

# Mahammad Hussain

## List of Publications by Citations

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80  
papers

1,506  
citations

21  
h-index

35  
g-index

84  
ext. papers

1,726  
ext. citations

2.8  
avg, IF

4.82  
L-index

#	Paper	IF	Citations
80	Spectroscopic characterization of electron-beam evaporated V2O5 thin films. <i>Thin Solid Films</i> , <b>1997</b> , 305, 219-226	2.2	142
79	Correlation between Growth Conditions, Microstructure, and Optical Properties in Pulsed-Laser-Deposited V2O5 Thin Films. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1213-1219	9.6	108
78	Grain size effects on the optical characteristics of pulsed-laser deposited vanadium oxide thin films. <i>Physica Status Solidi A</i> , <b>2003</b> , 199, R4-R6		94
77	Surface analysis of pulsed laser-deposited V2O5 thin films and their lithium intercalated products studied by Raman spectroscopy. <i>Surface and Interface Analysis</i> , <b>2005</b> , 37, 406-411	1.5	82
76	Synthesis, characterization and evaluation of effect of phyto-genic zinc nanoparticles on soil exo-enzymes. <i>Applied Nanoscience (Switzerland)</i> , <b>2014</b> , 4, 819-827	3.3	67
75	High Performance One Dimensional $\beta$ -MoO3 Nanorods for Supercapacitor Applications. <i>Ceramics International</i> , <b>2018</b> , 44, 9967-9975	5.1	64
74	On the growth mechanism of pulsed-laser deposited vanadium oxide thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2004</b> , 111, 218-225	3.1	56
73	Characterization of activated reactive evaporated MoO3 thin films for gas sensor applications. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 80, 638-646	4.4	51
72	Growth and surface characterization of V2O5 thin films made by pulsed-laser deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 2453-2458	2.9	49
71	Structural, optical and electrochromic properties of RF magnetron sputtered WO3 thin films. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 454, 141-147	2.8	45
70	Effect of molybdenum doping on the electrochromic properties of tungsten oxide thin films by RF magnetron sputtering. <i>Ionics</i> , <b>2014</b> , 20, 1737-1745	2.7	41
69	Electrochromic properties of nanocrystalline WO3 thin films grown on flexible substrates by plasma-assisted evaporation technique. <i>Applied Physics A: Materials Science and Processing</i> , <b>2010</b> , 99, 921-929	2.6	37
68	Growth and characteristics of reactive pulsed laser deposited molybdenum trioxide thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 75, 417-422	2.6	37
67	Hydrothermally synthesized porous Mn3O4 nanoparticles with enhanced electrochemical performance for supercapacitors. <i>Ceramics International</i> , <b>2019</b> , 45, 2226-2233	5.1	32
66	Graphenothermal reduction synthesis of MnO/RGO composite with excellent anodic behaviour in lithium ion batteries. <i>Ceramics International</i> , <b>2018</b> , 44, 3077-3084	5.1	24
65	Structure and morphology of laser-ablated WO3 thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 81, 1291-1297	2.6	23
64	Synthesis, Electrical And Dielectrical Properties Of Lithium Iron Oxide. <i>Advanced Materials Letters</i> , <b>2013</b> , 4, 288-295	2.4	23

63	Microstructure and supercapacitive properties of rf-sputtered copper oxide thin films: influence of O <sub>2</sub> /Ar ratio. <i>Ionics</i> , <b>2015</b> , 21, 2319-2328	2.7	22
62	Synthesis and electrochemical properties of Ti doped LiCoO <sub>2</sub> thin film cathodes. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 491, 503-506	5.7	22
61	Supercapacitive Properties of Mn <sub>3</sub> O <sub>4</sub> Nanoparticles Synthesized by Hydrothermal Method. <i>Materials Today: Proceedings</i> , <b>2016</b> , 3, 64-73	1.4	21
60	Growth, microstructure and supercapacitive performance of copper oxide thin films prepared by RF magnetron sputtering. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	21
59	Microscopic and spectroscopic properties of hydrothermally synthesized nano-crystalline LiFePO <sub>4</sub> cathode material. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 614, 13-19	5.7	19
58	Structure and electrochemistry of thin-film oxides grown by laser-pulsed deposition. <i>Ionics</i> , <b>2001</b> , 7, 165-171	2.7	19
57	Nanocrystalline Li <sub>2</sub> TiO <sub>3</sub> electrodes for supercapattery application. <i>Ionics</i> , <b>2017</b> , 23, 3419-3428	2.7	17
56	Influence of Zr dopant on microstructural and electrochemical properties of LiCoO <sub>2</sub> thin film cathodes by RF sputtering. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 828, 71-79	4.1	17
55	Facile and cost-effective synthesis of flower-like RGO/Fe <sub>3</sub> O <sub>4</sub> nanocomposites with ultra-long cycling stability for supercapacitors. <i>Ionics</i> , <b>2019</b> , 25, 655-664	2.7	16
54	Improved electrochemical performance of rGO-wrapped MoO <sub>3</sub> nanocomposite for supercapacitors. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	16
53	Enhanced electrochemical properties of as grown LiCoO <sub>2</sub> film cathodes: Influence of silicon substrate surface texturing. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 143, 536-544	4.4	16
52	RF-sputtered LiCoO <sub>2</sub> thick films: microstructure and electrochemical performance as cathodes in aqueous and nonaqueous microbatteries. <i>Ionics</i> , <b>2013</b> , 19, 421-428	2.7	15
51	Electrical and electrochemical properties of nanocrystalline LiFePO <sub>4</sub> cathode. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 113, 603-611	2.6	15
50	Synthesis and characterization of electron beam evaporated LiCoO <sub>2</sub> thin films. <i>Ionics</i> , <b>2007</b> , 13, 473-477	2.7	15
49	Structural and electrical properties of lithium manganese oxide thin films grown by pulsed laser deposition. <i>Ionics</i> , <b>2007</b> , 13, 455-459	2.7	14
48	Microstructural and supercapacitive properties of one-dimensional vanadium pentoxide nanowires synthesized by hydrothermal method. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	13
47	Influence of Ti and Zr dopants on the electrochemical performance of LiCoO <sub>2</sub> film cathodes prepared by rf-magnetron sputtering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2016</b> , 209, 30-36	3.1	13
46	Structural, Optical, and Luminescence Properties of Reactive Magnetron Sputtered Tungsten Oxide Thin Films <b>2012</b> , 2012, 1-8		13

45	Molybdenum doped V <sub>2</sub> O <sub>5</sub> Thin Films electrodes for Supercapacitors. <i>Materials Today: Proceedings</i> , <b>2016</b> , 3, 4076-4081	1.4	13
44	Microstructural and electrochemical properties of LiTi <sub>y</sub> Co <sub>1-y</sub> O <sub>2</sub> film cathodes prepared by RF sputtering. <i>Journal of Solid State Electrochemistry</i> , <b>2015</b> , 19, 3621-3627	2.6	12
43	Fabrication of the Mn <sub>3</sub> O <sub>4</sub> thin film electrodes by electron beam evaporation for supercapacitor applications. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 851, 113409	4.1	11
42	Synthesis of flower-like reduced graphene oxide/Mn <sub>3</sub> O <sub>4</sub> nanocomposite electrodes for supercapacitors. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	11
41	Influence of annealing temperature on microstructural and electrochemical properties of rf-sputtered LiMn <sub>2</sub> O <sub>4</sub> film cathodes. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 3383-3390	2.6	11
40	Photo- and Electrochromic Properties of Activated Reactive Evaporated MoO <sub>3</sub> Thin Films Grown on Flexible Substrates. <i>Research Letters in Nanotechnology</i> , <b>2008</b> , 2008, 1-5		11
39	Characteristics of Al/p-Cu <sub>0.5</sub> Ag <sub>0.5</sub> InSe <sub>2</sub> Polycrystalline Thin Film Schottky Barrier Diodes. <i>Crystal Research and Technology</i> , <b>2001</b> , 36, 571-576	1.3	11
38	A powerful electrochemical sensor based on Fe <sub>3</sub> O <sub>4</sub> nanoparticles-multiwalled carbon nanotubes hybrid for the effective monitoring of sunset yellow in soft drinks. <i>Journal of Food Measurement and Characterization</i> , <b>2020</b> , 14, 3319-3332	2.8	11
37	Improved electrochemical performance of Mn <sub>3</sub> O <sub>4</sub> thin film electrodes for supercapacitors. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 84, 83-90	4.3	11
36	RF Magnetron Sputter Deposited Nanocrystalline LiCoO <sub>2</sub> Film Cathodes on Flexible Substrates. <i>Advanced Science, Engineering and Medicine</i> , <b>2012</b> , 4, 190-199	0.6	10
35	LiTiO/Ni foam composite as high-performance electrode for energy storage and conversion. <i>Heliyon</i> , <b>2019</b> , 5, e02060	3.6	9
34	Microstructural and electrochemical properties of rf-sputtered LiFePO <sub>4</sub> thin films. <i>Ionics</i> , <b>2014</b> , 20, 1095-1101	2.1	9
33	Microstructural and electrochemical properties of rf-sputtered LiMn <sub>2</sub> O <sub>4</sub> thin film cathodes. <i>Applied Nanoscience (Switzerland)</i> , <b>2012</b> , 2, 401-407	3.3	8
32	Supercapacitive Performance of Mn <sub>3</sub> O <sub>4</sub> Nanoparticles Synthesized by Hydrothermal Method. <i>Advanced Science, Engineering and Medicine</i> , <b>2016</b> , 8, 140-145	0.6	8
31	One-dimensional MoO <sub>3</sub> /Pd nanocomposite electrodes for high performance supercapacitors. <i>Materials Research Express</i> , <b>2019</b> , 6, 085543	1.7	7
30	Hydrothermal synthesis of intertwining network structured TiO <sub>2</sub> nanocomposite: A promising material for the effective monitoring of dopamine and anodic performance in lithium-ion battery. <i>Synthetic Metals</i> , <b>2020</b> , 265, 116403	3.6	6
29	Intertwining network structured VnO <sub>2n+1</sub> -CNT/GO nanocomposite electrodes for supercapacitors. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 237, 121825	4.4	6
28	Pulsed laser deposited Li <sub>2</sub> TiO <sub>3</sub> thin film electrodes for energy storage. <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 1371-1385	2.6	4

27	Electrospun TiO <sub>2</sub> nanofiber electrodes for high performance supercapacitors. <i>Materials Research Express</i> , <b>2020</b> , 7, 015098	1.7	4
26	Structural and optical characterization of DC magnetron sputtered molybdenum oxide films. <i>Ionics</i> , <b>2007</b> , 13, 451-454	2.7	4
25	Structural And Supercapacitive Performance Of V <sub>2</sub> O <sub>5</sub> Thin Films Prepared By DC Magnetron Sputtering. <i>IOSR Journal of Applied Chemistry</i> , <b>2017</b> , 10, 64-69		4
24	Electrochemical Performance of Nanocrystalline Vanadium Pentoxide Thin Films Grown by RF Magnetron Sputtering. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 1922-1934	1.9	4
23	Spectroscopic and Electrochemical Properties of Lithium-Rich LiFePO <sub>4</sub> Cathode Synthesized by Solid-State Reaction. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 4865-4874	1.9	3
22	Photoconductive response of polycrystalline Cu <sub>0.5</sub> Ag <sub>0.5</sub> InSe <sub>2</sub> thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2001</b> , 12, 511-514	2.1	3
21	Optical absorption studies on AgGa <sub>0.25</sub> In <sub>0.75</sub> Se <sub>2</sub> polycrystalline films. <i>Journal of Materials Science Letters</i> , <b>2001</b> , 20, 63-65		3
20	Sodium dodecyl sulphate assisted hydrothermally synthesized hexagonal prismatic nanocrystalline zinc cobaltite for high performance supercapacitors. <i>Ionics</i> , <b>2019</b> , 25, 3897-3905	2.7	2
19	Effect of manganese doping on the structural, morphological, optical, electrical, and magnetic properties of BaSnO <sub>3</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 11159-11176	2.1	2
18	Tailoring of electrochemical properties of V <sub>2</sub> O <sub>5</sub> thin films grown on flexible substrates using plasma-assisted activated reactive evaporation. <i>Ionics</i> , <b>2013</b> , 19, 1359-1365	2.7	2
17	Synthesis and characterization of phytogetic zinc nanoparticles and their antimicrobial activity <b>2013</b> ,		2
16	IMPEDANCE SPECTROSCOPY STUDIES OF NANO-CRYSTALLINE LiFePO <sub>4</sub> CATHODE SYNTHESIZED BY HYDROTHERMAL METHOD. <i>International Journal of Modern Physics Conference Series</i> , <b>2013</b> , 22, 517-524	0.7	2
15	Electrochemical properties of magnetron sputtered WO <sub>3</sub> thin films <b>2013</b> ,		2
14	Electrochemical Performance of rf Magnetron Sputtered LiCoO <sub>2</sub> Thin Film Positive Electrodes <b>2010</b> ,		2
13	STRUCTURAL AND ELECTROCHEMICAL PROPERTIES OF MONOCLINIC AND ORTHORHOMBIC MoO <sub>3</sub> PHASES <b>2006</b> ,		2
12	Electron Beam Evaporated Nano-Crystalline V <sub>2</sub> O <sub>5</sub> Thin Films for Electrochromic and Electrochemical Applications. <i>Springer Proceedings in Physics</i> , <b>2013</b> , 485-497	0.2	2
11	Electrical and electrochemical performance of Mn <sub>3</sub> O <sub>4</sub> nanoparticles synthesized by hydrothermal method <b>2016</b> ,		2
10	Development of carbon-based nanocomposite biosensor platform for the simultaneous detection of catechol and hydroquinone in local tap water. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 5243-5258	2.1	2

9	RF-sputter deposited flexible copper oxide thin films for electrochemical energy storage. <i>Indian Journal of Physics</i> , <b>2018</b> , 92, 21-27	1.4	2
8	High electrochemical performance of spinel Mn <sub>3</sub> O <sub>4</sub> over Co <sub>3</sub> O <sub>4</sub> nanocrystals. <i>Journal of Molecular Structure</i> , <b>2021</b> , 1241, 130619	3.4	2
7	Growth and electrochemical properties of RF sputter deposited Li[Ni <sub>0.5</sub> Co <sub>0.25</sub> Mn <sub>0.25</sub> ]O <sub>2</sub> film cathodes. <i>Materials Today: Proceedings</i> , <b>2019</b> , 19, 388-391	1.4	1
6	Microstructural and Electrochemical Properties of rf-Sputtered LiFeO <sub>2</sub> Thin Films. <i>Journal of Nanoscience</i> , <b>2014</b> , 2014, 1-6		1
5	Influence of Annealing Temperature on Electron Beam Evaporated LiMn <sub>2</sub> O <sub>4</sub> Thin Films. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	1
4	Electrical transport mechanism in Al/V <sub>2</sub> O <sub>5</sub> /Al microdevices. <i>Ionics</i> , <b>2001</b> , 7, 130-137	2.7	1
3	Synthesis and characterization of a bi-functionalized lithium cobalt iron oxide/graphene nano-architected composite material for electrochemical sensing of dopamine and as cathode in lithium-ion battery. <i>Monatshefte Für Chemie</i> , <b>2021</b> , 152, 785	1.4	1
2	Improved supercapacitive performance of low pore size and highly stable nanostructured NiCo <sub>2</sub> O <sub>4</sub> electrodes. <i>Journal of Solid State Electrochemistry</i> , <b>2021</b> , 25, 1411-1420	2.6	1
1	Characteristics of Al/p-Cu <sub>0.5</sub> Ag <sub>0.5</sub> InSe <sub>2</sub> Polycrystalline Thin Film Schottky Barrier Diodes <b>2001</b> , 36, 571		1