Ismail Polat

List of Publications by Year
in descending order

38 papers	695 citations	516710 16 h-index	580821 25 g-index
39 all docs	39 docs citations	39 times ranked	785 citing authors

#	Article	IF	Citations
1	Structural, optical and magnetic properties of Mn diffusion-doped CdS thin films prepared by vacuum evaporation. Materials Chemistry and Physics, 2011, 130, 340-345.	4.0	52
2	The influence of substrate temperature on the morphology, optical and electrical properties of thermal-evaporated ZnSe thin films. Journal of Alloys and Compounds, 2009, 487, 280-285.	5.5	45
3	On the mechanism of current-transport in Cu/CdS/SnO2/Inâ€“Ga structures. Journal of Alloys and Compounds, 2011, 509, 5555-5561.	5.5	45
4	The influence of Cu-doping on structural, optical and photocatalytic properties of ZnO nanorods. Materials Chemistry and Physics, 2014, 148, 528-532.	4.0	40
5	Enhancement in the optical and electrical properties of CdS thin films through Ga and K co-doping. Materials Science in Semiconductor Processing, 2017, 60, 45-52.	4.0	40
6	Structural, optical and magnetic properties of Zn1â^'xMnxO micro-rod arrays synthesized by spray pyrolysis method. Thin Solid Films, 2012, 520, 5172-5178.	1.8	32
7	ZnO and ZnS microrods coated on glass and photocatalytic activity. Applied Surface Science, 2012, 258, 4861-4865.	6.1	31
8	The influence of diffusion temperature on the structural, optical and magnetic properties of manganese-doped zinc oxysulfide thin films. Journal of Solid State Chemistry, 2011, 184, 2683-2689.	2.9	28
9	Sm-doped CdS thin films prepared by spray pyrolysis: a structural, optical, and electrical examination. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	27
10	Preparation and characterization of new window material CdS thin films at low substrate temperature (<300K) with vacuum deposition. Materials Science in Semiconductor Processing, 2011, 14, 120-127.	4.0	26
11	Synthesis, Characterization, and Photocatalytic Evaluation of Manganese (III) Phthalocyanine Sensitized ZnWO4 (ZnWO4MnPc) for Bisphenol A Degradation under UV Irradiation. Nanomaterials, 2020, 10, 2139.	4.1	26
12	A research on growth and characterization of CdS:Eu thin films. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	24
13	Physical properties of CdS:Ga thin films synthesized by spray pyrolysis technique. Journal of Materials Science: Materials in Electronics, 2017, 28, 3191-3199.	2.2	22
14	Fabrication of p-type CuSCN/n-type micro-structured ZnO heterojunction structures. Thin Solid Films, 2011, 519, 3679-3685.	1.8	21
15	Synthesis and fabrication of Mg-doped ZnO-based dye-synthesized solar cells. Journal of Materials Science: Materials in Electronics, 2014, 25, 3173-3178.	2.2	21
16	Silver Doped Zinc Stannate (Ag-ZnSnO3) for the Photocatalytic Degradation of Caffeine under UV Irradiation. Water (Switzerland), 2021, 13, 1290.	2.7	21
17	Surface modification of CBD-grown CdS thin films for hybrid solar cell applications. Optik, 2019, 185, 256-263.	2.9	18
18	The influence of annealing temperature and tellurium (Te) on electrical and dielectrical properties of Al/p-CIGSeTe/Mo Schottky diodes. Current Applied Physics, 2013, 13, 1112-1118.	2.4	17

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19	Fabrication and structural, electrical characterization of i-ZnO/n-ZnO nanorod homojunctions. Current Applied Physics, 2012, 12, 1326-1333.	2.4	16
20	Effects of Na-doping on the efficiency of ZnO nanorods-based dye sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2014, 25, 3721-3726.	2.2	16
21	The effect of metal work function on the barrier height of metal/CdS/SnO2/Inâ€“Ga structures. Current Applied Physics, 2013, 13, 1306-1310.	2.4	15
22	Microstructural, optical and magnetic properties of cobalt-doped zinc oxysulfide thin films. Materials Chemistry and Physics, 2011, 130, 800-805.	4.0	13
23	Optical and electrical optimization of dysprosium-doped CdS thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 14774-14782.	2.2	13
24	Structural and electrical characterization of rectifying behavior in n-type/intrinsic ZnO-based homojunctions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 588-593.	3.5	11
25	Structural and electrical characterization of ZnO-based homojunctions. Journal of Alloys and Compounds, 2010, 496, 560-565.	5.5	10
26	Structural, morphological, optical and electrical evolution of spray deposited ZnO rods co-doped with indium and sulphur atoms. Journal of Materials Science: Materials in Electronics, 2014, 25, 1810-1816.	2.2	10
27	The influence of diffusion temperature on the structural, optical, and magnetic properties of nickelâ€doped zinc oxysulfide thin films. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 160-166.	1.8	8
28	Influence of the annealing atmosphere on structural, optical and magnetic properties of Co-doped ZnO microrods. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1244-1249.	2.7	7
29	Optical and Structural Properties of Nanostructured Culn_{0.7}Ga_{0.3}(Se_(1â^'<I>x</I>)Te_{<I>x</I>})₂ Chalcopyrite Thin Filmsâ€"Effect of Stoichiometry and Annealing. Journal of Nanoscience and Nanotechnology, 2014, 14, 5002-5010.	0.9	7
30	Cu(In,Ga)(Se,Te)2 pentenary thin films formed by reaction of precursor layers. Thin Solid Films, 2015, 592, 189-194.	1.8	7
31	Role of Mg doping in the structural, optical, and electrical characteristics of ZnO-based DSSCs. Turkish Journal of Physics, 2017, 41, 160-170.	1.1	6
32	Enhanced efficiency of CdS/P3HT hybrid solar cells via interfacial modification. Turkish Journal of Physics, 2019, 43, 116-125.	1.1	5
33	Determination of optimum Er-doping level to get high transparent and low resistive Cd1â€‰â^'â€‰xErxS thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 5662-5669.	2.2	4
34	Transparent and conductive CdS:Ca thin films for optoelectronic applications. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	4
35	Fabrication of CdS nanospheres-based hybrid solar cells having increased efficiency. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	3
36	Structural, morphological, optical analyses of Ni-doped CdS thin films and their photovoltaic performance in hybrid solar cells. Journal of Materials Science: Materials in Electronics, 2020, 31, 12932-12942.	2.2	2

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37	An evaluation of structural, optical and electrical characteristics of Ag/ZnO rods/SnO2/Inâ€“Ga Schottky diode. Journal of Materials Science: Materials in Electronics, 2018, 29, 10054-10060.	2.2	1
38	IImproved performance of CdS powder-based hybrid solar cells through surface modification. GÃ¼mÃ¼ÅŸhane Ãœniversitesi Fen Bilimleri EnstitÃ¼sÃ¼ Dergisi, 0, , .	0.0	0