

# A K Pradhan

## List of Publications by Year in descending order

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29  
papers

1,159  
citations

471509

17  
h-index

526287

27  
g-index

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all docs

29  
docs citations

29  
times ranked

1400  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance transparent film heater using random mesowire silver network. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 21088-21096.	2.2	3
2	Transparent and flexible heaters based on Al:ZnO degenerate semiconductor. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	18
3	Assessment of a new ZnO:Al contact to CdZnTe for X- and gamma-ray detector applications. <i>AIP Advances</i> , 2017, 7, .	1.3	7
4	Novel ZnO:Al contacts to CdZnTe for X- and gamma-ray detectors. <i>Scientific Reports</i> , 2016, 6, 26384.	3.3	20
5	Extreme tunability in aluminum doped Zinc Oxide plasmonic materials for near-infrared applications. <i>Scientific Reports</i> , 2014, 4, 6415.	3.3	93
6	Influence of growth temperature on electrical, optical, and plasmonic properties of aluminum:zinc oxide films grown by radio frequency magnetron sputtering. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	33
7	Leakage current in high dielectric oxides: Role of defect-induced energies. <i>Journal of Applied Physics</i> , 2013, 113, 184504.	2.5	10
8	Competition between (001) and (111) MgO thin film growth on Al-doped ZnO by oxygen plasma assisted pulsed laser deposition. <i>Journal of Applied Physics</i> , 2013, 113, 214102.	2.5	3
9	Nanopatterning of atomic layer deposited Al:ZnO films using electron beam lithography for waveguide applications in the NIR region. <i>Optical Materials Express</i> , 2012, 2, 1743.	3.0	18
10	Remarkable evolution of electrical conductivity in Al:ZnO films. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
11	Energy harvesting in semiconductor-insulator-semiconductor junctions through excitation of surface plasmon polaritons. <i>Applied Physics Letters</i> , 2012, 100, 061127.	3.3	32
12	Transparent conductive oxides: Plasmonic materials for telecom wavelengths. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	179
13	Active damping of laminated thin cylindrical composite panels using vertically/obliquely reinforced 1-3 piezoelectric composites. <i>Acta Mechanica</i> , 2010, 209, 201-218.	2.1	11
14	Better than gold: plasmonic materials for telecom wavelengths. , 2010, , .		2
15	Effects of substrate temperature on the optical and electrical properties of Al:ZnO films. <i>Semiconductor Science and Technology</i> , 2008, 23, 085019.	2.0	40
16	Pulsed-laser deposited Er:ZnO films for 1.54 $\mu$ m emission. <i>Applied Physics Letters</i> , 2007, 90, 072108.	3.3	58
17	On the Use of Vertically Reinforced 1-3 Piezoelectric Composites for Hybrid Damping of Laminated Composite Plates. <i>Mechanics of Advanced Materials and Structures</i> , 2007, 14, 245-261.	2.6	70
18	Metal-like conductivity in transparent Al:ZnO films. <i>Applied Physics Letters</i> , 2007, 90, 252108.	3.3	123

#	ARTICLE	IF	CITATIONS
19	Surface plasmon excitation via Au nanoparticles in n-CdSe <sup>∞</sup> p-Si heterojunction diodes. Applied Physics Letters, 2007, 91, .	3.3	94
20	The performance of vertically reinforced 1 <sup>∞</sup> 3 piezoelectric composites in active damping of smart structures. Smart Materials and Structures, 2006, 15, 631-641.	3.5	80
21	Oxide-based dilute ferromagnetic semiconductors: ZnMnO and Co:TiO <sub>2</sub> . Journal of Applied Physics, 2006, 99, 08M108.	2.5	7
22	Effects of As and Mn doping on microstructure and electrical conduction in ZnO films. Applied Physics Letters, 2006, 88, 262105.	3.3	27
23	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
24	Influence of columnar defects on magnetotransport and magnetization properties of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> . Physical Review B, 1997, 55, 11129-11132.	3.2	8
25	Peak effect and magnetization minima in single crystals. Superconductor Science and Technology, 1996, 9, 743-749.	3.5	13
26	Anomalous magnetic behavior in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> single crystals near the superconducting-transition regime. Physical Review B, 1995, 52, 6215-6218.	3.2	7
27	Magnetic properties of single-crystal Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> : Experimental evidence for a dimensional crossover. Physical Review B, 1994, 49, 12984-12989.	3.2	40
28	Fluctuation phenomena in excess conductivity and magnetization of single-crystal Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> . Physical Review B, 1994, 50, 7180-7183.	3.2	58
29	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