

Srinivasan Padmanabhan

List of Publications by Year in descending order

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papers

1,070
citations

361045

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433756

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59
docs citations

59
times ranked

778
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies on the Growth and Characterization of l-Asparaginium Picrate (LASP) A Novel Nonlinear Optical Crystal. <i>Crystal Growth and Design</i> , 2006, 6, 1663-1670.	1.4	115
2	2,4,6-trinitrophenol (TNP): An organic material for nonlinear optical (NLO) applications. <i>Journal of Crystal Growth</i> , 2006, 289, 639-646.	0.7	65
3	Studies on the growth, optical, thermal and dielectric aspects of a proton transfer complex " Dimethyl amino pyridinium 4-nitrophenolate 4-nitrophenol (DMAPNP) crystals for non-linear optical applications. <i>Optical Materials</i> , 2007, 30, 553-564.	1.7	64
4	Studies on the Growth, Optical, Thermal, and Mechanical Properties of Pure and <i>p</i> -Nitroaniline Doped Benzil Crystals. <i>Crystal Growth and Design</i> , 2008, 8, 2335-2339.	1.4	59
5	A Highly Efficient Organic Nonlinear Optical Donor-Acceptor Single Crystal: <i>l</i> -Valinium Picrate. <i>Crystal Growth and Design</i> , 2008, 8, 2340-2345.	1.4	58
6	Studies on the Synthesis, Growth, Crystal Structure, and Nonlinear Optical Properties of a Novel Nonlinear Optical Crystal: <i>l</i> -Argininium-4-nitro Phenolate Monohydrate (LARP). <i>Crystal Growth and Design</i> , 2008, 8, 2329-2334.	1.4	48
7	Detection and Classification of Groundnut Leaf Diseases using KNN classifier. , 2019, , .		48
8	Investigations on the growth, optical behaviour and factor group of an NLO crystal: <i>L</i> -Alanine alaninium nitrate. <i>Crystal Research and Technology</i> , 2007, 42, 1097-1103.	0.6	43
9	A study on various methods used for video summarization and moving object detection for video surveillance applications. <i>Multimedia Tools and Applications</i> , 2018, 77, 23273-23290.	2.6	42
10	A comparative study on the growth and characterization of nonlinear optical amino acid crystals: <i>l</i> -Alanine (LA) and <i>l</i> -alanine alaninium nitrate (LAAN). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 297-304.	2.0	34
11	Studies on growth, induction period, interfacial energy and metastable zonewidth of <i>m</i> -nitroaniline. <i>Crystal Research and Technology</i> , 2005, 40, 1128-1133.	0.6	32
12	Rice-net: an efficient artificial fish swarm optimization applied deep convolutional neural network model for identifying the <i>Oryza sativa</i> diseases. <i>Neural Computing and Applications</i> , 2021, 33, 5869-5884.	3.2	32
13	Z-scan determination of the third-order optical nonlinearity of <i>L</i> -asparaginium picrate (LASP) crystal. <i>Laser Physics</i> , 2008, 18, 790-793.	0.6	31
14	Vibrational spectra and first order hyperpolarizability studies of dimethyl amino pyridinium 4-nitrophenolate 4-nitrophenol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 81, 151-161.	2.0	30
15	Investigations on the growth and characterization studies of cadmium thiourea acetate (CTA) single crystals. <i>Journal of Crystal Growth</i> , 2007, 306, 102-110.	0.7	26
16	Synthesis, crystal growth and characterization of organic material: <i>N</i> -Bromosuccinimide (NBS) for NLO applications. <i>Materials Letters</i> , 2008, 62, 2486-2489.	1.3	24
17	On the observation of physical, chemical, optical and thermal changes induced by 50MeV silicon ion in benzimidazole single crystals. <i>Materials Research Bulletin</i> , 2008, 43, 852-863.	2.7	23
18	Growth and dielectric studies of toluidine tartrate single crystals: A novel organic NLO material. <i>Journal of Molecular Structure</i> , 2020, 1207, 127750.	1.8	23

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19	Studies on the growth, optical, electrical and spectral properties of potassium pentaborate (KB5) single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 10-16.	2.0	22
20	Spectroscopic and DFT-based computational studies on the molecular electronic structural characteristics and the third-order nonlinear property of an organic NLO crystal: (E)-N- α -(4-chlorobenzylidene)-4-methylbenzenesulfonohydrazide. <i>Chemical Physics Letters</i> , 2017, 674, 11-27.	1.2	22
21	H2K α " A robust and optimum approach for detection and classification of groundnut leaf diseases. <i>Computers and Electronics in Agriculture</i> , 2020, 178, 105749.	3.7	20
22	A machine learning approach for detecting and tracking road boundary lanes. <i>ICT Express</i> , 2021, 7, 99-103.	3.3	20
23	Synthesis, crystal growth, studies on vibrational spectroscopy and nonlinear optical properties of 4-methoxy-4 α -chlorochalcone. <i>Materials Research Bulletin</i> , 2014, 50, 446-453.	2.7	15
24	Investigations on spectroscopic, dielectric and optical studies in 3-hydroxypyridinium 4-nitrobenzoate crystals. <i>Journal of Molecular Structure</i> , 2017, 1137, 142-149.	1.8	15
25	Effects of 50 MeV Si ion irradiation on nonlinear optical benzimidazole single crystals. <i>Crystal Research and Technology</i> , 2007, 42, 1376-1381.	0.6	14
26	Investigations on the physico chemical properties of 4-bromochalcone single crystals for nonlinear optical applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 103, 45-52.	2.0	13
27	Effect of tantalum doping on the structural and optical properties of RF magnetron sputtered indium oxide thin films. <i>Materials Science in Semiconductor Processing</i> , 2015, 37, 112-122.	1.9	13
28	Energy Efficient Data Gathering using Spatio-temporal Compressive Sensing for WSNs. <i>Wireless Personal Communications</i> , 2021, 117, 1279-1295.	1.8	13
29	Factor group analysis and hyperpolarizability studies of nonlinear optical L-asparaginium picrate (LASP) crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 592-596.	2.0	12
30	Studies on the growth and characterization of a non linear optical crystal: 3 Hydroxy Pyridinium Tartrate Mono Hydrate (3HPTMH). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 144, 139-147.	2.0	9
31	Growth and characterization of organometallic NLO material: cesium hcontriydrogen tartrate. <i>Materials Research Innovations</i> , 2018, 22, 294-301.	1.0	8
32	Enhancing and Classifying Traffic Signs Using Computer Vision and Deep Convolutional Neural Network. <i>Communications in Computer and Information Science</i> , 2020, , 243-253.	0.4	7
33	Investigations on the vibrational modes and non-linear optical properties of 4-Fluoro Chalcone crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 129, 114-120.	2.0	6
34	Deep Wavelet Architecture for Compressive sensing Recovery. , 2020, , .		6
35	Cognitions on the effects of swift heavy ion irradiation on the dielectric and optical behaviour in L-asparaginium picrate. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 256, 698-704.	0.6	5
36	Crystal structure of (E)-N- α -(4-chlorobenzylidene)-4-methylbenzenesulfonohydrazide: a hexagonal polymorph. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o1250-o1251.	0.2	5

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37	Structural, spectral, thermal, micro hardness, dielectric and etching studies of third order nonlinear optical material Cesium Sulfamate. <i>Journal of Alloys and Compounds</i> , 2017, 701, 822-827.	2.8	5
38	Experimental and DFT/TD-DFT approach on photo-physical and NLO properties of 2, 6-bis (4-Chlorobenzylidene) cyclohexanone. <i>Optical Materials</i> , 2020, 100, 109620.	1.7	5
39	Crystal structure of piperazine-1,4-dium bis(4-aminobenzenesulfonate). <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015, 71, o1084-o1085.	0.2	4
40	(E)-N ² -(4-chlorobenzylidene)-4-methylbenzenesulfonohydrazide (4CBTH) – Synthesis and characterization of organic NLO crystal. <i>Journal of Crystal Growth</i> , 2016, 452, 189-197.	0.7	4
41	Structural, theoretical, and third-order nonlinear optical investigations of N ² -(4-bromophenyl)-(4-bromophenyl)methylidene-4-methylbenzenesulfonohydrazide. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 665, 194-206.	0.4	4
42	Diagnosis Evaluation and Interpretation of Qualitative Abnormalities in Peripheral Blood Smear Images – A Review. <i>Studies in Computational Intelligence</i> , 2021, , 341-365.	0.7	4
43	ICTS: Indian Cautionary Traffic Sign Classification Using Deep Learning. , 2022, , .		4
44	Structural, dielectric and optical properties of N-(2 chlorophenyl)-(1-propanamide) (NCP) single crystals. <i>Journal of Crystal Growth</i> , 2006, 297, 372-381.	0.7	3
45	Ab initio crystal structure and charge density distribution of a highly energetic 2,4-dinitrobenzoic acid molecule. <i>Combustion, Explosion and Shock Waves</i> , 2013, 49, 712-722.	0.3	3
46	Investigations on nucleation, thermodynamical parameters and growth of Benzimidazole crystals from low temperature solution. <i>Crystal Research and Technology</i> , 2007, 42, 995-1001.	0.6	2
47	Synthesis, spectral, thermal, optical and dielectric studies of new arylidene NLO crystal: 2,6 – Bis (2,6-dichloro benzylidene) cyclohexanone. <i>Materials Research Innovations</i> , 2019, 23, 354-358.	1.0	2
48	Joint Correlated Compressive Sensing based on Predictive Data Recovery in WSNs. , 2020, , .		2
49	Detail Study of Different Algorithms for Early Detection of Cancer. <i>Studies in Computational Intelligence</i> , 2021, , 207-232.	0.7	2
50	A detailed perceptive on the growth and characterization studies of para amino hippuric acid (PAHA) single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 132, 263-270.	2.0	1
51	Effect of rare earth Nd ³⁺ ion on the growth, structural, spectral, optical and mechanical properties of piperidinium p-hydroxybenzoate single crystals. <i>Optik</i> , 2016, 127, 1087-1093.	1.4	1
52	Growth and characterisation of 2, 3, 4, 5-Pentamethoxychalcone (PMC) – For non linear optical applications. <i>Journal of Molecular Structure</i> , 2017, 1133, 135-143.	1.8	1
53	Influence of argon pressure on the crystalline phase formation of RF sputtered zinc sulfide thin films. <i>Materials Today: Proceedings</i> , 2020, 29, 917-922.	0.9	1
54	Synthesis and characterization of 4,4-dihydroxy-1-methylstilbene crystal. <i>Crystal Research and Technology</i> , 2006, 41, 718-722.	0.6	0

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55	Ruminations on the effect of MeV Si ^[sup 8+] and Ag ^[sup 8+] ion irradiation on nonlinear optical l-valinium picrate single crystals. , 2012, , .		0
56	Crystal structure of Na ²⁺ -[(E)-(4-chlorophenyl)(phenyl)methylidene]-4-methylbenzenesulfonohydrazide. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, o45-o46.	0.2	0
57	Remote monitoring and security alert based on motion detection using mobile. AIP Conference Proceedings, 2016, , .	0.3	0
58	GBU based face recognition techniques: A review. , 2017, , .		0
59	Studies on the electrospun composite Picric acid “ PVA nanofibers. Materials Today: Proceedings, 2020, 21, 401-403.	0.9	0