

CURRICULUM VITAE

Personal information:

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Educational Qualification:

Ph.D.: “SYNTHESIS, CHARACTERIZATION, AND HIRSHFELD SURFACE ANALYSIS OF SOME SUPRAMOLECULAR ARCHITECTURE NONLINEAR OPTICAL CRYSTALS” (Dec 2015-Dec 2020)

Guide: Dr. S. Parthiban

Field of research: Crystal Growth and its NLO applications
Annamalai University.
Annamalainagar.

M.Sc.: General Chemistry (2013-2015),
Anna Adarsh College for Women,
University of Madras, Chennai.

B.Sc.: General Chemistry (2008-2011),
SFR College, Sivakasi,
Madurai Kamaraj University.

Current Employment:

Assistant Professor (T), Department of Chemistry,
Manonmaniam Sundaranar University.

List of Publications:

- 1) **Dhanalakshmi M**, Balakrishnan C, Ahamed SR, Vinitha G, Parthiban S. Metal-organic hybrids of tin (IV): Synthesis, crystal structure, third-order nonlinear optical properties and Hirshfeld surface analysis of bis (1, 2, 3, 4-tetrahydroquinolinium) hexahalostannate (IV). Journal of Molecular Structure. 2021, 1237:130421.
- 2) **Dhanalakshmi M**, Balakrishnan C, Ahamed SR, Vinitha G, Parthiban S. Self-assembled organic-inorganic hybrids: Synthesis, structural, third-order nonlinear optical properties and Hirshfeld surface analysis of bis (1, 2, 3, 4-tetrahydroisoquinolin-2-ium) hexahalostannate (IV). Journal of Molecular Structure. 2021, 131092.
- 3) **Dhanalakshmi M**, Balakrishnan C, Ahamed SR, Vinitha G, Parthiban. Synthesis, structural characterization, Hirshfeld surface analysis and third-order nonlinear optical properties of Schiff bases derived from 1, 1-diphenylmethylamine. Journal of Molecular Structure 1251 (2022): 131942.

- 4) **Dhanalakshmi M**, Parthiban S. Synthesis, structure, supramolecular architecture and Hirshfeld surface analysis of 4-aminobenzene-1-sulfonic acid with 18-crown-6. Chemical Data Collections. 2020, 100472.
- 5) **Dhanalakshmi M**, Parthiban S. Synthesis, structure, Hirshfeld surface analysis and theoretical studies of 2-aminobenzo [d] thiazol-3-ium 4-aminobenzenesulfonate hydrate. Chemical Data Collections. 2021, 100624.
- 6) **Dhanalakshmi M**, Parthiban S, Swaminathan M. Crystal growth and optical properties of ammonium dihydrogen phosphate (ADP) crystals doped with Fe (II) and Fe (III): Oxidation number effects. Materials Today: Proceedings. 2020,1119-24.
- 7) **Dhanalakshmi, M.**, C. Balakrishnan, M. Vijayasri, G. Vinitha, and S. Parthiban. "Synthesis, structure, third-order nonlinear optical properties and Hirshfeld surface analysis of 18-crown-6 with dimethylpyridin-1-ium iodide isomers." *Solid State Sciences* 157 (2024): 107704.
- 8) **Dhanalakshmi, M.**, C. Balakrishnan, M. Vijayasri, G. Vinitha, and S. Parthiban. "Synthesis, structural characterization and third-order nonlinear optical properties of 1, 1-diphenylmethanaminium 4-aminobenzene-sulfonate hydrate." *Journal of Materials Science: Materials in Electronics* 35, no. 21 (2024): 1476.
- 9) **Dhanalakshmi, M.**, C. Balakrishnan, M. Vijayasri, and S. Parthiban. "Synthesis, structural characterization, and Hirshfeld surface analysis of novel NLO active 1-methyl-1, 3, 5, 7-tetraazaadamantan-1-ium 3-carboxy-5-nitrobenzoate hydrate." *Journal of Molecular Structure* 1269 (2022): 133740.
- 10) Manonmani, M., C. Balakrishnan, **M. Dhanalakshmi**, S. Rafi Ahamed, G. Vinitha, and R. M. Sockalingam. Synthesis, structure, third-order nonlinear optical properties and Hirshfeld surface analysis of tetrakis (azepanium) hexachlorostannate (IV) dichloride and tetrakis (azepanium) hexabromostannate (IV) dibromide. *Journal of Molecular Structure* 1227, 2021, 129515.
- 11) Manikandan, A., **M. Dhanalakshmi**, L. Gunganathan, T. Kokila, M. Santhamoorthy, R. Markkandan, S. C. Kim, and C. Balakrishnan. Synthesis, structural characterization and Hirshfeld surface analysis of CH $\cdots$ O hydrogen-bonded supramolecular complexes of 18-crown-6 with imidazolinium derivatives. *Journal of Molecular Structure* 1254 (2022): 132395.
- 12) Manikandan, A., D. Manivannan, **M. Dhanalakshmi**, L. Gunganathan, T. Kokila, M. Santhamoorthy, R. Markkandan, S. C. Kim, and C. Balakrishnan. Synthesis, structural characterization and Hirshfeld surface analysis of NLO active 3-hydroxypyridinium 2, 4-dinitrophenolate single crystals. *Journal of Materials Science: Materials in Electronics* 33, no. 10 (2022): 7750-7764.
- 13) Manonmani, M., **M. Dhanalakshmi**, R. Markkandan, and C. Balakrishnan. Synthesis, structure, optical properties and Hirshfeld surface analysis of bis (azepanium) hexachlorostannate (IV). *Molecular Crystals and Liquid Crystals* (2021): 1-14.
- 14) Manonmani, M., **M. Dhanalakshmi**, R. Markkandan, and C. Balakrishnan. Synthesis, structure, optical properties and Hirshfeld surface analysis of bis (azepanium) hexachlorostannate (IV). *Molecular Crystals and Liquid Crystals* (2021): 1-14.

- 15) Vijayasri, Mageswaran, Natarajan Archana, Chellakarungu Balakrishnan, **Mahalingapandian Dhanalakshmi**, and Shanmugasundaram Parthiban. "Synthesis, structural characterization of supramolecular cocrystals of bis (3-hydroxy-1-methylpyridin-1-ium iodide)-18-crown-6." *Zeitschrift für Kristallographie-Crystalline Materials* 0 (2024).

List of Conferences and Workshops attended:

1. Participated a workshop on "Crystal and molecular structure determination from X-ray diffraction measurements" (CMSDX-2016), March 28th & 29th, 2016, Centre for instrumentation and maintenance facility, Periyar University, Salem, Tamil Nadu.
2. Presented a poster in "International conference on Functional Materials-2016" 7th-10th September, 2016, Centre for Scientific and Applied Research, PSN college of Engineering and Technology, Melathediyoar, Tirunelveli, Tamil Nadu.
3. Presented a poster in National seminar on "New trends in Chemistry" (NTC-2016), 21st & 22nd October 2016, Department of Chemistry, Annamalai University, Chidambaram, Tamil Nadu.
4. Presented a paper in National seminar on "Recent Advances in Chemical and Environmental Research" (RACE-2017), 20th & 21st January, 2017, Department of Chemistry, Annamalai University, Chidambaram, Tamil Nadu.
5. Presented a paper in International Conference on "Recent Advances in Applied Physics" (ICRAAP-2017), 21st & 22nd September, 2017, Engineering Physics sesction, FEAT, Annamalai University, Annamalainagar, Chidambaram, Tamil Nadu.
6. Participated a National Workshop on "Bruker Single Crystal X-ray Diffraction & User Training", 27th & 28th September, 2019, Department of Chemistry, Annamalai University, Chidambaram, Tamil Nadu.
7. Presented a paper in International Conference on "Application of Smart Materials" (ASM-2020) 5th-7th February, 2020, Faculty of Science, Annamalai University, Annamalainagar, Chidambaram, Tamil Nadu.
8. Presented a poster on "Virtual International Conference on Surface Chemistry" (SUCH-2020), 27th & 28th, August, 2020, Department of Chemistry, Annamalai University, Annamalainagar, Chidambaram, Tamil Nadu.