



Dr. S. Sudhahar
Assistant Professor

Contact

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Academic Qualifications: M.Sc./M.Ed./Ph.D.

Teaching Experience: 03 Years

Research Experience: 08 Years

Areas of Research

Crystal Growth (Nonlinear and Ferroelectric Materials), Thin Films

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	Xx	01
	M.Phil.	04	03
Project	PG	05	05
	UG / Others	Xx	Xx

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
37	06	Xx	21	Xx

Cumulative Impact Factor (as per JCR) :	26
h-index	: 08
i10 index	: 05
Total Citations	: 125

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.

Membership in

Professional Bodies

1. Life Member: Indian Physics Association, Life Membership No. GEN/LM/13173
2. Life Member: Indian Laser Association.

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

1. Member: Board of studies to frame M.Sc (Physics), M.Phil (Physics), Syllabi, Alagappa University.

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.

Papers Presented International Conferences

1. **S. Sudhahar**, M. Krishna Kumar, R. Mohan Kumar, 'Effect of Sm^{3+} 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.
2. **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.
3. **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 a Oral in International conference on Research, Perspectives and Procedures organized by SDNB Vaishnav College for Women, Chennai-44, during August 23-24, 2012.
4. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Growth and characterization of inorganic nonlinear optical Lithium sodium Sulfate hydrate single crystals', Participated and presented in International Conference on Advanced Materials ICAM 2012 held at Department of Physics, Loyola College, Chennai, January, 5-7, 2012.
5. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Crystal growth, X-ray diffraction, spectroscopic, Optical studies on 4-bromo-4'-N'-methylstilbazolium tosylate single crystals', Participated and presented in International conference: Research: Perspectives & Procedures held at SDNB Vaishnav college for Women, Chennai 23-24 August 2012.
6. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Investigation on Spectral, Thermal and Dielectric Properties of DAST Crystal', Participated and presented 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.

Papers Presented National Conferences

1. **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.
2. **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.
3. **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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.

10. 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.
11. M. Krishna Kumar, **S. Sudhahar**, R. Mohan Kumar, 'Synthesis, crystal growth and characterization of pi-conjugated stilbazolium 4-hydroxy-3-methoxy-4'- N'-methylstilbazolium 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.
12. **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.
13. **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.
14. 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.
15. S. Muniyasamy, M. Periyayaki, **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.
16. G. Parvathy, R. Krishna, S. Sivaranjani, **S. Sudhahar**, 'Synthesis, growth, structural, thermal and third order nonlinear optical studies of 2-phenyl-ethanaminium 3-carboxyprop-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.
17. S. Anusiya, G. Parvathy, M. Periyayaki, A. Savari Rajeev, **S. Sudhahar**, 'Synthesis, growth, structural and optical properties of 8-Hydroxyquinolinium p-hydroxybenzoate 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.
18. 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.

19. G. Parvathy, M. Periyanyaki, 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.
20. M. Periyanyaki, 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.
21. 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.

Events 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.
2. **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 20th DAE-BRNS National Laser Symposium (NLS-20), at Crystal Growth Centre, Anna University, Chennai-600025, during January 09-12, 2012.
4. **S. Sudhahar**, Participated in National conference on 'GREEN CHEMISTRY', held on 10th February 2012 at Department of Chemistry, Presidency College, Chennai.
5. **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
6. **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.
7. **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

	2017 (01)	
37	P. Sivakumar, C. Anzline, S. Sudhahar , S. Isreal, G. Chakkaravarthi	0.347
	2-Amino-3-methylpyridinium hydrogen phthalate	
	IUCr Data, Vol.2, pp.170422, 2017	
2016 (13)		
36	N. Swarna Sowmya, S. Sampathkrishnan, S. Sudhahar , M. Krishna Kumar, R. Mohan kumar	0.769
	Synthesis, growth, structural, optical, thermal, dielectric and mechanical studies of piperidinium p-nitrophenolate single crystals	
	Optik International Journal for Light and Electron Optics, Vol.127, pp.3024-3029, 2016	
35	K. Sathesh Kumar, P. Srinivasan, S. Sudhahar	0.769
	Effect of rare earth Nd ⁺ ion on the growth, structural, spectral, optical and mechanical properties of piperidinium p-hydroxybenzoate single crystals	
	Optik International Journal for Light and Electron Optics, Vol.127, pp.1087-1093, 2016	
34	P. Sivakumar, S. Sudhahar , S. Isreal, G. Chakkaravarthi	0.347
	2-Amino-4-methylpyridinium 4-hydroxybenzoate	
	IUCr Data, Vol.1, pp.161425, 2016	
33	P. Sivakumar, S. Sudhahar , S. Isreal, G. Chakkaravarthi	0.347
	Bis(2-amino-6-methylpyridinium) 3-nitrobenzene-1,2-dicarboxylate	
	IUCr Data, Vol.1, pp.161233, 2016	
32	P. Sivakumar, S. Sudhahar , S. Isreal, G. Chakkaravarthi	0.347
	2-Amino-4-methylpyridinium 2-(4-nitrophenyl)-acetate	
	IUCr Data, Vol.1, pp.161203, 2016	
31	P. Sivakumar, S. Sudhahar , S. Isreal, G. Chakkaravarthi	0.347
	2-Methylpyridinium 2-carboxy-6-nitrobenzoate	
	IUCr Data, Vol.1, pp.161104, 2016	
30	P. Sivakumar, S. Sudhahar , S. Isreal, G. Chakkaravarthi	0.347
	2-Amino-4-methylpyridinium 2-(3-methylphenyl)-acetate	
	IUCr Data, Vol.1, pp.161098, 2016	
29	G. Rajasekar, P. Vinothkumar, S. Sudhahar , G. Chakkaravarthi, A. Bhaskaran	0.347
	catena-Poly[[sodium-di-1-aqua-1-(boric acid)-1-succinato-sodium-di-1-aqua] boric acid monosolvate]	
	IUCr Data, Vol.1, pp.160948, 2016	
28	P. Sivakumar, A. Mani, S. Sudhahar , S. Isreal, G. Chakkaravarthi	0.347

	Piperazin-1-ium 4-aminobenzoate monohydrate	
	IUCr Data, Vol.1, pp.160819, 2016	
27	P. Sivakumar, S. Sudhahar , B. Gunasekaran, S. Isreal, G. Chakkaravarthi	0.347
	2-Methylpyridinium 2-carboxybenzoate-benzene-1,2-dicarboxylic acid (2/1)	
	IUCr Data, Vol.1, pp.160817, 2016	
26	S. Sudhahar , K. Sankaranarayanan, G. Ravi, R. Mohan Kumar, G. Chakkaravarthi	0.347
	3-Carboxy-2-(piperidin-1-ium-1-yl)propanate	
	IUCr Data, Vol.1, pp.160748, 2016	
25	P. Sivakumar, S. Sudhahar , S. Isreal, G. Chakkaravarthi	0.347
	2-Amino-6-methylpyridinium 2-hydroxybenzoate	
	IUCr Data, Vol.1, pp.160747, 2016	
24	P. Sivakumar, S. Sudhahar , S. Isreal, G. Chakkaravarthi	0.347
	4-Aminobenzoic acid–quinoline (1/1)	
	IUCr Data, Vol.1, pp.160604, 2016	
2015 (3)		
23	K. Sathesh Kumar, S. Ranjith, S. Sudhahar , P. Srinivasan, N. Ponnuswamy	0.347
	Crystal structure of piperazine-1,4-dium bis(4-aminobenzenesulfonate)	
	Acta Cryst. Vol.E71, pp.o1084-01085, 2015	
22	M. Krishna Kumar, P. Pandi, S. Sudhahar , G. Chakkaravarthi, R. Mohan Kumar	0.347
	4-(4-Bromostyryl)-1-methylpyridinium tosylate	
	Acta Cryst. Vol.E71, pp.o125-0126, 2015	
21	S. Sudhahar , I. MD Zahid, M. Krishna Kumar, G. Bhagavannarayana, R. Mohan Kumar	
	Crystalline perfection, birefringence and laser damage threshold properties of piperidinium p-hydroxybenzoate single crystals	
	AIP Conf. Proc. Vol.1665, pp.100011, 2015	
2014 (11)		
20	M. Krishna Kumar, S. Sudhahar , R. Mohan Kumar	
	Growth and Electrical Properties on NLO crystal: 4-N,N-Dimethylamino 4'-N'-methylstilbazolium Iodide	
	AIP Conf. Proc. Vol.1591, pp.1203-1205, 2014	
19	N. Swarna Sowmya, S. Sampathkrishnan, S. Sudhahar , G. Chakkaravarthi, R. Mohan kumar	0.347
	Crystal structure of Piperidinium 4-nitrophenolate	

	Acta Cryst. Vol.E70, pp.559-561, 2014	
18	N. Swarna Sowmya, S. Sampathkrishnan, S. Sudhahar , G. Chakkaravarthi, R. Mohan kumar	0.347
	Crystal structure of 2-Phenylethylaminium 4-nitrophenolate	
	Acta Cryst. Vol.E70, pp.o1280, 2014	
17	N. Swarna Sowmya, S. Sampathkrishnan, Y. Vidyalakshmi, S. Sudhahar , R. Mohan kumar	2.653
	Synthesis, growth, structural, thermal and optical studies pyrrolidinium-2-carboxylate-4-nitrophenol single crystals	
	Spectrochimica Acta Part A: Molecular and Biomolecular Materials, Vol.145, pp.333-339, 2014	
16	M. Krishna Kumar, S. Sudhahar , G. Bhagavannarayana, R. Mohan Kumar	2.653
	Crystal growth, spectral, structural and optical studies of p-conjugated stilbazolium crystal 4-bromobenzaldehyde-4'-N'-methylstilbazolium tosylate	
	Spectrochimica Acta Part A: Molecular and Biomolecular Materials, Vol.125, pp.79-89, 2014	
15	M. Krishna Kumar, S. Sudhahar , A. Silambarasan, B.M. Sornamurthy, R. Mohan Kumar	0.769
	Crystal growth, structural, linear and nonlinear optical studies of 4-methyl-4'-N'-methylstilbazolium tosylate single crystals	
	Optik International Journal for Light and Electron Optics, Vol.125, pp.751-755, 2014	
14	M. Krishna Kumar, S. Sudhahar , G. Bhagavannarayana, R. Mohan Kumar	0.769
	Crystal growth, structural and optical properties of an organic ion-complex crystal: 4-N,N-dimethylamino-4'-N'-methylstilbazolium iodide	
	Optik International Journal for Light and Electron Optics, Vol.125, pp.5641-5646, 2014	
13	S. Sudhahar , M. Krishna Kumar, P. Pandi, R. Mohan Kumar	0.769
	2-phenylethylammonium p-hydroxybenzoate: Growth, structural, spectral, thermal, optical and mechanical characterization	
	Optik International Journal for Light and Electron Optics, Vol.125, pp.4327-4332, 2014	
12	S. Sudhahar , M. Krishna Kumar, B.M. Sornamurthy, R. Mohan Kumar	2.653
	Synthesis, crystal growth, structural, thermal, optical and mechanical properties of solution grown 4-methylpyridinium 4-hydroxybenzoate single crystal',	
	Spectrochimica Acta Part A: Molecular and Biomolecular Materials, Vol.118, pp.929-937, 2014	
11	S. Sudhahar , M. Krishna Kumar, V. Jayaramakrishnan, R. Muralidharan, R. Mohan Kumar	2.267
	Effect of Sm ⁺ Rare Earth Ion on the Structural, Thermal, Mechanical and Optical Properties of Potassium Hydrogen Phthalate Single Crystals	
	Journal of Materials Science and Technology, Vol.30(1), pp.13-18, 2014	
10	M. Krishna Kumar, S. Sudhahar , P. Pandi, G. Bhagavannarayana, R. Mohan Kumar	2.183
	Studies of the structural and third-order nonlinear optical properties of solution grown 4-hydroxy-3-methoxy-4'-N'-methylstilbazolium tosylate crystals	

	Optical Materials, Vol.36, pp.988-995, 2014	
2013 (6)		
9	M. Krishna Kumar, S. Sudhahar , R. Mohan Kumar	
	Investigation on Spectral, Thermal and Dielectric Properties of DAST Derivative Crystal	
	AIP Conf. Proc. Vol.1536, pp.903-904, 2013	
8	S. Sudhahar , M. Krishna Kumar, B.M. Sornamurthy, G. Chakkaravarthi, R. Mohan Kumar	0.347
	2-phenylethanaminium 4-hydroxybenzoate	
	Acta Cryst. Vol.E69, pp.o792, 2013	
7	M. Krishna Kumar, S. Sudhahar , A. Silambarasan, G. Chakkaravarthi, R. Mohan Kumar	0.347
	4-(4-Bromostyryl)-1-methylpyridinium tosylate	
	Acta Cryst. Vol.E69, pp.o694, 2013	
6	S. Sudhahar , M. Krishna Kumar, B.M. Sornamurthy, G. Chakkaravarthi, R. Mohan Kumar	0.347
	4-Methylpyridinium 4-hydroxybenzoate	
	Acta Cryst. Vol.E69, pp.o279, 2013	
5	S. Sudhahar , M. Krishna Kumar, A. Silambarasan, R. Muralidharan, R. Mohan Kumar	
	Studies on Structural, Spectral, and Optical Properties of Organic Nonlinear Optical Single Crystal: 2-Amino-4,6-dimethylpyrimidinium p-Hydroxybenzoate	
	Journal of Materials, Vol.2013, Article ID 539312, pp1-7, 2013	
4	A. Silambarasan, M. Krishna Kumar, S. Sudhahar , A. Thirunavukkarasu, R. Mohan Kumar, P.R. Umarani	
	Synthesis, crystal growth and characterization of Bis DL-Valine picrate single crystal for second-order nonlinear optical applications	
	Journal of Molecular Engineering and Materials, Vol.1 pp.1350004, 2013	
2012 (3)		
3	S. S. Sudhahar , M. Krishna Kumar, R. Mohan Kumar	
	Investigation on rare earth doped nonlinear optical Potassium Hydrogen Phthalate (KHP) single crystals	
	Advanced Materials Research, Vol.584, pp.56-59, 2012	
2	M. Krishna Kumar, S. Sudhahar , A. Silambarasan, G. Chakkaravarthi, R. Mohan Kumar	0.347
	1-Methyl-4-(4-methylstyryl) pyridinium 4-methylbenzenesulfonate	
	Acta Cryst. Vol.E68, pp.o3268, 2012	
1	P. Pandi, G. Peramaiyan, S. Sudhahar , G. Chakkaravarthi, R. Mohan Kumar, G. Bhagavannarayana, R. Jayavel	2.653

	Studies on synthesis, growth, structural, thermal, linear and nonlinear optical properties of organic picolinium maleate single crystals	
	Spectrochimica Acta Part A: Molecular and Biomolecular Materials, Vol.98, pp.7-13, 2012	