

Mazhar Muhammad

List of Publications by Year in descending order

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74
papers

1,636
citations

279798

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docs citations

74
times ranked

1911
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Yttrium and Iron Oxide Thin Films via AACVD Method for Photooxidation of Water. Russian Journal of Applied Chemistry, 2022, 95, 37-45.	0.5	3
2	Fabrication, characterization, and photocatalytic performance of ternary cadmium chalcogenides CdIn ₂ S ₄ and Cd _{7.23} Zn _{2.77} S ₁₀ -ZnS thin films. Main Group Metal Chemistry, 2021, 44, 39-50.	1.6	3
3	Phyto-inspired Cu/Bi oxide-based nanocomposites: synthesis, characterization, and energy relevant investigation. RSC Advances, 2021, 11, 30510-30519.	3.6	9
4	Optical and photocatalytic properties of biomimetic cauliflower-like Ca ₂ Mn ₃ O ₈ •CaO composite thin films. Journal of Solid State Chemistry, 2020, 290, 121552.	2.9	6
5	Fabrication of Ag-ZnO composite thin films for plasmonic enhanced water splitting. Materials Chemistry and Physics, 2020, 255, 123220.	4.0	24
6	Study of solvent effect on structural and photoconductive behavior of ternary chalcogenides InBiS ₃ -In ₂ S ₃ -Bi ₂ S ₃ composite thin films deposited via AACVD. Main Group Metal Chemistry, 2019, 42, 102-112.	1.6	14
7	Synthesis, characterization and computational study of an ilmenite-structured Ni ₃ Mn ₃ Ti ₆ O ₁₈ thin film photoanode for solar water splitting. New Journal of Chemistry, 2019, 43, 11113-11124.	2.8	7
8	Pyrochlore-structured Y ₂ Ti ₂ O ₇ •2TiO ₂ composite thin films for photovoltaic applications. Journal of the Australian Ceramic Society, 2019, 55, 921-932.	1.9	17
9	Single step aerosol assisted chemical vapor deposition of p ⁿ Sn(_{ii}) oxide•Ti(_{iv}) oxide nanocomposite thin film electrodes for investigation of photoelectrochemical properties. New Journal of Chemistry, 2018, 42, 5256-5266.	2.8	25
10	Facile fabrication of CeO ₂ •TiO ₂ thin films via solution based CVD and their photoelectrochemical studies. Journal of Materials Science: Materials in Electronics, 2018, 29, 13209-13219.	2.2	16
11	Photoelectrochemical water splitting over mesoporous CuPbI ₃ films prepared by electrophoretic technique. Monatshefte für Chemie, 2017, 148, 981-989.	1.8	13
12	Fabrication of covalently bonded nanostructured thin films of epoxy resin and polydimethylsiloxane for oil adsorption. Polymer Bulletin, 2017, 74, 4827-4840.	3.3	7
13	Iron•manganese•titanium (1•1•2) oxide composite thin films for improved photocurrent efficiency. New Journal of Chemistry, 2017, 41, 7322-7330.	2.8	17
14	Aerosol assisted chemical vapor deposition of magnesium orthotitanate (Mg ₂ TiO ₄) films from a trinuclear molecular precursor. Polyhedron, 2017, 133, 179-186.	2.2	3
15	Single step fabrication of CuO•MnO•2TiO ₂ composite thin films with improved photoelectrochemical response. RSC Advances, 2017, 7, 15885-15893.	3.6	62
16	MgTi ₂ O ₅ thin films from single molecular precursor for photoelectrochemical water splitting. Solar Energy Materials and Solar Cells, 2017, 161, 328-337.	6.2	30
17	Crystal structure and theoretical investigation of bis(<i>cis</i> -1,2-diaminocyclohexane)zinc(II) tetrachloridozincate(II). Zeitschrift Für Naturforschung - Section B Journal of Chemical Sciences, 2017, 72, 627-630.	0.7	3
18	Cadmium-manganese oxide composite thin films: Synthesis, characterization and photoelectrochemical properties. Materials Chemistry and Physics, 2017, 186, 286-294.	4.0	19

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19	Optical and optoelectronic properties of morphology and structure controlled ZnO, CdO and PbO thin films deposited by electric field directed aerosol assisted CVD. Journal of Materials Science: Materials in Electronics, 2017, 28, 868-877.	2.2	13
20	Effect of synergic cooperation on optical and photoelectrochemical properties of CeO ₂ –MnO composite thin films. New Journal of Chemistry, 2016, 40, 5177-5184.	2.8	18
21	Photoelectrocatalytic activity of Mn ₂ O ₃ –TiO ₂ composite thin films engendered from a trinuclear molecular complex. International Journal of Hydrogen Energy, 2016, 41, 9267-9275.	7.1	37
22	Fabrication of pristine Mn ₂ O ₃ and Ag–Mn ₂ O ₃ composite thin films by AACVD for photoelectrochemical water splitting. Dalton Transactions, 2016, 45, 14928-14939.	3.3	68
23	Fabrication of CoTiO ₃ –TiO ₂ composite films from a heterobimetallic single source precursor for electrochemical sensing of dopamine. Dalton Transactions, 2016, 45, 10222-10232.	3.3	41
24	Core–Shell Vanadium Modified Titania@In ₂ S ₃ Hybrid Nanorod Arrays for Superior Interface Stability and Photochemical Activity. ACS Applied Materials & Interfaces, 2016, 8, 9037-9049.	8.0	69
25	Electrochemical sensing of nitrite using a copper–titanium oxide composite derived from a hexanuclear complex. RSC Advances, 2016, 6, 27852-27861.	3.6	19
26	Photoelectrochemical properties of morphology controlled manganese, iron, nickel and copper oxides nanoball thin films deposited by electric field directed aerosol assisted chemical vapour deposition. Materials Today Communications, 2015, 4, 141-148.	1.9	18
27	Electric-Field Aerosol-Assisted CVD: Synthesis, Characterization, and Properties of Tin Oxide Microballs Prepared from a Single Source Precursor. Chemical Vapor Deposition, 2015, 21, 360-368.	1.3	10
28	Fabrication of Cu–1.5ZrO ₂ composite thin film, from heteronuclear molecular complex and its electrocatalytic activity towards methanol oxidation. RSC Advances, 2015, 5, 103852-103862.	3.6	19
29	Nitrite ion sensing properties of ZnTiO ₃ –TiO ₂ composite thin films deposited from a zinc–titanium molecular complex. New Journal of Chemistry, 2015, 39, 7442-7452.	2.8	30
30	Dye sensitized solar cell applications of CdTiO ₃ –TiO ₂ composite thin films deposited from single molecular complex. Journal of Solid State Chemistry, 2015, 230, 155-162.	2.9	25
31	Single phased MnZnO ₃ solid solution thin films for solar energy harvesting applications. Solar Energy Materials and Solar Cells, 2015, 137, 258-264.	6.2	24
32	The synthesis and characterization of a hexanuclear copper–yttrium complex for deposition of semiconducting CuYO ₂ –0.5Cu ₂ O composite thin films. New Journal of Chemistry, 2015, 39, 1031-1037.	2.8	13
33	Surface Modification of Aerosol-Assisted CVD Produced TiO ₂ Thin Film for Dye Sensitised Solar Cell. International Journal of Photoenergy, 2014, 2014, 1-12.	2.5	19
34	Vysotskite structured photoactive palladium sulphide thin films from dithiocarbamate derivatives. New Journal of Chemistry, 2014, 38, 4083-4091.	2.8	16
35	Semiconducting composite oxide Y ₂ Cu ₄ –5CuO thin films for investigation of photoelectrochemical properties. Dalton Transactions, 2014, 43, 8523-8529.	3.3	21
36	Mn ₂ O ₃ –4TiO ₂ semiconducting composite thin films for photo-electrochemical water splitting. Polyhedron, 2014, 75, 135-140.	2.2	38

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37	Heptanuclear zinc cluster for growth of zincite and manganese-doped zincite thin films for sensor applications. <i>Monatshefte für Chemie</i> , 2013, 144, 285-294.	1.8	5
38	Hexagonal structured Zn(1-x)Cd _x O solid solution thin films: synthesis, characterization and applications in photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5284.	10.3	29
39	Perovskite-Structured PbTiO ₃ Thin Films Grown from a Single-Source Precursor. <i>Inorganic Chemistry</i> , 2013, 52, 5624-5626.	4.0	32
40	Thermal degradation pathways of nickel(II) bipyridine complexes to size-controlled nickel nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 93-99.	3.6	13
41	Synthesis and characterization of silver diethyldithiocarbamate cluster for the deposition of acanthite (Ag ₂ S) thin films for photoelectrochemical applications. <i>Thin Solid Films</i> , 2013, 536, 124-129.	1.8	30
42	Pyrolysis mechanism of trisbipyridineiron(II) chloride to iron nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 707-713.	3.6	12
43	CdTiO ₃ thin films from an octa-nuclear bimetallic single source precursor by aerosol assisted chemical vapor deposition (AACVD). <i>New Journal of Chemistry</i> , 2012, 36, 1844.	2.8	25
44	Nanostructured ZnO Thin Films for Optical, Electrical, and Photoelectrochemical Applications from a New Zn Complex. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 16361-16368.	3.7	11
45	Hexanuclear copper-nickel and copper-cobalt complexes for thin film deposition of ceramic oxide composites. <i>New Journal of Chemistry</i> , 2012, 36, 911.	2.8	14
46	Cobalt titanate-cobalt oxide composite thin films deposited from heterobimetallic precursor. <i>Applied Organometallic Chemistry</i> , 2012, 26, 493-498.	3.5	18
47	Effect of AACVD Processing Parameters on the Growth of Greenockite (CdS) Thin Films using a Single-Source Cadmium Precursor. <i>Chemical Vapor Deposition</i> , 2012, 18, 191-200.	1.3	40
48	Synthesis, X-ray structural characterization and pyrolysis studies of heterobi- and heterotrimetallic molecular complexes. <i>Transition Metal Chemistry</i> , 2012, 37, 241-247.	1.4	4
49	Deposition of iron titanate/titania ceramic composite thin films from a single molecular precursor. <i>Inorganica Chimica Acta</i> , 2011, 376, 189-194.	2.4	18
50	Lithium, rubidium and cesium ion removal using potassium iron(III) hexacyanoferrate(II) supported on polymethylmethacrylate. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011, 288, 79-88.	1.5	45
51	Deposition of crystalline copper films from tetranuclear copper (II) complexes without application of reducing atmosphere. <i>Applied Organometallic Chemistry</i> , 2010, 24, 714-720.	3.5	8
52	Structural characterization and thermal behaviour of block copolymers of polydimethylsiloxane and polyamide having trichlorogermyl pendant groups. <i>Polymer International</i> , 2010, 59, 1598-1605.	3.1	10
53	Photoelectrochemical and Photoresponsive Properties of Bi ₂ S ₃ Nanotube and Nanoparticle Thin Films. <i>Chemistry of Materials</i> , 2010, 22, 5084-5092.	6.7	205
54	Copper(II) Oligomeric Derivatives for Deposition of Copper Thin Films. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 1043-1050.	2.0	10

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55	Effect of particle size and alloying with different metals on ^{57}Fe Mössbauer spectra. <i>Hyperfine Interactions</i> , 2009, 189, 85-95.	0.5	1
56	Potassium iron(III)hexacyanoferrate(II) supported on polymethylmethacrylate ion-exchanger for removal of strontium(II). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2009, 281, 393-403.	1.5	8
57	A phosphine complex of copper (I) bromide as single-source precursor for the aerosol-assisted chemical vapour deposition of phosphide. <i>Inorganica Chimica Acta</i> , 2009, 362, 3069-3072.	2.4	5
58	Low temperature and single-source synthesis of a $\text{CuO} \cdot \text{Ba}_2\text{Cu}_3\text{O}_{5+x}$ composite: Fabrication of thin films and characterization. <i>Polyhedron</i> , 2009, 28, 807-811.	2.2	11
59	Low temperature synthesis, magnetic and electrical properties of iron-magnesium superparamagnetic nanoalloy. <i>Journal of Alloys and Compounds</i> , 2009, 479, 97-101.	5.5	5
60	Photooxidation of water by NiTiO_3 deposited from single source precursor $[\text{Ni}_2\text{Ti}_2(\text{OEt})_2(\frac{1}{4}\text{-OEt})_6(\text{acac})_4]$ by AACVD. <i>Dalton Transactions</i> , 2009, , 3674.	3.3	45
61	Synthesis and characterization of trichlorogermyl dioic acids: crystal structures and complementary hydrogen bonding motifs in 3-(trichlorogermyl) pentanedioic acid and 2-[(trichlorogermyl)methyl]butanedioic acid. <i>Monatshefte für Chemie</i> , 2008, 139, 1019-1024.	1.8	3
62	Fabrication of copper-zinc oxide composite thin films from single source precursor by aerosol assisted chemical vapour deposition. <i>Polyhedron</i> , 2008, 27, 3337-3342.	2.2	7
63	Deposition and characterization of ZnO thin films from a novel hexanuclear zinc precursor. <i>Inorganica Chimica Acta</i> , 2008, 361, 188-194.	2.4	23
64	Lower homologues (methyl, ethyl) of diorganotin derivatives of germyl (substituted) propanoic acids: spectroscopic elucidations and biological studies. <i>Natural Product Research</i> , 2007, 21, 749-758.	1.8	6
65	Coupled transport of chromium(III) ions across triethanolamine/cyclohexanone based supported liquid membranes for tannery waste treatment. <i>Separation and Purification Technology</i> , 2007, 55, 292-299.	7.9	16
66	Vanadium(V) ions transport through tri-n-octyl amine cyclohexane supported liquid membranes. <i>Separation and Purification Technology</i> , 2007, 54, 227-233.	7.9	26
67	Synthesis of Isostructural Cage Complexes of Copper with Cobalt and Nickel for Deposition of Mixed Ceramic Oxide Materials. <i>Inorganic Chemistry</i> , 2006, 45, 10457-10466.	4.0	48
68	Triethanolamine-cyclohexanone supported liquid membranes study for extraction and removal of nickel ions from nickel plating wastes. <i>Journal of Membrane Science</i> , 2006, 283, 182-189.	8.2	23
69	Crystallographic report: Polymeric [3-(triphenylgermyl)-3-o-methoxyphenylpropionato]trimethyltin(IV). <i>Applied Organometallic Chemistry</i> , 2005, 19, 183-183.	3.5	0
70	Crystallographic report: 1,1-Diphenyl-3-(triphenylgermyl)-3-(4-chlorophenyl) propanol. <i>Applied Organometallic Chemistry</i> , 2005, 19, 202-202.	3.5	0
71	Synthesis and Structural Characterization of a New Heterobimetallic Coordination Complex of Barium and Cobalt for Use as a Precursor for Chemical Vapor Deposition. <i>Inorganic Chemistry</i> , 2005, 44, 9207-9212.	4.0	31
72	Studies of bimetallic carboxylates: their synthesis, characterization, biological activity and X-ray structure. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 899-908.	1.8	28

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73	Crystallographic report: Bis[3-(tri-p-tolyl)germyl-3-(o-tolyl)-propionato]dibutyltin(IV). Applied Organometallic Chemistry, 2003, 17, 801-802.	3.5	12
74	Some tricyclohexyltin carboxylates containing germanium: synthesis, spectral and crystallographic characterization. Applied Organometallic Chemistry, 2003, 17, 781-787.	3.5	33