Emin Bacaksiz

List of Publications by Year
in descending order

111 papers	2,618 citations	172457 29 h-index	254184 43 g-index
112 all docs	112 docs citations	112 times ranked	2444 citing authors

#	Article	IF	Citations
1	The effects of zinc nitrate, zinc acetate and zinc chloride precursors on investigation of structural and optical properties of ZnO thin films. Journal of Alloys and Compounds, 2008, 466, 447-450.	5.5	178
2	Titanium dioxide (TiOâ„‚)-based photocatalyst materials activity enhancement for contaminants of emerging concern (CECs) degradation: In the light of modification strategies. Chemical Engineering Journal Advances, 2022, 10, 100262.	5.2	102
3	Structural, optical and electrical properties of Al-doped ZnO microrods prepared by spray pyrolysis. Thin Solid Films, 2010, 518, 4076-4080.	1.8	90
4	Structural, optical and magnetic properties of Cr doped ZnO microrods prepared by spray pyrolysis method. Applied Surface Science, 2011, 257, 9293-9298.	6.1	88
5	Synthesis and characterization of spray pyrolysis Zinc Oxide microrods. Thin Solid Films, 2007, 515, 3448-3451.	1.8	74
6	Structural, optical and magnetic properties of Cd1â^'xCoxS thin films prepared by spray pyrolysis. Physica B: Condensed Matter, 2008, 403, 3740-3745.	2.7	71
7	Comparative studies of CdS, CdS:Al, CdS:Na and CdS:(Alâ€“Na) thin films prepared by spray pyrolysis. Superlattices and Microstructures, 2015, 88, 299-307.	3.1	68
8	Structural, optical and magnetic properties of Ni-doped ZnO micro-rods grown by the spray pyrolysis method. Chemical Physics Letters, 2012, 525-526, 72-76.	2.6	62
9	Influence of fluorine doping on structural, electrical and optical properties of spray pyrolysis ZnS films. Thin Solid Films, 2008, 516, 2913-2916.	1.8	61
10	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
11	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
12	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
13	Effective atomic numbers and electron densities for CdSe and CdTe semiconductors. Radiation Measurements, 2008, 43, 1437-1442.	1.4	43
14	Effect of precursor stacking order and sulfurization temperature on compositional homogeneity of CZTS thin films. Thin Solid Films, 2016, 615, 402-408.	1.8	41
15	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
16	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
17	Effects of substrate temperature and post-deposition anneal on properties of evaporated cadmium telluride films. Thin Solid Films, 2007, 515, 3079-3084.	1.8	39
18	Structure and optical properties of Zn1â^'xFexO thin films prepared by ultrasonic spray pyrolysis. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 138, 74-77.	3.5	38

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19	Schottky diode properties of CuInSe2 films prepared by a two-step growth technique. Sensors and Actuators A: Physical, 2012, 185, 73-81.	4.1	37
20	Ag diffusion in ZnS thin films prepared by spray pyrolysis. Materials Letters, 2007, 61, 5239-5242.	2.6	36
21	Structural, magnetic and optical properties of Co-diffused CdTe thin films. Journal of Alloys and Compounds, 2008, 456, 6-9.	5.5	36
22	Effects of annealing temperature on the structural and optical properties of ZnO hexagonal pyramids. Journal of Alloys and Compounds, 2009, 478, 367-370.	5.5	36
23	Structural, optical and magnetic properties of Zn1â^'xCoxO thin films prepared by spray pyrolysis. Thin Solid Films, 2008, 516, 7899-7902.	1.8	34
24	The influence of substrate temperature on the morphology, optical and electrical properties of thermal-evaporated ZnTe Thin Films. Applied Surface Science, 2009, 256, 1566-1572.	6.1	34
25	Temperature dependence of ZnO rods produced by ultrasonic spray pyrolysis method. Materials Chemistry and Physics, 2007, 106, 227-230.	4.0	33
26	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
27	ZnO and ZnS microrods coated on glass and photocatalytic activity. Applied Surface Science, 2012, 258, 4861-4865.	6.1	31
28	Influence of copper composition and reaction temperature on the properties of CZTSe thin films. Journal of Alloys and Compounds, 2016, 682, 610-617.	5.5	31
29	Production of CuInSe2 thin films by a sequential processes of evaporations and selenization. Journal of Materials Science, 1999, 34, 4579-4584.	3.7	30
30	Defect-induced room temperature ferromagnetism in B-doped ZnO. Ceramics International, 2013, 39, 4609-4617.	4.8	30
31	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
32	Hydrothermal preparation of Bâ€“TiO2-graphene oxide ternary nanocomposite, characterization and photocatalytic degradation of bisphenol A under simulated solar irradiation. Materials Science in Semiconductor Processing, 2021, 123, 105591.	4.0	28
33	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
34	Degradation of Candida albicans on TiO2 and Ag-TiO2 thin films prepared by solâ€“gel and nanosuspensions. Journal of Sol-Gel Science and Technology, 2011, 60, 23-32.	2.4	26
35	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
36	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

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37	Enhanced Photocatalytic Activity of CuWO4 Doped TiO2 Photocatalyst Towards Carbamazepine Removal under UV Irradiation. Separations, 2021, 8, 25.	2.4	26
38	Effects of Cu diffusion-doping on structural, optical, and magnetic properties of ZnO nanorod arrays grown by vapor phase transport method. Journal of Applied Physics, 2012, 111, 013903.	2.5	25
39	Effect of heat treating metallic constituents on the properties of Cu2ZnSnSe4 thin films formed by a two-stage process. Thin Solid Films, 2017, 624, 167-174.	1.8	25
40	Effect of substrate temperature and post-deposition annealing on the properties of evaporated CdSe thin films. Physica Status Solidi (B): Basic Research, 2007, 244, 497-504.	1.5	24
41	A short literature survey on iron and cobalt ion doped TiO2 thin films and photocatalytic activity of these films against fungi. Journal of Alloys and Compounds, 2012, 517, 80-86.	5.5	24
42	Synthesis and characterization of Mn-doped ZnO nanorods grown in an ordered periodic honeycomb pattern using nanosphere lithography. Ceramics International, 2014, 40, 7753-7759.	4.8	24
43	A research on growth and characterization of CdS:Eu thin films. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	24
44	Current transport mechanism in CdS thin films prepared by vacuum evaporation method at substrate temperatures below room temperature. Thin Solid Films, 2012, 520, 2532-2536.	1.8	23
45	Growth of Cu₂ZnSnS₄ (CZTS) thin films using short sulfurization periods. Materials Research Express, 2019, 6, 056401.	1.6	23
46	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
47	Formation of p-type CdS thin films by laser-stimulated copper diffusion. Journal Physics D: Applied Physics, 1999, 32, L125-L128.	2.8	21
48	Fabrication of p-type CuSCN/n-type micro-structured ZnO heterojunction structures. Thin Solid Films, 2011, 519, 3679-3685.	1.8	21
49	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
50	Silver Doped Zinc Stannate (Ag-ZnSnO3) for the Photocatalytic Degradation of Caffeine under UV Irradiation. Water (Switzerland), 2021, 13, 1290.	2.7	21
51	Effects of CdCl₂ treatment on properties of CdTe thin films grown by evaporation at low substrate temperatures. Crystal Research and Technology, 2007, 42, 890-894.	1.3	20
52	Copper diffusion in ZnS thin films. Physica Status Solidi A, 2004, 201, 2948-2952.	1.7	18
53	Growth and characterization of Cu2SnS3 (CTS), Cu2SnSe3 (CTSe), and Cu2Sn(S,Se)3 (CTSSe) thin films using dip-coated Cuâ€“Sn precursor. Journal of Materials Science: Materials in Electronics, 2019, 30, 12612-12618.	2.2	18
54	Surface modification of CBD-grown CdS thin films for hybrid solar cell applications. Optik, 2019, 185, 256-263.	2.9	18

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55	Effective atomic numbers and electron densities of CuGaSe₂ semiconductor in the energy range 6â€“511 keV. X-Ray Spectrometry, 2008, 37, 490-494.	1.4	17
56	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
57	CZTS layers formed under sulfur-limited conditions at above atmospheric pressure. Materials Science in Semiconductor Processing, 2019, 90, 101-106.	4.0	17
58	Fabrication and structural, electrical characterization of i-ZnO/n-ZnO nanorod homojunctions. Current Applied Physics, 2012, 12, 1326-1333.	2.4	16
59	Structural, optical and Schottky diode properties of Cu2ZnSnS4 thin films grown by two-stage method. Journal of Materials Science: Materials in Electronics, 2019, 30, 10435-10442.	2.2	16
60	The influence of stoichiometry and annealing temperature on the properties of CuIn 0.7 Ga 0.3 Se 2 and CuIn 0.7 Ga 0.3 Te 2 thin films. Thin Solid Films, 2013, 545, 64-70.	1.8	15
61	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
62	Immobilized TiO2/ZnO Sensitized Copper (II) Phthalocyanine Heterostructure for the Degradation of Ibuprofen under UV Irradiation. Separations, 2021, 8, 24.	2.4	15
63	The influence of substrate temperature on electrical properties of Cu/CdS/SnO2 Schottky diode. Physica B: Condensed Matter, 2011, 406, 4355-4360.	2.7	14
64	Microstructural, optical and magnetic properties of cobalt-doped zinc oxysulfide thin films. Materials Chemistry and Physics, 2011, 130, 800-805.	4.0	13
65	The Investigation of Current-Conduction Mechanisms of Te/NaF:CdS/SnO2 Structure in Wide Temperature Range of 80â€“400ÂK. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2017, 87, 409-417.	1.2	13
66	Electrodeposition of Siâ€“DLC nanocomposite film and its electronic application. Microsystem Technologies, 2018, 24, 2287-2294.	2.0	13
67	Optical and electrical optimization of dysprosium-doped CdS thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 14774-14782.	2.2	13
68	Alloying and phase transformation in CdS/CdSe bilayers annealed with or without CdCl2. Materials Science in Semiconductor Processing, 2019, 91, 90-96.	4.0	12
69	Levels of cesium radionuclides in lichens and mosses from the province of Ordu in the Eastern Black Sea area of Turkey. Journal of Radioanalytical and Nuclear Chemistry, 1997, 222, 87-92.	1.5	11
70	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
71	Effect of CdS and CdSe pre-treatment on interdiffusion with CdTe in CdS/CdTe and CdSe/CdTe heterostructures. Materials Science in Semiconductor Processing, 2021, 128, 105750.	4.0	11
72	Measurement of diffusion coefficients of Ag in YBa2Cu3O7by the EDXRF technique. X-Ray Spectrometry, 2003, 32, 363-366.	1.4	10

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73	Structural and electrical characterization of ZnO-based homojunctions. Journal of Alloys and Compounds, 2010, 496, 560-565.	5.5	10
74	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
75	Temperature and tellurium (Te) dependence of electrical characterization and surface properties for a chalcopyrite structured schottky barrier diode. Journal of Alloys and Compounds, 2014, 585, 178-184.	5.5	10
76	Interpretation of barrier height inhomogeneities in Au/In2S3/SnO2/(In-Ga) structures at low temperatures. Journal of Materials Science: Materials in Electronics, 2017, 28, 7501-7508.	2.2	10
77	Cu(In,Ga)(Se,Te)2 films formed on metal foil substrates by a two-stage process employing electrodeposition and evaporation. Thin Solid Films, 2018, 649, 30-37.	1.8	10
78	Synthesis and Characterization of B/NaF and Silicon Phthalocyanine-Modified TiO2 and an Evaluation of Their Photocatalytic Removal of Carbamazepine. Separations, 2020, 7, 71.	2.4	10
79	The effect of ZnCl2 and CdCl2 treatment on ZnS/CdS junction partner on CdTe cell performance. Materials Science in Semiconductor Processing, 2022, 149, 106860.	4.0	10
80	Light-assisted deposition of CdS thin films. Journal Physics D: Applied Physics, 2001, 34, 3109-3112.	2.8	9
81	Structure and nanomechanical properties of CdTe thin films. Journal of Materials Processing Technology, 2008, 198, 202-206.	6.3	9
82	Influence of pre-annealing Cu-Sn on the structural properties of CZTSe thin films grown by a two-stage process. Materials Science in Semiconductor Processing, 2018, 88, 234-238.	4.0	9
83	Alloying effects on KÎ²/KÎ± intensity ratios and electrical properties in Cd1â^'xZnxS semi-conductor alloys. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 95, 133-139.	2.3	8
84	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
85	Defect-mediated ferromagnetism in ZnO:Mn nanorods. Applied Physics A: Materials Science and Processing, 2014, 115, 313-321.	2.3	8
86	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
87	Optical and Structural Properties of Nanostructured CuIn_{0.7}Ga_{0.3}(Se_(1â^'<I>x</I>)Te_{<I>x</I>} Chalcopyrite Thin Filmsâ€"Effect of Stoichiometry and Annealing. Journal of Nanoscience and Nanotechnology, 2014, 14, 5002-5010.	0.9	7
88	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
89	Effect of ultra-thin CdSexTe1â^'x interface layer on parameters of CdTe solar cells. Solar Energy, 2022, 234, 128-136.	6.1	7
90	Structural, electrical and optical properties of Cd1â^'xZnxO thin films and alloying effects on KÎ²/KÎ± intensity ratios. X-Ray Spectrometry, 2006, 35, 165-168.	1.4	6

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91	K shell fluorescence yield of Cd and Zn in Cd1â^'xZnxS thin films. Chemical Physics Letters, 2006, 427, 132-136.	2.6	6
92	Structural characterization of Zn1â^'xCdxO (0â‰¤xâ‰¤0.20) microrods grown by spray pyrolysis. Materials Science in Semiconductor Processing, 2009, 12, 118-121.	4.0	6
93	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
94	Nickel diffusion in polycrystalline CuInSe2 thin films with a <112> fiber texture. Thin Solid Films, 2009, 517, 2851-2854.	1.8	5
95	Enhanced efficiency of CdS/P3HT hybrid solar cells via interfacial modification. Turkish Journal of Physics, 2019, 43, 116-125.	1.1	5
96	Phase transformation in Cu2SnS3 (CTS) thin films through pre-treatment in sulfur atmosphere. Journal of Materials Science: Materials in Electronics, 2021, 32, 10018-10027.	2.2	5
97	Preparation and Characterization of Supported Molybdenum Doped TiO2 on Î±-Al2O3 Ceramic Substrate for the Photocatalytic Degradation of Ibuprofen (IBU) under UV Irradiation. Catalysts, 2022, 12, 562.	3.5	5
98	Molybdenum diffusion in CuInSe2 thin films. Journal of Materials Science Letters, 2000, 19, 1521-1524.	0.5	4
99	A novel nanostructured CuIn0.7Ga0.3(Se0.4Te0.6)2/SLG multinary compounds thin films: For photovoltaic applications. Materials Letters, 2015, 142, 273-276.	2.6	4
100	Synthesis and characterization of ZnO micro-rods and temperature-dependent characterizations of heterojunction of ZnO microrods/CdTe and ZnO microrods/ZnTe structures. Sensors and Actuators A: Physical, 2017, 261, 56-65.	4.1	4
101	Cu(In,Ga)Te₂ film growth by a two-stage technique utilizing rapid thermal processing. Semiconductor Science and Technology, 2019, 34, 035011.	2.0	4
102	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
103	Transparent and conductive CdS:Ca thin films for optoelectronic applications. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	4
104	Deposition of CdSeTe alloys using CdTeâ€"CdSe mixed powder source material in a close-space sublimation process. Journal of Materials Science: Materials in Electronics, 2021, 32, 9685-9693.	2.2	3
105	Processing CdS- and CdSe-containing window layers for CdTe solar cells. Journal Physics D: Applied Physics, 2021, 54, 215103.	2.8	3
106	Fabrication of CdS nanospheres-based hybrid solar cells having increased efficiency. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	3
107	Molybdenum Modified Solâ€“Gel Synthesized TiO2 for the Photocatalytic Degradation of Carbamazepine under UV Irradiation. Processes, 2022, 10, 1113.	2.8	3
108	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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109	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
110	Determination of Mass Attenuation Coefficients for CuInSe2 and CuGaSe2 Semiconductors. AIP Conference Proceedings, 2007, , .	0.4	0
111	IImproved performance of CdS powder-based hybrid solar cells through surface modification. GÃ¼mÃ¼ÅŸhane Ãœniversitesi Fen Bilimleri EnstitÃ¼sÃ¼ Dergisi, 0, , .	0.0	0