

Pandiyam Krishnamoorthy

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

237
citations

8
h-index

14
g-index

59
ext. papers

310
ext. citations

1.8
avg, IF

2.89
L-index

#	Paper	IF	Citations
42	Measurement of the internal electric field in periodically poled congruent lithium niobate crystals by far-field diffraction. <i>Applied Optics</i> , 2021 , 60, 3791-3796	1.7	1
41	Automatic diagnosis of single fault in interconnect testing of SRAM-based FPGA. <i>IET Computers and Digital Techniques</i> , 2021 , 15, 362-371	0.9	
40	Accuracy of Contact Resistivity Measurements for Electron-Selective Titanium Oxide Contacts in n-Type c-Si Solar Cell. <i>IEEE Journal of Photovoltaics</i> , 2021 , 11, 613-619	3.7	0
39	Growth, crystal structure, thermal, spectral studies and density functional theory computational analysis of an organic nonlinear optical crystal: 2-{3-[2-(4-dimethylaminophenyl)vinyl]-5,5-dimethylcyclohex-2-enylidene}-malonitrile. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26741	2.1	
38	Study on the effect of aspect ratio in second harmonic generation efficiency factor of domain inverted QPM grating structure. <i>Ferroelectrics</i> , 2021 , 577, 71-84	0.6	
37	Photonic Processing Core for Reconfigurable Electronic-Photonic Integrated Circuit. <i>Communications in Computer and Information Science</i> , 2021 , 473-484	0.3	
36	Performance enhancement of 8(times)8 dilated banyan network using crosstalk suppressed GMZI crossbar photonic switches. <i>Photonic Network Communications</i> , 2021 , 42, 123	1.7	
35	Investigations on synthesis, growth, crystal structure, thermal, Dielectric and Terahertz Transmission properties of Organic NLO Crystal : (2-(2-hydroxy-3-methoxystyryl)-1-methylquinolinium-4-methylbenzenesulfonate (O-HMQ). <i>Journal of Molecular Structure</i> , 2021 , 1245, 131099	3.4	
34	Growth and THz generation in organic nonlinear optical crystal: N,N-bis(4-nitrophenyl)-(1R,2R)-diaminocyclohexane (BNDC). <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 13628-13635	2.1	2
33	Design of configurable photonic multiplexer using proton-exchanged lithium niobate on insulator. <i>Microwave and Optical Technology Letters</i> , 2020 , 62, 3077-3086	1.2	2
32	Photonic configurable logic block for digital photonic integrated circuits. <i>Electronics Letters</i> , 2020 , 56, 1130-1133	1.1	1
31	Unidirectional seeded growth of l-Glutamic acid hydrobromide single crystal and its characterization. <i>Phase Transitions</i> , 2020 , 93, 83-90	1.3	1
30	The design and analysis of a CMOS-compatible silicon photonic ON/OFF switch based on a mode-coupling mechanism. <i>Journal of Computational Electronics</i> , 2020 , 19, 1651-1659	1.8	1
29	Broadband quasi-phase-matched optical parametric generation in phase reversal optical superlattice devices. <i>Optik</i> , 2020 , 224, 165466	2.5	1
28	Multiple quasi-phase-matched second-harmonic generation in phase reversal optical superlattice structure. <i>Applied Physics B: Lasers and Optics</i> , 2019 , 125, 1	1.9	1
27	Studies on thin films of TiO ₂ for resistance-based sensing of ethanol vapor at room temperature. <i>Phase Transitions</i> , 2019 , 92, 782-789	1.3	1
26	Configurable Photonic Element: Analysis and Design towards Reconfigurable Photonic ICs 2019 ,		3

25	Generation of Nearly Flattop Ultrabroadband Response in a QPM Device Using Phase Shifter. <i>Journal of Lightwave Technology</i> , 2019 , 37, 845-851	4	5
24	Studies on the effect of duty cycle variation in Fibonacci-based quasi-phase matching devices. <i>Journal of Modern Optics</i> , 2018 , 65, 1860-1865	1.1	3
23	Design and development of low-cost room temperature electric field poling system for the fabrication of quasi-phase matching devices 2018 , 91, 1		2
22	Phase Shifters in QPM Device for Domain Engineering. <i>Springer Proceedings in Physics</i> , 2017 , 517-520	0.2	
21	Engineering phase shifter domains for multiple QPM using simulated annealing algorithm. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 105507	1.7	5
20	Estimation of second harmonic generation efficiency of various quasi-phase matching grating structures. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2017 , 26, 1750043	0.8	1
19	Simulated Annealing: An Approach for Multiple QPM. <i>Springer Proceedings in Physics</i> , 2017 , 521-525	0.2	
18	Studies on acetone sensing characteristics of ZnO thin film prepared by sol-gel dip coating. <i>Journal of Alloys and Compounds</i> , 2016 , 673, 138-143	5.7	52
17	Dip coated nanostructured ZnO thin film: Synthesis and application. <i>Ceramics International</i> , 2016 , 42, 4413-4420	5.1	7
16	Dip coated TiO ₂ nanostructured thin film: synthesis and application. <i>Phase Transitions</i> , 2016 , 89, 107-114	1.3	5
15	Effect of Phase-Shifter Domains in Quasi-Phase Matching Devices. <i>Springer Proceedings in Physics</i> , 2015 , 461-466	0.2	3
14	Highly selective acetaldehyde sensor using sol-gel dip coated nano crystalline TiO ₂ thin film. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5135-5139	2.1	15
13	Second harmonic generation studies in l-alanine single crystals grown from solution. <i>Physica B: Condensed Matter</i> , 2014 , 432, 67-70	2.8	7
12	A systematic approach for designing quasi-periodic optical superlattices using the Hadamard matrix. <i>Journal of Optics (United Kingdom)</i> , 2014 , 16, 015204	1.7	6
11	Gas Sensing Studies on Nanocrystalline ZnO Thin Films Prepared by Dip Coating. <i>Asian Journal of Applied Sciences</i> , 2014 , 7, 786-791	0.4	2
10	Fourier Analysis of Quasi-phase Matching Devices for WDM. <i>Journal of Applied Sciences</i> , 2014 , 14, 1666-1669		
9	Analysis of a phase reversal quasi-phase matching device for the dual peak second harmonic response. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 055205	1.7	11
8	Tunable Wavelength Broadcasting in a PPLN with Multiple QPM Peaks 2012 ,		1

7	Tunable all-optical wavelength broadcasting in a PPLN with multiple QPM peaks. <i>Optics Express</i> , 2012 , 20, 27425-33	3.3	24
6	Quality evaluation of quasi-phase-matched devices by far-field diffraction pattern analysis 2009 ,		5
5	Nondestructive quality evaluation of periodically poled lithium niobate crystals by diffraction. <i>Optics Express</i> , 2009 , 17, 17862-7	3.3	28
4	A Comparative Study of Second-Harmonic Generation and Diffraction Experiments in Ferroelectric Domain-Engineered Crystals 2009 ,		1
3	Poling Quality Evaluation of Periodically Poled Lithium Niobate Using Diffraction Method. <i>Journal of the Optical Society of Korea</i> , 2008 , 12, 205-209		11
2	Collinear broadband optical parametric generation in periodically poled lithium niobate crystals by group velocity matching. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 92, 535-541	1.9	16
1	Ultra-broadband optical parametric generation and simultaneous RGB generation in periodically poled lithium niobate. <i>Optics Express</i> , 2007 , 15, 18294-9	3.3	13