



Dr.K.Sankaranarayanan
SENIOR PROFESSOR

Contact

Address : Alagappa University,
Karaikudi – 630003,
Tamil Nadu, INDIA.

EmployeeNumber : 11402

Contact Phone (Office) : 04565223301

Contact Phone (Mobile) : 9865493229

Contact e-mail(s) : hhrsankar@yahoo.com/sankaranarayanan@alagappauniversity.ac.in

Website : <https://www.alagappauniversity.ac.in/academics/faculty-of-science/school-of-physical-sciences/docs/11402.pdf>

Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph.D.	Alagappa University, Karaikudi	2006	Physics	Awarded, Highly Commended
Thesis Title	“Introduction Of Novel Crystal Growth Methods And Synthesis Of Indium Phosphide Polycrystalline Material”			
M.Phil.,	Madurai Kamaraj University, Madurai	1990	Physics	I
M.Sc.,	Madurai Kamaraj University, Madurai	1989	Physics	I

Teaching Experience: 29 years

Position	Institution	Duration	
Senior Professor	Alagappa University	20.02.2022	Till Date
Professor	Alagappa University	03.06.2011	19.02.2022
Reader/Associate Professor	Alagappa University	19.07.2006	02.06.2011
Lecturer	Alagappa University	03.02.1995	18.07.2006

PDF/ Visiting Professor: Abroad

Position	Institution	Duration
Visiting Scientist	Hebei Semiconductor Research Institute, Shijiazhuang, China.	One Week (29 to 02-11-2018)
Visiting Scientist	Hebei Semiconductor Research Institute, Shijiazhuang, China.	One Week (19 to 24-10-2014)
Visiting Professor	Research Institute of Electronics, Shizuoka University, Hamamatsu, Japan.	4Months (April, 2010-July, 2010)
Indo-China Bilateral Students Exchange Fellowship	Ministry of Human Resource Development, Govt. of India, New Delhi.	30months (1992-94)

Research Experience: 32 Years

Position	Institution / University	Duration
Faculty	Alagappa University	3/1995 – Till Date
Technical Assistant/Researcher	Crystal Growth Centre, Anna University	6/1994-2/1995
Research Scholar under Indo-China Bilateral Students Exchange Fellowship	Institute of Semiconductors, CAS, Beijing, China and Hebei Semiconductor Research Institute, Shijiazhuang, China	2/1992-6/1994
Technical Assistant/Researcher	Crystal Growth Centre, Anna University	1/1991-1/1992

Academic and Additional Responsibilities

S.No	Position	UniversityBodies	Period	
			From	To
1	Member of Syndicate	Alagappa University	10.01.2020	09.01.2023
2	Dean	Faculty of Science, Alagappa University	27.12.2018	11.02.2020
3	Director	University Science Instrumentation Centre, Alagappa University	02.01.2017	Till Date
4	Co-Ordinator,	IPR Cell	01.06.2016	31.05.2018
5	Chairperson	School of Physical Sciences, Alagappa University	18.06.2015	31.05.2019
6	Co-Ordinator,	Competitive Exam Coaching Cell	01.06.2011	31.05.2016

Areas of Research

1. Materials Science
2. Crystallization kinetics of organic and inorganic materials.
3. Unidirectional growth of bulk organic and inorganic crystals.
4. III-V Semiconductor materials – synthesis and growth.

Patents Filed

1. “A System for Growing a Unidirectional Organic Single Crystal Compound and Method Thereof”
Appl.No. 201641011210, Date:30.3.2016. PO Journal No. 50/2017 Dated 15/12/2017-P49635. Granted: 379274.
2. “Development of a novel material CuCdS as a UV Sensor”.
Appl.No. 693/CHE/2010. Dt.10.2.2011 Publication Date: 15.06.2012 / PO Journal No. 24/2012/Page:113

Research Supervision/Guidance

ProgramofStudy		Completed	Ongoing
Research	PDF	1	--
	Ph.D	7	2
	M.Phil	43	--
Project	PG	56	2
	UG/ Others	--	--

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books/Chapters/Monographs/Manuals
92	40	--	40	3

Cumulative Impact Factor (as per JCR) : 280

h-index : 24

i10 index : 49

Total Citations : 1892

Funded Research Projects

Ongoing Projects:

S.No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	TANSICHE	2021	2024	Developing Zero Waste Management Technology adapted to Karaikudi As Co-PI	50.94
2	DST-SERB	2020	2023	Bulk Unidirectional Growth of Organo Metallic Trihalides (MAPbX ₃ , X=Br and Cl) perovskites Single Crystals for High Energy Radiation Detectors as PI	42.4
3	RUSA 2.0	2019	2024	Advanced Nano Materials for Sustainable Energy and Sensors Applications	10.0

Completed Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	DBT	2015	2018	Purification, Characterization, Functional Analysis and Structural elucidation of pattern recognition molecule β -1,3-glucan-binding protein and antimicrobial peptides from crustaceans	57.9

2	Alagappa University	2009	2011	Unidirectional Crystallization of Pure and Metal ion doped KDP crystal for SHG application.	0.64
3	DRDO	2004	2007	"Growth of ZnO Single Crystals and Preparation of Polished Wafers for Nitride Epitaxy"	18.00
4	DST	2001	2002	"Production of Indium Phosphide Polycrystalline: An advanced III-V compound semiconductor material"	13.86
5	CSIR	1998	2000	"Growth of NLO Single Crystals by Low Temperature solution growth technique"	3.18
6	AICTE	1996	1998	"Development of Indigenous Technology to Synthesize Indium Phosphide"	2.00

Other Fund Received as Research Mentor:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC-SAP (DRS-III)	2015	2020	Preparation of crystals, Thin films and Battery materials for devices	105
2	DST-FIST Level II	2015	2020	Growth and study of different metal oxide thin films for gas sensors and memory devices	144

Distinctive Achievements / Awards

1. **Outstanding Research Award** – 2022 by Alagappa University.
2. **Certificate of Appreciation** – TBRP RUSA 2.0 by Alagappa University.
3. **Vallal Alagappan Research Recognition Award 2020** by Alagappa University
4. **Leadership for Academicians Programme (LEAP)** by DST during 8 to 21st, 2019 and 20th to 24th January 2020 at IIT(BHU), Varanasi and University of Cambridge, UK.
5. A Ph.D thesis entitled "Unidirectional growth of organic scintillators", supervised by me was awarded with "**National Award for Best Thesis in Crystal Growth**" by Indian Association of Crystal Growth, 2019.

6. **Visiting Scientist (29-10-2018 to 02-11-2018)** – Hebei Semiconductor Research Institute, Shijiazhuang, China.
7. **Visiting Scientist (19-10-2014 to 24-10-2014)** – Hebei Semiconductor Research Institute, Shijiazhuang, China.
8. **Visiting Professor (April, 2010-July, 2010)**– Research Institute of Electronics, Shizuoka University, Hamamatsu, Japan.
9. **Best Researcher Cash Award (2005-2006)**, Alagappa University, Karaikudi
10. **Prof.P.Ramasamy National Award for Crystal Growth (2005)** by Indian Association for Crystal Growth, Anna University, Chennai.
11. **Young Scientist Fellowship(1995-96)** by Tamil Nadu State Council for Science and Technology, Govt. of Tamil Nadu, Chennai, India.
12. **Indo-China Bilateral Students Exchange Fellowship(1992-93)** by Ministry of Human Resource Development, Govt. of India, New Delhi.

Research Achievements:

- ❖ Five research papers were listed among **TOP 25 most downloaded** articles in the year 2004 - 2006.
- ❖ One of the key team members in the Growth of India's first bulk unidirectional 2" dia. Indium Phosphide Single Crystal by LEC technique in the year 1991 and grown several 2" dia., 1Kg GaAs and Si bulk single crystals using High Pressure Crystal Puller manufactured by M/S Cambridge Instruments, UK.
- ❖ Introduction of a new etchant in the literature to reveal the subsurface damages in the polished GaAs wafers.
- ❖ Introduction of novel crystal growth methods namely **Microtube-Czochralski Technique (μ T-CZ)** to grow single crystals without pre-grown seed and **Uniaxially Solution - crystallization Method of Sankaranarayanan and Ramasamy (SR)*** to grow unidirectional crystals at room temperature from solution.
- ❖ A research paper regarding the Microtube-Czochralski Technique (μ T-CZ) was republished as a News Item in the International journal "Current Science" published by Indian Institute of Science, Bangalore, India.
- ❖ Growth of India's first large size, 650mm length and 55mm diameter unidirectional benzophenone crystal using Sankaranarayanan – Ramasamy (SR) Method at room temperature.

***Research Papers Published under this title in International Journals – 220, Major Research Projects Sanctioned by Govt. of India under this title – 12Nos. to a tune of Rs.2.4 Crore.**

Number of Seminars / Conferences / Workshops / organized:

1. A special Lecturer on Construction of Biologically Interesting Aromatics via Benzannulation, 26th February 2024.

2. A special program entitled “Psychology Based Performance Evaluation for Students”, 16th February 2024.
3. One day Workshop on Electrochemistry, 10th November 2023.
4. 25th National Seminar on Crystal Growth and Applications 2023, 21-23 June 2023.
5. South India Physics Students Congress on “Lightening the initiatives taken by Physicist thus far”, 24-25 March 2023.
6. National Theme Meet on University- Industry Interface 2022, 22nd March 2022.
7. UGC Sponsored International Virtual Conference on Recent Trends in Advanced Materials (INCRTEM-2020), 9-11 September 2020.
8. One Day International Webinar on Advances in Materials Science, 10 June 2020.
9. International Conference On Advanced Materials For Sustainable Energy And Sensors (INCAMSES-2019), 16-17 September 2019.
10. National Conference on Advanced Materials for Sustainable Energy and Sensors (NCAMSES-2019), 20-22 March 2019.
11. International Conference on Momentous Role of Nanomaterials in Renewable Energy Devices, 1-2 March 2018.
12. Business Oriented Analytical Research and Development, 31 January 2018.
13. National Theme Meet on University to Industry Interface -2017 (NTM U2I-2017), 20-21 September 2017.
14. UGC Sponsored National Conference on Futuristic Materials (NCFM-2017), 27-28, March 2017.
15. Business Oriented Hands-on Training on Analytical Instrumentation (HI-BOAT-2017), 2-3, March 2017.
16. National Seminar on Advanced Materials Research, Alagappa University, January 19, 2017.
17. National Seminar on Recent Developments in Frontier areas of Materials Science, Alagappa University, March 23-24, 2016.
18. Second National Workshop on Characterization Techniques at Alagappa University, Karaikudi during 21st -23rd March, 2013.
19. First National Workshop on Characterization Techniques at Alagappa University, Karaikudi during March 24 & 26th March, 2012.
20. National Workshop on Crystal Growth and Characterization (NWCGC-09) at Alagappa University, Karaikudi during 16th March 2009.

21. National Workshop on Recent Advancements in Materials Science (NWRAMS-08) at Alagappa University, Karaikudi during 7th March 2008.

Events Participated

Number of Conferences/Seminars/Workshops: 40

Overseas Exposure/Visits

Visited China (1992-93, 2005, 2008, 2014, 2018) and Japan (2010) in related to research collaboration and as a visiting scientist/Professor.

Membership

Professional Bodies

1. Fellow of Bose Science Society-F556A/BSS/2019
2. Life Member in Society for Advancement of Electrochemical Science and Tech.- LF201801125
3. Life Member in Indian Society of Atomic and Molecular Physics, - MNo.1593
4. Life Member in Materials Research Society of India, - LMB2486
5. Life member in Indian Physics Association, - GEN/LM/13167
6. Life member in Indian Crystal Growth Association

Advisory Board

Year/Period	Name of the BoS/Administrative Committee / Academic Committee	Role
2023-Till Date	Indian Association of Crystal Growth	Executive Council Member
2021-Till Date	Star College – Strengthening UG Component Scheme by DBT, V.H.N.S.N.College, Virudhunagar	Member

Academic Bodies in Other Institutes/Universities

Year/Period	Name of the BoS/Administrative Committee / Academic Committee	Role
	<ol style="list-style-type: none"> Board of Studies-Member, Dept. of Physics, Alagappa University Board of studies – M.Sc Physics-A.N.J.A.College, Sivakasi Board of Studies –UG and PG (Electronics), M.S.University, Tirunelveli. Board of Studies-UG/PG, Periyar University, Salem Board of Studies PG – Annamalai University Board of Studies PG Electronics-MK University Doctor Committee, VIT-Vellore, Anna University-Chennai, NIT-Trichy, University of Madras, Chennai, SASTRA University, Tanjore 	Member

Editorial Board

- Editorial Board - Member, Journal “Sadhana”- V.H.N.S.N.College, Virudhunagar
- Editorial Board – Member, ANJAC Journal, A.N.J.A.College, Sivakasi

Ph.D. Thesis Guided

- No.ofPhDThesis evaluated : 21
- No.ofPhDPublic VivaVoceExaminationconducted : 19

Sl. No	Name of the Scholar	Title of the Thesis	Year of Completion
1	S.Adheeshwaran	Development and Electrochemical Evaluation of PVDF Based Fluoropolymer Membranes for Lithium Ion Battery Applications	2023
2	Ar. Pandimurugan	Microwave Assisted Chemical Bath Synthesis of Ceramic Materials	2022
3	S. Dhatchayani	Preparation of Hydroxyapatite Based Composites for Photocatalytic and Anticancer Activities	2022
4	N.Sarala	Synthesis and Characterization of PbSO ₄ and its Analogous Materials	2020
5	K.Bhavani	Crystallization and Characterization of Some biologically Essential Drug Materials	2018
6	V.Govindan	Unidirectional Growth and Characterization of Organic Single Crystals	2018
7	T. Prem Kumar	Fabrication and Evaluation of Novel Optical Materials	2010

List of Research Articles / Recent Publications

Sl. No.	Title/Authors/Journal	Impact Factor	Year
1	Understanding the Electrochemical Performance of Spongy C-F Derivative Chains as an Effective Anion Trapping Composite Matrix for Li-ion Batteries. Aadheeshwaran Saminathan, Devadharshini Amudhasagar, Soundarrajan Elumalai, Pretencia Leonard Joseph, Raghu Subashchandrabose, Sankaranarayanan Krishnasamy ACS Sustainable Chemistry and Engineering.	8.2	2024
2	Hydrothermal synthesis of La ₂ O ₃ -ZnO nanocomposites as electrode material for asymmetric supercapacitor applications Z Mohamed Riyas, M Ramesh Prabhu, K Sankaranarayanan Journal of Materials Science: Materials in Electronics 34 (22), 1612	2.8	2023
3	Synthesis and luminescence properties of Ca ₃ Ga ₄ O ₉ : Eu ³⁺ : An efficient red-emitter for WLEDs V Govindan, A Raja, GM Das, DJ Daniel, RR Kumar, ... Ceramics International 49 (11), 17566-17576	5.2	2023
4	Comparative Study on Structural, Mechanical, Optical and Dielectric Properties of l-Alanine Cadmium Chloride and Manganese l-Alanine Cadmium Chloride Crystal TR Kumar, M Queen, KC Bright, R Ilangovan, K Sankaranarayanan Chemistry Africa, 1-8	2.6	2023
5	Tailoring of Ag ₃ PO ₄ -Anchored Hydroxyapatite Nanophotocatalyst with Tunable Particle Size by a Facile Ion-Exchange Method for Organic Textile Dyes ... S Dhatchayani, K Sankaranarayanan, K Kathiresan Journal of Nanomaterials 2023	3.79	2023
6	Synthesis, properties and antibacterial activity of Ca doped Zn ₂ SnO ₄ nanoparticles by microwave assisted method AR Pandimurugan, GV Prasath, KS Usha, J Vivekanandan, C Karthikeyan, ... Applied Physics A 129 (2), 154	2.7	2023
7	Probing the energy conversion and storage process in two dimensional layered bismuthene-hexagonal boron nitride nanocomposite electrode and PVA-KOH-BaTiO ₃ piezoelectrolyte ... G Maheshwaran, MR Prabhu, G Ravi, K Sankaranarayanan, S Sudhahar Nano Energy 106, 108060	17.6	2023
8	Antibacterial and photocatalytic activity of ZnO, SnO ₂ and Zn ₂ SnO ₄ nanoparticles prepared by Microwave assisted method AR Pandimurugan, K Sankaranarayanan Materials Technology 37 (8), 717-727	3.1	2022
9	Green synthesis of silver oxide nanoparticles using Panicum miliaceum grains extract for biological applications K Velsankar, G Parvathy, K Sankaranarayanan, S Mohandoss, ... Advanced Powder Technology 33 (7), 103645	5.2	2022

10	One-pot microwave synthesis of SnSe and Lanthanum doped SnSe nanostructure with direct Z scheme pattern for excellent photodegradation of organic pollutants V Govindan, L Kashinath, GV Geetha, M Senthilpandian, P Ramasamy, ... Ceramics International 48 (9), 12228-12239	5.2	2022
11	Experimental and theoretical studies on new 2-amino-6-methylpyridinium 2, 4-dihydroxybenzoate monohydrate organic single crystal for second order nonlinear optical applications R Kaliammal, G Parvathy, G Maheshwaran, VK Devi, MK Kumar, ... Journal of Molecular Structure 1254, 132330	3.8	2022
12	Experimental and theoretical evaluation of a novel organic proton transfer crystal p-Toluidinium 5-chloro-2-hydroxybenzoate for third order nonlinear optical applications G Parvathy, R Kaliammal, VK Devi, AN Bharathi, G Vinitha, ... Chinese Journal of Physics 75, 76-89	5.0	2022
13	Electrochemical behavior of BaTiO ₃ embedded spongy PVDF-HFP/ cellulose blend as a novel gel polymer electrolyte for lithium-ion batteries S Aadheeshwaran, K Sankaranarayanan Materials Letters 306, 130938	3.0	2022
14	Physicochemical and computational perspectives of 8-hydroxyquinoline 5-chloro-2-hydroxybenzoic acid: a novel second-order nonlinear optical crystal G Parvathy, R Kaliammal, K Velsankar, V Mohankumar, ... Applied Physics A 127, 1-12	2.7	2021
15	Piperazinium bis (5-chlorosalicylate)—A new third order nonlinear optical single crystal G Parvathy, R Kaliammal, K Velsankar, G Vinitha, K Sankaranarayanan, . Journal of Molecular Structure 1228, 129728	3.8	2021
16	Fluoropolymer/ceramic matrix as a polymer electrolyte in Li-ion batteries: a case study on the influence of polyether into PVdF/BaTiO ₃ matrix via immersion ... S Aadheeshwaran, K Sankaranarayanan, V Ganesh Ionics 27, 607-617	2.8	2021
17	Crystal growth, structural, optical, thermal, and mechanical properties of new bis (2-amino-6-methyl pyridinium barbiturate) tetrahydrate organic single crystal for nonlinear ... R Kaliammal, G Parvathy, G Maheshwaran, K Sankaranarayanan, ... Chinese Journal of Physics 68, 436-460	5.0	2020
18	Effect of curcumin sorbed selenite substituted hydroxyapatite on osteosarcoma cells: An in vitro study S Dhatchayani, S Vijayakumar, N Sarala, B Vaseeharan, ... Journal of Drug Delivery Science and Technology 60, 101963	5.0	2020
19	Studies on structural, optical, homo-lumo and mechanical properties of piperazinium p-hydroxybenzoate monohydrate single crystal for nonlinear optical applications G Parvathy, R Kaliammal, K Velsankar, MK Kumar, K Sankaranarayanan, Chemical Physics Letters 758, 137934	2.8	2020
20	Growth, experimental and theoretical investigations on 4-hydroxy-3-methoxybenzaldehyde 5-chloro-2-hydroxybenzoic acid: a new high second order	3.8	2020

	nonlinear optical material G Parvathy, R Kaliammal, K Sankaranarayanan, M Arivanandhan, ... Journal of Molecular Structure 1217, 128406		
21	Enhanced structural, optical and antibacterial activities of Zn ₂ SnO ₄ nanorods synthesized by Microwave assisted method A Pandimurugan, S Krishnasamy International Journal of Nano Dimension 11 (4), 355-363	1.5	2020
22	Structural, Optical, Magnetic and Antibacterial Properties of Transition Metal Ions (Ni, Ca, And Fe) Doped ZnO Nanoparticles Prepared by Single-Step Method AR Pandimurugan, K Sankaranarayanan Journal of Advanced Scientific Research 11 (03), 312-322	-	2020
23	Physicochemical and DFT studies on new organic Bis-(2-amino-6-methylpyridinium) succinate monohydrate good quality single crystal for nonlinear optical applications R Kaliammal, S Sudhahar, G Parvathy, K Velsankar, ... Journal of Molecular Structure 1212, 128069	3.8	2020
24	Electrochemical, structural, compositional and optical properties of Cuprous Selenide thin films S Thanikaikarasan, D Dhanasekaran, K Sankaranarayanan Chinese Journal of Physics 63, 138-148	5.0	2020
25	Unidirectional growth of pure and composite t-stilbene single crystals for scintillator applications V Govindan, DJ Daniel, PQ Vuong, K Sankaranarayanan, HJ Kim Journal of Crystal Growth 531, 125344	1.8	2020

Resource persons in various capacities

National Conferences	:	40
International Conferences	:	30
Invited Lectures	:	50

List of Publications By Different Authors (2005-Till Date)

Sl. No	Title of the Paper	Authors	Journal Name, Volume, Year, Page number
202	Comparative investigation on slow evaporation solution technique and Sankaranarayanan-Ramasamy (SR) method semi-organic PiperaziniumTetrachlorozincate Monohydrate (PTCZM) single crystal for optoelectronic applications	B Sahaya Infant Lasalle, Muthu Senthil Pandian, P Karuppasamy, V Sivasubramani, P Ramasamy	Journal of Materials Science: Materials in Electronics, Volume 35, Issue 3 Pages 242, 2024/1
201	Acoustic shock wave-induced ordered to disordered switchable phase transitions: A case study of ferroelectric triglycine sulphate single crystal for the application of molecular switches	A. Sivakumar, Lidong Dai, S. Sahaya Jude Dhas, S.A. Martin Britto Dhas, P.T.C. Freire, Raju Suresh Kumar, Abdulrahman I. Almansour	Journal of Solid State Chemistry, Volume 332, April 2024, 124552
200	Growth of high quality KADP mixed crystals grown by conventional and sankaranayanan-ramasamy (SR) methods for nonlinear optical applications	T.S. Franklin Rajesh, S. Sahaya Jude Dhas, A. Stephenraj, R. Senthamizhselvi, Sivakumar Aswathappa, Raju Suresh Kumar, Abdulrahman I. Almansour	Optical Materials, Volume 149, March 2024, 115058
199	Comprehensive realization of the crystal growth perfection of the uni-indexed, bi-indexed and tri-indexed planes of single crystals grown by unidirectional technique- A case study on potassium dihydrogen phosphate	Sivakumar Aswathappa, Lidong Dai, Sahaya Jude DhasSathiyadhas, Martin Britto DhasSathiyadhasAmalapushpam, Raju Suresh Kumar, Abdulrahman I. Almansour	Journal of Molecular Structure, Volume 1303, 5 May 2024, 137613
198	Optimizing optical and antimicrobial properties of europium-doped copper sulphate pentahydrate crystal via unidirectional growth and characterization	P. Madhuri Santhoshi, P. Tirupathi Rao, Sk. Esub Basha, B. Mallikharjuna, R.K. Ramachandra	Journal of Molecular Structure, Volume 1295, Part 2, 5 January 2024, 136767
197	Investigation of Physiochemical Impact of Organic Molecule L-Lysine on Ammonium Dihydrogen Phosphate Single Crystal for Optoelectronics Applications	Shruti Patle, Dinesh Rotake and Kishor Rewatkar	Electrochem 2023, 4(2), 255-272
196	Effect of gamma irradiation on the mechanical and electrical properties of the MMTC single crystal	X. Vasanth Winston; M. Vimalan; R. Jayaraman; T. Rajesh Kumar	AIP Conference Proceedings Volume 2770, Issue 1, 31 May 2023
195	Sankaranarayanan-Ramasamy (SR) technique L- threonine lithium chloride single crystal: Unidirectional growth, optical and mechanical studies	K. Parasuraman, C. Inmozhi, T. Thilagavathi, M. Kumar, M.E. Raja Saravanan, R. Uthrakumar	Materials Today: Proceedings, Available online 25 May 2023 doi.org/10.1016/j.matpr.2023.05.288
194	Idiosyncratic photoluminescence of europium added sulfamic acid single crystal a potential NLO material for optoelectronics and devise applications	B. Brahmaji, P. Viswarupachary, N. Sivaganga Kumari, L. Santosh Kumar, K. Ramchandra Rao	Journal of Luminescence Volume 257, May 2023, 119649
193	Effect of some hydroxyl additives on the growth and optical properties of KDP crystals	Vinh Trung Phan, Khanh Duy Nguyen, Hung Vu Tuan Le	Journal of Crystal Growth, Volume 587, 1 June 2022, 126643.
192	Improvement of optical properties of KDP crystals by borax additive	Vinh Trung Phan, Khanh Duy Nguyen, Dong Tran Nguyen, Tuan Vo Anh Le, Trung Vo Viet Nguyen, Hung Vu Tuan Le	Optical Materials, Volume 124, February 2022, 112014

	Study of the Crystalline Perfection, Homogeneity, Chemical Etching on the Surface, and Third-Order Nonlinear Optical Properties of (1 1 0) Oriented Hydroxyethylammonium D-Tartrate Monohydrate Single Crystal and Hirshfeld Surface Analysis	Mohamad Asikali Abdul Hakkim, Rajesh Paulraj, Chinnasami Sidden, Ramasamy Perumalsamy	Crystal Research Technology Volume57, Issue12, December 2022, 2200113
191	Growth of Large Size Triphenylphosphine Oxide 4-Nitrophenol (TP4N) Single Crystal by Sankaranarayanan–Ramasamy (SR) method for Third Order Nonlinear Optical Applications	T Kamalesh, P Karuppasamy, Muthu Senthil Pandian, P Ramasamy, Sunilverma	Chinese Journal of Physics Volume 76, March 2022, Pages 68-78
190	Immersing ampoule Sankaranarayanan–Ramasamy (ISR) method: Unidirectional high-quality single crystal growth	P.Karuppasamy, T.Kamalesh, Muthu Senthil Pandian, P.Ramasamy, Sunil Verma	Journal of Crystal Growth, 577, 1 January 2022, 126401
189	FTIR spectral analysis of glycine doped ammonium dihydrogen phosphate (ADP) crystal	A Z Khan, Z S Khan, S Patle, K G Rewatkar and S Zodape	J. Phys.: Conf. Ser. 1913 (2021) 012028
188	Investigation on unidirectionally grown < 010 > potassium acid phthalate single crystal by Sankaranarayanan–Ramasamy (SR) method for optical applications	Manju Kumari, N. Vijayan, Debabrata Nayak, Kiran, J. S. Tawale, Preetam Singh & R. P. Pant	Applied Physics A volume 127, Article number: 780 (2021)
187	Growth of Technologically Significant bulk Crystals by Unidirectional S-R Method: A Review	Gershom Jebaraj.P, Vijila Gnanaselvi.G, Sivashankar.V Helina.B, Anuradha.G.V	International Journal of ChemTech Research 14(1), 2021, pp 229-236 ISSN: 0974-4290
186	An Investigation on Thermophysical and Dielectric Properties of Ammonium Dihydrogen Phosphate Single Crystal for Opto-electronic Device Applications	J. Thirupathy	International Journal of Thermophysics. 42 (2021) 41
185	Growth, ultraviolet-visible, vibrational, photoluminescence and second harmonic generation studies of Amaranth and EDTA co-doped KDP crystals	Vinh Trung Phan, · Trang Thuy Phuong Do, · Dat Tat Nguyen, Khanh Duy Nguyen, · Thuy Thi Ngoc Vo, · Anh Thi Quynh Le, Dat Thanh Huynh	Optical and Quantum Electronics 53 (2021) 52
184	Investigation on the Bulk Crystal Growth, Crystalline Perfection, Refractive Index and Piezoelectric Properties of Borate Single Crystals for Piezoelectric and Electro-Optic Applications	Chinnasami, S., Rajesh Paulraj, and P. Ramasamy	Chinese Journal of Physics, 72 (2021) 616-627
183	Unidirectional growth, optical and dielectrical behavior of Nicotinium p-Toluenesulfonate crystal for optoelectronic applications	V. Thayanithi, P. Praveen Kumar	Materials Letters 285 (2021) 129189
182	Unidirectional crystal growth of L-alanine doped triglycine sulphate crystals along [010] polar direction in ferroelectric and paraelectric temperature ranges, and their comparative characterizations	Muthu Senthil Pandian, Sunil Verma, P. Karuppasamy P.Ramasamy, V.S. Tiwari, A. K. Karnal	Materials Research Bulletin 134 (2021) 111118
181	Device-relevant properties of [010]-oriented undoped TGS single crystals grown above and below the phasetransition temperature	Muthu Senthil Pandian,, Sunil Verma, P. Karuppasamy, P. Ramasamy, V. S. Tiwari , and A. K. Karnal	J Mater Sci: Mater Electron 16 May 2021

180	Growth of Technologically Significant bulk Crystals by Unidirectional S-R Method: A Review	Gershom Jebaraj.P, Vijila Gnanaselvi.G, Sivashankar.V, Helina.B, Anuradha.G.V	International Journal of ChemTech Research 14 (2021) 229-236
179	Effect of Xylenol orange on the crystalline perfection, optical, piezoelectric and NLO behavior of unidirectionally grown imidazolium L-Tartrate single crystal	Chinnasami, S., P. Rajesh, R. Bhatt, Indranil Bhaumik, P. Ramasamy, and A. K. Karnal	Chinese Journal of Physics, 67 (2020) 135-146
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73	Unidirectional growth of L-lysine L-lysine dichloride nitrate (L-LLDN) single crystal by SR method.	V.Vasudevan R.Ramesh babu K.Ramamurthi	Physica B Condensed Matter 406(2011) p936-940

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71	Unidirectional growth linear and nonlinear optical, dielectric and mechanical properties of organic adduct of L-Tartaric acid nicotinamide.	P.Ramesh Kumar R.Gunaseelan S.Kumararaman G.Baghavannarayana P.Sahayaraj	Physica B Condensed Matter 406 (2011) p1204-1210
70	Unidirectional growth of organic nonlinear optical L-Arginine maleate dehydrate single crystal by SR method and its characterization.	Urit Charoen –In P.Ramaswamy P.Manyum	Journal of Crystal Growth 318(2011) p745-750
69	Studies on conventional and Sankaranarayanan-Ramaswamy(SR) method grown ferroelectric Glycine phosphate(GPI)single crystal.	M.Senthilpandian N.Pattanaboonmee P.Ramaswamy P.Manyum	Journal of Crystal Growth 314(2011) p207-212
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67	A comparative study on pure,L-Arginine and Glycine doped ammonium Dihydrogen Orthophosphate single crystal grown by slow solvent evaporation and temperature-gradient method	N.Pattanaboonmee P.Ramasamy R.Yimmirun P.Manyuma	Journal of Crystal Growth 314(2011) p196-201
66	Unidirectional growth, structural, optical and mechanical properties of LTA crystal	G.Bahagavannarayan P.Ramesh Kumar, P.SagayarajR.Gunaseelan,S.Kumararman	Materials Chemistry And Physics 125-(2011)p15-19
65	Comparative study on Bis-thiourea cadmium acetate crystal using HRXRD, etching, microhardness, UV-visible and dielectric characterization	V.Ganesh Ch.SnehalathaReddy Mohd.Shakir M.A.Wahab	Physica B Condensed Matter 406(2011)p 259-264
64	Unidirectional growth of L-Cysteine hydrochloride monohydrate:first time observation as nonlinear optical material and its characterization	G.Bahagavannarayan Suman Kumar, Mohd shakir S.K.Kushwaha, K.K.Maurya Rajni Maalhotra S.K.Kushawaha	J.Appl.Cryst.(2010)43, p710-715
63	Studies on barium Bis-para-nitrophenolate para-nitrophenol tetrahydrate NLO single crystal by unidirectional growth method.	R.Utharakumar C.Vesta, S.Jerome Das M.Jose, K.Sugandhi S.Krishnan	Physica B Condensed Matter 405(2010)p3371-3375
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61	Investigations on growth morphology bulk grown and crystalline perfection of L-Threonine,an organic nonlinear optical material	Mary Linet S.Jerome Das	Physica B Condensed Matter 405(2010)p 3955-395
60	Spectral, optical and mechanical studies on L-Histidine hydrochloride monohydrate (LHC) single crystal grown unidirectional growth technique	R.Robert C.Justin Raj S.Krishnan R.Utharakumar S.Dinakaran, S.Jerome Das	Physica B Condensed Matter 405(2010) p3248-3252

59	Investigations for obtaining enhanced SHG element KH ₂ PO ₄ crystal	S.Dinakaran Sunil verma S.Jerome das, S.Kar,P.K.Gupta, K.S.Bartwal	Physica B Condensed Matter 405(2010) p1809-1812
58	Influence of forced convection on unidirectional growth of crystal	S.Dinakaran, Sunil verma S.Jerome das, S.Kar K.S.Bartwal, P.K.Gupta	PhysicaB : Condensed Matter 405(2010) p3919-3923
57	Growth, structural, spectral, mechanical and optical properties of pure and metal ions doped Sulphamic acid single crystal	R.Ramesh Babu, R.Ramesh R.Gopalakrishnan G.Bhagavannarayana K.Ramamurthi	Spectrochemica Acta Parta 72 (2010)p470-475
56	Comparative study on K-Alaninium maleate single crystal grown by SR method and conventional slow evaporation solution technique	Urit charoen-in, P.Ramasamy P.Manyum	Journal of Crystal Growth312(2010) p2369-2375
55	Unidirectional growth L-Asparagine monohydrate single crystal: First time observation of NLO nature and other studies of crystalline perfection optical, mechanical and dielectric properties	Mohd. Shakira K.K. Maura V.Ganesh G.Bhagavannarayana B.Riscob K.K. Maura	Journal of Crystal Growth 312(2010) p3171-3177
54	Unidirectional growth of L – Proline Cadmium Chloride monohydrate single crystal and its characterization for structural, vibrational, LDT optical and dielectric properties	Mohd. Shakira S.K. Kushwaha K.K. Maura R. C. Bhatta Rashmi C G.Bhagavannarayana	Materials Chemistry And Physics 120(2010) p566
53	Unidirectional growth of <101> Glycine Zinc Chloride single crystal by SR method	D. Nagaraju, P.V. Rajasekar T. Bhaskar Rao K. Krishna Rao	Materials Letters 64 (2010)p267-270
52	Influence of NH ₄ Cl on the <100> directed growth and properties of ADP crystal	P.Rajesh P.Ramasamy	Materials Letters, 64 (2010) p798-801
51	Comparative study on L-Asparagine monohydrate doped ADP crystals.	P.Rajesh P.Ramasamy	Physics:B Condensed Matter. 405(2010)p1287-1293
50	Growth of <100> directed ADP crystal with slotted ampoule	P.Rajesh, P.Ramasamy G.Bhagavannarayana Binay kumar	Current Applied Physics 10 (2010) p1221-1226
49	Bulk crystal growth and characterization of nonlinear optical Bisthiourea Zinc Chloride single crystal by unidirectional growth method	R. Uthra kumar C. Vesta C. Justin Raj S. Krishnan S. Jeromedas	Current Applied Physics, 10 (2010) p548-552
48	Growth, theoretical and optical studies on Potassium dihydrogen phosphate(KDP) Single crystal by SR method	R.Robert C.Justinraj S.Krishnan S.Jerome das	Physica B Condensed Matter 405(2010)p20-24
47	Unidirectional growth of Sulphamic acid single crystal and its quality analysis using etching, microhardness HRXRD, UV-Visible and Thermogravimetric-Differential thermal characterizations	M.Senthil Pandian Urit chararoen In P.Ramasamy PrapunManyum M.Lennin N.Balamurugan	Journal of Crystal Growth 312 (2010) p397-401
46	Unidirectional growth of<101> Glycine zinc chloride single crystal by SR method	D.Nagaraju, P.V.Rajasheker T.Baskara Rao K.Krishna Rao	Materials Letters, 64 (2010) p267
45	Conventional slow evaporation and SR method grown Diglycine zinc chloride(DGZC) single crystal and its comparative study	M.Senthilpandian P.Ramasamy	Journal of Crystal Growth, 312(2010) 413-419

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41	Growth, optical, mechanical, dielectric and theoretical studies on Potassium Pentabouratetetrahydrate(KB508.4H ₂ O) Single crystal by modified SR method.	C.Justin raj, S.Krishnan, S.Dinakaran, J.Marylinet R.Uthrakumar, R.Robert S.Jeromedass	J.Mater.Sci.Technol., 25 No.6 (2009) p745-748
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38	A study on optical, thermal, mechanical, dielectric, and NLO behavior of unidirectional Ammonium dihydrogen phosphate crystals	P.Rajesh P.Ramasamy	Materials Letters, 63 (2009) 2260
37	Optical, dielectric and microhardness studies on<100> directed ADP crystal	P.Rajesh P.Ramasamy	Spectrochimica Acta Part A:Molecular and Biomolecular Spectroscopy,74 (2009) 1493
36	Growth of DL-Malic acid doped Ammonium dihydrogen phosphate crystal and its characterization	P.Rajesh P.Ramasamy	Journal Of Crystal Growth, 311(2009) 3491
35	Growth of a bulk organic single crystal of Benzoylglycine by unidirectional crystal growth method.	S.Dinakaran Sunil Verma C.Justinraj, J.Mary Linet S.Krishnan, S.Jerome Das	Crystal Growth & Design (2009), 9(1) p151-155
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32	Directional growth of organic NLO crystal by different growth methods: A comparative study by means of XRD, HRXRD and laser damage threshold	M. Arivanandhan Xinming Huang, Satoshi Uda G.Bhagavanarayana N. Vijayan, P. Ramasamy K. Sankaranarayanan	Journal of Crystal Growth, 310 (2008) 4587
31	Unidirectional growth of Largest L-LMHCL cihydrate crystal by SR method	A. Senthil, R.Ramesh Babu N. Balamurugan P. Ramasamy	Journal of Crystal Growth, 311(2008) 544
30	Unidirectional growth of <001> Tetra glycine barium chloride (TGBC)single crystal by SR method	M. Senthil Pandian P. Ramasamy	Journal of Crystal Growth ,311(2008) 944

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28	Effect of KCl on the bulk growth KDP crystal by SR method	N. Balamurugan, P. Ramasamy, Yutthapong Inkong, Prapun Manyum	Material Chemistry and Physics, 112 (2008) 622
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25	Bulk growth and characterization of semioorganic Nonlinear Optical L-Alanine Cadmium Chloride Single crystal by Modified Sankaranarayanan-Ramasamy Method	C. Justin Raj S. Jerome Das	Crystal Growth and Design 8 (2008) 2729
24	Growth by SR method and characterization of Bis(thiourea) zinc(II) chloride single crystal	G. Bagavanarayana N. Vijayan S.K. Kushwaha	Materials Letters, 62(2008) 3931
23	Growth by SR method and characterization of Hippuric acid single crystals	G. Bagavanarayana N. Vijayan Alex M.Z. Slawin	Materials Letters, 62(2008) 2480
22	Growth of Unidirectional Potassium dihydrogen orthophosphate single crystal by SR method and its characterization	S. Balamurugan G. Bagavanarayana P. Ramasamy	Materials Letters, 62(2008) 3963
21	Growth of TGS single crystal by conventional and SR method and its analysis on the basis of mechanical, thermal, optical and etching studies	Senthil. M Pandian N. Balamurugan V. Ganesh, P.V. Raja Shekar K. Krishna Rao, P. Ramasamy	Materials Letters, 62(2008)3830
20	Effect of additives in supersaturated binary and ternary solutions on cluster growth by gravity driven concentration gradient studies	G. Anandha babu P. Ramasamy	Cryst. Res. Tech. 439(2008)626
19	Unidirectional growth of Benzophenone single crystal from solution	P. Ramasamy	Journal of Crystal Growth 310(2008) 1501
18	Growth of Longest <100> oriented Benzophenone Single Crystal from Solution at Ambient Temperature	M. Arivanandhan K. Sankaranarayanan P. Ramasamy	Journal of Crystal Growth, 310(2008) 1493
17	Uniaxial growth non linear optical active Lithium para nitrophenolate trihydrate single crystal by SR method	S. Dinakaran S. Jerome Das	Journal of Crystal Growth, 310(2008)410
16	Studies on large uniaxially grown Benzophenone single crystals	M. Arivanandhan K. Sankaranarayanan P. Ramasamy	Cryst. Res. Technol. 42 (2007) 578
15	Growth and characterization of nonlinear optical active L-Alanine formate crystal by modified SR method	C. Justin Raj S. Jerome Das	Journal of Crystal Growth 304(2007)191
14	Growth and optical absorption studies on Potassium dihydrogen phosphate single crystal	C. Justin Raj S. Krishnan, S. Dinakaran R. Uthrakumar, S. Jerome Das	Cryst. Res. Tech 43(2007)245
13	Solution growth of new ferroelectric Glycine phosphate unidirectional single crystals at room temperature	R. Ezhil Vizhi S. kalaonathan G. Bagavanarayana	Cryst. Res. Tech. 42(2007) 1104
12	Growth of Potassium acid phthalate crystals by SR method and its optical characterization	N. Balamurugan M. Lenin P. Ramasaamy	Materials Letter. 61(2007) 1896

11	The growth of L-Glutamic acid hydrochloride crystals by SR method	R. Bairava Ganesh V. Kannan, R.Sathyalakshmi P. Ramasamy	Materials Letters 61(2007) 706
10	Growth of Benzimidazole single crystal by SR method and its characterization by High- Resolution X-Ray diffraction, TG/DTA and Birefringence studies	N. Vijayan K. Nagaraj Alex M.Z. Slawin C.K.Shashidharan Nair G.Bhagavannarayana	Crystal Growth and Design 2 (2007)445
9	Growth of TGS crystal using uniaxially solution – crystallization method of Sankaranarayanan-Ramasamy	M. Lenin N. Balamurugan P. Ramasamy G.Bhagavannarayana	Crystal Research Technology 42(2007) 151
8	Growth of Sulphamic acid single crystal by SR method and its characterization	M. Lenin N. Balamurugan P. Ramasamy	Crystal Research Technology 42(2007) 39
7	Growth of L-Lysine monohydrochloride dehydrate bulk single crystal by SR method	K. Sethuraman, P. Ramesh Babu, R. Gopalakrishnan P. Ramasamy	Journal of Crystal Growth, 297(2006) 356
6	Unidirectional growth of <110> Ammonium dihydrogen orthophosphate single crystal by SR method	K. Sethuraman P. Ramesh Babu R. Gopalakrishnan P. Ramasamy	Journal of Crystal Growth, 294(2006) 349
5	Investigation on growth rate formula and Bulk Laser Damage Threshold of KDP crystal grown from Aqueous Solution by SR method	N. Balamurugan P. Ramasamy	Crystal Growth & Design, 6 (2006) 1642
4	Unidirectional crystallization of large diameter Benzophenone single crystal from solution at ambient temperature	K. Sankaranarayanan P. Ramasamy	Journal of Crystal Growth 292(2006)445
3	Growth of Benzophenone single crystal from solution: A novel approach with 100% solute – crystal conversion efficiency	K. Sankaranarayanan P.Ramasamy	Cryst. Res Technol. 41(2006)225.
2	Growth of large size <110> Benzophenone crystal using uniaxially solution crystallization method of Sankaranarayanan – Ramasamy(SR)	K. Sankaranarayanan	Journal of Crystal Growth 284(2005) 203
1	Unidirectional seeded single crystal growth from solution of Benzophenone by SR method	K. Sankaranarayanan P.Ramasamy	Journal of Crystal Growth 280(2005) 467

Major Research Projects Sanctioned under Sankaranarayanan-Ramasamy Method of Crystal

Sl.No	Name of the Principle Investigator/Institution	Funding Agency	Amount Rs.lakh	Title of the Project
13	Dr.K.Sankaranarayanan Alagappa University Karaikudi	DST-SERB	42.4	Bulk Unidirectional Growth of Organo Metallic Trihalides (MAPbX ₃ , X=Br and Cl) perovskites Single Crystals for High Energy Radiation Detectors
12	Dr.M.Senthil Pandian Research Scientist, SSN research Centre, SSN Institutions, Chennai	DAE/BRNS	25.00	High Quality Unidirectional 4-Nitrophenol Derivative Single Crystals for SHG Device Applications
11	Dr.P.Rajesh Dept. of Physics SSN College of Engineering Chennai-603110	DAE/ BRNS	23.00	Development of High Quality Direction Controlled Lithium Iodate and Lithium Sulphate Single Crystals for NLO applications
10	Dr.P.Murugakoothan, Pachaiyappa's College, Chennai	DST-SERB	29.85	Indigenous optical cell fabrication from Guanidinium based organic crystals for nonlinear optical applications
9	Dr. Muthu Senthil Pandian, SSN Research Centre, SSN Institutions, Chennai- 603 110	DST-SERB	16.60	Unidirectional and bulk growth of high quality nonlinear optical (NLO) 2-amino-5-nitropyridinium (2A5NP) derivative single crystal for second harmonic generation (SHG) device applications
8	Dr.B.Sunddaesan Dept. of Physics Ayya Nadar Janaki Ammal College Sivakasi	UGC	3.20	Unidirectional Growth of Semiorganic NLO Active L-lysine Borate Single crystal By SR Method
7	Dr.P.Selvarajan Dept. of Physics Aditanar College of Arts and Science, Tiruchendur	DST	20.00	Growth and characterization of some novel NLO based single crystals of L-Alanine complexes
6	Dr.R.Gopalakrishnan Dept. of Physics Anna University Chennai	CSIR	16.71	Synthesis, Growth and Characterization of picrate family crystals and growth potassium sodium tartrate tetrahydrate single crystal from conventional solution growth and unidirectional method of Sankaranaryanan-Ramasamy for technological applications
5	Dr.J.Madhavan Dept. of Physics Loyala College Chennai	UGC	7.75	Investigations on Amino acid based NLO materials for Photonics device fabrications
4	Dr..Ramesh Babu Dept. of Physics Bharathidasan Univ. Trichy	UGC	11.00	Growth, Structural, Spectral, thermal, mechanical and optical studies on semi-organic L-Lysine based single crystals for NLO applications
3	Dr..Ramesh Babu Dept. of Physics Bharathidasan Univ. Trichy	UGC	10.68	Unidirectional growth of pure and doped L-Arginine family single crystal by novel solution growth method and their characterization

2	Dr.P.Ramasamy SSN Institutions, Chennai	AICTE	10.00	Investigations on bulk growth of unidirectional single crystals of benzophenone derivatives
1	Dr.P.Ramasamy SSN Institutions, Chennai	DST	18.74	Growth of large size KDP and ADP crystals by SR Method

Dr.K.Sankaranarayanan
Senior Professor