Mahammad Hussain

List of Publications by Year in Descending Order

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	Synthesis and characterization of a bi-functionalized lithium cobalt iron oxide/graphene nano-architectured composite material for electrochemical sensing of dopamine and as cathode in lithium-ion battery. *Monatshefte F□ Chemie*, **2021**, 152, 785	1.4	1
79	Development of carbon-based nanocomposite biosensor platform for the simultaneous detection of catechol and hydroquinone in local tap water. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 5243-5258	2.1	2
78	Improved supercapacitive performance of low pore size and highly stable nanostructured NiCo2O4 electrodes. *Journal of Solid State Electrochemistry*, **2021**, 25, 1411-1420	2.6	1
77	High electrochemical performance of spinel Mn3O4 over Co3O4 nanocrystals. *Journal of Molecular Structure*, **2021**, 1241, 130619	3.4	2
76	Effect of manganese doping on the structural, morphological, optical, electrical, and magnetic properties of BaSnO3. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 11159-11176	2.1	2
75	Hydrothermal synthesis of intertwining network structured TiO2 nanocomposite: A promising material for the effective monitoring of dopamine and anodic performance in lithium-ion battery. *Synthetic Metals*, **2020**, 265, 116403	3.6	6
74	Pulsed laser□deposited Li2TiO3 thin film electrodes for energy storage. *Journal of Solid State Electrochemistry*, **2020**, 24, 1371-1385	2.6	4
73	Electrospun TiO2 nanofiber electrodes for high performance supercapacitors. *Materials Research Express*, **2020**, 7, 015098	1.7	4
72	Electrochemical Performance of Nanocrystalline Vanadium Pentoxide Thin Films Grown by RF Magnetron Sputtering. *Journal of Electronic Materials*, **2020**, 49, 1922-1934	1.9	4
71	A powerful electrochemical sensor based on Fe3O4 nanoparticles-multiwalled carbon nanotubes hybrid for the effective monitoring of sunset yellow in soft drinks. *Journal of Food Measurement and Characterization*, **2020**, 14, 3319-3332	2.8	11
70	Fabrication of the Mn3O4 thin film electrodes by electron beam evaporation for supercapacitor applications. *Journal of Electroanalytical Chemistry*, **2019**, 851, 113409	4.1	11
69	One-dimensional MoO3/Pd nanocomposite electrodes for high performance supercapacitors. *Materials Research Express*, **2019**, 6, 085543	1.7	7
68	Sodium dodecyl sulphate assisted hydrothermally synthesized hexagonal prismatic nanocrystalline zinc cobaltite for high performance supercapacitors. *Ionics*, **2019**, 25, 3897-3905	2.7	2
67	Facile and cost-effective synthesis of flower-like RGO/Fe3O4 nanocomposites with ultra-long cycling stability for supercapacitors. *Ionics*, **2019**, 25, 655-664	2.7	16
66	Intertwining network structured VnO2n+1-CNT/GO nanocomposite electrodes for supercapacitors. *Materials Chemistry and Physics*, **2019**, 237, 121825	4.4	6
65	LiTiO/Ni foam composite as high-performance electrode for energy storage and conversion. *Heliyon*, **2019**, 5, e02060	3.6	9
64	Improved electrochemical performance of rGO-wrapped MoO3 nanocomposite for supercapacitors. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	16

63	Growth and electrochemical properties of RF sputter deposited Li[Ni0.5Co0.25Mn0.25]O2 film cathodes. *Materials Today: Proceedings*, **2019**, 19, 388-391	1.4	1
62	Hydrothermally synthesized porous Mn3O4 nanoparticles with enhanced electrochemical performance for supercapacitors. *Ceramics International*, **2019**, 45, 2226-2233	5.1	32
61	High Performance One Dimensional MoO3 Nanorods for Supercapacitor Applications. *Ceramics International*, **2018**, 44, 9967-9975	5.1	64
60	Microstructural and supercapacitive properties of one-dimensional vanadium pentoxide nanowires synthesized by hydrothermal method. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	13
59	Synthesis of flower-like reduced graphene oxide Mn3O4 nanocomposite electrodes for supercapacitors. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	11
58	Graphenothermal reduction synthesis of MnO/RGO composite with excellent anodic behaviour in lithium ion batteries. *Ceramics International*, **2018**, 44, 3077-3084	5.1	24
57	RF-sputter deposited flexible copper oxide thin films for electrochemical energy storage. *Indian Journal of Physics*, **2018**, 92, 21-27	1.4	2
56	Influence of Zr dopant on microstructural and electrochemical properties of LiCoO2 thin film cathodes by RF sputtering. *Journal of Electroanalytical Chemistry*, **2018**, 828, 71-79	4.1	17
55	Improved electrochemical performance of Mn3O4 thin film electrodes for supercapacitors. *Materials Science in Semiconductor Processing*, **2018**, 84, 83-90	4.3	11
54	Spectroscopic and Electrochemical Properties of Lithium-Rich LiFePO4 Cathode Synthesized by Solid-State Reaction. *Journal of Electronic Materials*, **2017**, 46, 4865-4874	1.9	3
53	Structural And Supercapacitive Performance Of V2O5 Thin Films Prepared By DC Magnetron Sputtering. *IOSR Journal of Applied Chemistry*, **2017**, 10, 64-69		4
52	Nanocrystalline Li2TiO3 electrodes for supercapattery application. *Ionics*, **2017**, 23, 3419-3428	2.7	17
51	Influence of Ti and Zr dopants on the electrochemical performance of LiCoO2 film cathodes prepared by rf-magnetron sputtering. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2016**, 209, 30-36	3.1	13
50	Supercapacitive Properties of Mn3O4 Nanoparticles Synthesized by Hydrothermal Method. *Materials Today: Proceedings*, **2016**, 3, 64-73	1.4	21
49	Growth, microstructure and supercapacitive performance of copper oxide thin films prepared by RF magnetron sputtering. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	21
48	Supercapacitive Performance of Mn3O4 Nanoparticles Synthesized by Hydrothermal Method. *Advanced Science, Engineering and Medicine*, **2016**, 8, 140-145	0.6	8
47	Electrical and electrochemical performance of Mn3O4 nanoparticles synthesized by hydrothermal method **2016**,		2
46	Molybdenum doped V2O5 Thin Films electrodes for Supercapacitors. *Materials Today: Proceedings*, **2016**, 3, 4076-4081	1.4	13

45	Microstructure and supercapacitive properties of rf-sputtered copper oxide thin films: influence of O2/Ar ratio. *Ionics*, **2015**, 21, 2319-2328	2.7	22
44	Microstructural and electrochemical properties of LiTi y Co 1-y O2 film cathodes prepared by RF sputtering. *Journal of Solid State Electrochemistry*, **2015**, 19, 3621-3627	2.6	12
43	Microstructural and electrochemical properties of rf-sputtered LiFePO4 thin films. *Ionics*, **2014**, 20, 1095-1101	2.7	9
42	Synthesis, characterization and evaluation of effect of phytogenic zinc nanoparticles on soil exo-enzymes. *Applied Nanoscience (Switzerland)*, **2014**, 4, 819-827	3.3	67
41	Structural, optical and electrochromic properties of RF magnetron sputtered WO3 thin films. *Physica B: Condensed Matter*, **2014**, 454, 141-147	2.8	45
40	Microscopic and spectroscopic properties of hydrothermally synthesized nano-crystalline LiFePO4 cathode material. *Journal of Alloys and Compounds*, **2014**, 614, 13-19	5.7	19
39	Effect of molybdenum doping on the electrochromic properties of tungsten oxide thin films by RF magnetron sputtering. *Ionics*, **2014**, 20, 1737-1745	2.7	41
38	Microstructural and Electrochemical Properties of rf-Sputtered LiFeO2 Thin Films. *Journal of Nanoscience*, **2014**, 2014, 1-6		1
37	Enhanced electrochemical properties of as grown LiCoO2 film cathodes: Influence of silicon substrate surface texturing. *Materials Chemistry and Physics*, **2014**, 143, 536-544	4.4	16
36	Tailoring of electrochemical properties of V2O5 thin films grown on flexible substrates using plasma-assisted activated reactive evaporation. *Ionics*, **2013**, 19, 1359-1365	2.7	2
35	RF-sputtered LiCoO2 thick films: microstructure and electrochemical performance as cathodes in aqueous and nonaqueous microbatteries. *Ionics*, **2013**, 19, 421-428	2.7	15
34	Electrical and electrochemical properties of nanocrystalline LiFePO4 cathode. *Applied Physics A: Materials Science and Processing*, **2013**, 113, 603-611	2.6	15
33	Synthesis and characterization of phytogenic zinc nanoparticles and their antimicrobial activity **2013**,		2
32	IMPEDANCE SPECTROSCOPY STUDIES OF NANO-CRYSTALLINE LiFePO4 CATHODE SYNTHESIZED BY HYDROTHERMAL METHOD. *International Journal of Modern Physics Conference Series*, **2013**, 22, 517-524	0.7	2
31	Electrochemical properties of magnetron sputtered WO3 thin films **2013**,		2
30	Synthesis, Electrical And Dielectrical Properties Of Lithium Iron Oxide. *Advanced Materials Letters*, **2013**, 4, 288-295	2.4	23
29	Electron Beam Evaporated Nano-Crystalline V2O5 Thin Films for Electrochromic and Electrochemical Applications. *Springer Proceedings in Physics*, **2013**, 485-497	0.2	2
28	Influence of annealing temperature on microstructural and electrochemical properties of rf-sputtered LiMn2O4 film cathodes. *Journal of Solid State Electrochemistry*, **2012**, 16, 3383-3390	2.6	11

27	Microstructural and electrochemical properties of rf-sputtered LiMn2O4 thin film cathodes. *Applied Nanoscience (Switzerland)*, **2012**, 2, 401-407	3.3	8
26	Structural, Optical, and Luminescence Properties of Reactive Magnetron Sputtered Tungsten Oxide Thin Films **2012**, 2012, 1-8		13
25	RF Magnetron Sputter Deposited Nanocrystalline LiCoO2 Film Cathodes on Flexible Substrates. *Advanced Science, Engineering and Medicine*, **2012**, 4, 190-199	0.6	10
24	Electrochemical Performance of rf Magnetron Sputtered LiCoO2 Thin Film Positive Electrodes **2010** ,		2
23	Synthesis and electrochemical properties of Ti doped LiCoO2 thin film cathodes. *Journal of Alloys and Compounds*, **2010**, 491, 503-506	5.7	22
22	Electrochromic properties of nanocrystalline WO3 thin films grown on flexible substrates by plasma-assisted evaporation technique. *Applied Physics A: Materials Science and Processing*, **2010**, 99, 921-929	2.6	37
21	Influence of Annealing Temperature on Electron Beam Evaporated LiMn2O4 Thin Films. *AIP Conference Proceedings*, **2008**,	0	1
20	Photo- and Electrochromic Properties of Activated Reactive EvaporatedMoO3Thin Films Grown on Flexible Substrates. *Research Letters in Nanotechnology*, **2008**, 2008, 1-5		11
19	Structural and optical characterization of DC magnetron sputtered molybdenum oxide films. *Ionics*, **2007**, 13, 451-454	2.7	4
18	Structural and electrical properties of lithium manganese oxide thin films grown by pulsed laser deposition. *Ionics*, **2007**, 13, 455-459	2.7	14
17	Synthesis and characterization of electron beam evaporated LiCoO2 thin films. *Ionics*, **2007**, 13, 473-477	2.7	15
16	STRUCTURAL AND ELECTROCHEMICAL PROPERTIES OF MONOCLINIC AND ORTHORHOMBIC MoO3 PHASES **2006**,		2
15	Correlation between Growth Conditions, Microstructure, and Optical Properties in Pulsed-Laser-Deposited V2O5 Thin Films. *Chemistry of Materials*, **2005**, 17, 1213-1219	9.6	108
14	Structure and morphology of laser-ablated WO3 thin films. *Applied Physics A: Materials Science and Processing*, **2005**, 81, 1291-1297	2.6	23
13	Surface analysis of pulsed laser-deposited V2O5 thin films and their lithium intercalated products studied by Raman spectroscopy. *Surface and Interface Analysis*, **2005**, 37, 406-411	1.5	82
12	Growth and surface characterization of V2O5 thin films made by pulsed-laser deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2004**, 22, 2453-2458	2.9	49
11	On the growth mechanism of pulsed-laser deposited vanadium oxide thin films. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2004**, 111, 218-225	3.1	56
10	Characterization of activated reactive evaporated MoO3 thin films for gas sensor applications. *Materials Chemistry and Physics*, **2003**, 80, 638-646	4.4	51

9	Grain size effects on the optical characteristics of pulsed-laser deposited vanadium oxide thin films. *Physica Status Solidi A*, **2003**, 199, R4-R6		94
8	Growth and characteristics of reactive pulsed laser deposited molybdenum trioxide thin films. *Applied Physics A: Materials Science and Processing*, **2002**, 75, 417-422	2.6	37
7	Electrical transport mechanism in Al/V2O5/Al microdevices. *Ionics*, **2001**, 7, 130-137	2.7	1
6	Structure and electrochemistry of thin-film oxides grown by laser-pulsed deposition. *Ionics*, **2001**, 7, 165-171	2.7	19
5	Characteristics of Al/p-Cu0.5Ag0.5InSe2 Polycrystalline Thin Film Schottky Barrier Diodes. *Crystal Research and Technology*, **2001**, 36, 571-576	1.3	11
4	Photoconductive response of polycrystalline Cu0.5Ag0.5InSe2 thin films. *Journal of Materials Science: Materials in Electronics*, **2001**, 12, 511-514	2.1	3
3	Optical absorption studies on AgGa0.25In0.75Se2 polycrystalline films. *Journal of Materials Science Letters*, **2001**, 20, 63-65		3
2	Characteristics of Al/p-Cu0.5Ag0.5InSe2 Polycrystalline Thin Film Schottky Barrier Diodes **2001**, 36, 571		1
1	Spectroscopic characterization of electron-beam evaporated V2O5 thin films. *Thin Solid Films*, **1997**, 305, 219-226	2.2	142