Åadan Korkmaz

List of Publications by Year
in descending order

113 papers	1,349 citations	394421 19 h-index	477307 29 g-index
114 all docs	114 docs citations	114 times ranked	1037 citing authors

#	Article	IF	Citations
1	Optical and Surface Characteristics of Mg-Doped GaAs Nanocrystalline Thin Film Deposited by Thermionic Vacuum Arc Technique. Journal of Electronic Materials, 2017, 46, 1-5.	2.2	84
2	Some physical properties of ZnO thin films prepared by RF sputtering technique. International Journal of Hydrogen Energy, 2009, 34, 5218-5222.	7.1	67
3	ZnO thin film synthesis by reactive radio frequency magnetron sputtering. Applied Surface Science, 2014, 318, 2-5.	6.1	46
4	Morphology, composition, structure and optical properties of CuO/Cu2O thin films prepared by RF sputtering method. Vacuum, 2016, 131, 142-146.	3.5	45
5	The Al doping effect on the surface, optical, electrical and nanomechanical properties of the ZnO and AZO thin films prepared by RF sputtering technique. Vacuum, 2017, 141, 210-215.	3.5	45
6	Electrochromic properties of TiO 2 thin films grown by thermionic vacuum arc method. Thin Solid Films, 2017, 640, 27-32.	1.8	39
7	Thermal treatment effect on the optical properties of ZrO2 thin films deposited by thermionic vacuum arc. Vacuum, 2012, 86, 1930-1933.	3.5	35
8	Deposition of MgF2 thin films for antireflection coating by using thermionic vacuum arc (TVA). Optics Communications, 2012, 285, 2373-2376.	2.1	32
9	Optical characterization of deposited ITO thin films on glass and PET substrates. Applied Surface Science, 2013, 276, 641-645.	6.1	32
10	GaN thin film deposition on glass and PET substrates by thermionic vacuum arc (TVA). Materials Chemistry and Physics, 2015, 159, 1-5.	4.0	29
11	Determination of physical properties of graphene doped ZnO (ZnO:Gr) nanocomposite thin films deposited by a thermionic vacuum arc technique. Physica B: Condensed Matter, 2019, 557, 27-33.	2.7	27
12	Investigation of the optical properties of the indium-doped ZnO thin films deposited by a thermionic vacuum arc. Optik, 2018, 157, 667-674.	2.9	26
13	Optical, morphological properties and surface energy of the transparent Li₄Ti₅O₁₂ (LTO) thin film as anode material for secondary type batteries. Journal Physics D: Applied Physics, 2016, 49, 105303.	2.8	24
14	Investigation of atomic transport and surface properties of liquid transition metals using scaling laws. Journal of Molecular Liquids, 2009, 150, 81-85.	4.9	23
15	The structural, optical and morphological properties of CaF2 thin films by using Thermionic Vacuum Arc (TVA). Materials Letters, 2013, 91, 175-178.	2.6	23
16	Investigation on the morphology and surface free energy of the AlGaN thin film. Journal of Alloys and Compounds, 2015, 653, 162-167.	5.5	21
17	The influence of voltage applied between the electrodes on optical and morphological properties of the InGaN thin films grown by thermionic vacuum arc. Scanning, 2016, 38, 14-20.	1.5	21
18	Zn/ZnSe thin films deposition by RF magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2017, 28, 2833-2837.	2.2	21

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19	Sn doped ZnO thin film deposition using thermionic vacuum arc technique. Journal of Alloys and Compounds, 2019, 774, 1017-1023.	5.5	21
20	The electrical, elemental, optical, and surface properties of Si-doped ZnO thin films prepared by thermionic vacuum arc. Materials Research Express, 2017, 4, 096404.	1.6	21
21	Diamond-like carbon coated on polyethylene terephthalate by Thermionic Vacuum Arc. Journal of Plastic Film and Sheeting, 2011, 27, 127-137.	2.2	19
22	Deposition of a Mo doped GaN thin film on glass substrate by thermionic vacuum arc (TVA). Journal of Materials Science: Materials in Electronics, 2015, 26, 5060-5064.	2.2	19
23	Some physical properties of a Si-doped nano-crystalline GaAs thin film grown by thermionic vacuum arc. Vacuum, 2015, 119, 228-232.	3.5	18
24	AlGaAs film growth using thermionic vacuum arc (TVA) and determination of its physical properties. European Physical Journal Plus, 2015, 130, 1.	2.6	18
25	Determination of the structural, morphological and optical properties of graphene doped SnO thin films deposited by using thermionic vacuum arc technique. Physica B: Condensed Matter, 2019, 569, 14-19.	2.7	18
26	Investigation of surface properties of liquid transition metals: Surface tension and surface entropy. Applied Surface Science, 2010, 257, 261-265.	6.1	17
27	Deposition of Al doped ZnO thin films on the different substrates with radio frequency magnetron sputtering. Journal of Non-Crystalline Solids, 2013, 359, 69-72.	3.1	16
28	Direct and fast growth of GaAs thin films on glass and polyethylene terephthalate substrates using a thermionic vacuum arc. Journal of Materials Science: Materials in Electronics, 2015, 26, 2210-2214.	2.2	16
29	Optical, structural, morphological and compositional characterization of a Co-doped GaAs semiconducting thin film produced by thermionic vacuum arc. Journal of Alloys and Compounds, 2016, 663, 829-833.	5.5	15
30	A comparative study of the atomic transport properties of liquid alkaline metals using scaling laws. Fluid Phase Equilibria, 2006, 249, 159-164.	2.5	14
31	Investigation of the substrate effect for Zr doped ZnO thin film deposition by thermionic vacuum arc technique. Journal of Materials Science: Materials in Electronics, 2018, 29, 18098-18104.	2.2	14
32	Electrochromic properties of UV-colored WO3 thin film deposited by thermionic vacuum arc. Journal of Materials Science: Materials in Electronics, 2020, 31, 1293-1301.	2.2	14
33	Studies on the morphological, structural, optical and electrical properties of Fe-doped ZnO magnetic nano-crystal thin films. Physica B: Condensed Matter, 2021, 609, 412921.	2.7	14
34	Some Physical Properties of the SiGe Thin Film Coatings by Thermionic Vacuum Arc (TVA). Journal of Nanoelectronics and Optoelectronics, 2015, 10, 56-60.	0.5	14
35	Atomic transport properties of liquid alkaline earth metals: a comparison of scaling laws proposed for diffusion and viscosity. Modelling and Simulation in Materials Science and Engineering, 2007, 15, 285-294.	2.0	13
36	The transparent all-solid-state rechargeable micro-battery manufacturing by RF magnetron sputtering. Journal of Alloys and Compounds, 2017, 713, 64-68.	5.5	13

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37	Investigation of the some physical properties of Ge-doped ZnO thin films deposited by thermionic vacuum arc technique. Journal of Materials Science: Materials in Electronics, 2017, 28, 14131-14137.	2.2	13
38	A comparative study of electrical resistivity of liquid alkali metals. Computational Materials Science, 2006, 37, 618-623.	3.0	12
39	Mechanical properties of deposited carbon thin films on sapphire substrates using atomic force microscopy (AFM). Ceramics International, 2014, 40, 10159-10162.	4.8	12
40	Investigation on the physical properties of C-doped ZnO thin films deposited by the thermionic vacuum arc. European Physical Journal Plus, 2017, 132, 1.	2.6	12
41	Investigation of TiO2 thin films as a cathodic material for electrochromic display devices. Journal of Materials Science: Materials in Electronics, 2020, 31, 9568-9578.	2.2	12
42	Antireflective Coating on Polyethylene Terephthalate by Thermionic Vacuum Arc. Journal of Plastic Film and Sheeting, 2010, 26, 259-270.	2.2	11
43	The investigation of the Cr doped ZnO thin films deposited by thermionic vacuum arc technique. Materials Research Express, 2018, 5, 026403.	1.6	11
44	Two-dimensional BN-doped ZnO thin-film deposition by a thermionic vacuum arcÂsystem. Journal of Materials Science: Materials in Electronics, 2020, 31, 6948-6955.	2.2	11
45	A New Deposition Technique Using Reactive Thermionic Vacuum Arc for ZnO Thin Film Production. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 437-441.	0.5	11
46	Optical and surface properties of optically transparent Li₃PO₄ solid electrolyte layer for transparent solid batteries. Scanning, 2016, 38, 317-321.	1.5	10
47	Surface and optical properties of indium tin oxide layer deposition by RF magnetron sputtering in argon atmosphere. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	10
48	The surface morphology research of the BGaN thin films deposited by thermionic vacuum arc. Vacuum, 2017, 135, 50-54.	3.5	10
49	Surface, optical and electrochemical performance of indium-doped ZnO/WO3 nano-composite thin films. SN Applied Sciences, 2020, 2, 1.	2.9	10
50	Enhanced cycle performance and stability for an electrochromic application; detailed surface and electrochromic analysis of MXene (Ti₂AlC)-doped Nb₂O₅ cathodic coloration layer. 2D Materials, 2021, 8, 045013.	4.4	10
51	Electrochromic Properties of Graphene Doped Nb₂O₅ Thin Film. ECS Journal of Solid State Science and Technology, 2020, 9, 125004.	1.8	10
52	Optical and surface properties of LiFePO4 thin films prepared by RF magnetron sputtering. European Physical Journal D, 2015, 69, 1.	1.3	9
53	Morphological and optical comparison of the Si doped GaN thin film deposited onto the transparent substrates. Materials Research Express, 2016, 3, 045012.	1.6	9
54	Heavily carbon doped GaAs nanocrystalline thin film deposited by thermionic vacuum arc method. Journal of Alloys and Compounds, 2016, 657, 711-716.	5.5	9

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55	Cubic BN thin film deposition by a RF magnetron sputtering. Vacuum, 2018, 157, 31-35.	3.5	9
56	Investigation of the surface, morphological and optical properties of boronâ€“ doped ZnO thin films deposited by thermionic vacuum arc technique. Materials Research Express, 2018, 5, 066419.	1.6	9
57	Al doped ZnO thin film deposition by thermionic vacuum arc. Journal of Materials Science: Materials in Electronics, 2019, 30, 624-630.	2.2	9
58	ULTRA THIN CARBON FILMS DEPOSITED ON SrTiO3 SUBSTRATES BY THERMIONIC VACUUM ARC. Nano, 2013, 08, 1350028.	1.0	8
59	A Rapid Method for Deposition of Sn-Doped GaN Thin Films on Glass and Polyethylene Terephthalate Substrates. Journal of Electronic Materials, 2018, 47, 167-172.	2.2	8
60	Electronic transport properties of liquid Na1â^’xKx alloys. Journal of Molecular Liquids, 2013, 186, 85-89.	4.9	7
61	Optical, morphological and mechanical properties of an Alâ€“Al2O3 nanocomposite thin film grown by thermionic vacuum arc. Optik, 2016, 127, 3383-3387.	2.9	7
62	Microstructural, surface and electrochemical properties of the nano layered LiCoO 2 thin film cathode for Li ion battery. Vacuum, 2018, 152, 248-251.	3.5	7
63	Comparisons of surface and optical properties of the heavily carbon-doped GaN nanocrystalline films deposited by thermionic vacuum arc method. Vacuum, 2016, 133, 38-42.	3.5	6
64	The substrate effect on Ge doped GaN thin films coated by thermionic vacuum arc. Journal of Materials Science: Materials in Electronics, 2017, 28, 1288-1293.	2.2	6
65	Investigation of the structural, surface, optical and electrical properties of the Indium doped CuxO thin films deposited by a thermionic vacuum arc. Materials Research Express, 2018, 5, 035909.	1.6	6
66	Characterization of Pb-Doped GaN Thin Films Grown by Thermionic Vacuum Arc. Journal of Electronic Materials, 2018, 47, 3727-3732.	2.2	6
67	The Thermionic Vacuum Arc Method for Rapid Deposition of Cu/CuO/Cu2O Thin Film. Journal of Electronic Materials, 2019, 48, 2272-2277.	2.2	6
68	Optical, surface and magnetic properties of the Ti-doped GaN nanosheets on glass and PET substrates by thermionic vacuum arc (TVA) method. Particulate Science and Technology, 2019, 37, 333-338.	2.1	6
69	Influence of RF Power on Optical and Surface Properties of the ZnO Thin Films Deposited by Magnetron Sputtering. Journal of Nanoelectronics and Optoelectronics, 2015, 10, 183-186.	0.5	6
70	Structure and electrical resistivity of liquid Inâ€“Sn alloy. Computational Materials Science, 2010, 48, 466-470.	3.0	5
71	Nanostructured vanadium carbide thin films produced by RF magnetron sputtering. Scanning, 2015, 37, 197-203.	1.5	5
72	Characterization of a fast grown GaAs:Sn thin film by thermionic vacuum arc. Journal of Materials Science: Materials in Electronics, 2015, 26, 8983-8987.	2.2	5

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73	A study on some physical properties of a Pb-doped GaAs thin film produced by thermionic vacuum arc. Journal of Alloys and Compounds, 2017, 720, 383-387.	5.5	5
74	Surface and optical properties of transparent Li3PO4 thin films deposited by magnetron sputtering technique. Journal of Materials Science: Materials in Electronics, 2017, 28, 14499-14503.	2.2	5
75	Investigation of physical properties and surface free energy of produced ITO thin films by TVA technique. Journal of Materials Science: Materials in Electronics, 2019, 30, 8876-8882.	2.2	5
76	Detailed transmittance analysis of high-performance SnO2-doped WO3 thin films in UVâ€“Vis region for electrochromic devices. Journal of Materials Science: Materials in Electronics, 2020, 31, 19074-19084.	2.2	5
77	The Effects of Boron Alloying on the Structural and Optical Properties of GaAs Deposited by a Thermionic Vacuum Arc Method. Materials Focus, 2016, 5, 1-4.	0.4	5
78	Deep understanding in physical and electrochemical performance of WO3â€“TiO2 nanocomposite thin films deposited onto ITO and FTO coated glass substrates using a thermionic vacuum arc deposition system. Physica B: Condensed Matter, 2022, 640, 414093.	2.7	5
79	A study for structure and inter-diffusion coefficient of liquid K1â^ˆ'xCsxmetal alloys. Physics and Chemistry of Liquids, 2011, 49, 801-810.	1.2	4
80	Structure and Electrical Resistivities of Liquid Al and Ga Metals and Their Binary Alloys. International Journal of Thermophysics, 2012, 33, 831-842.	2.1	4
81	A study on optical, morphological and mechanical properties of Al<SUB align="right">2O<SUB align="right">3 ultra-thin films deposited by RF reactive magnetron sputtering. International Journal of Surface Science and Engineering, 2015, 9, 415.	0.4	4
82	A new method for titania thin film production. Journal of Thermoplastic Composite Materials, 2017, 30, 808-815.	4.2	4
83	An investigation on the half-cell production for transparent secondary type solid-state batteries. Vacuum, 2018, 153, 112-116.	3.5	4
84	Investigation of the optical properties of the Cr doped CuxO thin film deposited by thermionic vacuum arc plasma. Optik, 2019, 180, 350-354.	2.9	4
85	Optical properties of Nb2O5 doped ZnO nanocomposite thin film deposited by thermionic vacuum arc. Optik, 2022, 258, 168928.	2.9	4
86	Effect of XRD relative intensities of the Li (002) on surface, optical and electrochemical impedance spectroscopy analyses of the deposited LiCoO2 thin film. Journal of Materials Science: Materials in Electronics, 2017, 28, 9289-9294.	2.2	3
87	Transparent nano layered Li3PO4 coatings on bare and ITO coated glass by thermionic vacuum arc method. Journal of Materials Science: Materials in Electronics, 2017, 28, 19010-19016.	2.2	3
88	Electrochromic Properties of Graphene Doped TiO2 Layer Deposited by Thermionic Vacuum Arc. ECS Journal of Solid State Science and Technology, 2020, 9, 061016.	1.8	3
89	Comparison of the LaF₃ Thin Films Deposited on Glass and Polyethylene Terephthalate. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 546-548.	0.5	3
90	Characterization of BaF₂ Thin Film Deposited by Thermionic Vacuum Arc. Journal of Nanoelectronics and Optoelectronics, 2015, 10, 301-303.	0.5	3

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91	Optical, Structural and Morphological Characterization of a Zn-Doped GaAs Semiconducting Thin Film Produced by Thermionic Vacuum Arc. Materials Focus, 2015, 4, 397-402.	0.4	3
92	Investigation of Al-doped CuO thin film deposition by the thermionic vacuum arc technique. Transactions of the Institute of Metal Finishing, 2021, 99, 286-291.	1.3	3
93	Optical and surface properties of the in doped GaAs layer deposition using thermionic vacuum arc method. Scanning, 2016, 38, 297-302.	1.5	2
94	Optical, surface, and microstructural properties of Li₄Ti₅O₁₂ thin films coated by RF magnetron sputtering. Particulate Science and Technology, 2018, 36, 1037-1042.	2.1	2
95	LiFePO₄ thin film deposition onto Ag coated glass by RF magnetron sputtering. Materials Research Express, 2018, 5, 116401.	1.6	2
96	Investigation of the microstructural, surface and optical properties of nano-layer MoxSy thin film deposited by thermionic vacuum arc. Materials Research Express, 2019, 6, 036411.	1.6	2
97	The microstructural, surface, optical and electrochemical impedance spectroscopic study of the semitransparent all-solid-state thin film battery. Materials Research Express, 2019, 6, 015503.	1.6	2
98	Substrate effect on electrochromic properties of Nb2O5:TiO2 nanocomposite thin films deposited by thermionic vacuum arc. Vacuum, 2022, 202, 111186.	3.5	2
99	Direct and fast growth of a SI:GAAS thin film by means of thermionic vacuum arc (TVA). , 2015, , .		1
100	Mo doped GaN thin film growth using Thermionic Vacuum Arc (TVA). , 2015, , .		1
101	Solid state battery manufacturing with thermionic vacuum ARC and RF sputtering. , 2015, , .		1
102	Investigation of the surface free energy of the ITO thin films deposited under different working pressure. AIP Conference Proceedings, 2016, , .	0.4	1
103	Influence of oxygen partial pressure on the metastable copper oxide thin films. Modern Physics Letters B, 2016, 30, 1530012.	1.9	1
104	Impedance analysis of nano thickness layered AlGaN acoustic sensor deposited by thermionic vacuum arc. AIP Conference Proceedings, 2016, , .	0.4	1
105	Some physical properties of Co-doped GaAs thin films grown by thermionic vacuum arc. AIP Conference Proceedings, 2016, , .	0.4	1
106	Investigation of the thickness effect to impedance analysis results AlGaN acoustic sensor. AIP Conference Proceedings, 2016, , .	0.4	1
107	Surface, Nanomechanical, and Optical Properties of Mo-Doped GeGaAs Thin Film Deposited by Thermionic Vacuum Arc. Journal of Electronic Materials, 2016, 45, 255-261.	2.2	1
108	A new technique for transparent solid state Li3PO4 electrolyte layer growth: thermionic vacuum arc technique. Journal of Materials Science: Materials in Electronics, 2017, 28, 11557-11561.	2.2	1

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109	Studies on the surface and optical properties of Ta-doped ZnO thin films deposited by thermionic vacuum arc. Optical and Quantum Electronics, 2021, 53, 1.	3.3	1
110	The Effect of Annealing Process on Some Physical Properties of GaN Thin Films with Gr Doping. ECS Journal of Solid State Science and Technology, 0, , .	1.8	0
111	TERMÄ°YONÄ°K VAKUM ARK Ä°LE ÃœRETÄ°LEN InGaAsN Ä°NCE FÄ°LMLERÄ°N BAZI FÄ°ZÄ°KSEL Ã–ZELLÄ°KLERÄ°. UludaÄŸ University Journal of the Faculty of Engineering, 2017, 22, 121-128.	0.2	0
112	The Electrochemical Performance of the High Transparent Nanolayered Type LiFePo4 Cathode Battery System. Materials Focus, 2018, 7, 683-688.	0.4	0
113	Investigation of pH measurement of drinking water by disposable, high accuracy, and semi-transparent BN/Ag nanocomposite thin film sensors. Inorganic and Nano-Metal Chemistry, 0, , 1-6.	1.6	0