



Dr.K.Sankaranarayanan
Professor

Contact

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Tamil Nadu, INDIA

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Date of Birth : 26-06-1967

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Academic Qualifications: M.A./M.Sc./M.Phil./Ph.D./

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

Teaching Experience: 25 Years

Research Experience: 28 Years

Additional Responsibilities

1. Member of Syndicate: From 10.01.2020
2. Director, University Science Instrumentation Centre: 02.01.2017-Till Date
3. Dean, Faculty of Science: 27.12.2018-11.02.2020
4. Chairperson, School of Physical Sciences : 18.06.2015-31.05.2019
5. President, Start-up Cell, School of Physical Sciences:

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.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	3	2 (Thesis Submitted 1)
	M.Phil.	43	-
Project	PG	54	-
	UG / Others	--	--

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
73	40	--	40	3

Scopus h-index : 20
Total Citations (Scopus) : 1237

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	AICTE	1996	1998	"Development of Indigenous Technology to Synthesize Indium Phosphide"	2.00

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

Consultancy Projects – as Deputy Co-ordinator

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

Patents

1. “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 and
2. “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

Distinctive Achievements / Awards

1. **Indo-China Bilateral Students Exchange Fellowship (1992-93)** by Ministry of Human Resource Development, Govt. of India, New Delhi.
2. **Young Scientist Fellowship (1995-96)** by Tamil Nadu State Council for Science and Technology, Govt. of Tamil Nadu, Chennai, India.

3. **Prof.P.Ramasamy National Award for Crystal Growth (2005)** by Indian Association for Crystal Growth, Anna University, Chennai.
4. **Best Researcher Cash Award (2005-2006)**, Alagappa University, Karaikudi
5. **Visiting Professor (April, 2010-July, 2010)** – Research Institute of Electronics, Shizuoka University, Hamamatsu, Japan.
6. **Visiting Scientist (19-10-2014 to 24-10-2014)** – Hebei Semiconductor Research Institute, Shijiazhuang, China.
7. **Visiting Scientist (29-10-2018 to 02-11-2018)** – Hebei Semiconductor Research Institute, Shijiazhuang, China.
8. 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

Research Achievements:

- ❖ 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 (μT -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 (μT -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.
- ❖ Five research papers were listed among *TOP 25* most downloaded articles in the year 2004 - 2006.

****Research Papers Published under this title in International Journals – 176, Major Research Projects Sanctioned by Govt. of India under this title – 12.***

Events organized in leading roles

Number of Seminars / Conferences / Workshops / organized: 10

Overseas Exposure / Visits

Visited China (1992-93, 2005, 2008, 2014, 2018) and Japan (2010)

Membership in

Professional Bodies

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

Editorial Board

1. Editorial Board - Member, Journal "Sadhana"- V.H.N.S.N.College, Virudhunagar
2. Editorial Board – Member, ANJAC Journal, A.N.J.A.College, Sivakasi

Advisory Board

1. Executive Council Member – Indian Association of Crystal Growth
2. Member – Star College – Strengthening UG Component Scheme by DBT, V.H.N.S.N.College, Virudhunagar

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

1. Board of Studies-Member, Dept. of Physics, Alagappa University
2. Board of studies –Member: M.Sc Physics-A.N.J.A.College, Sivakasi
3. Board of Studies – Member, UG and PG (Electronics), M.S.University, Tirunelveli.
4. Board of Studies-Member, Periyar University, Salem
5. Doctor Committee Member, VIT-Vellore, Anna University-Chennai, NIT-Trichy, University of Madras, Chennai, SASTRA University, Tanjore

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 43

Others

1. Products developed : Crystals for Scintillator and non-linear applications, Crystal Growth Equipment for SR Method of Crystal Growth.
2. No. of PhD Thesis evaluated : 19
3. No. of PhD Public Viva-Voce Examination conducted : 17
4. Books/Book Chapters Written : 2 – 1. Advanced Physics, 2.Materials Science and 3.Microprocessor and Microcontroller for DDE, Alagappa University, Karaikudi.

Publications

Sl.	Paper Title / Authors	Name of Journal, Volume No and Page	Year of Publica-
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No.			tion
73	"Enhanced Electrochemical Performance of Silica Beads Embedded Porous Fluoropolymer Composite Matrix for Li-ion Batteries" Saminathan, Aadheeshwaran ; Krishnasamy, Sankaranarayanan; Venkatachalam, Ganesh	Industrial & Engineering Chemistry Research Manuscript ID: ie-2020-04180b.R2	2020
72	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 precipitation S. Aadheeshwaran & K. Sankaranarayanan & V. Ganesh	Ionics https://doi.org/10.1007/s11581-020-03828-7	2020
71	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 ., K. Sankaranarayanan	Journal of Molecular Structure, Volume 1212, Year 2020 DOI:10.1016/j.molstruc.2020.128069	2020
70	Estimation of neutron energy distributions from measured prompt gamma intensities: Experimental validation Priyada Panikkath ., Ashwini Udupi ., P.K. Sarkar ., Sankaranarayanan K.	Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 969, Year 2020 DOI:10.1016/j.nima.2020.164101	2020
69	Growth, experimental and theoretical investigations on 4-hydroxy-3-methoxybenzaldehyde 5-chloro-2-hydroxybenzoic acid: A new high second order nonlinear optical material G. Parvathy ., R. Kaliammal ., K. Sankaranarayanan ., M. Arivanandhan ., M. Krishna Kumar ., S. Sudhahar .,	Journal of Molecular Structure, Volume 1217, Year 2020 DOI:10.1016/j.molstruc.2020.128406	2020
68	Electrochemical, structural, compositional and optical properties of Cuprous Selenide thin films S. Thanikaikarasan ., D. Dhanasekaran ., K. Sankaranarayanan	Chinese Journal of Physics, Volume 63, Year 2020, Pages 138-148 DOI:10.1016/j.cjph.2019.10.023	2020
67	Crystal growth, structural, optical, thermal, and mechanical properties of new bis(2-amino-6-methyl pyridinium barbiturate) tetrahydrate organic single crystal for nonlinear optical applications R. Kaliammal ., G. Parvathy ., G. Maheshwaran ., K. Sankaranarayanan ., M. Arivanandhan ., S. Sudhahar .,	Chinese Journal of Physics, Volume 68, Year 2020, Pages 436-460 DOI:10.1016/j.cjph.2020.09.027	2020
66	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 ., M. Krishna Kumar ., K. Sankaranarayanan ., S. Sudhahar	Chemical Physics Letters, Volume 758, Year 2020 DOI:10.1016/j.cplett.2020.137934	2020
65	Effect of curcumin sorbed selenite substituted hydroxyapatite on osteosarcoma cells: An in vitro study Surendran Dhatchayani ., Sekar Vijayakumar ., Natarajan Sarala ., Baskaralingam Vaseeharan .,	Article Journal of Drug Delivery Science and Technology, Volume 60, Year 2020 DOI:10.1016/j.jddst.2020.101963	2020

	Krishnasamy Sankaranarayanan		
64	Unidirectional growth of pure and composite t-stilbene single crystals for scintillator applications V. Govindan, D. Joseph Daniel, Phan Quoc Vuong, K. Sankaranarayanan, H.J. Kimb	Journal of Crystal Growth 531 (2020) 125344	2020
63	"Synthesis and dielectric characterization of pure and cobalt doped palmierite [K ₂ Pb(SO ₄) ₂] mineral" Sarala. N, Dhatchayani. S, Govindan. V, Sankaranarayanan. K	Materials Research Express, 6 (10), 104005,	2019
62	Sol-gel mediated microwave synthesis of pure, La and Zr doped SnS ₂ nanoflowers an efficient Photocatalyst for the de V. Govindan, L. Kashinath, D. Joseph Daniel, K. Sankaranarayanan gradation of Methylene Blue	Journal of Materials Science: Materials in Electronics, (Accepted for Publication) 10.03.2019	2019
61	Impact of Cerium Doping on Dielectric Properties of Palmierite [K ₂ Pb(SO ₄) ₂]Sarala. N, Dhatchayani. S, Govindan. V, Sankaranarayanan. K	Journal of Electronic Materials, 48(4), 2577–2586, (2019).	2019
60	Crystal growth and characterization of 1, 3, 5-triphenylbenzene organic scintillator crystal V. Govindan, D. Joseph Daniel, H. J. Kim, K. Sankaranarayanan	Journal of Materials Chemistry and Physics, 223, 183-189, (2019).	2019
59	Electrochemical Synthesis, Single crystal growth, physic-chemical and Dielectric studies of Tetrabromobisphenol-A V. Govindan, K. Kulangiappar, S. Selvanayagam, B. Sridhar, K. Sankara narayanan	Indian Journal of Physics(Accepted manuscript in Press-2018) (IF:0.988)	2018
58	Microwave assisted synthesis of Ce-doped SnS ₂ nano-flowers with enhanced vitamin-B sensing and photocatalytic activity V. Govindan, H. Imran, V. Dharuman, K. Sankaranarayanan	Materials Science: Materials in Electronics (Accepted for Publication) (IF:2.324)	2018
57	Unidirectional crystal growth, luminescence and scintillation characteristics of t-stilbene single crystals V. Govindan, D. Joseph Daniel, H. J. Kim, K. Sankaranarayanan	Dyes and Pigments, Volume 160, January 2019, Pages 848-852 (IF.3.767)	2019
56	Biological synthesis of silver nanoparticles using β-1, 3 glucan binding protein and their antibacterial, antibioflm and cytotoxic potential M.Anjugam, B.Vaseeharan, A. Iswarya, M.Divya,N.M.Prabhu , K. Sankaranarayanan	Microbial Pathogenesis, Volume 115, February 2018, Pages 31-40 (IF:2.0)	2018
55	Effect of substrate on electroplated copper sulphide thin films B. Bharathi, S. Thanikaikarasan • Pratap Kollu, P. V. Chandrasekar, K. Sankaranarayanan,X. Sahaya Shajan	J Mater Sci: Mater Electron (2014) December 2014, Volume 25, Issue 12 , pp 5338-5344 (IF:1.569) DOI 10.1007/s10854-014-2310-7	2015
54	Quantum mechanical study and spectroscopic (FT-IR, FT-Raman, 13C, 1H) study, first order hyperpolarizability, NBO analysis, HOMO and	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2015

	LUMO analysis of 2-acetoxybenzoic acid by density functional methods K. Bhavani, K.Sankaranarayanan, S. Muthu	Volume 136, Part C, 5 February 2015, Pages 1260-1268(IF:2.353) DOI: 10.1016/j.saa.2014.10.012	
53	Influence of nano sized TiO ₂ on the Structural, Electrical and Morphological Properties of Polymer Blend Electrolytes PEO – PVC – LiClO ₄ S. Jayanthi, K. Kulasekarapandian, A. Arulsankar, K.Sankaranarayanan and B. Sundaresan	Journal of Composite Materials, April 2015; vol. 49, 9: pp. 1035-1045 (IF:1.173) doi:10.1177/0021998314528824	2015
52	In-situ observation of faceted growth of benzophenone single crystals V. Natarajan, M. Arivanandhan, P. Anandan, K. Sankaranarayanan, G. Ravi, Y. Inatomi, Y. Hayakawa	Materials Chemistry and Physics, V144, 3, 2014, 402 - 408 (IF:2.234)	2014
51	Green synthesis of gold nanoparticles from leaf extract of Terminalia arjuna, for the enhanced mitotic cell division and pollen germination activity K. Gopinath, K.S. Venkatesh, R. Ilangovan, K. Sankaranarayanan and A. Arumugam	Industrial Crops and Products, V50 (2013) 737-742. (IF-2.468)	2013
50	"Effect of EDTA concentration on the physical and optical properties of CdS thin films" T.Prem Kumar and K.Sankaranarayanan	The Canadian Journal of Chemical Engineering., V91, p27, 2013 IF:1.003	2013
49	Influence of substrates on the structural, surface, optical, photoluminescence and computed three dimensional nanocrystal shape of CBD-CdS thin films" T.Prem Kumar and K.Sankaranarayanan	"J of Computation and Theoretical Nanoscience" V9, 947–952 (2012) (IF 0.86).	2012
48	Anisotropy of hardness and laser damage threshold of unidirectional organic NLO crystal in relation to the internal structure V. Natarajana, M. Arivanandhan, K. Sankaranarayanan, Y. Hayakawa	Materials Chemistry and Physics (IF-2.234) V130, Issues 1–2, 17 October 2011, Pages 154-158.	2011
47	Crystal growth of InGaSb alloy semiconductor at International space station: Preliminary experiments Mukannan Arivanandhan, Govindasamy Rajesh, Tadanobu Koyama, Yoshimi Momose, Krishnasamy Sankaranarayanan, Akira Tanaka, Yasuhiro Hayakawa, Tetsuo Ozawa, Yasunori Okano and Yuko Inatomi	J. Jpn. Soc. Microgravity Application, V28, 2, 2011, p046 (IF:NA)	2011
46	Effect of pure and mixed solvents on the solubility, crystal growth and morphology of ethyl p-dimethylamino benzoate (EDMAB): An organic nonlinear optical material V. Natarajan, M. Arivanandhan, K. Sankaranarayanan, Y. Hayakawa	Physica B: Condensed Matter, Volume 406, Issue 8, 1 April 2011, Pages 1410-1414, IF:1.327	2011
45	"Crystal Growth and characterization of a new organic material: Ethyl P-dimethylamino benzoate (EDMAB)" V.Natarajan, J. Kalyana sundar, P. Selvarajan, M. Arivanandhan, K. Sankaranarayanan, S.Natarajan, Y. Hayakawa,	J. of Minerals & Materials Characterization and Engineering (IF:NA) Vol. 10, No.1, pp.1-11, 2011	2011

44	Crystal Shape Determination in Thin Films and Studies on The Substrate Influence on The Crystal Shape In CBD-CdS Thin Films T. Prem Kumar, Daniel Sherwooda, Bosco Emmanuela, K.Sankaranarayanan;	Digest Journal of Nanomaterials and Biostructures, Vol. 4, No. 4, December 2009, P. 813 – 817, IF:1.092	2009
43	Growth and Characterization of CdZnS Thin Films by Short Duration Microwave Assisted-Chemical Bath Deposition Technique; T. Prem Kumar, K.Sankaranarayanan	Chalcogenide Letters Vol. 6, No. 10, October 2009, P. 555 – 562 IF:0.934	2009
42	Growth aspects and characteristic properties of pure and Li-doped l-arginine acetate (LAA) single crystals: A promising nonlinear optical material V. Natarajan, M. Arivanandhan, K. Sankaranarayanan, P. Ramasamy	Journal of Crystal Growth, Volume 311, Issue 3, 15 January 2009, Pages 572-575 IF:1.552	2009
41	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. Bhagavannarayana, N. Vijayan, K. Sankaranarayanan, P. Ramasamy	Journal of Crystal Growth, Volume 310, Issue 21, 15 October 2008, Pages 4587-4592	2008
40	Growth of longest $\langle 100 \rangle$ oriented benzophenone single crystal from solution at ambient temperature M. Arivanandhan, K. Sankaranarayanan, P. Ramasamy	Journal of Crystal Growth, Volume 310, Issues 7-9, April 2008, Pages 1493-1496	2008
39	Melt growth of novel organic nonlinear optical material and its characterization M. Arivanandhan, K. Sankaranarayanan and P. Ramasamy	Materials Letters, Volume 61, Issue 26, October 2007, Pages 4836-4838	2007
38	Studies on large uniaxially grown benzophenone single crystals M. Arivanandhan, K. Sankaranarayanan, P. Ramasamy	Crystal Research Technology 42, No.6, 578-582 (2007)	2007
37	A novel way of modifying nanograin size by solution concentration in the growth of ZnAl ₂ O ₄ thin films K. Kumar, K. Ramamoorthy, P. M. Koinkar, R. Chandramohan and K. Sankaranarayanan	Journal of Nanoparticle Research (2007) Volume 9, Number 2, P331-335	2007
36	Feasibility study on Czochralski growth of 3-methoxy 4-hydroxy benzaldehyde (MHBA) single crystals for NLO V. Vasudevan, M. Arivanandhan, G. Bhagavannarayana, K. Sankaranarayanan	Materials Letters, Volume 61, Issue 7, March 2007, Pages 1446-1450	2007
35	A novel in situ method for simultaneous growth of smart material single crystals and thin films K. Ramamoorthy, K. Kumar, Pankaj Koinkar, K. Ganesan, Amit P. Shah, K. Sankaranarayanan and P. Ramasamy	Smart Mater. Struct. 16 (2007) 83–88	2007

34	A novel way of modifying the needle to hexagonal morphology of a single crystal by solution concentration K.Kumar, K.Ramamoorthy, R.Chandramohan and K.Sankaranarayanan	Materials Science and Engineering: B, Volume 135, Issue 2, 25 November 2006, Pages 150-153	2006
33	Unidirectional crystallization of large diameter benzophenone single crystal from solution at ambient temperature K.Sankaranarayanan and P.Ramasamy	Journal of Crystal Growth, Volume 292, Issue 2, July 2006, Pages 445-448	2006
32	High optical quality IZO (In ₂ Zn ₂ O ₅) thin films by PLD – A novel development for III-V opto-electronic devices K.Ramamoorthy, K.Kumar, R.Chandramohan, K.Sankaranarayanan, R.Saravanan, I.V.Kityk, P.Ramasamy	Optics Communications, Volume 262, (2006), Pages 91-96	2006
31	Review on material properties of IZO thin films useful as epi-n-TCOs in opto-electronic (SIS solar cells, polymeric LEDs) devices K.Ramamoorthy, K.Kumar, R.Chandramohan, K.Sankaranarayanan	Materials Science and Engineering B, Volume 126, (2006), 1-15	2006
30	A novel growth method for ZnAl ₂ O ₄ single crystals K.Kumar, K.Ramamoorthy, R.Chandramohan, K.Sankaranarayanan	Crystal Research Technology, Volume 41, No.3, (2006), Pages 217-220	2006
29	A novel in situ synthesis and growth of ZnAl ₂ O ₄ thin films K.Kumar, K.Ramamoorthy, P.M.Koimkar, R.Chandramohan, K.Sankaranarayanan	Journal of Crystal Growth, Letter to Editors, Volume 289, (2006), Pages 405 - 407	2006
28	Development of a novel high optical quality ZnO thin films by PLD for III–V opto-electronic devices K. Ramamoorthy, C. Sanjeeviraja, M. Jayachandran, K. Sankaranarayanan, PMisra and L.M. Kukreja	Current Applied Physics 6, 1 (2006)103-108.	2006
27	Growth of urea doped benzophenone single crystal for nonlinear optical applications M. Arivanandhan, C. Sanjeeviraja, K. Sankaranarayanan, S.K. Das, G.K. Samanta , P.K. Datta	Optical Materials 28 (2006) 324–330	2006
26	Growth of benzophenone single crystals from solution: A novel approach with 100% solute - crystal conversion efficiency K. Sankaranarayanan and P. Ramasamy	Cryst. Res. Technol. 41, No. 3, 225 – 230 (2006)	2006
25	Bulk crystal growth of zinc aluminate spinel at room temperature K.Kumar, K.Ramamoorthy, R.Chandramohan and K.Sankaranarayanan	Advances in Applied Ceramics, Volume 104, No.5, (2005), Pages 1-3	2005
24	Growth of large size $\langle 110 \rangle$ benzophenone crystal using uniaxially solution-crystallization method of Sankaranarayanan–Ramasamy (SR) K. Sankaranarayanan	Journal of Crystal Growth, Volume 284, Issues 1-2, 15 October (2005), Pages 203-208	2005

23	Optical frequency doubling in microtube Czochralski (μ T-CZ) grown benzophenone single crystals M. Arivanandhan, K. Sankaranarayanan, C. Sanjeeviraja, A. Arulchakkaravarthi and P. Ramasamy	Journal of Crystal Growth, Volume 281, Issue 2-4, August (2005), Pages 596-603	2005
22	A novel nano-architecture for ZnO thin films on (100)Si, GaAs and InP single crystal wafers by L-MBE as value in nano-robotic (machining) device fabrication efforts K. Ramamoorthy, C. Sanjeeviraja, M. Jayachandran, K. Sankaranarayanan, V. Ganesan, Pankaj Misra and L.M. Kukreja	Materials Science in Semiconductor Processing, Volume 8, Issue 4, (2005), Pages 555-563	2005
21	Unidirectional seeded single crystal growth from solution of benzophenone K. Sankaranarayanan and P. Ramasamy	Journal of Crystal Growth, Volume 280, Issues 3-4, 1 July (2005), Pages 467-473	2005
20	Growth of organic single crystals by transparent vertical Bridgman technique and its characterization M. Arivanandhan, K. Sankaranarayanan, K. Ramamoorthy, C. Sanjeeviraja and P. Ramasamy	Thin Solid Films, Volume 477, Issues 1-2, 22 April (2005), Pages 2-6	2005
19	Ethyl p-amino benzoate (EPAB): A novel organic non-linear optical material for optical devices M. Arivanandhan, A. Ramyalakshmi, R. Rathikha, R. Gopalakrishnan, C. Sanjeeviraja and K. Sankaranarayanan	Optics Communications, Volume 251, (2005), Pages 172-178	2005
18	Growth of urea doped benzophenone single crystal for nonlinear optical applications M. Arivanandhan, C. Sanjeeviraja, K. Sankaranarayanan, S.K. Das, G.K. Samanta and P.K. Datta	Optical Materials, Volume 28, (2005), Pages 324-330	2005
17	Microtube-Czochralski (μ T-CZ) growth of bulk benzophenone single crystal for nonlinear optical applications M. Arivanandhan, K. Ramamoorthy, K. Sankaranarayanan, C. Sanjeeviraja and P. Ramasamy	Optical Materials, Volume 27, (2005), 1864-1868	2005
16	Fabrication of a novel nano- architecture for IZO thin films on <100> Si, GaAs and InP single crystal wafers by L-MBEK Ramamoorthy, C Sanjeeviraja, M. Jeyachandran, K Sankaranarayanan, V.Ganesan, Pankaj Misrac and L M Kukreja,	Surface Engineering , 20, 3, (2004) 205	2004
15	Development of a novel high speed (electron-mobility) epi-n-ZnO thin films by L-MBE for III-V opto-electronic devices K. Ramamoorthy, M. Jayachandran, K. Sankaranarayanan, Pankaj Misra, L. M. Kukreja and C. Sanjeeviraja	Current Applied Physics, Volume 4, Issue 6, November (2004), Pages 679-684	2004
14	Microbial inhibition, growth of Li+-doped LAP single crystals and their characterization N. Kavitha, M. Arivanandhan, K. Ramamoorthy, K.	Optical Materials, Volume 26, Issue 3, August (2004), Pages 275-280	2004

	Ragavendran and . K.Sankaranarayanan		
13	Highly textured ZnO thin films: a novel economical preparation and approachment for optical devices, UV lasers and green LEDs K. Ramamoorthy , M. Arivanandhan , K. Sankaranarayanan and C. Sanjeeviraja	Materials Chemistry and Physics, Volume 85, Issues 2-3, 15 June (2004), Pages 257-262	2004
12	Epitaxial lattice matching between epi-n-IZO thin films and <1 0 0> Si, GaAs and InP wafers with out any buffer layers by L-MBE technique: a novel development for III–V opto-electronic devices K. Ramamoorthy, C. Sanjeeviraja, M. Jayachandran, K.Sankaranarayanan, Pankaj Misra and L. M. Kukreja	Materials Chemistry and Physics, Volume 84, Issue 1, March (2004), Pages 14-19	2004
11	Epi-n-IZO thin films/<1 0 0> Si, GaAs and InP by L-MBE—a novel feasibility study for SIS type solar cells K. Ramamoorthy, M. Jayachandran, K. Sankaranarayanan, Pankaj Misra, L. M. Kukreja and C. Sanjeeviraja	Solar Energy, Volume 77, Issue 2, (2004), Pages 193-201	2004
10	A novel way of modifying the thermal gradient in Vertical Bridgman-Stockbarger Technique and studies on its effect on the growth of Benzophenone single crystals M.Arivanandhan, K.Sankaranarayanan, K.Ramamoorthy, C.Sanjeeviraja, P.Ramasamy	Crystal Research and Technology, Volume 39, No.8, (2004), Pages 692-698	2004
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88	Unidirectional growth of Benzil crystal from solution by Sankaranarayanan–Ramasamy method and its characterization	M. Rajalakshmi, T.S. Shyju, R. Indirajith, R. Gopalakrishnan	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 86, (2012), p27-32
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83	Vibrational Spectroscopic Studies and Mechanical Properties of Unidirectional L-alanine Acetate Single crystal	G. Prabakaran, M.Victor Antony Raj S. Arulmozhi J. Madhavan	Der Pharma Chemica, (2011), 3 (6):p643-650
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81	Anisotropy of hardness and laser damage threshold of unidirectional organic NLO crystal in relation to the internal structure	V. Natarajan, M. Arivanandhan, K. Sankaranarayanan Y. Hayakawa	Materials Chemistry and Physics, 130, (2011),p154-158
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78	Spectral, thermal and hardness studies on unidirectional grown Dichlorido diglycine zinc dihydrate single crystal	J. Mary Linet, S. Jerome Das	Physica B: Condensed Matter, 406, (2011), p836-840

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75	Investigation on growth and characterization of Dimethyl ammonium picrate (DMAP) single crystal grown by conventional and SR method	M. Magesh, G. Anandha Babu, P. Ramasamy	Journal of Crystal Growth, 324 (2011), p201-206
74	Enhancement of the crystalline perfection of <001> directed KDP single crystal	P.Rajesh S.Sreedhar K.Boopathi S.Venugopal Rao P.Ramasamy	Current Applied Physics 11 (2011) p1343-1348
73	Unidirectional growth of L-lysine L-lysiniun 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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66	Unidirectional growth, structural, optical and mechanical properties of LTA crystal	G.Bahagavannarayan P.Ramesh Kumar R.Gunaseelan S.Kumararman	Materials Chemistry And Physics 125-(2011)p15-19

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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
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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 Growth 312(2010) p2369-2375
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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
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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
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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
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41	Growth, optical, mechanical, dielectric and theoretical studies on Potassium Pentaborate tetrahydrate(KB508.4H ₂ O) Single crystal by modified SR method.	C.Justin raj S.Krishnan S.Dinakaran J.Mary linet R.Uthrakumar R.Robert S.Jerome dass	J.Mater.Sci.Technol., 25 No.6 (2009) p745-748
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29	Growth and characterization of unidirectional <100> KDP single crystal by SR method	N. Balamurugan P. Ramasamy	Spectrochimica Acta Part A,71(2008)1979
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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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
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19	Unidirectional growth of Benzophenone single crystal from solution	P. Ramasamy	Journal of Crystal Growth 310(2008) 1501
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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
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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
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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

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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 Growth by Government of India

Sl.No	Name of the Principle Investigator/Institution	Funding Agency	Amount Rs.lakh	Title of the Project
1	Dr.P.Ramasamy SSN Institutions, Chennai	DST	18.74	Growth of large size KDP and ADP crystals by SR Method
2	Dr.P.Ramasamy SSN Institutions, Chennai	AICTE	10.00	Investigations on bulk growth of unidirectional single crystals of benzophenone derivatives
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
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
5	Dr.J.Madhavan Dept. of Physics Loyala College Chennai	UGC	7.75	Investigations on Amino acid based NLO materials for Photonics device fabrications
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

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
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
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
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
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
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