

P Karuppasamy

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Growth and characterization of semi-organic third order nonlinear optical (NLO) potassium 3,5-dinitrobenzoate (KDNB) single crystals. RSC Advances, 2016, 6, 109105-109123. | 3.6 | 140 |
| 2 | Crystal growth, structural, optical, thermal, mechanical, laser damage threshold and electrical properties of triphenylphosphine oxide 4-nitrophenol (TP4N) single crystals for nonlinear optical applications. Optical Materials, 2018, 79, 152-171. | 3.6 | 98 |
| 3 | Synthesis, crystal growth, structure and characterization of a novel third order nonlinear optical organic single crystal: 2-Amino 4,6-Dimethyl Pyrimidine 4-nitrophenol. Optical Materials, 2018, 84, 475-489. | 3.6 | 75 |
| 4 | Growth and characterization of semi-organic nonlinear optical (NLO) guanidinium trichloroacetate (GTCA) single crystal. Optik, 2018, 156, 707-719. | 2.9 | 39 |
| 5 | Synthesis, growth, structural, optical, thermal, laser damage threshold and computational perspectives of 4-nitrophenol 4-aminobenzoic acid monohydrate (4NPABA) single crystal. Journal of Molecular Structure, 2019, 1176, 254-265. | 3.6 | 38 |
| 6 | Studies on semi-organic (C ₈ H ₁₁ NO) ₂ [ZnCl ₄] single crystal for nonlinear optical (NLO) applications. Journal of Crystal Growth, 2020, 535, 125528. | 1.5 | 30 |
| 7 | Design and growth of novel organic molecular Quinoline 4-nitrophenol (QNP) single crystals: For Nonlinear optical (NLO) applications. Journal of Molecular Structure, 2020, 1210, 128036. | 3.6 | 29 |
| 8 | Investigation on Tetracycline degradation and bactericidal properties of binary and ternary ZnO/NiO/g-C ₃ N ₄ composites prepared by a facile co-precipitation method. Journal of Environmental Chemical Engineering, 2022, 10, 107368. | 6.7 | 24 |
| 9 | Combustion synthesis, characterization and antibacterial properties of pristine ZnO and Ga doped ZnO nanoparticles. Ceramics International, 2021, 47, 27934-27941. | 4.8 | 18 |
| 10 | Synthesis, crystal growth, and physicochemical characterization of 4-aminopyridinium 4-nitrophenolate 4-nitrophenol (4AP4NP) single crystals for NLO applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 6141-6157. | 2.2 | 17 |
| 11 | Growth of high-quality organic single crystal of 2-aminopyridinium 4-nitrophenolate 4-nitrophenol (2AP4N) by a novel Rotational Sankaranarayananâ€™s Ramasamy (RSR) method. Journal of Crystal Growth, 2019, 518, 59-72. | 1.5 | 16 |
| 12 | Growth, structural, optical, thermal, laser damage threshold and theoretical investigations of organic nonlinear optical 2-aminopyridinium 4-nitrophenolate 4-nitrophenol (2AP4N) single crystal. Journal of Materials Science: Materials in Electronics, 2019, 30, 1553-1570. | 2.2 | 14 |
| 13 | Physicochemical properties of cesium tetroxalate dihydrate single crystal: An efficient material for nonlinear optical applications. Optical Materials, 2020, 107, 110033. | 3.6 | 14 |
| 14 | Bulk crystal growth, crystalline perfection and optical homogeneities of 2AP4N single crystals for second and third order frequency conversion and terahertz (THz) device applications. Optical Materials, 2021, 118, 111261. | 3.6 | 11 |
| 15 | Crystal growth and physico-chemical characterization of semi-organic [C ₄ H ₁₂ N ₂] ZnCl ₄ ·H ₂ O single crystal for laser applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 16467-16480. | 2.2 | 9 |
| 16 | Investigation of structural, optical, and thermal properties of 2-amino-4,6-dimethylpyrimidine benzoic acid (2APB) single crystal for non-linear optical (NLO) applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 17780-17792. | 2.2 | 8 |
| 17 | Unidirectional crystal growth of L-alanine doped triglycine sulphate crystals along [010] polar direction in ferroelectric and paraelectric temperature ranges, and their comparative characterizations. Materials Research Bulletin, 2021, 134, 111118. | 5.2 | 4 |
| 18 | Device-relevant properties of [010]-oriented undoped TGS single crystals grown above and below the phase transition temperature. Journal of Materials Science: Materials in Electronics, 2021, 32, 15778-15788. | 2.2 | 4 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | TGS crystal growth below and above Curie temperature (T_c). Journal of Crystal Growth, 2020, 546, 125793. | 1.5 | 3 |
| 20 | Immersing ampoule Sankaranarayananâ€™s Ramasamy (ISR) method: Unidirectional high-quality single crystal growth. Journal of Crystal Growth, 2022, 577, 126401. | 1.5 | 3 |
| 21 | Synthesis and growth of new organic 2-amino-4,6-dimethylpyrimidinium trifluoroacetate (AMPTF) single crystals for nonlinear optical (NLO) applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 8035-8047. | 2.2 | 3 |
| 22 | Crystal growth and characterization of semi organic nonlinear optical (NLO) piperazinium tetrachlorozincate monohydrate (PTCZ) single crystal. AIP Conference Proceedings, 2018, , . | 0.4 | 2 |
| 23 | Optical and mechanical properties of $\text{Li}_2\text{Mg}_2(\text{MoO}_4)_3$ crystal grown by Czochralski method. Optik, 2020, 207, 164430. | 2.9 | 2 |
| 24 | Growth of large size Triphenylphosphine Oxide 4-Nitrophenol (TP4N) single crystal by Sankaranarayananâ€™s Ramasamy (SR) method for third order nonlinear optical applications. Chinese Journal of Physics, 2022, 76, 68-78. | 3.9 | 2 |
| 25 | Influence of ^{60}Co gamma irradiation on the structural and optical properties of 2-aminopyridinium 4-nitrophenolate 4-nitrophenol crystals. Current Applied Physics, 2022, 37, 1-7. | 2.4 | 2 |
| 26 | Crystal growth of triphenylphosphine oxide 4-nitrophenol (TP4N) for nonlinear optical (NLO) applications. AIP Conference Proceedings, 2018, , . | 0.4 | 1 |
| 27 | Fabrication of type-I and type-II SHG elements using organic 2-aminopyridinium 4-nitrophenolate 4-nitrophenol (2AP4N) single crystals grown by point seed rotation and novel RSR technique. AIP Conference Proceedings, 2020, , . | 0.4 | 1 |
| 28 | Synthesis, crystal growth, structural and physicochemical properties of an organic single crystal ($\text{C}_{11}\text{H}_{16}\text{N}_2\text{O}_4$) for fast scintillation and NLO applications. CrystEngComm, 2022, 24, 2867-2877. | 2.6 | 1 |
| 29 | Growth of 2-amino 4,6-dimethyl pyrimidine 4-nitrophenol (AMP4N) single crystals for technological applications. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 30 | Growth and characterization of novel organic quinoline 4-nitrophenol (QNP) single crystals for frequency conversion applications. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |
| 31 | Growth of 4-aminopyridinium 4-nitrophenolate 4-nitrophenol (4AP4N) single crystal and its structural, optical, electrical and laser damage threshold characterization. AIP Conference Proceedings, 2020, , . | 0.4 | 0 |
| 32 | A study of the phase transition by the electrical resistivity and photocurrent on TGS crystal grown using the unidirectional growth method of Sankaranarayananâ€™s Ramasamy. Journal of Materials Science: Materials in Electronics, 2022, 33, 5763. | 2.2 | 0 |