

Arpana Agrawal

List of Publications by Year in descending order

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31
papers

340
citations

759233

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32
times ranked

401
citing authors

#	ARTICLE	IF	CITATIONS
1	Qualitative Analysis of the Valence and Conduction Band Offset Parameters in FeNiO/CuNiO Bilayer Film Using X-ray Photoelectron Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, 2100132.	1.5	1
2	Greenness of lab-on-a-chip devices for analytical processes: Advances & future prospects. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 219, 114914.	2.8	4
3	Green miniaturized technologies in analytical and bioanalytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116383.	11.4	51
4	Database on the nonlinear optical properties of graphene based materials. <i>Data in Brief</i> , 2020, 28, 105049.	1.0	7
5	Unraveling absorptive and refractive optical nonlinearities in CVD grown graphene layers transferred onto a foreign quartz substrate. <i>Applied Surface Science</i> , 2020, 505, 144392.	6.1	14
6	Band offset studies in Cr ₂ O ₃ /TiO ₂ /Cr _{1.98} O ₃ bilayer film using photoelectron spectroscopy. <i>Physica B: Condensed Matter</i> , 2020, 599, 412590.	2.7	2
7	Isothermal Hall effect studies in pulsed laser deposited Ni incorporated ZnO thin film. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
8	Sample pretreatment with graphene materials. <i>Comprehensive Analytical Chemistry</i> , 2020, , 21-47.	1.3	11
9	Scaling study of molecular beam epitaxy grown InAs/Al ₂ O ₃ films using atomic force microscopy. <i>Thin Solid Films</i> , 2020, 709, 138204.	1.8	3
10	Nonlinear optical responses of magnetron sputtered TiO ₂ thin film. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
11	Weak ferromagnetism at room temperature in Ti incorporated Cr ₂ O ₃ thin film. <i>Physica B: Condensed Matter</i> , 2019, 571, 36-40.	2.7	7
12	Vertical ZnO Nanotube Transistor on a Graphene Film for Flexible Inorganic Electronics. <i>Small</i> , 2018, 14, e1800240.	10.0	25
13	Magnetic field induced changes in linear and nonlinear optical properties of Ti incorporated Cr ₂ O ₃ nanostructured thin film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 860-864.	2.1	8
14	Qualitative analysis of growth mechanism of polycrystalline InAs thin films grown by molecular beam epitaxy. <i>Applied Surface Science</i> , 2018, 462, 81-85.	6.1	5
15	Magnetically tuned absorptive optical nonlinearity in NiO thin films. <i>Optical Materials</i> , 2018, 84, 893-898.	3.6	8
16	Effect of annealing on the optical properties of the ion beam sputtered NiO thin film. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
17	Insight into the effect of screw dislocations and oxygen vacancy defects on the optical nonlinear refraction response in chemically grown ZnO/Al ₂ O ₃ films. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	17
18	Effects of oxygen partial pressure and annealing on dispersive optical nonlinearity in NiO thin films. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	8

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19	Effect of oxygen partial pressure on the structural and optical properties of ion beam sputtered TiO ₂ thin films. Journal of Physics: Conference Series, 2016, 755, 012053.	0.4	0
20	Negative thermo-optic coefficients and optical limiting response in pulsed laser deposited Mg-doped ZnO thin films. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2015.	2.1	15
21	Effect of oxygen partial pressure on the structural and optical properties of ion beam sputtered TiO ₂ thin films. Thin Solid Films, 2016, 619, 86-90.	1.8	13
22	Thermo-optic coefficients of pure and Ni doped ZnO thin films. Thin Solid Films, 2016, 603, 115-118.	1.8	16
23	Nonlinear absorption coefficient of pulsed laser deposited MgZnO thin film. AIP Conference Proceedings, 2015, , .	0.4	0
24	Role of Ni doping on transport properties of ZnO thin films. AIP Conference Proceedings, 2015, , .	0.4	0
25	Study of nonlinear optical properties of pure and Mg-doped ZnO films. Physica Status Solidi (B): Basic Research, 2015, 252, 1848-1853.	1.5	19
26	Electrical and magnetic transport properties of undoped and Ni doped ZnO thin films. Thin Solid Films, 2015, 589, 817-821.	1.8	17
27	Valence and conduction band offset measurements in Ni _{0.07} Zn _{0.93} O/ZnO heterostructure. Current Applied Physics, 2014, 14, 171-175.	2.4	33
28	Transport and magnetotransport study of Mg doped ZnO thin films. Journal of Applied Physics, 2014, 115, .	2.5	19
29	Type I and type II band alignments in ZnO/MgZnO bilayer films. Applied Physics Letters, 2014, 105, .	3.3	17
30	Weak localization effect in pulsed laser deposited ZnO film. Journal of Physics: Conference Series, 2014, 534, 012042.	0.4	1
31	Anomalous band bowing in pulsed laser deposited Mg Zn _{1-x} O films. Journal of Crystal Growth, 2013, 384, 9-12.	1.5	19