanced Materials (ICRAM-2012) held at VIT University, Vellore, during February 20-22, 2012.
- 15. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Growth and characterization of inorganic nonlinear optical Lithium sodium Sulfate hydrate single crystals', Participated and presented a poster in International Conference on Advanced Materials ICAM 2012 held at Department of Physics, Loyola College, Chennai, January, 5-7, 2012.

Papers Presented National Conferences

- 1. G. Parvathy, R. Kaliammal, G. Maheshwaran, **S. Sudhahar**, Studies on the spectral and optical properties of organic non-linear optical L-alaninium 3,5 dinitrobenzoate (LADN) single crystal, Participated and presented a poster in National conference on Advanced materials for sustainable energy and sensors (NCAMSES) at Alagappa University, Karaikudi on 20-22nd March, 2019.
- 2. R. Kaliammal, G. Parvathy, **S. Sudhahar**, Synthesis, growth, spectral and optical optical properties of 2-amino 6-methylpyridinium benziliate organic nonlinear optical single crystal, Participated and presented a poster in National conference on Advanced materials for sustainable energy and sensors (NCAMSES) at Alagappa University, Karaikudi on 20-22nd March 2019.
- 3. K. Velsankar, V. Muthulakshmi, G. Maheshwaran, **S. Sudhahar**, Second order nonlinear optical characterization of vanilium 3,4- Dimethoxybenzoate organic single crystal, Participated and presented an Oral in National conference on Advanced materials for sustainable energy and sensors (NCAMSES) at Alagappa University, Karaikudi on 20-22nd March 2019.
- 4. G. Maheswaran, U. Karuppasamy, K. Velsankar, **S. Sudhahar**, Structural and nonlinear optical properties of 8-hydroxyquinolium 6- aminocaproate non centrosymmetric single crystal, Participated and presented a poster in National conference on Advanced materials for sustainable energy and sensors (NCAMSES) at Alagappa University, Karaikudi on 20-22nd March 2019.

- 5. V. Atchaya, K. Velsankar, K. Rajiyabegam, **S. Sudhahar,** Crystal growth and characterization of a succiniate vanillium organic nonlinear optical single crystal, Participated and presented a poster in National conference on Advanced materials for sustainable energy and sensors (NCAMSES) at Alagappa University, Karaikudi on 20-22nd March 2019.
- 6. M. Karthika, G. Parvathy, G. Maheswaran, **S. Sudhahar**, Synthesis, growth, structural and optical properties of 5-chlorosalicylicate 2-aminopyridinium nonlinear optical single crystal, Participated and presented a poster in National conference on Advanced materials for sustainable energy and sensors (NCAMSES) at Alagappa University, Karaikudi on 20-22nd March 2019.
- 7. K. Rajiyabegam, R. Kaliammal, G. Parvathy, **S. Sudhahar**, Synthesis, growth, optical and second harmonic generation studies of 2-amino 6-methylpyridinium barbutriate organic nonlinear optical single crystal, Participated and presented a poster in National conference on Advanced materials for sustainable energy and sensors (NCAMSES) at Alagappa University, Karaikudi on 20-22nd March 2019
- 8. R. Mangala Bharathi, V. Vinothini, **S. Sudhahar**, Synthesis, crystal growth, structural and optical properties of 2-amino 6-methylpyridinium myristiate nonlinear optical single crystal, Participated and presented a poster in National conference on Advanced materials for sustainable energy and sensors (NCAMSES) at Alagappa University, Karaikudi on 20-22nd March 2019.
- 9. G. parvathy, R.Kaliammal, K.Velsankar, **S. Sudhahar,** Synthesis, Growth and characterization of piperazinium p-hydroxybenzoate nonlinear optical single crystal, Participated and presented an Oral in National seminar on recent advanced materials and applications (RAMA 2019) at Theivanaiammal college for women Viluppuram on 6th February 2019.
- 10. R. Kaliammal, G. parvathy, G.Maheswaran, **S. Sudhahar,** Synthesis, growth, structural and optical properties of 2-amino 6-methylpyridinium 6-aminocaproate nonlinear optical single crystal, Participated and presented an Oral in National seminar on recent advanced materials and applications (RAMA 2019) at Theivanaiammal college for women Viluppuram on 6th February 2019.
- 11. S. Anusiya, G. Parvathy, M. Periyanayaki, A. Savari Rajeev, **S. Sudhahar**, 'Synthesis, growth, structural and optical properties of 8-Hydroxyquinolinium phydroxybenzoate nonlinear optical single crystal', participated and presented in national conference on futuristic materials, held at Department of Physics, Aalagappa University, Karaikudi, March 27-28, 2017.
- 12. R. Krishna, S. Sivaranjani, S. Muniyasamy, **S. Sudhahar**, 'Synthesis, growth, spectral, thermal, mechanical and optical properties of piperidinium p-chlorobenzoate nonlinear optical single crystal', participated and presented in national conference on futuristic materials, held at Department of Physics, Alagappa University, Karaikudi, March 27-28, 2017.
- 13. G. Parvathy, M. Periyanayaki, S. Anusiya, S. Muniyasamy, **S. Sudhahar**, 'Synthesis, growth, spectral and optical properties of piperazinium p-hydroxybenzoate nonlinear optical single crystal', participated and presented in national conference

on futuristic materials, held at Department of Physics, Alagappa University, Karaikudi, March 27-28, 2017.

- 14. M. Periyanayaki, S. Anusiya, G. Parvathy, A. Savari Rajeev, **S. Sudhahar**, 'Synthesis, crystal growth, structural, spectral, thermal and optical properties of 8-Hydroxyquinolinium 5-chlorosalicylate nonlinear optical single crystal', participated and presented in national conference on futuristic materials, held at Department of Physics, Alagappa University, Karaikudi, March 27-28, 2017.
- 15. S. Sivaranjani, S. Muniyasamy, R. Krishna, A. Savari Rajeev, **S. Sudhahar**, 'Synthesis, growth, spectral, thermal, mechanical and optical properties of 2-Aminopyridinium p-chlorobenzoate nonlinear optical single crystal', participated and presented in national conference on futuristic materials, held at Department of Physics, Alagappa University, Karaikudi, March 27-28, 2017.
- 16. A. Savari Rajeev, R. Ernast Amala, S. Anusiya, **S. Sudhahar**, 'Third Harmonic Properties Of 2-Phenylethylaminium p-Nitrophenolate Monohydrate Nonlinear Optical Single Crystals', Participated and presented in National Seminar on Advanced Materials Research (AMR) held at Department of Physics, Alagappa University, Karaikudi, January 19, 2017.
- 17. S. Muniyasamy, M. Periyanayaki, **S. Sudhahar**, 'Effect of rare earth Yttrium doped triglycine sulphate single crystals and its characterization', Participated and presented in National Seminar on Advanced Materials Research (AMR) held at Department of Physics, Alagappa University, Karaikudi, January 19, 2017.
- 18. G. Parvathy, R. Krishna, S. Sivaranjani, **S. Sudhahar**, 'Synthesis, growth, structural, thermal and third order nonlinear optical studies of 2-phenyl-ethanaminium 3-caroboxyprop-2-enoate single crystals', participated and presented in national seminar on advanced materials research (AMR) held at Department of Physics, Alagappa University, Karaikudi, January 19, 2017.
- 19. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Crystal growth and optical studies of 4-hydroxy-4'-N'- methylstilbazolium tosylate single crystals for nonlinear optical applications', Participated and presented in 22nd DAE-BRNS National Laser Symposium held at MIT, Manipal University, Manipal, Karnataka, Jan 7-11, 2014.
- 20. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Synthesis, Crystal growth and optical studies of Urea 2-hydroxy 5- sulfobenzoate single crystal', Participated and presented in XVIII National Seminar on Crystal Growth held at Centre for Crystal Growth, SSN College of Engineering, Chennai, 24-26, February 2014.
- 21. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Synthesis, crystal growth and characterization of pi-conjugated stilbazolium 4-hydroxy-3-methoxy-4'- N'methylstilbzolium tosylate monohydrate crystals', Participated and presented in National Seminar on Recent Advances in Physics held at Department of Physics, Presidency College, Chennai, 7-8, March 2014.
- 22. **S. Sudhahar**, M. Krishna Kumar, R. Mohan Kumar, '2-Phenylethylammonium p-hydroxybenzoate: Growth, structural, spectral, thermal, optical and mechanical

characterization', Participated and presented in National Seminar on Recent Advances in Physics held at Department of Physics, Presidency College, Chennai, 7-8, March 2014.

- 23. **S. Sudhahar**, I. MD Zahid, M. Krishna Kumar, R. Mohan Kumar, 'Crystalline perfection, birefringence and laser damage threshold properties of piperidinium p-hydroxybenzoate', Participated and presented in 59th DAE-Solid State Physics Symposium held at VIT University, Vellore, 16-20, December 2014.
- 24. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Crystal growth and optical properties of 4-hydroxy-3- methoxy-4'-N'- methylstilbazolium tosylate monohydrate crystals', Participated and presented in 21st DAE-BRNS National Laser Symposium (NLS-21) held at Bhabha Atomic Research Centre, Mumbai, February 06-09, 2013.
- M. Krishna Kumar, S. Sudhahar, R. Mohan Kumar, 'Growth and electrical properties on NLO crystal: 4-N,N-dimethylamino 4-N- methylstilbazolium iodide', Participated and presented in 58th DAE-BRNS Solid State Symposium held at Thapar University, Patiala, Punjab, Dec 17-21, 2013.
- 26. S. Sudhahar, M. Krishna Kumar, R. Mohan Kumar, 'Synthesis, crystal growth, structural, spectral, thermal, optical and mechanical properties of solution grown 4-methylpyridinium 4-hydroxybenzoate single crystal', Participated and presented a poster in 21st DAE–BRNS National Laser Symposium (NLS-21), at Bhabha Atomic Research Centre, Mumbai-400 085, during February 06-09, 2013.
- 27. **S. Sudhahar**, M. Krishna Kumar, R. Mohan Kumar, '2-phenylethylammonium p-hydroxybenzoate: Synthesis, structural, spectral, thermal, optical and mechanical characterization', Participated and presented a poster in Twenty Fourth National Seminar on Crystal Growth, organized by Crystal Growth Centre, Anna University, Chennai-25, during December 20-22, 2012.
- 28. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Synthesis, Crystal Growth, Structural and optical studies of Third-Order Nonlinear Optical Crystal: 4-Methyl-4'-N'- Methylstilbazolium Tosylate', Participated and presented in Twenty Fourth National Seminar on Crystal Growth held at Crystal Growth Centre, Anna University, Chennai December 20-22, 2012.
- 29. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Investigation on the growth and Optical Properties of the DAST crystal', Participated and presented in National conference on Spectrophysics 2012 held at Indian Spectrophysics Association, Chennai March 7-8, 2012.
- 30. **S. Sudhahar**, M. Krishna Kumar, R. Mohan Kumar, 'Crystal growth, spectral, optical, thermal and mechanical properties of piperidinium p-hydroxybenzoate single crystal', Participated and presented a poster in National conference on Spectrophysics 2012, organized by Indian Spectrophysics Association, Chennai-30, during March 7-8, 2012.
- 31. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Growth and characterization of Inorganic nonlinear optical lithium sodium sulfate hexahydrate single crystals',

Participated and presented in DAE-BRNS National Laser Symposium (NLS-20) held at Crystal Growth Centre, Anna University, Chennai January 9-12, 2012.

Short-Courses/ Workshops Participated

- 1. **S. Sudhahar,** Participated in seminar on 'Awareness workshop on nanoscience and nanotechnology', organized by Science city from 24th to 27th, August 2010 at the Science City, Chennai.
- S. Sudhahar, Participated in 'One day Seminar on 50 years of Lasers', held at Department of Physics, RKM Vivekananda College, Chennai-600004 on 19th February 2011
- 3. **S. Sudhahar,** Participated in Short course on 'Crystal Growth and characterization of Laser Materiials', Organised by Indian Laser Association, January 07-08, 2012 at Crystal Growth Centre, Anna University, Chennai.
- 4. **S. Sudhahar,** Participated in 20th DAE–BRNS National Laser Symposium (NLS-20), at Crystal Growth Centre, Anna University, Chennai-600025, during January 09-12, 2012.
- 5. **S. Sudhahar**, Participated in National conference on 'GREEN CHEMISTRY', held on 10th February 2012 at Department of Chemistry, Presidency College, Chennai.
- S. Sudhahar, Participated in 'National Seminar on Emerging Trends in Physics', Organized by Department of Physics, Government Arts College, Nandanam, Chennai-600035 on 29th February 2012
- 7. **S. Sudhahar,** Participated in seminar on 'Higgs Boson and Neutrino', held on 7th December 2012 at Department of Nuclear Physics, University of Madras, Chennai-600025.
- 8. **S. Sudhahar,** Participated in Science Academies Lecture workshop on "Topics in Theoretical Physics", Organized by Department of Physics, Presidency College, Chennai-600005 on 10-11 March 2014

Recent Publications

2023	3 (07)	
109	G. Maheshwaran, M. Ramesh Prabhu, G. Ravi, K. Sankaranarayanan, S. Sudhahar	19.069
	Probing the energy conversion and storage process in two dimensional layered bismuthene- hexagonal boron nitride nanocomposite electrode and PVA-KOH-BaTiO3 piezoelectrolyte nanogenerators.	
	Nano Energy, 106 (2023) 108060	
108	S. Mohandoss, S. Ganesan, S. Palanisamy, S.G. You, K. Velsankar, S. Sudhahar , H.Mu Lo, Y.R. Lee	8.943
	Nitrogen, sulfur, and phosphorus Co-doped carbon dots-based ratiometric chemosensor for highly selective sequential detection of Al ³⁺ and Fe ³⁺ ions in logic gate, cell imaging, and real sample analysis	
	Chemosphere, 313 (2023) 137444.	
107	G. Vignesh, R. Ranjithkumar, P. Devendran, N. Nallamuthu, S. Sudhahar , M. Krishna Kumar	3.407
	Nitrogen doped reduced graphene oxide/ZnCo ₂ O ₄ nanocomposite electrode for hybrid supercapacitor application	
	Materials Science and Engineering B, 290 (2023) 116328	
106	M. Jeevaraj, S. Sudhahar , N. Nallamuthu, P. Devendran, S. Saravanakumar, D. Sivaganesh, M. Krishna Kumar	2.988
	Solution processed Mn2+ doped Cs2AgInCl6 lead free double perovskite as a potential light emitting material	
	Physica B: Condensed Matter, 15 (2023) 414679.	
105	G. Vignesh, R. Ranjithkumar, P. Devendran, N. Nallaperumal, S. Sudhahar , M. Krishna Kumar	2.307
	Structural, Spectral, and Electrochemical Investigations of a Nitrogen-Doped N-rGO/MgCo ₂ O ₄ Nanocomposite for Supercapacitor Applications	
	Chemistry Select, 8 (2023) e202203915	
104	M. Jeevaraj, P. Devendran, N. Nallamuthu, S. Sudhahar , M. Krishna Kumar	2.779
	Influence of Mn ²⁺ doping on the optical properties of Cs ₂ AgBiCl ₆ double perovskite luminescent phosphors	
	J Mater Sci: Mater Electron, 34 (2023) 65	
103	S. Mohandoss, G. Sivarasan, A. Singaravelu, J.K. Alagarasan, P. Subramanian, S.G. You, K. Velsankar, S. Sudhahar , H.M. Lo, Y.R. Lee	8.431
	Multiple heteroatom dopant carbon dots as a novel photoluminescent probe for the sensitive detection of Cu2+ and Fe3+ ions in living cells and environmental sample analysis	
	Environmental Research 219 (2023) 11510	
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102	S. Suganya, G. Maheshwaran, M. Ramesh Prabhu, P. Devendran, M. Krishna Kumar, S. Sudhahar	8.907
	Enhanced electrochemical activity of ternary Co-Mn-Zn oxide for the fabrication of hybrid supercapacitor applications	
	Journal of Energy Storage, 56 (2022) 106057.	
101	G. Maheshwaran, P. Pandi, S. Suganya, B. Arjun Kumar, G. Ramalingam, M. Ramesh Prabhu, S. Sudhahar	8.907
	Fabrication of self charging supercapacitor based on two dimensional bismuthene-graphitic carbon nitride nanocomposite powered by dye sensitized solar cells	
	Journal of Energy Storage, 56 (2022) 105900.	
100	C. Sambathkumar, K.R. Nagavenkatesh, M. Krishna Kumar, N. Nallamuthu, S. Sudhahar , P. Devendran	8.907
	Electrochemical exploration on hexadecylamine capped copper sulfide nanocubes using single source precursor for enhanced supercapacitor devices	
	Journal of Energy Storage, 56 (2022) 105898.	
99	M. Jeevaraj, S. Sudhahar , P. Devendran, N. Nallamuthu, N.D. Jayram, M. Krishna Kumar	3.662
	Structural, optical and charge density investigations on lead free Mn2+ doped Cs2NaBiCl6 double perovskite microcrystals	
	Materials Today Communications, 33 (2022) 104715	
98	R. Ranjithkumar, P. Lakshmanan, N. Palanisami, P. Devendran, N. Nallamuthu, S. Sudhahar , M. Krishna Kumar	3.151
	Facile, Morphology-Controlled and Mass Production of 0D-Ag/2D-g-C3N4/3D-TiO2 Nano composite Materials: Efect of Silver Morphology and Loading on the Electrochemical Performance	
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97	S. Mohandoss, S. Ganesan, K. Velsankar, S. Sudhahar , F.H. Alkallas, A.B.G. Trabelsi, F.V. Kusmartsev, H.Mu Lo, Y.R. Lee	3.682
	Fabrication and characterization of Ag nanoparticle-embedded κ -Carrageenan-Sodium alginate nanocomposite hydrogels with potential antibacterial and cytotoxic activities	
	Journal of Biomaterials Science, Polymer Edition,6 (2022) 1-16	
96	G. Maheshwaran, A. Venkatesan, R. Kaliammal, M. Ramesh Prabhu, P. Devendran, M. Krishna Kumar, S. Sudhahar	4.654
	Two-Dimensional Layered Bismuthene/Antimonene Nanocomposite as a Potential Electrode Material for the Fabrication of High-Energy Density Hybrid Supercapacitors	
	Energy & Fuels, 36 (2022) 12299-12309	
95	Z. Mohamed Riyas, C. Priya, R. Premila, G. Maheshwaran, S. Sudhahar , M. Ramesh Prabhu	8.907
	Synergistic effect of La ₂ o ₃ -Nio nanocomposite based electrode for electrochemical high- performance asymmetric supercapacitor applications	

	Journal of Energy Storage, 53 (2022) 104988.	
94	K. Velsankar, G. Parvathy, S. Mohandoss, G. Ravi, S. Sudhahar	5.062
	Echinochloa frumentacea grains extract mediated synthesis and characterization of iron oxide nanoparticles: A greener nano drug for potential biomedical applications	
	Journal of Drug Delivery Science and Technology, 76 (2022) 103799	
93	V. Kousalya Devi, A. Venkatesan, A. Nivedhitha Bharathi, G. Parvathy, R. Kaliammal, M. Krishna Kumar, S. Sudhahar	3.841
	Third Order Nonlinear Optical Properties of Bis (Creatininium 2, 4-Dichlorobenzoate) Monohydrate Organic New Single Crystal	
	Journal of Molecular Structure, 1271 (2022) 134115	
92	G. Maheshwaran, A. Nivedhitha Bharathi, R. Kaliammal, M. Ramesh Prabhu, P. Devendran, M. Krishna Kumar, S. Sudhahar	7.336
	Two Dimensional Layered Bismuthene Nanosheets with Ultra-fast Charge Transfer Kinetics as a Superior Electrode Material for High Performance Asymmetric Supercapacitor Electrochimica Acta, 426 (2022) 140838	
91	A. Nivedhitha Bharathi, G. Maheshwaran, V. Kousalya Devi, M. Krishna Kumar, S. Sudhahar	1.878
	Enhanced electrochemical performance of bio-derived nickel oxide nanoparticles using Zephyranthes rosea flower extract and investigation on charge storage mechanism	
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90	C. Sambathkumar, N. Nallamuthu, M. Krishna Kumar, S. Sudhahar , P. Devendran	6.371
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85	K. Velsankar, G. Parvathy, S. Mohandoss, R. Mohan Kumar, S. Sudhahar	3.869
	Green synthesis and characterization of CuO nanoparticles using <i>Panicum sumatrense</i> grains extract for biological applications	
	Applied Nanoscience, (2022)	
84	S.M. Fathima Khyrun, Z. Mohamed Riyas, V. Raja, S.S. Sarbudeen, V. Natesan, K. Velsankar, S. Sudhahar , M. Ramesh Prabhu, M. Govindarasu, M. Thiruvengadam, B. Venkidasamy, C. Janani, T. Selvaraj	3.111
	Environmental and biomedical applications in the synthesis and structural, optical, elemental characterizations of Mg doped ZnO nanoparticles using Coleus aromaticus leaf extract	
	South African Journal of Botany, (2022)	
83	R. Kaliammal, G. Parvathy, G. Ravi, V. Mohan Kumar, M. Krishna Kumar, S. Sudhahar	2.779
	Crystal growth and characterization of 2-amino-6-methylpyridinium p-chlorobenzoate dihydrate single crystal: a novel third-order nonlinear optical material for optoelectronic applications	
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82	K. Velsankar, A. Venkatesan, P. Muthumari, S. Suganya, S. Mohandoss, S. Sudhahar	3.841
	Green inspired synthesis of ZnO nanoparticles and its characterizations with biofilm, antioxidant, anti-inflammatory, and anti-diabetic activities	
	Journal of Molecular Structure, 1255 (2022) 132420	
81	G. Maheshwaran, G. Seethalakshmi, V. Kousalya Devi, L.M. VenkataKrishna, M. Ramesh Prabhu, M. Krishna Kumar, S. Sudhahar	2.856
	Synergistic effect of Cr_2O_3 and Co_3O_4 nanocomposite electrode for high performance supercapacitor applications	
	Current Applied Physics, 36 (2022) 63-70	
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	Experimental and theoretical approach of novel third-order nonlinear optical single crystal: benzamide 5-chloro-2-hydroxybenzoic acid	
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79	R. Kaliammal, G. Parvathy, G. Maheshwaran, V. Kousalya Devi, M. Krishna Kumar, K. Sankaranarayanan, S. Sudhahar	3.841
	Experimental and theoretical studies on new 2-amino-6-methylpyridinium 2, 4- dihydroxybenzoate monohydrate organic single crystal for second order nonlinear optical applications	
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78	G. Parvathy, R. Kaliammal, V. Kousalya Devi, A. Nivedhitha Bharathi, G. Vinitha, K. Sankaranarayanan, S. Sudhahar	3.957

	Experimental and theoretical evaluation of a novel organic proton transfer crystal p-Toluidinium 5-chloro-2-hydroxybenzoate for third order nonlinear optical applications	
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77	G. Parvathy, R. Kaliammal, K. Velsankar, V. Mohankumar, K. Sankaranarayanan, S. Sudhahar	2.983
	Physicochemical and computational perspectives of 8-hydroxyquinoline 5-chloro-2- hydroxybenzoic acid: a novel second-order nonlinear optical crystal	
	Applied Physics A, 127 (2021) 957	
76	R. Kaliammal, G. Parvathy, G. Maheshwaran, K. Velsankar, V. Kousalya Devi, M. Krishnakumar, S. Sudhahar	4.969
	Zephyranthes candida flower extract mediated green synthesis of silver nanoparticles for biological applications	
	Advanced Powder Technology, 32(11) (2021) 4408-4419.	
75	G Vignesh, R Ranjithkumar, P Devendran, N Nallamuthu, P Lakshmanan, S Sudhahar , M Krishna Kumar	1.556
	Investigations on Electrochemical Performance of Hausmannite Manganese Oxide Nanoparticles in KOH and Na ₂ SO ₄ Electrolytes for Energy Storage Applications	
	Nano, 10 (2021) 2150144	
74	K Velsankar, S Suganya, P Muthumari, S Mohandoss, S Sudhahar .	7.968
	Ecofriendly green synthesis, characterization and biomedical applications of CuO nanoparticles synthesized using leaf extract of Capsicum frutescens	
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73	K. Velsankar, G. Parvathy, S. Mohandoss, M. Krishna Kumar, S. Sudhahar	8.000
	Celosia argentea leaves extract mediated green synthesized iron oxide nanoparticles for bio applications	
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72	C. Sampathkumar, V. Manirathinam, A. Manikandan, M. Krishna Kumar, S. Sudhahar , P. Devendran	2.779
	Solvothermal synthesis of ${\rm Bi}_2S_3$ nanoparticles for active photocatalytic and energy storage device applications	
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71	R Kaliammal, G Parvathy, R Mohan Kumar, M Krishna Kumar, G Vinitha, S Sudhahar	3.957
	Physicochemical and quantum chemical calculations on new bis (2-amino-6- methylpyridinium 3,4–dimethoxybenzoate) dihydrate organic single crystal for third order nonlinear optical applications	
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70	G Maheshwaran, M Malai Selvi, R Selva Muneeswari, A Nivedhitha Bharathi, M Krishna Kumar,	4.969

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	Green synthesis of lanthanum oxide nanoparticles using Moringa oleifera leaves extract and its biological activities	
	Advanced Powder Technology 32 (2021) 1963-1971	
69	G Parvathy, R Kaliammal, K Velsankar, G Vinitha, K Sankaranarayanan, R Mohan Kumar, S Sudhahar	3.841
	Piperazinium bis (5-chlorosalicylate)–A new third order nonlinear optical single crystal	
	Journal of Molecular Structure 1228 (2021) 129728	
68	M Jeevaraj, S Sudhahar , M Krishna Kumar	3.662
	Evolution of Stability Enhancement in Organo-Metallic Halide Perovskite Photovoltaics-A Review	
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