

Yasemin AaÄlar

List of Publications by Year in descending order

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papers

3,996
citations

109321

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86
all docs

86
docs citations

86
times ranked

3952
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical conductivity and optical properties of ZnO nanostructured thin film. Applied Surface Science, 2009, 255, 4491-4496.	6.1	278
2	Sol-gel derived Li-Mg co-doped ZnO films: Preparation and characterization via XRD, XPS, FESEM. Journal of Alloys and Compounds, 2012, 512, 171-178.	5.5	190
3	Influence of dopant concentration on the optical properties of ZnO: In films by sol-gel method. Thin Solid Films, 2009, 517, 5023-5028.	1.8	177
4	Structural, optical and electrical properties of F-doped ZnO nanorod semiconductor thin films deposited by sol-gel process. Applied Surface Science, 2008, 255, 2353-2359.	6.1	163
5	Sn doping effects on the electro-optical properties of sol gel derived transparent ZnO films. Applied Surface Science, 2010, 256, 7204-7210.	6.1	156
6	ZnO/p-Si heterojunction photodiode by sol-gel deposition of nanostructure n-ZnO film on p-Si substrate. Materials Science in Semiconductor Processing, 2010, 13, 137-140.	4.0	134
7	The effects of Al doping on the optical constants of ZnO thin films prepared by spray pyrolysis method. Journal of Materials Science: Materials in Electronics, 2008, 19, 704-708.	2.2	130
8	The effects of fluorine on the structural, surface morphology and optical properties of ZnO thin films. Physica B: Condensed Matter, 2007, 394, 86-92.	2.7	126
9	Electrical conductivity, optical and structural properties of indium-doped ZnO nanofiber thin film deposited by spray pyrolysis method. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 35, 131-138.	2.7	113
10	Microstructure and electro-optical properties of sol-gel derived Cd-doped ZnO films. Superlattices and Microstructures, 2010, 47, 732-743.	3.1	112
11	Crystalline structure and morphological properties of undoped and Sn doped ZnO thin films. Superlattices and Microstructures, 2009, 46, 469-475.	3.1	104
12	Sol-gel derived nanostructure undoped and cobalt doped ZnO: Structural, optical and electrical studies. Journal of Alloys and Compounds, 2013, 560, 181-188.	5.5	98
13	Effects of In, Al and Sn dopants on the structural and optical properties of ZnO thin films. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 67, 1113-1119.	3.9	91
14	Effect of heat treatment on physical properties of CdO films deposited by sol-gel method. International Journal of Hydrogen Energy, 2009, 34, 5191-5195.	7.1	91
15	Microstructural, optical and electrical studies on sol gel derived ZnO and ZnO:Al films. Current Applied Physics, 2012, 12, 963-968.	2.4	91
16	Temperature dependence of the optical band gap and electrical conductivity of sol-gel derived undoped and Li-doped ZnO films. Applied Surface Science, 2010, 256, 4966-4971.	6.1	85
17	A new dioxime ligand and its trinuclear copper(II) complex: Synthesis, characterization and optical properties. Optics Communications, 2007, 272, 131-137.	2.1	80
18	Single-oscillator model and determination of optical constants of spray pyrolyzed amorphous SnO ₂ thin films. European Physical Journal B, 2007, 58, 251-256.	1.5	80

#	ARTICLE	IF	CITATIONS
19	Influence of heat treatment on the nanocrystalline structure of ZnO film deposited on p-Si. Journal of Alloys and Compounds, 2009, 481, 885-889.	5.5	79
20	Morphological, optical and electrical properties of CdZnO films prepared by sol-gel method. Journal Physics D: Applied Physics, 2009, 42, 065421.	2.8	77
21	Fabrication and characterization of green synthesized ZnO nanoparticle based dye-sensitized solar cells. Journal of Science: Advanced Materials and Devices, 2020, 5, 185-191.	3.1	76
22	Structural transformations of TiO ₂ films with deposition temperature and electrical properties of nanostructure n-TiO ₂ /p-Si heterojunction diode. Journal of Alloys and Compounds, 2014, 613, 330-337.	5.5	69
23	Photovoltaic solar cell properties of Cd _x Zn _{1-x} O films prepared by sol-gel method. International Journal of Hydrogen Energy, 2009, 34, 5201-5207.	7.1	62
24	Electrical characterization of nanocluster n-CdO/p-Si heterojunction diode. Journal of Alloys and Compounds, 2010, 506, 188-193.	5.5	59
25	Boron doped nanostructure ZnO films onto ITO substrate. Journal of Alloys and Compounds, 2011, 509, 3177-3182.	5.5	57
26	Effect of ambient temperature on electrical properties of nanostructure n-ZnO/p-Si heterojunction diode. Superlattices and Microstructures, 2012, 51, 613-625.	3.1	55
27	XRD, SEM, XPS studies of Sb doped ZnO films and electrical properties of its based Schottky diodes. Optik, 2018, 164, 424-432.	2.9	51
28	Effect of channel thickness on the field effect mobility of ZnO-TFT fabricated by sol gel process. Journal of Alloys and Compounds, 2015, 621, 189-193.	5.5	50
29	The role of pH and boron doping on the characteristics of sol gel derived ZnO films. Journal of Alloys and Compounds, 2011, 509, 5290-5294.	5.5	45
30	Effect of indium incorporation on the optical properties of spray pyrolyzed Cd _{0.22} Zn _{0.78} S thin films. European Physical Journal D, 2006, 56, 277-287.	0.4	41
31	Synthesis of Mn doped ZnO nanopowders by MW-HTS and its structural, morphological and optical characteristics. Journal of Alloys and Compounds, 2019, 781, 929-935.	5.5	41
32	Influence of Mn incorporation on the structural and optical properties of sol gel derived ZnO film. Journal of Sol-Gel Science and Technology, 2010, 53, 372-377.	2.4	39
33	Preparation of Sb-doped ZnO nanostructures and studies on some of their properties. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 96-100.	2.7	38
34	Synthesized some 4-(2-thiazolylazo)resorcinol complexes: Characterization, thermal and optical properties. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 73, 174-180.	3.9	38
35	Electrical and optical properties of undoped and In-doped ZnO thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1337-1340.	0.8	37
36	Preparation and characterization of electrodeposited ZnO and ZnO:Co nanorod films for heterojunction diode applications. Journal of Alloys and Compounds, 2013, 574, 104-111.	5.5	36

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37	Investigation of the effect of Mg doping for improvements of optical and electrical properties. <i>Physica B: Condensed Matter</i> , 2016, 485, 6-13.	2.7	36
38	Structural, morphological and optical properties of CuAlS ₂ films deposited by spray pyrolysis method. <i>Optics Communications</i> , 2008, 281, 1615-1624.	2.1	34
39	Fabrication of p-Si/n-ZnO:Al heterojunction diode and determination of electrical parameters. <i>Journal of Molecular Structure</i> , 2018, 1156, 675-683.	3.6	34
40	Effect of loading and standby time of the organic dye N719 on the photovoltaic performance of ZnO based DSSC. <i>Journal of Molecular Structure</i> , 2019, 1189, 181-186.	3.6	34
41	Determination of the electronic parameters of nanostructure SnO ₂ /p-Si diode. <i>Microelectronic Engineering</i> , 2009, 86, 2072-2077.	2.4	33
42	A spectroelectrochemical study on single-oscillator model and optical constants of sulfonated polyaniline film. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 621-627.	3.9	32
43	Li doped ZnO based DSSC: Characterization and preparation of nanopowders and electrical performance of its DSSC. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 121, 114127.	2.7	32
44	Synthesis and characterization of (CuO) _x (ZnO) _{1-x} composite thin films with tunable optical and electrical properties. <i>Thin Solid Films</i> , 2012, 520, 6642-6647.	1.8	31
45	Electrical characterization of Ir doped rare-earth orthoferrite YbFeO ₃ . <i>Journal of Alloys and Compounds</i> , 2019, 787, 1212-1224.	5.5	31
46	Synthesis, structural characterization, catalytic activity on aerobic oxidation of novel Co(II) and Fe(II) phthalocyanines and computational studies of 4-[2-(2,3-dichlorophenoxy)ethoxy]phthalonitrile. <i>Journal of Organometallic Chemistry</i> , 2016, 810, 25-32.	1.8	27
47	Tailoring the band gap of ferroelectric YMnO ₃ through tuning the Os doping level. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3443-3451.	2.2	26
48	Effect of deposition parameters on the structural properties of ZnO nanopowders prepared by microwave-assisted hydrothermal synthesis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 617-622.	3.9	25
49	New Co(II) and Cu(II) Phthalocyanine Catalysts Reinforced by Long Alkyl Chains for the Degradation of Organic Pollutants. <i>Catalysis Letters</i> , 2017, 147, 1471-1477.	2.6	23
50	The effects of substrate temperature on refractive index dispersion and optical constants of CdZn(S _{0.8} Se _{0.2}) ₂ alloy thin films. <i>Journal of Alloys and Compounds</i> , 2009, 480, 234-237.	5.5	22
51	Controlling of surface morphology of ZnO nanopowders via precursor material and Al doping. <i>Materials Science in Semiconductor Processing</i> , 2019, 99, 149-158.	4.0	22
52	Investigation of structural, morphological and optical properties of nickel zinc oxide films prepared by sol-gel method. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2461-2465.	5.5	21
53	Thermally stimulated current and space charge limited current mechanism in film of the gold/zinc oxide/gold type. <i>Physica B: Condensed Matter</i> , 2007, 392, 99-103.	2.7	20
54	Mg _x Zn _{1-x} O (x=0-1) films fabricated by sol-gel spin coating. <i>Materials Research Bulletin</i> , 2010, 45, 284-287.	5.2	20

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55	Controlled growth of c-axis oriented ZnO nanorod array films by electrodeposition method and characterization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 716-723.	3.9	20
56	Synthesis, structural and optical properties of novel borylated Cu(II) and Co(II) metal complexes of 4-benzylaminobiphenylglyoxime. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 2473-2481.	1.8	18
57	Sol-gel derived zinc oxide films: Effect of deposition parameters on structure, microstructure and photoluminescence properties. <i>Superlattices and Microstructures</i> , 2011, 50, 470-479.	3.1	15
58	XPS Studies of Electrodeposited Grown F-Doped ZnO Rods and Electrical Properties of p-Si/n-FZN Heterojunctions. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-9.	2.7	15
59	Magnesium-doped zinc oxide nanorod-nanotube semiconductor/p-silicon heterojunction diodes. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	14
60	Temperature dependence of the optical band gap of sol-gel derived Fe-doped ZnO films. <i>Optik</i> , 2016, 127, 8554-8561.	2.9	13
61	Electrical characterization of the diodes-based nanostructure ZnO:B. <i>EPJ Applied Physics</i> , 2012, 58, 30101.	0.7	12
62	Improved mobility of the copper phthalocyanine thin-film transistor. <i>Synthetic Metals</i> , 2010, 160, 1520-1523.	3.9	11
63	Influence of Irradiation Time on Structural, Morphological Properties of ZnO-NRs Films Deposited by MW-CBD and Their Photodiode Applications. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-12.	2.7	10
64	The influence of low indium composition ratio on sol-gel solution-deposited amorphous zinc oxide thin film transistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11720-11728.	2.2	10
65	Azathia crown ethers carrying pyrene pendant as receptor molecules for metal sensor systems. <i>Journal of Luminescence</i> , 2011, 131, 808-814.	3.1	9
66	A Simple Spectrofluorimetric Method Based on Quenching of a Nickel(II)-Phthalocyanine Complex to Determine Iron (III). <i>Journal of Fluorescence</i> , 2016, 26, 1381-1389.	2.5	9
67	Modification of gate dielectric on the performance of copper (II) phthalocyanine based on organic field effect transistors. <i>Optik</i> , 2017, 130, 61-67.	2.9	9
68	FESEM, XRD and DRS studies of electrochemically deposited boron doped ZnO films. <i>Materials Science-Poland</i> , 2017, 35, 824-829.	1.0	9
69	Influence of Annealing Temperature on the Structural and Optical Characteristics of Nanostructure SnO ₂ Films and Their Applications in Heterojunction Diode. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2016, 11, 115-121.	0.5	9
70	The optoelectrical properties of rare earth element Eu doped Cu _x O based heterojunction photodiode. <i>Chinese Journal of Physics</i> , 2021, 72, 587-597.	3.9	8
71	Synthesis and Photodiode Characterization of Novel Twisted Carbazole Derivatives with 1,3,5-Benzene Core. <i>Silicon</i> , 2018, 10, 693-702.	3.3	7
72	The influence of Fe substitution into photovoltaic performance of p-CuO/n-Si heterojunctions. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 20755-20766.	2.2	7

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73	Spectrophotometric determination of Hg(II) in water samples by dispersive liquid liquid microextraction with use ionic liquid after derivatization with a water soluble Fe(II) phthalocyanine. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2018, 90, 331-339.	1.6	6
74	Phthalocyanine-based fluorescent chemosensor for the sensing of Zn (II) in dimethyl sulfoxide-acetonitrile. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2012, 72, 443-447.	1.6	5
75	Anthracene Substituted Co (II) and Cu (II) phthalocyanines; Preparations, Investigation of Catalytical and Electrochemical Behaviors. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4451.	3.5	5
76	Tuning the optical and morphological features of CuxO thin films via La doping. <i>Physica B: Condensed Matter</i> , 2021, 615, 413088.	2.7	5
77	The Effect of Sol Concentration on the Structural and Electrical Parameters of Nanostructure ZnO Films by Sol Gel Dip Coating. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014, 9, 618-623.	0.5	3
78	Effect of Deposition Time of Electrodeposited ZnO Nanorod Films on Crystallinity, Microstructure and Absorption Edge. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2016, 11, 244-249.	0.5	3
79	Tuning the optical properties of Fe-doped CuxO thin films synthesized via the sol-gel spin-coating method. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	3
80	An Investigation of the optoelectrical properties of n-TiO ₂ /p-Si heterojunction photodiode. <i>Surfaces and Interfaces</i> , 2022, 30, 101832.	3.0	3
81	Effect of the Deposition Temperature on the Device Performance of the Nanostructured ZnO Thin Film Transistor by Sol Gel Method. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014, 9, 689-693.	0.5	2
82	Architectural design of new conjugated systems carrying donor-acceptor groups (carbazole-CF ₃): Characterizations, optical, photophysical properties and DSSC's applications. <i>Journal of Molecular Structure</i> , 2022, 1250, 131689.	3.6	2
83	Synthesis of novel carbazole derived substances using some organoboron compounds by palladium catalyzed and investigation of its semiconductor device characteristics. <i>Journal of Molecular Structure</i> , 2018, 1157, 106-111.	3.6	1
84	Structural and Optical Properties of Electrochemically Grown Fluorine Doped Zinc Oxide Rods. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014, 9, 590-595.	0.5	1
85	XRD study of indium oxide film deposited by sol-gel spin coating. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s210-s210.	0.3	0
86	Effect of Sn dopant on the crystalline structure of sol-gel coated ZnO film. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s210-s210.	0.3	0