

N A El-Ghamaz A El-Ghamaz

List of Publications by Year in descending order

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57
papers

1,581
citations

279798

23
h-index

315739

38
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57
all docs

57
docs citations

57
times ranked

1143
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical properties of thermally evaporated SnS thin films. <i>Optical Materials</i> , 2002, 20, 159-170.	3.6	177
2	Structural and optical properties of thermally evaporated zinc phthalocyanine thin films. <i>Optical Materials</i> , 2004, 27, 491-498.	3.6	117
3	Optical properties of some synthesized azo thin films. <i>Journal of Molecular Structure</i> , 2012, 1027, 92-98.	3.6	75
4	Carrier transport mechanisms and photovoltaic properties of Au/p-ZnPC/p-Si solar cell. <i>Solid-State Electronics</i> , 2005, 49, 1314-1319.	1.4	65
5	Geometrical structure and optical properties of antipyrine Schiff base derivatives. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 521-531.	4.0	65
6	Structural and Electrical Properties of PVA/PVP Blend Doped with Methylene Blue Dye. <i>International Journal of Electrochemical Science</i> , 2016, 11, 9041-9056.	1.3	65
7	Dielectrical, conduction mechanism and thermal properties of rhodanine azodyes. <i>Materials Science in Semiconductor Processing</i> , 2014, 19, 150-162.	4.0	62
8	Correlation between ionic radii of metal azodye complexes and electrical conductivity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 147, 200-211.	3.9	58
9	Synthesis, characterization, DNA binding and antitumor activities of Cu(II) complexes. <i>Journal of Molecular Liquids</i> , 2018, 269, 619-638.	4.9	56
10	Polymer complexes. LXVII: electrical conductivity and thermal properties of polymer complexes of quinoline azo dye. <i>Chemical Papers</i> , 2017, 71, 2417-2433.	2.2	48
11	D.C. electrical conductivity and conduction mechanism of some azo sulfonyl quinoline ligands and uranyl complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 61-66.	3.9	44
12	Effect of substitution group variation on the optical functions of -5-sulfono-7-(4-x phenyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (2.4	35
13	Effect of the type of metal on the electrical conductivity and thermal properties of metal complexes: The relation between ionic radius of metal complexes and electrical conductivity. <i>Journal of Molecular Structure</i> , 2018, 1160, 227-241.	3.6	35
14	Photodegradation of methylene blue with PVA/PVP blend under UV light irradiation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 199, 220-227.	3.9	33
15	Conducting polymers. VI. Effect of doping with iodine on the dielectrical and electrical conduction properties of polyacrylonitrile. <i>Solid State Sciences</i> , 2013, 24, 140-146.	3.2	31
16	Thermal, dielectric characteristics and conduction mechanism of azodyes derived from quinoline and their copper complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 143, 200-212.	3.9	31
17	Optical and dielectrical properties of azo quinoline thin films. <i>Solid State Sciences</i> , 2014, 30, 44-54.	3.2	30
18	Thermal, dielectrical properties and conduction mechanism of Cu(II) complexes of azo rhodanine derivatives. <i>Materials Research Bulletin</i> , 2015, 65, 293-301.	5.2	27

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19	Effect of Doping with Nickel Ions on the Electrical Properties of Poly(aniline-co-o-anthranilic acid) and Doped Copolymer as Precursor of NiO Nanoparticles. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 955-963.	3.7	27
20	Electrical conduction mechanisms and thermal properties of 2-(2,6-pyridinediyl)ethynyl-5,6-dimethyl-2,3-dihydro-1,4-benzodiazepine. Condensed Matter, 2013, 413, 31-35.	2.7	26
21	Optical properties of thermally evaporated 4-(4-nitrobenzalideneamino) antipyrine Schiff base thin films. Solid State Sciences, 2013, 19, 19-26.	3.2	25
22	Conducting polymers X: Dielectric constant, conduction mechanism and correlation between theoretical parameters and electrical conductivity of poly (N,N'-bis-sulphonyl) 2,6-pyridinediyl ethynyl-5,6-dimethyl-2,3-dihydro-1,4-benzodiazepine thin films. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 955-963.	5.4	25
23	In Situ Polymerization and Characterization of Aniline and O-Anthranilic Acid Copolymer/Pyrogenic Silica Nanocomposites. Polymer-Plastics Technology and Engineering, 2013, 52, 1089-1096.	1.9	24
24	Linear and nonlinear optical properties of irradiated Toluidine Blue thin films. Optik, 2019, 178, 532-543.	2.9	23
25	Geometrical structures, thermal, optical and electrical properties of azo quinoline derivatives. Journal of Molecular Liquids, 2015, 211, 628-639.	4.9	22
26	Optical and thermal properties of azo derivatives of salicylic acid thin films. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 137, 1039-1049.	3.9	21
27	Effect of annealing and UV irradiation on structural and optical properties of 6-(3,4-dihydroxyphenyl)ethynyl-5,6-dimethyl-2,3-dihydro-1,4-benzodiazepine thin films. Optical Materials, 2017, 69, 392-400.	3.6	21
28	Infrared spectra, optical constants and semiconductor behavior of 5-(2-phenylhydrazono)-3,3-dimethylcyclohexanone thin films. Journal of Molecular Structure, 2013, 1036, 144-150.	3.6	20
29	Optical properties studies on metal-ligand bonding of novel quinoline azodyes thin films. Solid State Sciences, 2013, 22, 56-64.	3.2	19
30	Conducting Polymers. VII. Effect of Doping with Iodine on the Dielectrical and Electrical Conduction Properties of Polyaniline. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2016, 46, 1179-1188.	0.6	19
31	Influence of UV irradiation on optical properties of thermally evaporated 4-(4-nitrobenzalideneamino) antipyrine Schiff base thin films. Physics D: Applied Physics, 2010, 43, 455407.	2.8	18
32	Temperature and frequency dependence outline of DC electrical conductivity, dielectric constants, and AC electrical conductivity in nanostructured TlInS ₂ thin films. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 105, 13-18.	2.7	17
33	Effect of β -radiation on the structural and optical properties of poly(3-allyl-5-[(4-nitrophenyl)diazenyl]-2-thioxothiazolidine-4-one) thin films. Journal of Molecular Liquids, 2017, 248, 556-563.	4.9	15
34	Particle size reduction of thallium indium disulphide nanostructured thin films due to post annealing. Optik, 2018, 171, 580-588.	2.9	15
35	Linear and nonlinear optical properties of alizarin red S thin films. Indian Journal of Physics, 2019, 93, 861-868.	1.8	15
36	New semiconducting core-shell nanocomposites. Composite Interfaces, 2020, 27, 385-399.	2.3	15

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37	Carrier transport mechanisms and photovoltaic characteristics of Au/toluidine blue/n-Si/Al heterojunction solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3592-3601.	2.2	13
38	Hysteresis analysis in dye-sensitized solar cell based on different metal alkali cations in the electrolyte. <i>Electrochimica Acta</i> , 2019, 319, 110-117.	5.2	13
39	Synthesis and optical properties studies of antipyrine derivatives thin films. <i>Journal of Saudi Chemical Society</i> , 2017, 21, S339-S348.	5.2	11
40	Electrical and optical properties of new azo dyes derived from m-aminophenol. <i>Synthetic Metals</i> , 2017, 226, 207-214.	3.9	10
41	Electrical conduction and dielectric properties of doped iron/poly(aniline-co-o-anthranilic acid) copolymer and production of magnetite-hematite nanoparticles based on composites as precursor. <i>Materials Express</i> , 2016, 6, 414-422.	0.5	9
42	Structural, Thermal, Electrical, and Negative Resistance Properties of $(\text{Se}_{60}\text{Te}_{40})_{1-x}\text{Te}_x$ Chalcogenide Glasses. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700666.	1.8	9
43	Structural investigation, thermal analysis and AC conduction mechanism of thermally evaporated alizarin red S thin films. <i>Optik</i> , 2018, 170, 304-313.	2.9	9
44	Thermal Kinetics and Theoretical Third Order Nonlinear Optical Susceptibility of some $\text{As}_2\text{O}_3 \cdot \text{V}_2\text{O}_5 \cdot \text{FeO}$ Glasses. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800299.	1.8	9
45	Geometrical and crystal structures, optical absorption and device characterization of N-(5-[antipyrinyl-hydrazone]-cyanomethyl)-[1,3,4]thiadiazol-2-yl)-benzamide. <i>Materials Science in Semiconductor Processing</i> , 2015, 39, 408-415.	4.0	8
46	Alternating current conductivity and dielectrical properties of -5-sulfono-7-(4-x phenyl azo)-8-hydroxy quinoline derivatives. <i>Physica B: Condensed Matter</i> , 2017, 519, 76-81.	2.7	8
47	Conducting polymers VIII: Optical and electrical conductivity of poly(bis-m-phenylenediaminosulphoxide). <i>Polymer Testing</i> , 2017, 63, 440-447.	4.8	8
48	Structural, optical and electrical studies of Toluidine Blue thin films prepared by thermal evaporation technique. <i>Journal of Luminescence</i> , 2018, 204, 428-435.	3.1	8
49	Effect of chemical and physical doping with iodine on the optical and dielectric properties of poly(vinyl chloride). <i>Chemical Physics Letters</i> , 2016, 648, 66-74.	2.6	7
50	Electrical conduction and switching properties of $\text{As}_2\text{O}_3 \cdot \text{V}_2\text{O}_5 \cdot \text{FeO}$ glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15191-15202.	2.2	7
51	New semiconductor core-shell based on nano-rods core materials. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 630-641.	1.3	7
52	Dielectrical properties and conduction mechanism of quinoline Schiff base and its complexes. <i>Research on Chemical Intermediates</i> , 2016, 42, 2501-2523.	2.7	6
53	Optical and dielectrical properties of 2-hydroxy-1-naphthylideneaniline and its derivatives. <i>Physica B: Condensed Matter</i> , 2016, 495, 130-137.	2.7	5
54	Optical, dielectrical properties and conduction mechanism of copolymer (N,N'-bissulphonyl-m-benzenediamine-p-phenylenediamine). <i>European Polymer Journal</i> , 2017, 93, 8-20.	5.4	5

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55	Conducting polymers IX: Optical properties, dielectric constants and conduction mechanism of poly() Tj ETQq1 1 0.784314 rgBT /Ove 503-512.	4.9	3
56	Theoretical and experimental studies on structural and optical properties of two quinoxaline 1,4dioxide derivatives. Journal of Materials Science: Materials in Electronics, 2020, 31, 22012-22027.	2.2	3
57	Linear and nonlinear optical properties of new azo aminosalicylic acid derivatives. Journal of Luminescence, 2018, 194, 507-518.	3.1	2