

Dr. K. ANITHA

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<https://mkuniversity.ac.in/new/school/sp/anitha.php>

<https://www.scopus.com/authid/detail.uri?authorId=8331627900>

**1. Personal Details**

Date of Birth & Age : 23.05.1977 & 45
Gender & Marital Status : Female & Married
Community : BC
Nationality : Indian
Place of Birth : Sathangudi

2. Educational Qualifications**2.1. Academic**

Degree/ Examination	Name of the Exam	University/ Institute	Year of Passing	Grade	Main Subject
Under Graduate	BSc	Madurai Kamaraj University	1997	I	Physics
Post Graduate	MSc	Madurai Kamaraj University	2000	I	Physics

2.2. Research

Degree	Name of the University	Title of the Thesis	Date of Submission	Date of Award
MPhil	Madurai Kamaraj University	Growth and Characterization of New Amino acid Complexes	12.10.2001	18.12.2001
PhD	Madurai Kamaraj University	Crystallographic Studies on some Amino acid / Vitamin Complexes with Picric Acid	17.07.2006	02.03.2007

3. Post-Doctoral/ Research Associate / Industrial Experience

Name of the University / Institute / Industry	Period of Work	Nature of Work
SSN Research Centre, Chennai	05.09.2017 to 30.11.2017	Research

4. Professional Experience

No	Name of the University / Institution	Position Held	From (Date)	To (Date)
1	Department of Physics School of Physics Madurai Kamaraj University, Madurai.	Assistant Professor (Stage III)	13.03.2018	Till date
2	Department of Physics School of Physics Madurai Kamaraj University, Madurai.	Assistant Professor (Stage II)	13.03.2013	12.03.2018
3	Department of Physics School of Physics Madurai Kamaraj University, Madurai.	Assistant Professor (Stage I)	18.03.2010	12.03.2013
4	Department of Physics, ArulmiguPalaniandavar College of Arts & Culture, Palani.	Lecturer	13.02.2009	17.03.2010
5	Research and PG Department of Physics, Loyola College, Chennai. (Self-Finance)	Lecturer	16.06.2008	21.01.2009
6	PG Department of Physics, Women's Christian College, Chennai. (Self-Finance)	Lecturer	15.11.2007	30.03.2008

5. Teaching

No	Year	Semester	Course Code	Course Title	Hours per Week
1	2022-23	III	PHY2131C	Solid State Physics-I	5
2	2022-23	IV	PHY2141C	Solid State Physics-II	5
3	2022-23	I, III		Value Education & Counselling	1
4	2022-23	I	MPHY15E	X-Ray Crystallography	5
5	2021-22	III	PHY2031C	Solid State Physics-I	5
6	2021-22	IV	PHY2041C	Solid State Physics-II	5
7	2021-22	II	PHY2125C	Practical-II	8
8	2020-21	III	PHY1931C	Solid State Physics-I	5
9	2020-21	IV	PHY1941C	Solid State Physics-II	5
10	2019-20	I	PHY1911C	Mathematical Physics-I	5
11	2019-20	II	PHY1922C	Statistical Mechanics	5
12	2019-20	I, III		Value Education & Counselling	1
13	2019-20	III	PHY1835C	Practical-III	8
14	2018-19	I	PHY1811C	Mathematical Physics-I	5
15	2018-19	II	PHY1824E	Experimental Design	5
16	2018-19	III	PHY1735C	Practical - III	8
17	2018-19	I, III		Value Education & Counselling	1
18	2018-19	I	MPHY15E	X-Ray Crystallography	5
19	2018-19	I	MPHY11C	Research Methodology	5

6. Design/Development of New Curricula and Courses

No	Description	Organization for which it was Developed	Level(PG/UG)
1	Course Revised (Solid State Physics - I)	School of Physics	PG
2	Course Revised (Solid State Physics - II)	School of Physics	PG
3	New Course Designed (Medical Physics)	School of Physics	PG
4	Course Revised (X-Ray Crystallography)	School of Physics	PG

7. Creation of ICT Mediated Teaching-Learning Pedagogy: Nil

8. Research Specialization / Field of Research:

- X-Ray Crystallography
- Crystal Growth of Organic Materials for NLO Applications
- Crystal Growth of Semi-Organic Materials for Anti-bacterial Activity
- Nanomaterials Synthesis for Photocatalytic and Heavy Metal Ion Sensor Applications
- Semiconductor Material Synthesis for high Energy Radiation Detection

9. Research Publications

Type	International	National
Papers Published in UGC-CARE Listed Journals	78	-
Papers in Refereed Journals (Not mentioned above)	-	-
Papers Published in Conference/Seminar Proceedings	14	-
Papers Presented in Conferences/Seminars	36	27
Conference/Seminar/Workshop Attended	4	23
Deposits in CCDC, PDB, etc.	123	

10. Citation Metrics

Cumulative Impact Factor (Recent Annual JCR)	-
Total Citations (Scopus/Web of Science)	1183/991
h-Index (Scopus/Web of Science)	20/18

11. Details of Patents: Nil

12. Research Guidance/Supervision

Degree / Programme	Completed	Submitted	Ongoing
PhD (Full-time)	4	-	4
PhD (Part-time)	3	1	-
MPhil Research Project (Full-time)	21	-	-
MPhil Research Project (Part-time)	1	-	-
MSc Projects/Dissertation	48	-	4
MSc Internships/Summer or Winter Projects	-	-	-

13. Funded Research Projects

13.1. Ongoing

No	Title of the Project	Funding Agency	Period / Duration	Total Grants Sanctioned (Rs)
1	Development of Novel Florescent Detector for the Effective Identification of Toxic Heavy Metal Ions	RUSA Phase - II	2021-2023	17.40

13.2 Completed

No	Title of the Project	Funding Agency	Duration and Month & Year of Completion	Total Grants Received (Rs)	No of Papers out of Project
1	Raman Spectroscopic study of grapheme synthesize by direct exfoliation of graphite	CSIR	2014-2017	23.10	3

14. Reviewer in Journals

Name of the Journal	Publisher	No of Papers Reviewed
1. Journal of Molecular Structure	Elsevier	74
2. Ceramics International	Elsevier	4
3. Optical Materials	Elsevier	3
4. Materials letters	Elsevier	2
5. Journal of Physics and chemistry of Solids	Elsevier	2
6. Journal of the Indian Chemical Society	Elsevier	1
7. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	Elsevier	3
8. Journal of Materials science: Materials in Electronics	Springer	10
9. Journal of Molecular Crystals and Liquid Crystals	Taylor & Francis	1
10. Journal of Physics D: Applied Physics	IOP	1
11. Crystal Research & Technology	Wiley	1

15. Research Collaborations

Name of the Collaborator	Institute	Collaboration Details
Dr. P. Packiyaraj	Department of Physics, National Taiwan University, Taipei 10617, Taiwan, Republic of China	Research papers
Prof. P. Ramasamy	SSN Research Centre, SSN	Research papers

	College of Engineering, Chennai, 603110, Tamil Nadu, India	
Dr. B. Sridhar	Laboratory of X-ray Crystallography, Indian Institute of Chemical Technology, Hyderabad-500 007, India.	Research papers
Dr. Muthu Senthil Pandian	SSN Research Centre, SSN College of Engineering, Chennai, 603110, Tamil Nadu, India	Research papers
Dr. S. Premkumar	Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore 560012, India	Research papers
Dr. G. V. Vijayaraghavan	Department of Physics, B.S.A. Crescent Institute of Science & Technology, Chennai 600 048, Tamil Nadu, India	Research papers
Dr. D. Lakshmi	Department of Physics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore 641043, India	Research papers
Dr. J. Chandrasekaran	Department of Physics, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore, 641020, Tamilnadu, India	Research papers
Dr. TC. Sabari Girisun	School of Physics, Bharathidasan University, Tiruchirappalli 620024, India	Research papers
Dr. S. Athimoolam	Department of Physics, University College of Engineering, Anna University, Nagercoil-629 004, Taminadu, India.	Research papers
Dr. J. Rajesh	Chemistry Research Centre, Mohamed Sathak Engineering College, Kilakarai 623 806, Tamilnadu, India	Research papers
Dr. V. Shanmugaiah	School of Biological Sciences, Madurai Kamaraj University, Madurai, 625 021, India	Research papers
Dr. M. Jayanthinath	Department of Materials Science, School of Chemistry Madurai Kamaraj University Madurai - 625 021, Tamil Nadu, India	Research papers

16. Countries Visited: Nil**17. Honours / Awards / Recognitions**

Name of the Honours / Awards / Recognition	Awarding Agency	International / National / State / Institute Level
INSA Visiting Scientist Fellowship	Indian National Science Academy (INSA)	National
Outstanding Reviewer - Journal of Molecular Structure	Elsevier	National
Programme Coordinator	DST-FIST	Institute
RUSA- Deputy Coordinator (Infrastructure)	MKU	Institute
Principle Investigator	DST-SERB	Institute
Teacher Counselor	MKU	Institute
Head, Department of Physics	MKU	Institute
Academic Council Member	MKU	Institute

18. Conferences / Seminars / Workshops Organized

Level	Conference Title	Date(s)	Place	Role Played	Funding
International	International Business Leaders Meet and Exhibition (iBLME-2023)	4-6, February, 2023	Madurai Kamaraj University, Madurai	Coordinator	RUSA
International	Functional materials for Energy, Environment and biomedical applications (FARAON- 2022)	2- 4 th February, 2022	Madurai Kamaraj University, Madurai (Online)	Co-Coordinator	IFE, UiO, RUSA, DST
National	Two days National-level Intercollegiate Physics Competition via online for Budding Physicists (Crest-O-Fest – 21)	30-31, March 2021	School of Physics, Madurai Kamaraj University, Madurai	Convener	Alumni
State	Refresher Course in Physics – Recent Trends in Materials for Energy and Environment	13-26, February 2020	School of Physics, Madurai Kamaraj University, Madurai	Coordinator	UG-HRDC
International	A Two Day International		Madurai Kamaraj	Co-convener	UGC, DST, IFE

	Conference on Advanced Functional Materials On Energy, Environment And Biomedical Application (AFMEEB – 2017)	11 -12, December 2017	University, Madurai		
National	National Seminar on X-ray Crystallography- NSXC (2014)	29, September – 01, October, 2014	School of Physics, Madurai Kamaraj University, Madurai	Convener	UGC
National	Recent Advances in Crystal growth and Crystallography (RACC-2012)	21-22 March, 2012	School of Physics, Madurai Kamaraj University, Madurai	Convener	UGC

19. Invited Lectures / Resource Person

No	Institute / Organizer	Name of the Conference / Seminar / Workshop	International / National / State / Institute Level	Date(s)
1.	SSN Research Centre, Kalavakkam, Chennai	International Conference on Crystal Growth and Technological Applications	International Level	12.01.2022
2.	School of Physics, Madurai Kamaraj University, Madurai	Refresher Course	State Level	12.11.2021
3.	MSN Pioneer Meenakshi Women's College, Poovanthi, Sivagangai Dt.	GRAVITA Association	Institute Level	09.10.2018
4.	School of Chemistry, Madurai Kamaraj University, Madurai.	Refresher Course	State Level	23.03.2017
5.	Department of Physics, Manner Thirumalai Naiacker College,	Physics Association	Institute Level	08.08.2017

	Madurai			
6.	School of Physics, Madurai Kamaraj University, Madurai	Refresher Course	State Level	21.11.2015
7.	Vivekanada Arts and Science college , Thiruvudagam	Physics Association	Institute Level	20.02.2014
8.	School of Physics, Madurai Kamaraj University, Madurai	Refresher Course	State Level	21.11.2012
9.	Cauvery Arts and Science college for women, Trichy	Physics Association	Institute Level	07.06.2011
10.	School of Physics, Madurai Kamaraj University, Madurai	Refresher Course	State Level	20.11.2010

20. Professional Development Programs / Faculty Development Programs Organized

Name of the Program	Role	Place	Date(s)	Funds in Rs & Sponsor
Refresher Course in Physics – Recent Trends in Materials for Energy and Environment	Coordinator	School of Physics, Madurai Kamaraj University, Madurai	13-26 February, 2020	UGC-HRDC

21. Professional Development Programs / Faculty Development Programs Attended

Name of the Program	Place	Date(s)	Sponsor
Induction Programme	Academic Staff College, Madurai Kamaraj University Madurai – 625 021	23.04.2010 to 29.04.2010	UGC- ASC
Orientation Course	Academic Staff College, Madurai Kamaraj University Madurai-625 021	01.02.2012 to 28.02.2012	UGC- ASC
Refresher Course	Academic Staff College, Madurai Kamaraj University Madurai – 625 021	12.11.2013 to 02.12.2013	UGC- ASC
Refresher Course	UGC-Human Resource Development Centre, Madurai Kamaraj University	02.11.2016 to	UGC-

	Madurai – 625 021	22.11.2016	HRDC
Refresher Course	UGC-Human Resource Development Centre, Pondicherry University, Pondicherry-605014	01.10.2021 to 14.10.2021	UGC- HRDC

22. Administrative Experiences

Role Played	Responsibilities	Period (from ... to)
Head i/c		12.08.2016 to 12.01.2023
Head		13.01.2023 to till date

23. Membership in Academic Bodies

Name of the University / Institute / College	Type of Membership	Duration / Period
Department of Physics, Bharathiar University, Coimbatore	External Member in board of MPhil dissertation evaluation	2010, 2011, 2012, 2013, 2015, 2017, 2019
DDE, Madurai Kamaraj University, Madurai	Member in MSc (Physics) examination valuation Board	2012-2015
School of Physics, Madurai Kamaraj University, Madurai	Admission committee Member	2010-2022
DDE, Madurai Kamaraj University, Madurai	Trainer cum Examiner for MSc practical examination	2014, 2015
DDE, Madurai Kamaraj University, Madurai	Member in board of MPhil (Physics) dissertation evaluation and Viva-voce examination	2014, 2015, 2016
GTN College, Dindigul	University Nominee-UG- Board of Studies	2016-2018
Madurai Kamaraj University, Madurai	Member-Board of Studies- Electronics and Communication (UG & PG)	2017-2019
Department of Physics, CMS College, Kottayam, Mahatma Gandhi University, Kerala	External Member in Ph,D thesis evaluation board for Ms. Renu Jacob	2017
Department of Physics, Gandhigram Rural Institute, Deemed to be University, Dindigul,	External Member in Board of MPhil Scholar	2018-2019
PSR Arts and Science College, Sivakasi	Member of Inspection Commission for affiliation of BSc Physics	2018

SFR College, Sivakasi	Selection Committee Member	2018
Ramasamy Naidu College, Sattur	Member of Inspection Commission for affiliation of BSc Physics	2019
Department of Physics, CMS College, Kottayam, Mahatma Gandhi University, Kerala	External Member in Ph,D thesis evaluation board for Ms. Vinila. VS	2019
Ramasamy Naidu College, Sattur	University Nominee-MPhil-Board of Studies	2019-2021
Department of Physics, Anna University, Nagercoil	External Member in Ph.D thesis evaluation and Viva-voce examination board for Mr. S. Suresh Kumar	2019
Department of Physics, Gandhigram Rural Institute, Deemed to be University, Dindigul,	External Member in Board of MPhil of S. Anusha	2019-2020
Saraswathi Narayanan College, Madurai	University nominee-PG Board of Studies	08.02.2019 to 07.02.2021
Department of Physics, Gandhigram Rural Institute, Gandhigram, Dindigul	Doctoral committee member for R. Ramalakshmi	13.02.2020 onwards
School of Physics, Madurai Kamaraj University, Madurai	Nominated as department research committee member for conducting interview for the admission to PhD program	2020-2021, 2021-2022, 2022-2023
Madurai Gandhi N.M.R. Subbraman College for Women, Madurai	University Nominee in Managing committee	01.04.2019 TO 31.03.2021
DDE, Madurai Kamaraj University, Madurai	External Examiner for Practical Examinations	06, 07.02.2021 and 13, 14. 02.2021.
Madurai Kamaraj University, Madurai	Nominated as a member of the Committee to scrutinize the application submitted for registration of DSc., in Physics	05.05.2021
Madurai Kamaraj University, Madurai	Nominated as a member of the sub-committee to re-scrutinize the applications submitted for recognition of guideship	27.12.2021
Department of Physics, Manner Thirumalai Naicker College, Pasumalai	Member of Inspection Commission for Research Centre approval	18.08.2022

Manner Thirumalai Naicker College, Pasumalai, Madurai	University nominee for the board of studies of BSc., Electronics and Communication	29.01.2021 to 28.01.2023
Standard Fireworks Rajaratnam College for Women, Sivakasi	University nominee for the board of studies in MSc., Physics	29.01.2021 to 28.01.2023
Theni Kammavar Sangam College-Theni	External Examiner for Practical Examinations	10.01.2022
A .K .D. Dharmaraja College for Women, Rajapalayam, Virudhunagar.	University Nominee in Managing Committee	01.04.2021 to 31.03.2023
Department of Physics, Gandhigram Rural Institute, Gandhigram, Dindigul	Doctoral committee member for R.Harshinee	24.08.2021 onwards
MannarThirumalai Naicker College, Madurai.	University Nominee – Board of Studies in B.Sc., Electronic and Communication	29.01.2021 to 28.01.2023
Theni KammavarSangam Kollege of arts and science , kammavarnagar, koduvilarpatti.	External Examiner for PG Practical Examinations	25.02.2022
Madurai KamarajUniversity, Madurai.	Nominee as deputy co-ordinator for RUSA Equipment Infrastructure	15.06.2022
Ayya Nadar Janaki Ammal College (Autonomous),Sivakasi	University Nominee-UG - Board of Studies	03.10.2022 to 02.10.2025
Madurai Kamaraj University, Madurai	Member-Board of Studies-Electronics (UG & PG)	18.05.2022
Devanga Arts College, Aruppukottai.	External Examiner for M.Sc Practical Examinations	08.06.2022 to 09.06.2022
DDE, Madurai Kamaraj University, Madurai	External Examiner for Practical Examinations (UG & PG)	16.07.2022 & 17.07.2022, 23.07.2022 & 24.07.2022, 30.07.2022 & 31.07.2022
DDE, Madurai Kamaraj University, Madurai	External Examiner for Practical Examinations (UG & PG)	10.11.2022 to 14.11.2022
Department of Physics, Gandhigram Rural Institute, Gandhigram, Dindigul	External member in Doctoral committee for D.Yamuna	10.08.2022 onwards
NMSSVN College, Madurai	External Examiner for practical examination	26.05.2022 to 27.05.2022
Bharathiar University, Coimbatore.	External member in Doctoral committee for P. Nandhini	11.05.2022
Madurai Kamaraj University, Madurai	External member in Doctoral committee for S.Abinaya	21.11.2022

NMSSVN College, Madurai	University Nominee-PG-Board of Studies	2023-2026
Manner Thirumalai Naicker College, Pasumalai	University Nominee-PG-Board of Studies	2023-2026

24. Membership in Recognised Professional Bodies

Name of the Professional Body	International / National	Type of Membership
Indian crystallographic Association (ICA)	National	Life Membership
Indian Association for Crystal Growth (IACG)	National	Life Membership

25. Languages Known

Languages	Read	Write	Speak
Tamil	Yes	Yes	Yes
English	Yes	Yes	Yes

26. Involvement in Extension Activities other than Academic Works:

- COVID-19 awareness talk and counselling were given to students to handle the pandemic period peacefully during lockdown.
- To inculcate Tamil culture among students, every year Pongal and Pooja celebrations are organised. Science day and women's Day are also celebrated.
- On account of 75th Independence Day A talk on development of ISRO/Atomic energy in post Independent India was organized on 03.08.2022.

Details of Publications

1 Research Publications

1.1. UGC-CARE Listed Journals

1. Investigation on crystallographic structural stability and optical properties of L-Tartaric acid single crystal at dynamic shocked conditions, A. Sivakumar; S.Sahaya Jude Dhas; J. Thirupathy; P. Sivaprakash; **K. Anitha**; Raju Suresh Kumar; S. Arumugam; Martin Britto Dhas S.A, Journal of Materials Science: Materials in Electronics (2022) 33:10841-10850
ImpactFactor: 2.478; Citations:0; DOI:10.1007/s10854-022-08065-4
2. Synthesis and Growth of New Organic 2-Amino-4, 6-Dimethylpyrimidinium Trifluoroacetate (AMPTF) Single Crystals for Nonlinear Optical (NLO) Applications, Samuthra G; N. Prabavathi; P. Karuppasamy; Muthu Senthil Pandian; P. Ramasamy;

- K. Anitha**, Journal of Materials Science: Materials in Electronics (2022) 33:8035-8047.
Impact Factor: 2.478; Citations: 1; DOI:10.1007/s10854-022-07955-x
3. Growth and characterization of Nitrophenol complexes with piperazine and pyridine derivatives, Journal of Molecular Structure, P. Yogheshwari, P. Karuppasamy; Muthu Senthil Pandian; P. Ramasamy **K. Anitha**, Journal of Molecular Structure, 1270 (2022) 133884.
Impact Factor: 3.841; Citations: 0; DOI: 10.1016/j.molstruc.2022.133884
 4. Experimental and theoretical studies on bis (6-nitroquinoline) fumaric acid co-crystal, P. Yogheshwari, B. Sridhar, **K. Anitha**, Journal of Molecular Structure 1249 (2022) 131561.
Impact Factor: 3.841; Citations: 2; DOI: 10.1016/j.molstruc.2021.131561
 5. Experimental and Theoretical Investigations on a Hydrous Organic salt of 2,4,6-triaminopyrimidine-1,3-dium L-tartrate monohydrate (TTM) , R. Thirumurugan, **K. Anitha**, Journal of Molecular Structure 1237 (2021) 130368.
Impact Factor: 3.841; Citations: 1; DOI: 10.1016/j.molstruc.2021.130368
 6. Synthesis, growth, structural, optical, thermal and NLO studies of new organic single crystal: 3-Hydroxy pyridinium 2-hydroxy benzoate, **K. Anitha**, M. Subha, M. Tamil Elakkiya, Journal of Molecular Structure 1244 (2021) 130850.
Impact Factor: 3.841; Citations: 2; DOI: 10.1016/j.molstruc.2021.130850
 7. Growth, characterisation and DFT investigations on 3-hydroxy-6- methyl -2-nitropyridine (3H6M2NP)-A novel third order nonlinear optical material, P. Justin, **K. Anitha**, Journal of Molecular Structure 1245 (2021) 131199.
Impact Factor: 3.841; Citations: 2; DOI: 10.1016/j.molstruc.2021.131199
 8. Supramolecular self-assembly of a novel 2-aminopyrazinium hydrogen tartrate single crystal through hydrogen bonds: Experimental analyses and theoretical investigations M. Tamil Elakkiya, S. Suresh Kumar, M. Sathiyendran, A. Harshavardhini, **K. Anitha**, Journal of Molecular Structure 1206 (2020) 127684.
Impact Factor: 3.841; Citations: 4; DOI: 10.1016/j.molstruc.2020.127684
 9. Design and growth of novel organic molecular quinoline 4-nitrophenol (QNP) single crystals: for nonlinear optical (NLO) applications, P. Karuppasamy, T. Kamalesh, **K. Anitha**, M. Senthil Pandian, P. Ramasamy, Sunil Verma, Journal of Molecular Structure 1210 (2020) 128036.
Impact Factor: 3.841; Citations: 16; DOI: 10.1016/j.molstruc.2020.128036
 10. Enhanced visible light Photocatalytic performance of SnO₂ nanoparticle co-doped with (Co, Nb) for organic dye degradation, Jayapandi, S, Premkumar, S, Ramakrishnan, V, Lakshmi D, Shanavas S, Acevedo, R and Anitha, K, Journal of Material Science: Materials in Electronics, (2020) 31(13), 10689-10701.
Impact Factor: 2.478; Citations: 10; DOI: 10.1007/s10854-020-03618-x
 11. Anisotropic nonlinear optical and optical limiting studies of an ethylenediamminium picrate crystal with femtosecond excitation, C. Indhumathi, S. Alfred Cecil Raj, S. Venugopal Rao, **K. Anitha**, T. C. Sabari Girisun, Chemistry Select, (2020) 5, 2119-2129.
Impact Factor: 5.02; Citations: 2; DOI: 10.1002/slct.201903269
 12. Growth, spectroscopic, electrical and mechanical studies on hexamethylenetetramine succinate crystal: a new third harmonic generation material, S. Balaprabakaran, J. Chandrasekaran, B. Babu, R. Thirumurugan and **K. Anitha**, Materials Science - Poland (2018).
Impact Factor: 0.981; Citations: 0; DOI: 10.2478/msp-2019-0086

13. Study of electrical conductivity and photoelectric response of liquid phase exfoliated graphene thin film prepared via spray pyrolysis route, Vasanthi, V., Logu, T., Ramakrishnan, V., Anitha, K., Sethuraman, K. *Carbon Letter*,30, 417–423 (2020).
Impact Factor:0.91; Citations: 7; DOI :10.1007/s42823-019-00111-2
14. Structural, spectral, computational and thermal studies on a new organic NLO crystal: 2-aminopyrazinium 5-nitro-2-hydroxybenzoate, M. Tamil Elakkiya, S. Suresh Kumar, S. Premkumar **K. Anitha**, *Journal of Materials Science: Materials in Electronics*, 30, 16207–16215 (2019).
Impact Factor: 2.478; Citations: 4;DOI :10.1007/s 10854-019-01989-4.
15. Enhanced piezoelectric, optical, mechanical and laser damage threshold studies on creatinine doped glycine single crystals, P. Justin, **K. Anitha**, *Materials Science: Materials in Electronics* (2019)30:9735-9741.
Impact Factor: 2.478; Citations:3; DOI:10.1007/s10854-019-01308-x
16. Reinforced Photocatalytic Reduction of SnO₂ Nanoparticle by La Incorporation for Efficient Photodegradation under Visible Light Irradiation, Jayapandi S, Premkumar S, Lakshmi D, Packiyaraj P, Kamatchirajan Balaji vishwanath, SivarajP, Anitha K. *Journal of Materials Science: Materials in Electronics* (2019)30: 8479-8492.
Impact Factor: 2.478; Citations:12; DOI: 10.1007/s10854-019-01168-5
17. Experimental and theoretical spectroscopic studies and chemical reactivity of ferrous fumarate, **K. Anitha**, R. Niranjana devi, P. Justin, *Canadian Journal of Physics*, 97 (2019) 308-316.
Impact Factor:1.358; Citations: 5; DOI:10.1139/cjp-2017-0216
18. The Effect of Malonic acid on the Physico-Chemical Characterisation of 4-Hydroxy Pyridine : A New Third order NLO single crystal, M. Subha and **K. Anitha**, *Journal of Molecular Structure* -1179 (2019) 469-476.
Impact Factor: 3.841; Citations:7; DOI: 10.1016/j.molstruc.2018.11.036
19. Growth, structural, thermal, mechanical, optical and third order nonlinear optical studies of 3-hydroxy 2-nitro pyridine single crystal, P. Justin, **K. Anitha**, *Optical Materials* 86 (2018) 562-570.
Impact Factor: 3.754; Citations:11; DOI:10.1016/j.optmat.2018.10.047
20. Structural investigation, spectral characterization, thermal and antibacterial activity on an organic crystal: 2-aminopyrazin-1-ium3-carboxypicolinate, M.TamilElakkiya, **K. Anitha**, *Materials Letters*, 235 (2019) 202–206.
Impact Factor:3.574; Citations: 6; DOI:10.1016/j.matlet.2018.10.015
21. Structure Elucidation, Biological Evaluation and Molecular Docking Studies on a new organic salt: 2-aminobenzimidazolium 5-nitro-2-hydroxybenzoate, K. Saiadali Fathima, M. Sathiyendran, **K. Anitha**, *Journal of Molecular Structure* (2019), 1177, 457-468.
Impact Factor: 3.841; Citations:17;DOI:10.1016/j.molstruc.2018.09.059
22. Structure Elucidation, Biological Evaluation and Molecular Docking Studies of 3-aminoquinolinium 2-carboxy benzoate- A Proton Transferred Molecular Complex, K. Saiadali Fathima, M. Sathiyendran, **K. Anitha**, *Journal of Molecular Structure* (2019) 1176, 238-248.
Impact Factor: 3.841; Citations:17; DOI:10.1016/j.molstruc.2018.08.020
23. Synthesis, Crystal growth, Structural, Optical, thermal, laser damage threshold and Z-scan technique on 2-Amino 4,6-Dimethyl Pyrimidine 4-Nitrophenol Single Crystal, P. Karuppasamy, T. Kamalesh, **K. Anitha**, M. Senthil Pandian, P. Ramasamy, Sunil Verma, *Optical Materials* (2018), 84, 475-489.
Impact Factor:3.754; Citations: 60; DOI: 10.1016/j.optmat.2018.07.039

24. Structural, spectral, computational, thermal and antibacterial studies on a co-crystal: 2-aminopyrazine phthalic acid, M Tamil Elakkiya, S Premkumar, M. Sathiyendran, P. Suresh, V Shanmugaiah and **K. Anitha**, Journal of Molecular Structure (2018), 1173, 635-646.
Impact Factor: 3.841; Citations:5; DOI: 10.1016/j.molstruc.2018.07.022
25. Structural Investigation and Molecular Docking Studies of 2- Amino-1H-benzimidazolium 2-hydroxybenzoate and 2- Amino-1H-benzimidazolium pyridine 2-carboxylate Single Crystals, K. Saiadali Fathima, M. Sathiyendran, **K. Anitha**, Materials Science & Engineering C, 91 (2018) 103-114.
Impact Factor:7.328; Citations: 5; DOI: 10.1016/j.msec.2018.05.035
26. Yellow emitting Cd doped SnO₂ nanophosphor for phosphor converted white LED application, V Vasanthi, M Kottaisamy, K Anitha, V Ramakrishnan, Material Science in Semiconductor processing; (2018) 85, 141-149.
Impact Factor: 4.644; Citations: 16; DOI: 10.1016/j.mssp.2018.06.001
27. Augmented photocatalytic and electrochemical activities of Ag tailored LaCoO₃ perovskite semiconductor, S. Jayapandi, Lakshmi, S. Premkumar, P. Packiyaraj, **K. Anitha**, Materials Letter, 218 (2018) 2015-2018.
Impact Factor: 3.574; Citations: 24; DOI: 10.1016/j.matlet.2018.02.015
28. Creatininium 4-nitrobenzoate - A phase matchable organic nonlinear optical material with large laser-induced damage threshold value for optoelectronics applications, R. Thirumurugan, B. Babu, **K. Anitha**, J. Chandrasekaran, Optics and Laser Technology, 105 (2018) 106-113.
Impact Factor: 4.939; Citations:10;DOI:10.1016/j.optlastec.2018.02.048
29. Synthesis, Growth and Characterization of L-PhenylalaniniumMethanesulfonate (LPA-MS) Nonlinear Optical Single Crystal, K. Mangaiyarkarasi , T. Ravichandran, **K. Anitha**, A. Manivel, Journal of Molecular Structure (2018) 1155, 758-764.
Impact Factor: 3.841; Citations: 9; DOI: 10.1016/j.molstruc.2017.11.065
30. Impact of formic acid on ferroelectric, dielectric, optical properties of Glycine single crystal- A nonlinear material for electro-optic applications, P. Justin, **K. Anitha**, Materials Research Express (2017)4, 115101.
Impact Factor: 2.025; Citations: 6; DOI:10.1088/2053-1591/aa959e
31. Dipicolinate salt of imidazole: Discovering its structure and properties using different experimental methodologies and quantum chemical investigations, R. Thirumurugan, **K. Anitha**, Journal of Molecular Structure (2018), 1155, 267-277.
Impact Factor: 3.841; Citations:7; DOI:10.1016/j.molstruc.2017.11.004
32. Synthesize, growth, characterization and quantum chemical investigations of a promising organic nonlinear optical material- Thiourea-glutaric acid, R. Thirumurugan and **K. Anitha**, Journal of molecular structure (2018), 1171, 915-925.
Impact Factor: 3.841; Citations:28; DOI:10.1016/j.molstruc.2017.07.027
33. Synthetic Method Dependent Physicochemical Properties and Electrochemical Performance of Ni-Doped ZnO, Abinaya Chandrasekaran, ThibeorchewsPrasankumar, Dr.Sujin P Jose,Dr. Kandasamy Anitha, Craig Ekstrum,Dr. Joshua M. Pearce,Dr. JeyanthinathMayandi, Materials Science inc. Nanomaterials & Polymers in Chemistry Select (2017), 2 (28), 9014-9023.
Impact Factor: 2.388; Citations: 17; DOI: 10.1002/slct.201701584.
34. Synthesis of penta- and tetra-cyclic cage-like compounds and dispiro heterocycles through microwave-assisted solvent-free multi-component domino reactions, SeeniMaharani, Sundaravel Vivek Kumar, Abdulrahman I. Almansour, Raju Suresh Kumar, Anitha Kandasamy and Raju Ranjith Kumar , New Journal of Chemistry, (2017),41, 11009-11015.

- Impact Factor:3.925; Citations:4; DOI:10.1039/C7NJ01673E
35. Reversible NIR Fluorescent probes for Cu²⁺ ions detection and its Living cell imaging, GujuluvaGangatharan Vinoth Kumar, MookkandiPalsamyKesavan, Gandhi Sivaraman, JamespandiAnnaraj, Kandasamy Anitha, Arunachalam Tamilselvi, ShenmuganarayananAthimoolam, Balasubramaniyam Sridhar, Jegathalaprathaban Rajesh, *Sensors and Actuators B: Chemical* (2018), 255. 3235-3247.
Impact Factor: 9.221; Citations:74; DOI:10.1016/j.snb.2017.09.150
 36. Structural, optical, thermal, dielectric, laser damage threshold and Z-scan studies on fumarate salt of creatinine: A promising third order nonlinear optical material, R. Thirumurugan, **K. Anitha**, *Materials Letters*, 206 (2017)30-33.
Impact Factor:3.574; Citations: 26; DOI: 10.1016/j.matlet.2017.06.103
 37. Natural alkaloid Luotonin A and its affixed acceptor molecules: Serum albumin binding studies, MookkandiPalsamyKesavan, GujuluvaGangatharan Vinoth Kumar, Anitha Kandasamy, Lokesh Ravi, Dhaveethu Raja Jeyaraj, Rajagopal Gurusamy G Jegathalaprathaban Rajesh, *Journal of Photochemistry & Photobiology, B: Biology* 173 (2017) 499–507.
ImpactFactor:6.814; Citations:55; DOI:10.1016/j.jphotobiol.2017.06.030
 38. Experimental and density functional theory (DFT): A dual approach to probe the key properties of creatininium L-tartrate monohydrate single crystal for nonlinear optical applications, R. Thirumurugan, B. Babu, **K. Anitha** and J. Chandrasekaran, *Journal of Molecular structure* (2017), 1149, 48-57.
Impact Factor: 3.841; Citations:22; DOI:10.1016/j.molstruc.2017.07.095
 39. Experimental and computational studies on creatininium 4-nitrobenzoate- an organic proto transfer complex, R. Thirumurugan and **K. Anitha**, *Journal of Molecular Structure*,1146 (2017) 273-284.
Impact Factor: 3.841; Citations:27; DOI:10.1016/j.molstruc.2017.05.143
 40. Exfoliation of high-quality graphene in volatile and non-volatile solvents, V. Vasanthi, **K. Anitha**, V.Ramakrishnan, *Graphene Technology*, 2:29–40(2017)
Impact Factor:2.388; Citations: 3; DOI:10.1007/s41127-017-0006-5.
 41. Synthesis, crystal growth and characterization of bioactive material: 2- Amino-1H-benzimidazolium pyridine-3-carboxylate single crystal- a proton transfer molecular complex, K. Saiadali Fathima, P. Kavitha, **K. Anitha**, *Journal of Molecular Structure*, 1143 (2017) 444-451.
Impact Factor: 3.841; Citations: 7; DOI: 10.1016/j.molstruc.2017.04.058
 42. 2-Amino-6-methylpyridinium 4-nitrobenzoate: A phase matchable organic single crystal for optoelectronics device applications, B. Babu, J. Chandrasekaran, R. Thirumurugan, **K. Anitha**, M. Saravanabhavan, *J Mater Sci: Mater Electron* (2017), 28: 13, 9704-9716.
Impact Factor: 2.779; Citations: 25; DOI: 10.1007/s10854-017-6721-0
 43. Influence of pH in La-doped SnO₂ nanoparticles towards sensor applications S. Jayapandi, P. Packiyaraj, S. Premkumar, J. Mayandi, **K. Anitha**, *Ionics* (2017) 23: 2909-2917.
Impact Factor: 2.961; Citations: 13; DOI: 10.1007/s11581-017-2121-y
 44. Growth, structural, physical and computational perspectives of trans-4-hydroxy-l-proline: A promising organic nonlinear optical material with large laser-induced damage threshold, Ramaiah Thirumurugan and Kandasamy Anitha, *Mater. Res. Express*, 4 (2017) 056202.
Impact Factor: 2.025; Citations: 17; DOI:10.1088/2053-1591/aa6072

45. Structural, thermal, optical and nonlinear optical properties of ethylenediaminium picrate single crystals, Indumathi C., Sabari Girisun T.C., Anitha K., Alfred Cecil Raj S., *Journal of Physics and Chemistry of Solids*, 106 (2017) 37–43.
Impact Factor:4.383; Citations: 10; DOI: 10.1016/j.jpcs.2017.03.003
46. 2-Amino 4-methylpyridinium 3-chlorobenzoate – A phase matchable organic nonlinear optical material for optoelectronics device applications B. Babu , J. Chandrasekaran, R. Thirumurugan, **K. Anitha**, M. Saravanabhavan , *Optics and Laser Technology* 94 (2017) 253–260.
Impact Factor: 4.939; Citations:17; DOI:10.1016/j.optlastec.2017.04.007
47. Near UV excitable yellow light emitting Zn doped MgO for WLED application V.Vasanthi, M.Kottaisamy, **K. Anitha** and V.Ramakrishnan, *Superlattices and Microstructures* (2017), 106, 174-183.
Impact Factor:2.658; Citations: 24; DOI: 10.1016/j.spmi.2017.03.050
48. DNA interaction, antimicrobial, antioxidant and anticancer studies on Cu(II) complexes of Luotonin A, M.P. Kesavan, G.G. Vinoth Kumar, J. Dhavethu Raja, **K. Anitha**, S. Karthikeyan, J. Rajesh, *Journal of Photochemistry & Photobiology, B: Biology* (2017) 167, 20–28.
ImpactFactor:6.814; Citations:55;DOI:10.1016/j.jphotobiol.2016.11.024
49. Experimental and theoretical investigation on 2-amino 5- bromopyridinium L-tartrate- A new organic charge-transfer crystal for optoelectronics device applications,J. Chandrasekaran, B. Babu, R. Thirumurugan and **K. Anitha**, *Journal of Materials Science: Materials in Electronic* (2017), 28: 1124-1135.
Impact Factor: 3.841; Citations: 37; DOI: 10.1007/s10854-016-5637-4
50. Structural, optical, thermal, mechanical, dielectric and laser damage threshold studies of a succinate salt of creatinine for nonlinear optical applications, R. Thirumurugan and **K.Anitha** *Materials Letters*, 185 (2016) 214-217.
ImpactFactor:3.574; Citations:22; DOI:10.1016/j.matlet.2016.08.127
51. Elucidation of two photon absorption of ethylenediaminium (2,4-dinitrophenolate) crystals, C. Indumathi, TC. Sabari Girisun, **K. Anitha**, S. Alfred Cecil Raj, *Optical Materials*, (2016) 60, 214-220.
ImpactFactor:3.754; Citations:12; DOI:10.1016/j.optmat.2016.07.030
52. Experimental and Computational Perspectives on Bis(Creatininium) Succinate: An Efficient Organic Nonlinear Optical Material, Ramaiah Thirumurugan, Balraj Babu, Kandasamy Anitha and Joseph Chandrasekaran, *Z. Phys. Chem.* (2017)aop,
Impact Factor: 4.315; Citations: 9; DOI: 10.1515/zpch-2016-0896.
53. Synthesis, structural analysis and cytotoxic effect of copper (II)-thiosemicarbazone complexes having heterocyclic bases: A selective naked eye sensor for F- and CN-, S. MathanKumar, K. Dhahagani, J. Rajesh, **K. Anitha**, G. Chakkaravarthi, M. Marappan, G. Rajagopal, *Tetrahedron*, 85 (2015) 830-840.
Impact Factor: 2.975; Citations: 24; DOI:10.1016/j.poly.2014.09.044
54. Growth and physiochemical characterization of new organic crystal: L-ornithiniumdipicrate (LODP), S. Balaprabhakaran, J. Chandrasekaran, B. Babu, R. Thirumurugan and **K. Anitha**, *Spectrochimica Acta Part A Molecular Spectroscopy* ,136 (2015) 700-706.
Impact Factor: 4.098; Citations: 22; DOI: 10.1016/j.saa.2014.09.084
55. Investigation on Growth, Structure and Characterization of Succinate salt of 8-hydroxyquinoline- An organic NLO Crystal R. Thirumurugan, B. Babu, **K. Anitha**, J. Chandrasekaran, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 140 (2015) 44-53.
Impact Factor: 4.831; Citations: 42; DOI: 10.1016/j.saa.2014.12.093

56. Influence of Composites of Carbon Nano Cones and Disc on Photocatalytic Degradation Properties of Fluorinated TiO₂ Nanoparticles, M. Sangari, M. Umadevi, J. Mayandi, **K. Anitha** and Jean Patrick Pinheiro, *Materials Science in Semiconductor Processing*, 31 (2015) 543-550.
Impact Factor: 4.644; Citations: 11; DOI: 10.1016/j.mssp.2014.12.052
57. Synthesis, characterization, crystal structure and cytotoxic properties of thiosemicarbazideNi(II) and Zn(II) complexes, S. Mathan Kumar, J. Rajesh, **K. Anitha**, K. Dhahagani, M. Marappan, N. Indra Gandhi, G. Rajagopal. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 142 (2015) 292-302.
Impact Factor: 4.831; Citations: 16; DOI: 10.1016/j.saa.2015.01.080
58. Synthesis and spectral characterization of Schiff base complexes of Cu(II), Co(II), Zn(II) and VO(IV) containing 4-(4-aminophenyl) morpholine derivatives: Antimicrobial evaluation and Anticancer studies, K. Dhahagani, S. Mathankumar, G. Chakkaravarthi, **K. Anitha**, J. Rajesh and G. Rajagopal. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 117 (2014) 87-94.
Impact Factor: 4.831; Citations: 144; DOI: 10.1016/j.saa.2013.07.101
59. Synthesis, characterization, DNA-binding and cleavage studies of polypyridyl copper (II) complexes AmmavasiGubendran, Jegathalaprathaban Rajesh, Kandasamy Anitha and PeriyakaruppanAthappan, *Journal of Molecular structure*, 1075 (2014) 419-429.
Impact Factor: 3.841; Citations: 14; DOI: 10.1016/j.molstruc.2014.06.079
60. X-ray, vibrational spectra and quantum chemical studies on a new semiorganic crystal: 4-Chloroanilinium Perchlorate, R. Anitha, S. Athimoolam, M. Gunasekaran and **K. Anitha**, *Journal of Molecular structure*, 1076 (2014) 115-125.
ImpactFactor:3.84; Citations:35; DOI: 10.1016/j.molstruc.2014.07.035
61. Synthesis, growth, spectral and thermal properties of a new organic crystal: 2-carboxypyridin-1-ium tri chloroacetate, S. Gowri, **K. Anitha**, A. Suresh, T. Umadevi, S. Selvanayagam, D. Sajan, A. Chandramohan, N. Lawrence. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 95 (2012) 73-79.
Impact Factor: 4.831; Citations: 13; DOI: 10.1016/j.saa.2012.04.002
62. Synthesis, Structure and elucidation and spectroscopic analysis of 3a,8b-dihydroxy-4-oxo-1H,2H,3H,3aH,4H,8bH-indenol[1,2-d]imidazolidin-2-iminium chloride, T. Uma Devi, S. Priya, R. S. Selvanayagam, K. Ravikumar **K. Anitha**. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 97 (2012) 1063-1071.
Impact Factor: 4.098; Citations: 11; DOI: 10.1016/j.saa.2012.07.118
63. DL-methionine DL-methioninium picrate, K. Anitha, S. Athimoolam and R.K. Rajaram, *Acta Cryst. E62* (2006) 08-010.
Impact factor: 0.91; Citations: 13; DOI: 10.1107/S1600536805038948
64. L-prolinium picrate and 2-methyl Pyridinium picrate, **K. Anitha**, S. Athimoolam and S. Natarajan, *Acta Cryst. C62* (2006) 0567-0570.
Impact factor: 1.17; Citations: 23; DOI: 10.1107/S0108270106029209
65. Thiaminiumdipicrate, **K. Anitha**, S. Athimoolam and S. Natarajan (2006) *Acta Cryst. E62*, 02324-02326.
Impact factor: 0.91; Citations: 1; DOI: 10.1107/S160053680601720X
66. Pyridoxinium picrate, **K. Anitha**, S. Athimoolam and S. Natarajan, *Acta Cryst. C62* (2006), 0426-0428.
Impact factor: 1.17; Citations: 9; DOI: 10.1107/S0108270106018373
67. DL-phenylalanine DL-phenylalaninium picrate, **K. Anitha** and R.K. Rajaram, *Acta Cryst. E61* (2005) 0589-0591
Impact factor: 0.91; Citations: 1; DOI: 10.1107/S1600536805003491

68. L-asparaginium picrate, **K. Anitha**, S.Athimoolam and R.K. Rajaram, Acta Cryst. E61 (2005) 01463-01465.
Impact factor: 0.91; Citations:22; DOI:10.1107/S1600536805012080
69. Nicotinium picrate, **K. Anitha**, S.Athimoolam and R.K. Rajaram, Acta Cryst. E61 (2005) 02556-02558.
Impact factor: 0.91; Citations: 2; DOI:10.1107/S160053680502221X
70. L-leucine L-leucinium picrate, **K. Anitha**, S.Athimoolam and R.K. Rajaram (2005) Acta Cryst. E61, 01604-01606.
Impact factor: 0.91; Citations: 17; DOI:10.1107/S1600536805014030
71. L-asparaginium nitrate, A.Aarthy, **K. Anitha**, S.Athimoolam, S.A.Bahadur and R.K. Rajaram, Acta Cryst. E61 (2005) 02042-02044.
Impact factor: 0.91; Citations: 12; DOI: 10.1107/S1600536805017496
72. Nicotinium dihydrogen phosphate, S.Athimoolam, **K. Anitha**, and R.K. Rajaram, Acta Cryst. E61(2005) 02553 - 02555.
Impact factor: 0.91; Citations: 2; DOI: 10.1107/S160053680502221X
73. Diethyl[3-(2-methoxy-5-(1-methyl-1-phenylethyl)-2-phenyl)-2,3,4,5-tetrahydro isoxazole-4,5-dicarboxylate], V.Sridharan, P.Kalanidhi, K.Karthikeyan, S. Muthusubramanian, **K. Anitha** and R.K.Rajaram, Acta Cryst. E60 (2004) 02068 – 02069.
Impact factor: 0.91; Citations: 2; DOI:10.1107/S1600536804025681
74. 3-[2-methoxy-5-(1-methyl-1-phenylethyl)-phenyl]-2,5-diphenyltetrahydro-4-isoxazolyl (2-thienyl) methanone, V. Sridharan, S. PonSaravanakumar, S. Muthusubramanian, **K. Anitha** and B.Sridhar. Acta Cryst. E60(2004) 02503– 02505.
Impact factor: 0.91; Citations: 3; DOI:10.1107/S1600536804030296
75. L-Valinium picrate, **K. Anitha**, B. Sridhar and R.K. Rajaram, Acta Cryst. E60 (2004) 01530 - 01532.
Impact factor: 0.91; Citations: 34; DOI: 10.1107/S160053680401949X
76. β -Alanine β -Alaninium picrate, **K. Anitha**, B. Sridhar and R.K. Rajaram, Acta Cryst. E60(2004) 01630-01632.
Impact factor: 0.91; Citations: 19; DOI:10.1107/S1600536804019853
77. DL-Valine DL-Valinium picrate, **K. Anitha**, B. Sridhar and R.K. Rajaram, Acta Cryst. E60(2004) 01722-01724.
Impact factor: 0.91; Citations: 10; DOI:10.1107/S1600536804021877
78. L-Aspartic acid monohydrate, K. Umadevi, **K. Anitha**, B. Sridhar, N. Srinivasan and R.K. Rajaram, Acta Cryst. E59(2003) 01073-01075.
Impact factor: 0.91; Citations: 19; DOI:10.1107/S1600536803014041

1.2. Other Refereed Journals: Nil

1.3. Papers Published in Conference Proceedings

1. Growth, optical and spectral properties of 4-Bromoanilinium phthalate- A novel semi-organic crystal, P. Yogeswari, M. Tamil Elakkiya, S. Suresh Kumar and **K. Anitha** in the International conference on advanced materials for sustainable energy and sensors during 16-17, September, 2019 at Department of Physics, Alagappa University, Karaikudi. ISBN: 9 788192 046235.
2. Ag modified LaCoO₃ perovskite oxide for photocatalytic application, S. Jayapandi, V. Anitha Prakasini, and **K. Anitha**, AIP Conference Proceedings 1942, 140048 (2018); doi: 10.1063/1.5029179.

3. Defect related luminescence of Cd doped SnO₂ nanophosphor and its application in phosphor converted white LED, V. Vasanthi, M. Kottaisamy, **K. Anitha** and V. Ramakrishnan presented International conference on advanced functional materials for energy, environment and biomedical applications (AFMEEB-2017) during 11-12, December, 2017. ISBN: 938656812-8.
4. Growth and characterization of organic 2,4,6-triaminopyridinium 4-nitrophenolate single crystal, M. Tamil Elakkiya, P.Kavitha and **K.Anitha** AIP Conference Proceedings 1832, 100017 (2017); doi: <http://dx.doi.org/10.1063/1.4980619>
5. Synthesis, Crystal growth and characterization of Bioactive Material: 2-amino-1H-Benzoimidazol-3-ium salicylate single crystal-A proton transfer molecular complex, K. Saiadali fathima, **K. Anitha** AIP Conference Proceedings 1832, 100016 (2017); doi: <http://dx.doi.org/10.1063/1.4980618>
6. Experimental and computational approach to probe the key characteristics of creatinium 4-nitrobenzoate - An organic proton transfer complex for NLO applications, **K. Anitha** and R. Thirumurugan in International Conference on Recent Trends in Materials Science and Applications held on 6th January 2017 at Sri Meenakshi Govt. Arts College for Women, Madurai.
7. Structure Based Drug Design towards Dengue Virus, R. Thirumurugan and **K. Anitha** in International Conference on Recent Trends in Materials Science and Applications held on 6th January 2017 at Sri Meenakshi Govt. Arts College for Women, Madurai.
8. Chemical synthesis of ZnO/PANI nanocomposite and functional properties, T.Mathavan1, J. Archana, Y. Hayakawa, **K. Anitha**, M.A. Jothirajan, A. Divya, A. Milton Franklin Benial, Published in International Journal of ChemTech Research, ISSN: 0974-4290, Vol.7, No.3, pp 1253-1258, 2014-2015.
9. Synthesis and Structural investigation of (3e, 5e)-4,5-bis (4-fluoro Benzylidene)-1-Methyl Piperidine-4- One Single Crystal, K. Saiadali Fathima, **K. Anitha** Journal of Chemical and Pharmaceutical Sciences, ISSN: 0974-2115, special issue 11: october, 2015.
10. Influence of pH value on the preparation of SnO₂ Nanoparticles, S.Jayapandi, K.Nithya, **K.Anitha** Journal of Chemical and Pharmaceutical Sciences, ISSN: 0974-2115, special issue 11: october, 2015.
11. Synthesis, Growth and Structural Investigation Of 4-[(E)-(5-ethylfuran-2-yl)methylidene]amino}-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one, M. Tamil Elakkiya, R.Thirumurugan, **K. Anitha** Journal of Chemical and Pharmaceutical Sciences, ISSN: 0974-2115, special issue 11: october, 2015.
12. Synthesis and Structural study of 4-(2-Chlorophenyl)-2-ethoxy-5,6,7,8,9,10-hexahydro cycloocta [B]pyridine-3-carbonotrile, K. Saiadali fathima, M. Vasumathi, **K. Anitha** AIP Conference Proceedings; 2015, Vol. 1731, p100002.DOI:10.1063/1.4948008.
13. A Novel Organic Nonlinear Optical Crystal:Creatinium succinate, R. Thirumurugan, **K. Anitha** AIP Conference Proceedings; 2015, Vol. 1665, p100022.DOI:10.1063/1.4918050.

14. Studies on synthesis, Growth, Structural, Optical properties of organic 8- hydroxyl quinolinium succinate, R. Thirumurugan, **K. Anitha** AIP Conference Proceedings; 2014, Vol. 1591, p1226. DOI:10.10631/1.4872911

1.4. Papers Presented in Conferences / Seminars

1. Studies on Structural, Optical and Thermal properties of a New organic crystal: 3-Amino- 5- Phenyl 1-H Pyrazole, N. Divyapriya, S. Priyadharshini, **K. Anitha**, in the National conference on Recent Innovations in Biomolecules and Spectroscopy (NCRIBS - 2022) in association with Indian Spectro Physics Association (ISPA), on 4th November, 2022 at KandaswamiKandar's college, Velur, Namakkal- 618182. (Best Poster award)
2. Synthesis of MoS₂-LaCoO₃ nanocomposite for efficient degradation of methylene blue dye under sunlight irradiation, A. Koushalya, **K. Anitha**, in Indo- Norwegian International Online Conference on Functional Materials for energy, environment and biomedical applications (FARAON- 2022), on 02- 04, February, 2022 organized by Institute for Energy Technology (IFE), University of Oslo (UiO), Norway and Madurai Kamaraj University.
3. Crystal growth, Structural and theoretical investigations on new co- crystal 2-pyridine succinic acid, B. Abinaya, **K. Anitha**, in the International Conference on Growth of Crystals and their Technological applications (GCTA- 2022), on 10- 12 January, 2022 organized by SSN research Centre, SSN Institutions, Kalavakkam, Chennai. (Best Oral Presentation award)
4. A Neoteric PEI-CDs/LaFeO₃ as a Ratiometric Fluorescent Sensor for the Expeditious Detection of Cadmium Ion via Fluorescent 'Off-On' Mechanism and its Removal via Adsorption, Z. Nawas Sherif, **K. Anitha** in 2nd International Conference on Sustainable Materials and Technologies for Bio and Energy Application (SMBTEA – 2022) during 13 – 15th July, 2022 organized by SSN Institutions, Kalavakkam, Chennai – 603110.
5. Structural Investigations on 1-amino-4-methyl piperazine bis (4-nitrophenol), P. Yogheshwari, P. Karuppasamy, Muthu Senthil Pandian, P. Ramasamy, **K. Anitha**, International Conference On Solution Grown Crystals And Their Useful Applications, 13-15, September, 2021 at SSN research Centre, SSN Institutions, Kalavakkam, Chennai .
6. Experimental and quantum chemical investigations on Imidazolium Quinoline- 2-carboxylate dihydrate (IQD), **K. Anitha** , R. Thirumurugan and P. Yogheshwari, 2nd International Symposium On Modelling Of Crystal Growth Processes And Devices during 5-8, July 2021 at SSN research Centre, SSN Institutions, Kalavakkam, Chennai .
7. Structural and Nonlinear Optical Studies of 2,4,6-triaminopyrimidine-1,3-dium L-tartrate, **K. Anitha** and R. Thirumurugan in the 4th International Conference on Recent Trends in Applied Science and Technology (Online) (ICRTAST-2020) during 26-29 December, 2020 in Department of Physics, Bharathidasan University, Trichy.

8. Structural investigations on 4-bromoaniline oxalic acid monohydrate, P. Yogeswari, M. Tamil Elakkiya, S. Suresh Kumar and **K. Anitha** in the National conference on design and applications of emerging materials (NCDAEM-2020) on 19th February, 2020 organised by NMSSVN College, Madurai-19. (Best Poster Award)
9. Structural, optical, thermal and SHG studies on new organic NLO co-crystal:4-pyridone succinic acid, M. Subha and **K. Anitha** in the 24th National seminar on crystal growth and applications during 3-5 February, 2020 organized by Department of Physics, Periyar University, Salem.
10. Experimental investigations on Bromoanilinium malonate, P. Yogeswari, M. Tamil Elakkiya, S. Suresh Kumar and **K. Anitha** in the 24th National seminar on crystal growth and applications during 3-5 February, 2020 organized by Department of Physics, Periyar University, Salem.
11. Studies on bioactive single crystal 2,4,6-triaminopyrimidinium nitrobenzoate, M. Tamil Elakkiya and **K. Anitha** in the 24th National seminar on crystal growth and applications during 3-5 February, 2020 organized by Department of Physics, Periyar University, Salem.
12. Photocatalytic activity of (Nb, Co) co-doped SnO₂ nanoparticle for efficient photodegradation under direct sunlight irradiation, S. Jayapandi, S. Sharmiladevi, M. Pathipoornalakshmi, **K. Anitha** in the National conference on Recent trends in material science and its technological applications, PG Department of Physics, JayarajAnnapackiam College for women, Periyakulam on 8thFebruary, 2019.
13. The effect of 2-hydroxy benzoic acid on the physico-chemical characterization of 3-hydroxy pyridine: a new second order NLO crystal, M. Subha and **K. Anitha** in the 23rd National seminar on crystal growth and applications during 28-30, January 2019 organized by Department of Physics, Bharathiar University, Coimbatore.
14. Vibrational spectroscopic, Structural, quantum chemical studies and bioactivity on 2-aminopyrazinium 3-carboxy picolinate single crystal, M. Tamil Elakkiya and **K. Anitha** in the 23rd National seminar on crystal growth and applications during 28-30, January 2019 organized by Department of Physics, Bharathiar University, Coimbatore.
15. Growth and characterization of 4-aminopyridinium salicylate single crystal with DFT approach, P. Justin, W. Jenifer and **K. Anitha** in the International Conference on Advanced Materials and Nanotechnology ICAMN'18 on 15 October 2018 Organized by PG & Research Department of Physics Gonzaga College Of Arts & Science For Women (Affiliated to Periyar University, Salem) Kathampallam, Elthagiri 635 108, Krishnagiri District.
16. Photocatalytic activity of visible light induced (Nb, Co) co-doped SnO₂ nanoparticles for effective photodegradation, S. Jayapandi and **K. Anitha** presented paper at India-UK International Conference on Advanced Nanomaterials for Energy, Environment and Healthcare Applications (ANEH-2018) in KSR College of Arts and Science for women during 31st August- 1st September, 2018.
17. Synthesis, Crystal growth, Structural elucidation and Hirshfeld surface analysis of 2-amino benzothiazolium 2-hydroxy benzoate single crystal, M. Subha and **K. Anitha** presented paper at National seminar on Advanced Materials and Applications, in

Karpagam Academy of Higher Education (Deemed University), Coimbatore during February 15-16, 2018

18. Augumentedphotocatalytic and electrochemical activities of Ag tailored LaCoO₃ perovskite semiconductor, S. Jayapandi, D. Lakshmi, S. Premkumar, P. Packiyaraj and **K. Anitha** presented at the International symposium on Nanomaterials for clean energy and health applications, in Coimbatore Institute of Technology, Coimbatore, during December 6-8, 2017
19. Ag Modified LaCoO₃ Perovskite Oxide for Photocatalytic Application, S. Jayapandi, V. Anitha Prakasini, **K. Anitha**, presented at the 62nd DAE Solid State Physics Symposium to be held at DAE Convention Centre, Bhabha Atomic Research Centre, Mumbai during 26- 30 December, 2017.
20. Antibacterial activity and Optical studies for 2,4,6 Trichloro S-Triazine- an organic Single Crystal by M. Subha, **K. Anitha** in the International Conference on Functional Materials(ICFM 2017) during Sep 7th and 8th, 2017 at PG and Research Department of Chemistry, Thiagarajar College, Madurai-625 009.
21. P.Vasantha Kumar, V.Vasanthi, and **K. Anitha** presented Synthesis and Characterization of Magnesium Oxide Nanoparticles in the International Conference on Functional Materials (ICFM 2017) at PG and Research Department of Chemistry, Thiagarajar College, Madurai-625 009, during Sep 7th and 8th, 2017.
22. P.Vasantha Kumar, V.Vasanthi, and **K. Anitha**, presented Preparation, characterization and photocatalytic activity of MgO nanoparticles for the degradation of Rose Bengal dye in International Conference On 'Frontier Areas in Chemical Technologies' (FACTs-2017) at Department of Industrial Chemistry, Alagappa University, Karaikudi – 630003, held on 06 - 08 July, 2017.
23. Single Crystal XRD, Vibrational Spectra and Optical Studies on an organic crystal: 2,4,6-Triaminopyrimidinium Malonate by M. Tamil Elakkiya and **K. Anitha** in the International Conference on Functional Materials(ICFM 2017) during Sep 7th and 8th, 2017 at PG and Research Department of Chemistry, Thiagarajar College, Madurai-625 009.
24. Doping effect of formic acid on Growth, Spectral, Linear and Nonlinear optical properties of Glycine single crystal by P.Justin and **K. Anitha** in the International Conference on Functional Materials(ICFM 2017) during Sep 7th and 8th, 2017 at PG and Research Department of Chemistry, Thiagarajar College, Madurai-625 009.
25. Synthesis, Crystal Growth and Characterization of Bioactive Material: 2-Amino-1H-Benzimidazolium Pyridine-3-Carboxylate Single Crystal-A Proton transfer molecular complex by K. Saiadali Fathima and **K. Anitha** in the International Conference on Functional Materials(ICFM 2017) during Sep 7th and 8th, 2017 at PG and Research Department of Chemistry, Thiagarajar College, Madurai-625 009.
26. Investigation on emission properties of Zn doped γ Ga₂O₃ nanoparticles towards p-WLED application, V. Vasanthi, **K. Anitha**, M. Kottaisamy, V. Ramakrishnan in International conference on Advanced Materials Science and Technology (ICAMST-2017) held on 17-19 August, 2017 at Department of Physics, Bannari Amman Institute of Technology, Sathyamangalam, Erode-638 041.

27. A Novel Solvent For Liquid Phase Exfoliation of Few Layer Graphene Nanosheets, V. Vasanthi, **K. Anitha**, M. Kottaisamy, V. Ramakrishnan in 4th International Conference on nanoscience and nanotechnology (ICONN), held on August, 9-11, 2017 at Department of Physics and NanoTechnology, SRM University, Kattankulathur, Chennai.
28. Optical and Antibacterial activity studies for 2(Pyridine-2-yl) an organic Single Crystal by M. Subha, **K. Anitha** in One Day International Seminar on Materials Science and Technology (ISMST 2017) held on Aug 4th 2017 at Mother Theresa University, Kodaikanal.
29. Synthesis, Growth and Characterization of 2-((1H-benzo[d]imidazol-2-yl)amino)-1-phenylethan-1-one(C₁₅ H₁₃ N₃ O) single crystal, K. Saiadali Fathima and **K. Anitha** held on July10-13, 2016 in 44th National Seminar on Crystallography, IISER, Pune.
30. Growth and characterization of organic 2,4,6-triaminopyridinium 4-nitrophenolate single crystal, M. Tamil Elakkiya, P.Kavitha and K.Anitha in 61st DAE-Solid State Physics Symposium held onDecember, 26-30, 2016, KIIT University, Bhubaneswar.
31. Synthesis, Crystal growth and characterization of Bioactive Material: 2-amino-1H-Benzoimidazol-3-ium salicylate single crystal-A proton transfer molecular complex, K. Saiadali fathima, **K. Anitha** in 61st DAE-Solid State Physics Symposium held onDecember, 26-30, 2016, KIIT University, Bhubaneswar.
32. Study of defect induced photoemission of Cd doped SnO₂nanoparticles ,V. Vasanthi, **K. Anitha**, M. Kottaisamy, V. Ramakrishnan in International Conference on Nanomaterials and Molecular Research (ICNMR-2016) held on December, 9-10, 2016 at St. Joseph's College, cuddalore.
33. Investigation on structural, morphological and optical properties of (Co, Nb) co-doped SnO₂ nanoparticles, S.Jayapandi, **K.Anitha** in International Conference on Nanomaterials and Molecular research (ICNMR-2016) held on December, 9-10, 2016 at St. Joseph's College, cuddalore.
34. Vibrational spectra of bioactive single crystal: 2-((1H-bezo(d)imidazole-2-yl)amino)-1-phenylethan-1-one (C₁₅H₁₃N₃O) K. Saiadali Fathima, **K.Anitha** in International Conference on Nanomaterials and Molecular research (ICNMR-2016) held on December, 9-10, 2016 at St. Joseph's College, cuddalore.
35. Structure based drug design: DPT molecule, R. Thirumurugan, **K. Anitha** in International Conference on Nanomaterials and Molecular research (ICNMR-2016) held on December, 9-10, 2016 at St. Joseph's College, cuddalore.
36. Synthesis, crystal growth and characterization of organic crystal:2-mrthyl-4-nitroanilinium succinate, M. Tamil Elakkiya, **K. Anitha** in International Conference on Nanomaterials and Molecular research (ICNMR-2016) held on December, 9-10, 2016 at St. Joseph's College, cuddalore.
37. Influence of pH in La³⁺ doped SnO₂ nanoparticle preparation, S.Jayapandi, **K.Anitha** in 15th Asian Conference on solid State Ionics held on November, 27-30, 2016 at IIT, Patna.
38. Chemical synthesis of ZnO/PANI nanocomposite and functional properties, T.Mathavan1, J. Archana, Y. Hayakawa, **K. Anitha**, M.A. Jothirajan, A. Divya, A. Milton Franklin Benial, in ICONN 2015 [4th - 6th Feb 2015] International

- Conference on Nanoscience and Nanotechnology-2015, SRM University, Chennai, India.
39. Growth and Characterization of an Organic Crystal: Trans-4-hydroxy-L-proline, R. Thirumurugan, **K. Anitha** in National Conference on Advanced Materials for Energy and Environmental Applications (AMEEA 2015) held on March, 18 – 20, 2015 at School of Physics, Bharathiar University, Coimbatore - 641046.
 40. Growth and Characterization of an Organic Crystal: Phenylurea, R. Thirumurugan, **K. Anitha** in National Conference on Advanced Materials for Energy and Environmental Applications (AMEEA 2015) held on March, 18 – 20, 2015 at School of Physics, Bharathiar University, Coimbatore-641046.
 41. Synthesis and Structural investigation of (3e, 5e)-4,5-bis (4-fluro Benzylidene)-1-Methyl Piperidine-4- One Single Crystal, K. Saiadali Fathima, **K. Anitha** in International Conference On Recent Advancements in Materials (ICRAM 2015) held on October, 16-17, 2015 at Anna university, BIT Campus, Trichy.
 42. Influence of pH value on the preparation of SnO₂ Nanoparticles, S.Jayapandi, K.Nithya, K.Anitha in International Conference On Recent Advancements in Materials (ICRAM 2015) held on October, 16-17, 2015 at Anna university, BIT Campus, Trichy.
 43. Synthesis, Growth and Structural Investigation Of 4-[[E)-(5-ethylfuran-2-yl)methylidene]amino}-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one, M. Tamil Elakkiya, R.Thirumurugan, **K. Anitha** in International Conference On Recent Advancements in Materials (ICRAM 2015) held on October, 16-17, 2015 at Anna university, BIT Campus, Trichy (Published in the Journal of Chemical and Pharmaceutical Sciences, ISSN: 0974-2115, special issue 11: october, 2015)
 44. Synthesis and Structural study of 4-(2-Chlorophenyl)-2-ethoxy-5,6,7,8,9,10-hexahydro cycloocta [B]pyridine-3-carbonitrile, K. Saiadali fathima, M. Vasumathi, **K. Anitha** in 60th DAE Solid State Physics Symposium held on December, 21-25, 2015 at Amity University UP, Noida.
 45. Studies on synthesis, growth, strutral, optical properties of organic 8-Hydroxyquinolinium trichloroacetate single crystals, R. Thirumurugan, **K. Anitha** in International Conference on Materials and Characterization Techniques held on 10-12, March 2014 at Centre for Crystal growth, School of Advance Sciences, VIT University, Vellore, Tamil Nadu.
 46. Synthesis, Growth, Structural, Spectral and thermal properties of a new organic crystal: Creatininium tartrate monohydrate, R. Thirumurugan, **K. Anitha** in National Seminar on Crystallography (NSC-43B) and National workshop on CADD held on September, 1-3, 2014 at Department of Physics, Sardar Patel University, Vallabh Vidyanagar, Gujarat.
 47. Hydrogen bonded supramolecular motifs in the 1:1 proton transfer compounds of 2-amino-4-methylpyridine with succinic acid , oxalic acid and benzoic acid, R. Thirumurugan, **K. Anitha** in National Seminar on X-ray Crystallography (NSXC-2014) held on 29th September,-1st October, 2014 at School of Physics, Madurai Kamaraj University, Madurai-625021.

48. Physical and Chemical Characterization of Commercially available paracetamol drugs, B. Aarthee, S. Jayapandi, **K. Anitha** in National Seminar on X-ray Crystallography (NSXC-2014) held on 29th September,-1st October, 2014 at School of Physics, Madurai Kamaraj University, Madurai-625021.
49. Synthesis, Growth and Structural Investigation of Ethyl 2-(Benzoyloxy) Benzoate an Organic Single Crystal, K. Saiadali Fathima, I. Ayswariya, **K. Anitha** in National Seminar on X-ray Crystallography (NSXC-2014) held on 29th September,-1st October, 2014 at School of Physics Madurai Kamaraj University, Madurai-625021.
50. A Novel Organic Nonlinear Optical Crystal: Creatininium succinate, R. Thirumurugan, **K. Anitha** in 59th DAE-Solid State Physics Symposium held on December, 16 -20, 2014, VIT University, Vellore.
51. Studies on synthesis, Growth, Structural, Optical properties of organic 8- hydroxyl quinolinium succinate, R. Thirumurugan, **K. Anitha** in 5^{8th} DAE-Solid state Physics symposium at Thapar University, Patiala, Punjab December 17-21, **2013**.
52. Growth, structural, spectral, thermal, dielectric and photoconductivity properties of a new organic single crystal: Creatininium hydrogen succinate, R. Thirumurugan, V. Ramakrishnan, **K. Anitha**, in International conference on Advanced Materials, Processing and Devices (AMPD-2013) held on 15-16 July, **2013** at Department of Material Science, School of Chemistry, Madurai Kamaraj University, Madurai-21.
53. Crystal Structure analysis of (E)-3-(2-chlorophenyl)-1-(1H-indol-3-yl)-2-propen-1-amine, **K. Anitha**, S. Suresh kumar, V. Jeyachandran and R. Ranjith kumar in “National conference on Recent Advances in Applied Sciences” at Dr. MGR Educational and Research Institute University, Chennai during 10-11 February, **2012**.
54. Structural Investigation of Thiaminium Chloride Cadmium Bromide Single Crystal, S. Suresh kumar, B. Sridhar, **K. Anitha**, in 41st National Seminar on Crystallography, at CAS in Crystallography and BioPhysics, University of Madras, Chennai, 8-10, October, **2012**.
55. Synthesis, Growth and Crystal Structure of Dibromo bis(creatinine) Cadmium(II) semi organic Crystal, R. Thirumurugan, **K. Anitha**, in 41st National Seminar on Crystallography, at CAS in Crystallography and Biophysics, University of Madras, Chennai, 8-10, October, **2012**.
56. Structural Studies of Picolinium trichloro acetate, A. Suresh, **K. Anitha** in “National Conference on Recent Trends in Material Science and their Applications” at Department of Physics, N. P. R Arts & Science College on 30th September, **2011**.
57. ‘Hydrogen bonding motif in 2- carboxy pyridinium derivatives’ A. Suresh, K. Moovendaran, **K. Anitha** in “40th National Seminar on Crystallography” at Department of Physics, Osmania University, Hyderabad during 26th -28th November, **2011**.
58. ‘Crystallographic Studies on Some Biologically Important Complexes’ **K. Anitha**, S. Natarajan, “National Conference on Recent Advances in Physics” at Spectro Physics Research Laboratory, Pachaiyappa’s College, Chennai -600 030 during 1-2 Feb, **2008**.
59. ‘Analyses of some vitamin picrates’ ,**K. Anitha**, S. Natarajan, “36th National Seminar on Crystallography” at Department of Crystallography and Bio-Physics, University of madras, Chennai during 22-24 Jan, 2007.

60. 'Complexes of Amino acids with picric acid' ,**K. Anitha**, S. Natarajan, "36th National Seminar on Crystallography" at Department of Crystallography and Bio-Physics, University of Madras, Chennai during 22-24 Jan, 2007.
61. 'Structure analysis of di-thiaminiumpicrate',**K. Anitha**, S. Athimoolam, R. K. Rajaram, "35th National Seminar on Crystallography" at National Physical Laboratory, Delhi during 22-24 Feb, 2006
62. 'Structure analysis of dl-methionine dl-methioninium picrate', **K. Anitha**, S. Athimoolam, R. K. Rajaram, 35th National Seminar on Crystallography" at National Physical Laboratory, Delhi during 22-24 Feb, 2006
63. 'Amino acid picrates',**K. Anitha**, S. Athimoolam, R. K. Rajaram, 35th National Seminar on Crystallography at National Physical Laboratory, Delhi during 22-24 Feb, 2006.

2. Conferences / Seminars / Workshops / Webinars Attended

1. Participated in "A Virtual one-day National workshop on Effective drafting and filing of Patents organised by the Internal Quality Assurance Cell (IQAC) & Centre for Intellectual property Rights (CIPR) Annamalai University on 11 November, 2022.
2. Participated in International Seminar on Non-linear Physics (Online) organized by SSN centre for Radiation, Environmental Science and Technology in association with Indian Spectro Physics Association 110 on 5th June, 2021 at SSN College of Engineering, Kalavakkam – 603.
3. Participated in 2nd International Symposium on Modeling of Crystal Growth Processes and Devices during 5-8, July 2021 at SSN research Centre, SSN Institutions, Kalavakkam, Chennai.
4. Participated in the 4th International Conference on Recent Trends in Applied Science and Technology (Online) (ICRTAST-2020) during 26-29 December, 2020 in Department of Physics, Bharathidasan University, Trichy.
5. Participated in the 24th National seminar on crystal growth and applications during 3-5 February, 2020 organized by Department of Physics, Periyar University, Salem.
6. Participated in the 23rd National seminar on crystal growth and applications during 28-30, January 2019 organized by Department of Physics, Bharathiar University, Coimbatore.
7. Participated in National symposium on Functional Nanomaterials held at School of Physics, Madurai Kamaraj University, Madurai, on 4-5th, January, 2019.
8. Participated one day state level workshop on Global Ranking of Universities: Present scenario conducted by IQAC, Madurai Kamaraj University, Madurai on 22.03.2019
9. Participated 5day training on counselling during 29 April, 2019-3rd May, 2019 organized by Centre for Students Counselling Cell, Madurai Kamaraj University, Madurai-625 021
10. Participated in the two day workshop on Nanomaterials Characterization by electron Microscopy (WNCCEM-2018) held during 21-22 February, 2018 at Madurai Kamaraj University, Madurai.

11. Participated in the GIAN course on Solar Cells, Materials and Modeling during May 29-June, 2017 organized by the Department of Materials Science, School of Chemistry, Madurai Kamaraj University, Madurai - 625021.
12. Participated in the workshop on Intellectual Property Rights and Information Management in Knowledge Era' conducted by Internal Quality Assurance Cell, Madurai Kamaraj University, Madurai-21 on April 10, 2017.
13. Participated and presented paper in the International Conference on Recent Trends in Materials Science and Applications held on 6th January 2017 at Sri Meenakshi Govt. Arts College for Women, Madurai.
14. Participated in the "One day Workshop on Teaching and Research Methodologies in Physics (TRMP-2016)" on 25th October, 2016 at School of Physics, Madurai Kamaraj University, Madurai-21.
15. Participated in the "International Lecture Workshop on Advanced Materials Engineering" (PiE-IV) on 26th September, 2016 at Department of Physics, Thiagarajar College of Engineering, Madurai -15.
16. Participated in the Two days workshop on "High Resolution Transmission Electron Microscopy" on 7-8, January, 2016 at CIC, Madurai kamaraj University, Madurai- 21.
17. Participated and Papers presented in the "International conference on Advanced Materials, Processing and Devices (AMPD-2013)" at Department of Material Science, School of Chemistry, Madurai Kamaraj University, Madurai-21, held on 15-16 July, 2013.
18. Participated in the "Workshop on Powder, Nano, Thin film characterization using X-ray diffraction techniques" in Department of Physics, Avinashiligham University, Coimbatore-641 043, during September 26-27, 2012.
19. Participated and Papers presented in the "41st National Seminar on Crystallography", at CAS in Crystallography and Biophysics, University of Madras, Chennai-25, on 8-10, October, 2012.
20. Participated in the seminar on "Thin film Techniques and Characterization" organized by UGC held at S. Vellaichamy Nadar College, Madurai-19 on 11th Feb 2010.
21. Participated and Papers presented in the "National Conference on Recent Advances in Physics" at Spectro Physics Research Laboratory, Pachaiyappa's College, Chennai - 600 030 during 1-2 Feb, 2008.
22. Participated in the "6th National Conference on Emerging Trends in Crystal Growth and Nano Materials" organized by DST, CSIR at Department of Physics, Loyola College, Chennai -600 034 during 28-29 Feb, 2008.
23. Participated in the "National conference on Innovations in higher education-Quality enhancement and sustenance" held at Women's Christian College, Nungambakkam, Chennai-36 during 7-8 march 2008.
24. Participated and Papers presented in the "36th National Seminar on Crystallography" at Department of Crystallography and Bio-Physics, University of madras, Chennai during Jan 22-24, 2007.

25. Participated in the “Frontiers in Condensed Matter Physics” organized by UGC-DRS at School of Physics, Madurai Kamaraj University, Madurai during February 27-28, 2006.
26. Participated in the “Seminar on Photonics” held at School of Physics, Madurai Kamaraj University, Madurai during July 18-19, 2005.
27. Attended the “Regional conference on Photoacoustics in Condensed matter Physics and NDT” organized by UGC-DRS at School of Physics, Madurai Kamaraj University, Madurai during March 8 & 9, 2004.
28. Participated in the seminar on “Computer Simulation in Physics” organized by UGC-DRS programme, held at School of Physics, Madurai Kamaraj University, Madurai during February 4-5, 2002.

3. Details of Deposits in CCDC, PDB, etc.

S.No	Name of Deposit	CCDC Number	Date of Deposition
1.	L-aspartic acid monohydrate	217624	13/10/2003
2.	L-Valinium picrate	251720	10/11/2004
3.	B-alaninium β -alanine picrate	251753	10/11/2004
4.	DL-Valine DL-Valinium picrate	252981	06/01/2005
5.	Diethyl 3-(2-methoxy-5-(1-methyl-1-phenylethyl)phenyl)-2-phenyl-2,3,4,5-tetrahydroisoxazole-4,5-dicarboxylate	255917	20.01.2005
6.	3-(2-Methoxy-5-(2-phenyl-2-propyl)phenyl)-2,5-diphenyl-1,2,3,4-tetrahydr o-4-isoxazolyl(2-thienyl) methanone	259861	22/02/2005
7.	L-Asparaginium picrate	271870	31/08/2005
8.	L-leucine L-leucinium picrate	274341	22/06/2005
9.	DL-phenylalanine DL-phenylalaninium picrate	269874	11/07/2005
10.	L-Asparaginium nitrate	277202	03/08/2005
11.	Nicotinium picrate	282636	12/10/2005
12.	Nicotinium dihydrogen phosphate	282637	12/10/2005
13.	DL-methionine DL-methioninium picrate	296577	08/03/2006
14.	Thiaminium dipicrate	610831	17/07/2006
15.	Pyridoxinium picrate	616146	20/08/2006
16.	L-prolinium picrate	621290	05/10/2006
17.	2-methylpyridinium picrate	621291	05/10/2006
18.	2-Carboxy pyridinium trichloroacetate C ₈ H ₆ Cl ₃ N ₂ O ₄	839419	16.08.2011
19.	C ₁₈ H ₁₉ N ₃ O ₂	881466	11.05.2012
20.	C ₁₉ H ₁₃ Cl ₃ O ₁	861213	06.01.2012
21.	(2E)-3-(2-chlorophenyl)-1-(1H-indol-3-	859501	05.12.2012

	yl)propen-1-amine C17 H12 Cl1 N1 O1		
22.	Ninhydrin guanidinium chloride	873619	03/04/2013
23.	C33 H28 N4 O1 S2	884541	17.01.2013
24.	C16 H22 N6 O10	894398	01/08/2012
25.	(3Z,5E)-3,5-bis(4-fluorobenzylidene)-1-methylpiperidin-4-one C20 H17 F2 N1 O1	898373	28/08/2012
26.	C26 H17 Cu1 I2 N5 O1 S1, C3 H6 O1	923697	07/02/2013
27.	C24 H17 Br1 Cl1 N5 O1 S1 Zn1, C1 H1 Cl3	923698	07/02/2013
28.	C26 H17 Br1 Cl1 N5 O1 S1 Zn1, C3 H6 O1	923702	07/02/2013
29.	2-((4-morpholinophenylimino)methyl)-6-tert-butylphenol C21 H26 N2 O2	927997	06/03/2013
30.	C12 H18 Br4 Cd1 Cl1 N4 O1 S1	929009	13/03/2013
31.	creatininium hydrogen succinate C24 H40 N12 O12	932097	03.04.2013
32.	((3,5-diiodo-2-oxidobenzyledene)-4-phenylthiosemicabazonato-N,O,S)-(triphenylphosphine)-nickel(ii)	936705	30/04/2013
33.	(2,2'-bipyridine)-(N'-(2-oxy-3,5-di-idobenzylidene)-N-phenylcarbamo hydrazonothioato)-zinc(ii) C24 H17 I2 N5 O1 S1 Zn1, C1 H4 O1	937378	04/05/2013
34.	C8 H14 Br2 Cd1 N6 O2	937678	06/05/2013
35.	C20 H21 Cl1 N2 O1	942545	03/06/2013
36.	C19 H22N2O3	942031	30.05.2013
37.	C17 H18 N2 O2	942032	30/05/2013
38.	C9 H8 N1 O1, C7 H5 N1 O4 C7 H4 N1 O4, 4(H2O)	948921	05/06/2013
39.	C9 H8 N1 O1 C2 Cl3 O2	947530	27/06/2013
40.	C9 H8 N1 O1 Cl1 O4	943835	11/06/2013
41.	C9 H8 N1 O1, C4 H5 O4	943652	10/06/2013
42.	C4 H8 N3 O1, C4 H5 O6	940340	20/05/2013
43.	Bis(1,10-phenanthroline) acetate-copper perchlorate dIhydrate C26 H19 Cu1 N4 O2, Cl1 O4, 2(H2O)	978458	23/12/2013
44.	C46 H62 Co1 N4 O2	982390	03/10/2016
45.	4-chloroanilinium perchlorate	998662	21/04/2014
46.	C34 H30 N3 O2 P1 Pd1 S1	1002126	09/05/2014
47.	C34 H30 N3 O3 P1 Pd1	1002127	09/05/2014
48.	C32 H24 Br1 Cl1 N3 O1 P1 Pd1 S1	1002128	09/05/2014
49.	C32 H24 I2 N3 O1 P1 Pd1 S1	1002129	09/05/2014
50.	L-ornithinium picrate C17H18N8O16	1007643	10/06/2014
51.	2,4,6-triaminopyrimidinium hydrogen tartrate monohydrate	1006834	04/06/2014
52.	1H-imidazol-3-ium 6-carboxypyridine-2-carboxylate C10H9N3O4	1429115	01/10/2015
53.	2-amino-5-bromopyridinium L-tartrate C9 H11 Br N2 O6	1047868	05/02/2015
54.	L-phenylalaninium methane sulfonate C10H14 N O5 S	1050462	19/02/2015

55.	C20 H18 Cl4 Co1 N2 Ni1O4	1443809	03/10/2016
56.	C20 H18 Cl4 N2 Ni1O4	1443810	03/10/2016
57.	C13 H9 F2 N1 O1	1443811	03/10/2016
58.	C21 H29 N3 O1	1507849	03/10/2016
59.	C50 H70 Co1 N4 O2	1507850	03/10/2016
60.	C19 H25 N3 O1	1507853	03/10/2016
61.	C23 H32 N2 O1	1507854	03/10/2016
62.	Dihydrogen ethylene diamine hydrogen ethylenediamine tripicrate dihydrate	1503855	11/09/2016
63.	C7H8N3, C6H4N1O2	1517896	18.11.2016
64.	Creatininium -4-nitrobenzoate C7H4N1O4, C4H8N3O1	1526431	10.01.2017
65.	4-chloro-({[(-2-phenyl(sulfonyl)phenyl] imino)methyl]phenol	1530024	28/01/2017
66.	6a-Hydroxy-1-methyl-4-phenyl-2,3,6,6a-tetrahydro-1H,4H,11H-3a,6-methanoindeno [2',1':4,5]thiopyrano[4,3-b]pyrrole-11,12-dione	1532098	10/02/2017
67.	1'-methyl-2H-dispiro[cyclooctane-1,3'-pyrrolidine-2',2''-indene]-1'',2,3''-trione	1532099	10/02/2017
68.	5-benzyl-7a-hydroxy-1-methyl-2,3,5,6,7,7a-hexahydro-1H-3a,7-methanoindeno[2,1-d]pyrrolo[3,2-c]azepine-12,13(4H)-dione	1532100	10/02/2017
69.	5a,10a-dihydroxy-3-methyl-2,3,4,5,5a,10a-hexahydro-1,5-methanoindeno [1,2-d] azepine-10,11(1H)-dione	1532101	10/02/2017
70.	C6H9N2, C7H4N1O4	1538768	18.03.2017
71.	C7H8N3, C6H3N2O5	1538769	18.03.2017
72.	C9H9N2, C8H5O4	1538772	18.03.2017
73.	C7H8N3, C7H5O3	1538773	18.03.2017
74.	C7H5O3, C5H7N2O1	1540580	28.03.2017
75.	C7H8N3, C5H6O4	1541732	03.04.2017
76.	Pyrazine-2-amine benzene dicarboxylic acid C8H6O4, C5H5N3	1541879	03.04.2017
77.	2-amino pyrazinum 3-carboxy picolinate C7H4N1O4, C4H6N3	1541880	03.04.2017
78.	C7H8N3, C3H4O4, C3H3O4, H2O1	1541982	04.04.2017
79.	C5H8O4, C1H4N2S1	1563358	19.07.2017
80.	2-amino-4,6-dimethyl pyridine 4-nitrophenol	1565107	27.07.2017
81.	4-methyl piperazine-1-amine 4-nitrophenol	1567516	08.08.2017
82.	2-amino-3-methylpyridinium 4-nitrophenolate 4-nitrophenol	1569061	22.11.2017
83.	C6H6O4, C5H5N1O1	1578205	05.10.2017
84.	4-hydroxy pyridinium hydrogen malonate C5H6N1O1, C3H3O4	1578206	05.10.2017
85.	C9H7O2, C7H7N2S1	1581888	25.10.2017
86.	C10H11N3O3, C9H1N1O2	1581988	25.10.2017
87.	2-nitropyridine-3-ol	1586089	16/11/2017

88.	C7 H7 N2 S1, C7 H6 O3	1586510	20/11/2017
89.	C8 H7 N1 O3 S1, C6 H6 O1	1586524	20/11/2017
90.	C7 H8 N3, C7 H4 N1 O5	1813251	23/12/2017
91.	C7 H4 N1 O5, C4 H6 N3	1813253	23/12/2017
92.	C7 H5 O3, C5 H6 N1 O1	1814892	05/01/2018
93.	C10 H16 O4, C7 H7 N2 S1, C7 H6 N2 S1	1586518	20/11/2017
94.	C20 H18 Cl4Co1 N2 O4	1443809	22.12.2015
95.	C13 H9 F2 N1 O1	1443811	22.12.2015
96.	C20 H18 Cl4 N2 Ni4 O4	1443810	22.12.2015
97.	C7 H5 O3, C5 H6 N1 O1	1814892	05.01.2018
98.	C7 H8 N3, C6 H4 N1 O2	1837525	16.04.2018
99.	C7 H6 N1 O2, C5 H6 N1 O1	1859381	31.07.2018
100.	3-hydroxy pyridinium malonate C5 H6 N1 O1, C3 H3 O4	1868552	19.09.2018
101.	Quinoline-4-nitrophenol C9H7N1, C6 H5 N1 O3	1870438	16.03.2020
102.	Hexamethylene diaminium bis(4-nitrophenolate) 4-nitrophenol C18 H27 N4 O6	1871052	02.10.2018
103.	C4 H5 O6, C4 H6 N3	1878220	10.11.2018
104.	C4 H8 N5, C7 H4 N1 O4	1878222	10.11.2018
105.	4-aminopyridinium salicylate C7 H5 O3, C5 H7 N2	1882363	30.11.2018
106.	C6 H6 N2 O3	1888262	02.01.2019
107.	C6 H14 N4 O2, C1 H4 O3 S1	1881522	20.03.2019
108.	C6 H7 Br1 N1, C3 H3 O4	1905295	25.03.2019
109.	C6 H7 Br1 N1, C4 H3 O4	1905296	25.03.2019
110.	C8 H5 O4, C6 H7 Br1 N1	1905297	25.03.2019
111.	C7 H6 N3 O2, H2 O4 P1	1905299	25.03.2019
112.	C6 H7 Br1 N1, C2 H1 O4, H2 O1	1905376	25.03.2019
113.	2-amino-5-methyl pyridinium 4-nitrophenolate 4-nitrophenol monohydrate C6 H9 N2, C6 H5 N1 O3, C6 H4 N1 O3 H2 O	1922231	11.06.2019
114.	C7 H6 N3 O2, C8 H5 O4, H2 O1	1923727	17.06.2019
115.	2-amino 4,6-dimethyl pyridinium trifluoroacetate C6H10 N3, C2 F5 O2, 0.3F1	1959125	14.10.2019
116.	C9 H6 N2 O2, C4 H4 O4	2042214	07/09/2021
117.	(4-methoxy phenyl) methyl ammonium chloride C8 H12 N1 O1 Cl1	2000577	02.05.2020
118.	5-amino-1H-1,2,4-triazol-4-ium 4-hydroxybenzoate C2 H5 N4, C7 H5 O3	2057767	21.01.2021
119.	C4 H6 O4, C5 H6 N1 O1	2117400	23.10.2021
120.	C4 H6 O4, C5 H5 N1 O1	2117401	23.10.2021
121.	C7 H6 O3, C5 H5 N1 O1	2117402	23.10.2021
122.	Piperazinium 5-nitrosalicylate C10 H9 N2 O4	2237406	21/01/2023
123.	Dipiperazinium bis(trifluoroacetate) C4 H6F3N O2	2237410	21/01/2023

