

# Mazhar Muhammad

## List of Publications by Year in descending order

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74  
papers

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citations

279798

23  
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345221

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74  
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74  
docs citations

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times ranked

1911  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoelectrochemical and Photoresponsive Properties of Bi <sub>2</sub> S <sub>3</sub> Nanotube and Nanoparticle Thin Films. <i>Chemistry of Materials</i> , 2010, 22, 5084-5092.	6.7	205
2	Core-Shell Vanadium Modified Titania@In <sub>2</sub> S <sub>3</sub> Hybrid Nanorod Arrays for Superior Interface Stability and Photochemical Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9037-9049.	8.0	69
3	Fabrication of pristine Mn <sub>2</sub> O <sub>3</sub> and Ag-Mn <sub>2</sub> O <sub>3</sub> composite thin films by AACVD for photoelectrochemical water splitting. <i>Dalton Transactions</i> , 2016, 45, 14928-14939.	3.3	68
4	Single step fabrication of CuO-MnO <sub>2</sub> -TiO <sub>2</sub> composite thin films with improved photoelectrochemical response. <i>RSC Advances</i> , 2017, 7, 15885-15893.	3.6	62
5	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
6	Photooxidation of water by NiTiO <sub>3</sub> deposited from single source precursor [Ni <sub>2</sub> Ti <sub>2</sub> (OEt) <sub>2</sub> ( <sup>1</sup> / <sub>4</sub> -OEt) <sub>6</sub> (acac) <sub>4</sub> ] by AACVD. <i>Dalton Transactions</i> , 2009, , 3674.	3.3	45
7	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
8	Fabrication of CoTiO <sub>3</sub> -TiO <sub>2</sub> composite films from a heterobimetallic single source precursor for electrochemical sensing of dopamine. <i>Dalton Transactions</i> , 2016, 45, 10222-10232.	3.3	41
9	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
10	Mn <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> semiconducting composite thin films for photo-electrochemical water splitting. <i>Polyhedron</i> , 2014, 75, 135-140.	2.2	38
11	Photoelectrocatalytic activity of Mn <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> composite thin films engendered from a trinuclear molecular complex. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9267-9275.	7.1	37
12	Some tricyclohexyltin carboxylates containing germanium: synthesis, spectral and crystallographic characterization. <i>Applied Organometallic Chemistry</i> , 2003, 17, 781-787.	3.5	33
13	Perovskite-Structured PbTiO <sub>3</sub> Thin Films Grown from a Single-Source Precursor. <i>Inorganic Chemistry</i> , 2013, 52, 5624-5626.	4.0	32
14	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
15	Synthesis and characterization of silver diethyldithiocarbamate cluster for the deposition of acanthite (Ag <sub>2</sub> S) thin films for photoelectrochemical applications. <i>Thin Solid Films</i> , 2013, 536, 124-129.	1.8	30
16	Nitrite ion sensing properties of ZnTiO <sub>3</sub> -TiO <sub>2</sub> composite thin films deposited from a zinc-titanium molecular complex. <i>New Journal of Chemistry</i> , 2015, 39, 7442-7452.	2.8	30
17	MgTi <sub>2</sub> O <sub>5</sub> thin films from single molecular precursor for photoelectrochemical water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2017, 161, 328-337.	6.2	30
18	Hexagonal structured Zn(1-x)Cd <sub>x</sub> 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

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19	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
20	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
21	CdTiO <sub>3</sub> 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
22	Dye sensitized solar cell applications of CdTiO <sub>3</sub> –TiO <sub>2</sub> composite thin films deposited from single molecular complex. <i>Journal of Solid State Chemistry</i> , 2015, 230, 155-162.	2.9	25
23	Single step aerosol assisted chemical vapor deposition of n Sn(II) oxide–Ti(IV) oxide nanocomposite thin film electrodes for investigation of photoelectrochemical properties. <i>New Journal of Chemistry</i> , 2018, 42, 5256-5266.	2.8	25
24	Single phased MnZnO <sub>3</sub> solid solution thin films for solar energy harvesting applications. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 258-264.	6.2	24
25	Fabrication of Ag-ZnO composite thin films for plasmonic enhanced water splitting. <i>Materials Chemistry and Physics</i> , 2020, 255, 123220.	4.0	24
26	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
27	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
28	Semiconducting composite oxide Y <sub>2</sub> CuO <sub>4</sub> –5CuO thin films for investigation of photoelectrochemical properties. <i>Dalton Transactions</i> , 2014, 43, 8523-8529.	3.3	21
29	Surface Modification of Aerosol-Assisted CVD Produced TiO <sub>2</sub> Thin Film for Dye Sensitised Solar Cell. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-12.	2.5	19
30	Fabrication of CuO–1.5ZrO <sub>2</sub> composite thin film, from heteronuclear molecular complex and its electrocatalytic activity towards methanol oxidation. <i>RSC Advances</i> , 2015, 5, 103852-103862.	3.6	19
31	Electrochemical sensing of nitrite using a copper–titanium oxide composite derived from a hexanuclear complex. <i>RSC Advances</i> , 2016, 6, 27852-27861.	3.6	19
32	Cadmium-manganese oxide composite thin films: Synthesis, characterization and photoelectrochemical properties. <i>Materials Chemistry and Physics</i> , 2017, 186, 286-294.	4.0	19
33	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
34	Cobalt titanate–cobalt oxide composite thin films deposited from heterobimetallic precursor. <i>Applied Organometallic Chemistry</i> , 2012, 26, 493-498.	3.5	18
35	Photoelectrochemical properties of morphology controlled manganese, iron, nickel and copper oxides nanoball thin films deposited by electric field directed aerosol assisted chemical vapour deposition. <i>Materials Today Communications</i> , 2015, 4, 141-148.	1.9	18
36	Effect of synergic cooperation on optical and photoelectrochemical properties of CeO <sub>2</sub> –MnO composite thin films. <i>New Journal of Chemistry</i> , 2016, 40, 5177-5184.	2.8	18

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37	Iron-manganese-titanium (1:1:2) oxide composite thin films for improved photocurrent efficiency. <i>New Journal of Chemistry</i> , 2017, 41, 7322-7330.	2.8	17
38	Pyrochlore-structured Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> -2TiO <sub>2</sub> composite thin films for photovoltaic applications. <i>Journal of the Australian Ceramic Society</i> , 2019, 55, 921-932.	1.9	17
39	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
40	Vysotskite structured photoactive palladium sulphide thin films from dithiocarbamate derivatives. <i>New Journal of Chemistry</i> , 2014, 38, 4083-4091.	2.8	16
41	Facile fabrication of CeO <sub>2</sub> -TiO <sub>2</sub> thin films via solution based CVD and their photoelectrochemical studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13209-13219.	2.2	16
42	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
43	Study of solvent effect on structural and photoconductive behavior of ternary chalcogenides InBiS <sub>3</sub> -In <sub>2</sub> S <sub>3</sub> -Bi <sub>2</sub> S <sub>3</sub> composite thin films deposited via AACVD. <i>Main Group Metal Chemistry</i> , 2019, 42, 102-112.	1.6	14
44	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
45	The synthesis and characterization of a hexanuclear copper-yttrium complex for deposition of semiconducting CuYO <sub>2</sub> -0.5Cu <sub>2</sub> O composite thin films. <i>New Journal of Chemistry</i> , 2015, 39, 1031-1037.	2.8	13
46	Photoelectrochemical water splitting over mesoporous CuPb <sub>3</sub> films prepared by electrophoretic technique. <i>Monatshefte für Chemie</i> , 2017, 148, 981-989.	1.8	13
47	Optical and optoelectronic properties of morphology and structure controlled ZnO, CdO and PbO thin films deposited by electric field directed aerosol assisted CVD. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 868-877.	2.2	13
48	Crystallographic report: Bis[3-(tri-p-tolyl)germyl-3-(o-tolyl)-propionato]dibutyltin(IV). <i>Applied Organometallic Chemistry</i> , 2003, 17, 801-802.	3.5	12
49	Pyrolysis mechanism of trisbipyridineiron(II) chloride to iron nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 707-713.	3.6	12
50	Low temperature and single-source synthesis of a CuO-Ba <sub>2</sub> Cu <sub>3</sub> O <sub>5+x</sub> composite: Fabrication of thin films and characterization. <i>Polyhedron</i> , 2009, 28, 807-811.	2.2	11
51	Nanostructured ZnO Thin Films for Optical, Electrical, and Photoelectrochemical Applications from a New Zn Complex. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 16361-16368.	3.7	11
52	Copper(II) Oligomeric Derivatives for Deposition of Copper Thin Films. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 1043-1050.	2.0	10
53	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
54	Electric-Field Aerosol-Assisted CVD: Synthesis, Characterization, and Properties of Tin Oxide Microballs Prepared from a Single Source Precursor. <i>Chemical Vapor Deposition</i> , 2015, 21, 360-368.	1.3	10

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55	Phyto-inspired Cu/Bi oxide-based nanocomposites: synthesis, characterization, and energy relevant investigation. RSC Advances, 2021, 11, 30510-30519.	3.6	9
56	Potassium iron(III)hexacyanoferrate(II) supported on polymethylmethacrylate ion-exchanger for removal of strontium(II). Journal of Radioanalytical and Nuclear Chemistry, 2009, 281, 393-403.	1.5	8
57	Deposition of crystalline copper films from tetranuclear copper (II) complexes without application of reducing atmosphere. Applied Organometallic Chemistry, 2010, 24, 714-720.	3.5	8
58	Fabrication of copper-zinc oxide composite thin films from single source precursor by aerosol assisted chemical vapour deposition. Polyhedron, 2008, 27, 3337-3342.	2.2	7
59	Fabrication of covalently bonded nanostructured thin films of epoxy resin and polydimethylsiloxane for oil adsorption. Polymer Bulletin, 2017, 74, 4827-4840.	3.3	7
60	Synthesis, characterization and computational study of an ilmenite-structured Ni <sub>3</sub> Mn <sub>3</sub> Ti <sub>6</sub> O <sub>18</sub> thin film photoanode for solar water splitting. New Journal of Chemistry, 2019, 43, 11113-11124.	2.8	7
61	Lower homologues (methyl, ethyl) of diorganotin derivatives of germyl (substituted) propanoic acids: spectroscopic elucidations and biological studies. Natural Product Research, 2007, 21, 749-758.	1.8	6
62	Optical and photocatalytic properties of biomimetic cauliflower-like Ca <sub>2</sub> Mn <sub>3</sub> O <sub>8</sub> -CaO composite thin films. Journal of Solid State Chemistry, 2020, 290, 121552.	2.9	6
63	A phosphine complex of copper (I) bromide as single-source precursor for the aerosol-assisted chemical vapour deposition of phosphide. Inorganica Chimica Acta, 2009, 362, 3069-3072.	2.4	5
64	Low temperature synthesis, magnetic and electrical properties of iron-magnesium superparamagnetic nanoalloy. Journal of Alloys and Compounds, 2009, 479, 97-101.	5.5	5
65	Heptanuclear zinc cluster for growth of zincite and manganese-doped zincite thin films for sensor applications. Monatshefte für Chemie, 2013, 144, 285-294.	1.8	5
66	Synthesis, X-ray structural characterization and pyrolysis studies of heterobi- and heterotrimetallic molecular complexes. Transition Metal Chemistry, 2012, 37, 241-247.	1.4	4
67	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. Monatshefte für Chemie, 2008, 139, 1019-1024.	1.8	3
68	Aerosol assisted chemical vapor deposition of magnesium orthotitanate (Mg <sub>2</sub> TiO <sub>4</sub> ) films from a trinuclear molecular precursor. Polyhedron, 2017, 133, 179-186.	2.2	3
69	Crystal structure and theoretical investigation of bis(cis-1,2-diaminocyclohexane)zinc(II) tetrachloridozincate(II). Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2017, 72, 627-630.	0.7	3
70	Fabrication, characterization, and photocatalytic performance of ternary cadmium chalcogenides CdIn <sub>2</sub> S <sub>4</sub> and Cd <sub>7.23</sub> Zn <sub>2.77</sub> S <sub>10</sub> -ZnS thin films. Main Group Metal Chemistry, 2021, 44, 39-50.	1.6	3
71	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
72	Effect of particle size and alloying with different metals on <sup>57</sup> Fe Mössbauer spectra. Hyperfine Interactions, 2009, 189, 85-95.	0.5	1

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73	Crystallographic report: Polymeric [3-(triphenylgermyl)-3-o-methoxyphenylpropionato]trimethyltin(IV). Applied Organometallic Chemistry, 2005, 19, 183-183.	3.5	0
74	Crystallographic report: 1,1-Diphenyl-3-(triphenylgermyl)-3-(4-chlorophenyl) propanol. Applied Organometallic Chemistry, 2005, 19, 202-202.	3.5	0