

Mithun Bhowmick

List of Publications by Year in descending order

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39
papers

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citations

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g-index

41
all docs

41
docs citations

41
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284
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of structural changes in shock compressed III-V materials. , 2022, , .		1
2	Photoluminescence from two-color quantum dot films. , 2022, , .		0
3	Optical characterization of apatite for enhanced optoelectronic properties. , 2022, , .		0
4	Microscopic description and uncertainty of the Stokes shift in semiconductors. Optics Letters, 2022, 47, 1953.	3.3	0
5	Shock-induced kinetics and cellular structures of liquid nitromethane detonation. Combustion and Flame, 2021, 225, 5-12.	5.2	13
6	Impact of PbS quantum dots on GaAs photoluminescence. , 2021, , .		3
7	Stimulated Raman scattering signal amplification in ethanol molecules via resonant cascading. Applied Physics Letters, 2021, 118, .	3.3	9
8	Optical Bandgap Definition via a Modified Form of Urbach's Rule. Materials, 2021, 14, 1639.	2.9	9
9	Laser-driven flyer plate impact: Computational studies guided by experiments. Journal of Applied Physics, 2021, 129, .	2.5	8
10	Ethylenediamine Catalyzes Nitromethane Shock-to-Detonation in Two Distinct Ways. Journal of Physical Chemistry B, 2021, 125, 8185-8192.	2.6	7
11	All-optical switch based on PbS quantum dots. Applied Physics Letters, 2021, 119, .	3.3	4
12	Correction of the Fan factor. AIP Advances, 2020, 10, 035014.	1.3	1
13	Shock Initiation Microscopy with High Time and Space Resolution. Propellants, Explosives, Pyrotechnics, 2020, 45, 223-235.	1.6	34
14	Imaging the reactive flow structure in shocked nitromethane and nitromethane with additives. AIP Conference Proceedings, 2020, , .	0.4	3
15	Shock compression microscopy: Shocked materials with high time and space resolution. AIP Conference Proceedings, 2020, , .	0.4	4
16	Computational studies of laser-driven flyer impact experiments to probe properties of inert and energetic materials. AIP Conference Proceedings, 2020, , .	0.4	0
17	Mathematical assessment of the thermal band gap variation of semiconductors. Physica Scripta, 2019, 94, 085701.	2.5	7
18	Introductory Chapter: Interferometry. , 2019, , .		1

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19	Numerical predictions of shock propagation through unreactive and reactive liquids with experimental validation. AIP Conference Proceedings, 2018, , .	0.4	3
20	Optical windows as materials for high-speed shock wave detectors. AIP Advances, 2018, 8, .	1.3	30
21	Studies in shocked nitromethane through high dynamic range spectroscopy. AIP Conference Proceedings, 2018, , .	0.4	6
22	The thermo-electric nature of the Debye temperature. AIP Advances, 2018, 8, 055318.	1.3	2
23	Detonation on a tabletop: Nitromethane with high time and space resolution. Journal of Applied Physics, 2018, 124, .	2.5	35
24	Relation between Debye temperature and energy band gap of semiconductors. AIP Advances, 2017, 7, .	1.3	10
25	Interband and intraband relaxation dynamics in InSb based quantum wells. Journal of Applied Physics, 2016, 120, .	2.5	6
26	Inherent photoluminescence Stokes shift in GaAs. Optics Letters, 2015, 40, 2580.	3.3	20
27	Photoluminescence lineshape of ZnO. AIP Advances, 2014, 4, 123001.	1.3	9
28	Atomic transition region at the crossover between quantum dots to molecules. Physica Scripta, 2014, 89, 025801.	2.5	10
29	Intrinsic photoluminescence Stokes shift in semiconductors demonstrated by thin-film CdS formed with pulsed-laser deposition. Thin Solid Films, 2014, 558, 24-26.	1.8	23
30	Dynamics of photoexcited carriers and spins in InAsP ternary alloys. Applied Physics Letters, 2013, 102, 222102.	3.3	10
31	Time-resolved spectroscopy of MOVPE-grown III-Mn-V ferromagnetic semiconductors. Proceedings of SPIE, 2012, , .	0.8	1
32	Time-resolved differential transmission in MOVPE-grown ferromagnetic InMnAs. Physical Review B, 2012, 85, .	3.2	13
33	Carrier Dynamics in Parabolic InSb Based Multi Quantum Wells. , 2011, , .		1
34	Time Resolved Spectroscopy of MOVPE Grown Narrow Gap Ferromagnetic Semiconductors. , 2011, , .		0
35	Probe of coherent and quantum states in narrow-gap based semiconductors with strong spin-orbit coupling. , 2010, , .		1
36	Probe of interband relaxations of photo-excited carriers and spins in InSb based quantum wells. Physics Procedia, 2010, 3, 1161-1165.	1.2	3

#	ARTICLE	IF	CITATIONS
37	Time resolved spectroscopy of InMnAs using differential transmission technique in mid-infrared. Physics Procedia, 2010, 3, 1167-1170.	1.2	6
38	Probe of coherent and quantum states in narrow-gap semiconductors in the presence of strong spin-orbit coupling. Proceedings of SPIE, 2010, , .	0.8	1
39	The concept of ocular inserts as drug delivery systems: An overview. Asian Journal of Pharmaceutics (discontinued), 2008, 2, 192.	0.4	25