

A K Pradhan

List of Publications by Year in descending order

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29
papers

1,159
citations

471509

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29
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29
docs citations

29
times ranked

1400
citing authors

#	ARTICLE	IF	CITATIONS
1	Transparent conductive oxides: Plasmonic materials for telecom wavelengths. Applied Physics Letters, 2011, 99, .	3.3	179
2	Metal-like conductivity in transparent Al:ZnO films. Applied Physics Letters, 2007, 90, 252108.	3.3	123
3	Surface plasmon excitation via Au nanoparticles in n-CdSe \hat{a} -p-Si heterojunction diodes. Applied Physics Letters, 2007, 91, .	3.3	94
4	Extreme tunability in aluminum doped Zinc Oxide plasmonic materials for near-infrared applications. Scientific Reports, 2014, 4, 6415.	3.3	93
5	The performance of vertically reinforced 1 \hat{a} €“3 piezoelectric composites in active damping of smart structures. Smart Materials and Structures, 2006, 15, 631-641.	3.5	80
6	On the Use of Vertically Reinforced 1-3 Piezoelectric Composites for Hybrid Damping of Laminated Composite Plates. Mechanics of Advanced Materials and Structures, 2007, 14, 245-261.	2.6	70
7	High-temperature ferromagnetism in pulsed-laser deposited epitaxial (Zn,Mn)O thin films: Effects of substrate temperature. Applied Physics Letters, 2005, 86, 152511.	3.3	59
8	Fluctuation phenomena in excess conductivity and magnetization of single-crystalBi2Sr2CaCu2O8+y. Physical Review B, 1994, 50, 7180-7183.	3.2	58
9	Pulsed-laser deposited Er:ZnO films for 1.54 \hat{u} m emission. Applied Physics Letters, 2007, 90, 072108.	3.3	58
10	Observation of the Kosterlitz-Thouless transition and of vortex fluctuations in superconducting single crystals of Bi-based cuprates. Physical Review B, 1993, 47, 11374-11378.	3.2	46
11	Magnetic properties of single-crystalBi2Sr2CaCu2O8+y: Experimental evidence for a dimensional crossover. Physical Review B, 1994, 49, 12984-12989.	3.2	40
12	Effects of substrate temperature on the optical and electrical properties of Al:ZnO films. Semiconductor Science and Technology, 2008, 23, 085019.	2.0	40
13	Influence of growth temperature on electrical, optical, and plasmonic properties of aluminum:zinc oxide films grown by radio frequency magnetron sputtering. Journal of Applied Physics, 2013, 114, .	2.5	33
14	Energy harvesting in semiconductor-insulator-semiconductor junctions through excitation of surface plasmon polaritons. Applied Physics Letters, 2012, 100, 061127.	3.3	32
15	Effects of As and Mn doping on microstructure and electrical conduction in ZnO films. Applied Physics Letters, 2006, 88, 262105.	3.3	27
16	Novel ZnO:Al contacts to CdZnTe for X- and gamma-ray detectors. Scientific Reports, 2016, 6, 26384.	3.3	20
17	Nanopatterning of atomic layer deposited Al:ZnO films using electron beam lithography for waveguide applications in the NIR region. Optical Materials Express, 2012, 2, 1743.	3.0	18
18	Transparent and flexible heaters based on Al:ZnO degenerate semiconductor. Journal of Applied Physics, 2017, 122, .	2.5	18

#	ARTICLE	IF	CITATIONS
19	Peak effect and magnetization minima in single crystals. Superconductor Science and Technology, 1996, 9, 743-749.	3.5	13
20	Active damping of laminated thin cylindrical composite panels using vertically/obliquely reinforced $\lambda \approx 3$ piezoelectric composites. Acta Mechanica, 2010, 209, 201-218.	2.1	11
21	Leakage current in high dielectric oxides: Role of defect-induced energies. Journal of Applied Physics, 2013, 113, 184504.	2.5	10
22	Influence of columnar defects on magnetotransport and magnetization properties of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$. Physical Review B, 1997, 55, 11129-11132.	3.2	8
23	Anomalous magnetic behavior in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$ single crystals near the superconducting-transition regime. Physical Review B, 1995, 52, 6215-6218.	3.2	7
24	Oxide-based dilute ferromagnetic semiconductors: ZnMnO and Co:TiO ₂ . Journal of Applied Physics, 2006, 99, 08M108.	2.5	7
25	Assessment of a new ZnO:Al contact to CdZnTe for X- and gamma-ray detector applications. AIP Advances, 2017, 7, .	1.3	7
26	Competition between (001) and (111) MgO thin film growth on Al-doped ZnO by oxygen plasma assisted pulsed laser deposition. Journal of Applied Physics, 2013, 113, 214102.	2.5	3
27	High-performance transparent film heater using random mesowire silver network. Journal of Materials Science: Materials in Electronics, 2018, 29, 21088-21096.	2.2	3
28	Better than gold: plasmonic materials for telecom wavelengths. , 2010, , .		2
29	Remarkable evolution of electrical conductivity in Al:ZnO films. Proceedings of SPIE, 2012, , .	0.8	0