

Sandeep Sohal

List of Publications by Year in descending order

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21
papers

386
citations

1040056

9
h-index

794594

19
g-index

22
all docs

22
docs citations

22
times ranked

845
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoimprinted Perovskite Nanograting Photodetector with Improved Efficiency. ACS Nano, 2016, 10, 10921-10928.	14.6	168
2	Synthesis and photoluminescence properties of hierarchical architectures of YBO ₃ :Eu ³⁺ . Journal of Materials Chemistry, 2012, 22, 6485.	6.7	56
3	Effect of Tb ³⁺ concentration on the optical and vibrational properties of YBO ₃ tri-doped with Eu ³⁺ , Ce ³⁺ , and Tb ³⁺ . Journal of Applied Physics, 2014, 115, .	2.5	23
4	Tailoring nucleation and grain growth by changing the precursor phase ratio for efficient organic lead halide perovskite optoelectronic devices. Journal of Materials Chemistry C, 2017, 5, 10114-10121.	5.5	18
5	Electrical and optical characterization of CdTe solar cells with CdS and CdSe buffers—A comparative study. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, 052904.	1.2	17
6	Impact of extended defects on recombination in CdTe heterostructures grown by molecular beam epitaxy. Applied Physics Letters, 2016, 109, .	3.3	16
7	Buffer/absorber interface recombination reduction and improvement of back-contact barrier height in CdTe solar cells. Thin Solid Films, 2019, 685, 385-392.	1.8	15
8	Influence of phonons on the temperature dependence of the band gap of AlN and Al _x Ga _{1-x} N alloys with high AlN mole fraction. Journal of Applied Physics, 2013, 113, .	2.5	11
9	Factors influencing photoluminescence and photocarrier lifetime in CdSeTe/CdMgTe double heterostructures. Journal of Applied Physics, 2016, 120, 165305.	2.5	11
10	Correlation of photoluminescence and structural order in YBO ₃ :Eu ³⁺ micro and nano structures. Materials Letters, 2013, 106, 381-384.	2.6	10
11	Role of phonons in the optical properties of magnetron sputtered ZnO studied by resonance Raman and photoluminescence. Journal of Applied Physics, 2010, 108, 053507.	2.5	9
12	Effects of post-deposition CdCl ₂ annealing on electronic properties of CdTe solar cells. Solar Energy, 2020, 211, 938-948.	6.1	9
13	Investigation of cadmium telluride grown by molecular-beam epitaxy using micro-Raman spectroscopy below and above the laser damage threshold. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, 052905.	1.2	6
14	Temperature and excitation intensity dependence of photoluminescence in AlGa _N quantum wells with mixed two-dimensional and three-dimensional morphology. Journal of Applied Physics, 2011, 110, .	2.5	5
15	Short period p-type AlN/AlGa _N superlattices for deep UV light emitters. Materials Research Society Symposia Proceedings, 2009, 1202, 251.	0.1	4
16	Iodine Doping of CdTe and CdMgTe for Photovoltaic Applications. Journal of Electronic Materials, 2017, 46, 5424-5429.	2.2	4
17	Effects of Growth Temperature on Indium Incorporation in InAlN Alloys Grown by GSMBE on Si(111). Journal of Electronic Materials, 2012, 41, 824-829.	2.2	2
18	Effect of free-carrier concentration and optical injection on carrier lifetimes in undoped and iodine doped CdMgTe/CdSeTe double heterostructures grown by molecular beam epitaxy. Journal Physics D: Applied Physics, 2016, 49, 505104.	2.8	1

#	ARTICLE	IF	CITATIONS
19	Carrier Lifetimes of Iodine-Doped CdMgTe/CdSeTe Double Heterostructures Grown by Molecular Beam Epitaxy. Journal of Electronic Materials, 2017, 46, 5361-5366.	2.2	1
20	Effects of MBE growth on the optical properties of AlGaIn quantum wells. Materials Research Society Symposia Proceedings, 2011, 1289, 512.	0.1	0
21	Facile Synthesis and Effect of Eu, Tb Co-doping On the Tunable Luminescent Properties of YBO ₃ . Materials Research Society Symposia Proceedings, 2013, 1497, 1.	0.1	0