

# Arpana Agrawal

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

340  
citations

759233

12  
h-index

839539

18  
g-index

32  
all docs

32  
docs citations

32  
times ranked

401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Green miniaturized technologies in analytical and bioanalytical chemistry. TrAC - Trends in Analytical Chemistry, 2021, 143, 116383.	11.4	51
2	Valence and conduction band offset measurements in Ni <sub>0.07</sub> Zn <sub>0.93</sub> O/ZnO heterostructure. Current Applied Physics, 2014, 14, 171-175.	2.4	33
3	Vertical ZnO Nanotube Transistor on a Graphene Film for Flexible Inorganic Electronics. Small, 2018, 14, e1800240.	10.0	25
4	Anomalous band bowing in pulsed laser deposited Mg Zn <sub>1-x</sub> O films. Journal of Crystal Growth, 2013, 384, 9-12.	1.5	19
5	Transport and magnetotransport study of Mg doped ZnO thin films. Journal of Applied Physics, 2014, 115, .	2.5	19
6	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
7	Type I and type II band alignments in ZnO/MgZnO bilayer films. Applied Physics Letters, 2014, 105, .	3.3	17
8	Electrical and magnetic transport properties of undoped and Ni doped ZnO thin films. Thin Solid Films, 2015, 589, 817-821.	1.8	17
9	Insight into the effect of screw dislocations and oxygen vacancy defects on the optical nonlinear refraction response in chemically grown ZnO/Al <sub>2</sub> O <sub>3</sub> films. Journal of Applied Physics, 2017, 122, .	2.5	17
10	Thermo-optic coefficients of pure and Ni doped ZnO thin films. Thin Solid Films, 2016, 603, 115-118.	1.8	16
11	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
12	Unraveling absorptive and refractive optical nonlinearities in CVD grown graphene layers transferred onto a foreign quartz substrate. Applied Surface Science, 2020, 505, 144392.	6.1	14
13	Effect of oxygen partial pressure on the structural and optical properties of ion beam sputtered TiO <sub>2</sub> thin films. Thin Solid Films, 2016, 619, 86-90.	1.8	13
14	Sample pretreatment with graphene materials. Comprehensive Analytical Chemistry, 2020, , 21-47.	1.3	11
15	Effects of oxygen partial pressure and annealing on dispersive optical nonlinearity in NiO thin films. Journal of Applied Physics, 2017, 122, .	2.5	8
16	Magnetic field induced changes in linear and nonlinear optical properties of Ti incorporated Cr <sub>2</sub> O <sub>3</sub> nanostructured thin film. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 860-864.	2.1	8
17	Magnetically tuned absorptive optical nonlinearity in NiO thin films. Optical Materials, 2018, 84, 893-898.	3.6	8
18	Weak ferromagnetism at room temperature in Ti incorporated Cr <sub>2</sub> O <sub>3</sub> thin film. Physica B: Condensed Matter, 2019, 571, 36-40.	2.7	7

#	ARTICLE	IF	CITATIONS
19	Database on the nonlinear optical properties of graphene based materials. Data in Brief, 2020, 28, 105049.	1.0	7
20	Qualitative analysis of growth mechanism of polycrystalline InAs thin films grown by molecular beam epitaxy. Applied Surface Science, 2018, 462, 81-85.	6.1	5
21	Greenness of lab-on-a-chip devices for analytical processes: Advances & future prospects. Journal of Pharmaceutical and Biomedical Analysis, 2022, 219, 114914.	2.8	4
22	Scaling study of molecular beam epitaxy grown InAs/Al <sub>2</sub> O <sub>3</sub> films using atomic force microscopy. Thin Solid Films, 2020, 709, 138204.	1.8	3
23	Band offset studies in Cr <sub>2</sub> O <sub>3</sub> /Ti <sub>0.02</sub> Cr <sub>1.98</sub> O <sub>3</sub> bilayer film using photoelectron spectroscopy. Physica B: Condensed Matter, 2020, 599, 412590.	2.7	2
24	Weak localization effect in pulsed laser deposited ZnO film. Journal of Physics: Conference Series, 2014, 534, 012042.	0.4	1
25	Qualitative Analysis of the Valence and Conduction Band Offset Parameters in FeNiO/CuNiO Bilayer Film Using X-Ray Photoelectron Spectroscopy. Physica Status Solidi (B): Basic Research, 2022, 259, 2100132.	1.5	1
26	Nonlinear absorption coefficient of pulsed laser deposited MgZnO thin film. AIP Conference Proceedings, 2015, , .	0.4	0
27	Role of Ni doping on transport properties of ZnO thin films. AIP Conference Proceedings, 2015, , .	0.4	0
28	Effect of oxygen partial pressure on the structural and optical properties of ion beam sputtered TiO <sub>2</sub> thin films. Journal of Physics: Conference Series, 2016, 755, 012053.	0.4	0
29	Effect of annealing on the optical properties of the ion beam sputtered NiO thin film. AIP Conference Proceedings, 2017, , .	0.4	0
30	Nonlinear optical responses of magnetron sputtered TiO <sub>2</sub> thin film. AIP Conference Proceedings, 2019, , .	0.4	0
31	Isothermal Hall effect studies in pulsed laser deposited Ni incorporated ZnO thin film. AIP Conference Proceedings, 2020, , .	0.4	0