

Eslam M Sheha

List of Publications by Year in descending order

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papers

737
citations

567281

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times ranked

732
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure, dielectric and optical properties of p-type (PVA/CuI) nanocomposite polymer electrolyte for photovoltaic cells. <i>Optik</i> , 2012, 123, 1161-1166.	2.9	92
2	Electrical conduction and dielectric relaxation in p-type PVA/CuI polymer composite. <i>Journal of Advanced Research</i> , 2013, 4, 531-538.	9.5	85
3	A high voltage magnesium battery based on H ₂ SO ₄ -doped (PVA) _{0.7} (NaBr) _{0.3} solid polymer electrolyte. <i>Journal of Power Sources</i> , 2008, 185, 1509-1513.	7.8	56
4	Preparation and physical properties of (PVA) _{0.7} (NaBr) _{0.3} (H ₃ PO ₄) _M solid acid membrane for phosphoric acid fuel cells. <i>Journal of Advanced Research</i> , 2013, 4, 155-161.	9.5	49
5	Characterization of PVA/CuI polymer composites as electron donor for photovoltaic application. <i>Optik</i> , 2013, 124, 1624-1631.	2.9	35
6	Characterization of poly (vinyl alcohol)/poly(3,4-ethylenedioxythiophene) poly(styrenesulfonate) polymer blend: structure, optical absorption, electrical and dielectric properties. <i>Physica Scripta</i> , 2013, 88, 035701.	2.5	32
7	Ionic conductivity and dielectric properties of plasticized PVA _{0.7} (LiBr) _{0.3} (H ₂ SO ₄) _{2.7M} solid acid membrane and its performance in a magnesium battery. <i>Solid State Ionics</i> , 2009, 180, 1575-1579.	2.7	31
8	Dual Polymer/Liquid Electrolyte with BaTiO ₃ Electrode for Magnesium Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 5882-5892.	5.1	26
9	A Simple Cl ⁻ -Free Electrolyte Based on Magnesium Nitrate for Magnesium-Sulfur Battery Applications. <i>ACS Applied Energy Materials</i> , 2022, 5, 2260-2269.	5.1	24
10	Structural and electrical properties of pure and H ₂ SO ₄ doped (PVA) _{0.7} (NaI) _{0.3} solid polymer electrolyte. <i>Ionics</i> , 2010, 16, 269-275.	2.4	22
11	The role of MgBr ₂ to enhance the ionic conductivity of PVA/PEDOT:PSS polymer composite. <i>Journal of Advanced Research</i> , 2015, 6, 563-569.	9.5	18
12	Attempt to tune the dielectric and optical properties in PVA/ZnO composite using tetra ethylene glycol dimethyl ether for light emitting devices. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	18
13	SmFeO ₃ and Bi-doped SmFeO ₃ perovskites as an alternative class of electrodes in lithium-ion batteries. <i>CrystEngComm</i> , 2018, 20, 6165-6172.	2.6	17
14	Effect of Tetraethylene Glycol Dimethyl Ether on Electrical, Structural and Thermal Properties of PVA-Based Polymer Electrolyte for Magnesium Battery. <i>Acta Physica Polonica A</i> , 2015, 127, 803-810.	0.5	16
15	The electrical and electrochemical properties of graphene nanoplatelets modified 75V ₂ O ₅ -25P ₂ O ₅ glass as a promising anode material for lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2018, 735, 445-453.	5.5	15
16	Impact of ethylene carbonate on electrical properties of PVA/(NH ₄) ₂ SO ₄ /H ₂ SO ₄ proton-conductive membrane. <i>Ionics</i> , 2011, 17, 255-261.	2.4	14
17	Structural, thermal and electrical properties of plasticised PVA based polymer electrolyte. <i>Materials Science and Technology</i> , 2015, 31, 1113-1121.	1.6	14
18	Study the structure and electrochemical performance of BaTiO ₃ /S electrode for magnesium-ion batteries. <i>Materials Letters</i> , 2021, 284, 129033.	2.6	12

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19	Synthesis and characterization of poly(vinyl alcohol)-acid salt polymer electrolytes. <i>Materials Express</i> , 2014, 4, 483-490.	0.5	11
20	Evaluation of the effect of V ₂ O ₅ on the electrical and thermoelectric properties of poly(vinyl alcohol)/graphene nanoplatelets nanocomposite. <i>Materials Research Express</i> , 2016, 3, 035015.	1.6	11
21	Magnesium hexakis(methanol)-dinitrate complex electrolyte for use in rechargeable magnesium batteries. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2671-2679.	2.5	11
22	Graphene and magnesiated graphene as electrodes for magnesium ion batteries. <i>Materials Letters</i> , 2018, 232, 103-106.	2.6	11
23	Water scavenger as effective electrolyte additive and hybrid binder-free organic/inorganic cathode for Mg battery applications. <i>Electrochimica Acta</i> , 2021, 372, 137883.	5.2	11
24	Exploring the electrochemical properties of Na ₂ S-V ₂ O ₅ -P ₂ O ₅ glass-ceramic nanocomposites as a cathode for magnesium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162644.	5.5	11
25	Preparation and characterization of Mg ²⁺ /Li ⁺ -ion conducting composite based on poly(vinyl alcohol) with various concentrations of Li ₂ O. <i>Materials Express</i> , 2014, 4, 293-300.	0.5	10
26	CHARACTERIZATION OF KHCO ₃ SINGLE CRYSTALS. <i>Surface Review and Letters</i> , 2004, 11, 83-86.	1.1	9
27	Impact of sodium oxide, sulfide, and fluoride-doped vanadium phosphate glasses on the thermoelectric power and electrical properties: structure analysis and conduction mechanism. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3699-3712.	2.2	9
28	Study of ionic conduction, dielectric relaxation, optical and electrochemical properties of AgPO ₃ /graphene glasses for magnesium battery applications. <i>Journal of Non-Crystalline Solids</i> , 2022, 584, 121480.	3.1	9
29	Ion transport properties of magnesium bromide/dimethyl sulfoxide non-aqueous liquid electrolyte. <i>Journal of Advanced Research</i> , 2016, 7, 29-36.	9.5	8
30	Preparation and physical properties of (PVA) _{0.75} (NH ₄ Br) _{0.25} (H ₂ SO ₄) _x M solid acid membrane. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2282-2285.	3.1	6
31	An Attempt to Utilize Hard Magnetic BaFe ₁₂ O ₁₉ Phase as a Cathode for Magnesium Batteries. <i>Journal of Electronic Materials</i> , 2019, 48, 1612-1616.	2.2	6
32	Investigations on the electrical and structural properties of PVA doped with (NH ₄) ₂ SO ₄ . <i>Journal of Applied Polymer Science</i> , 2010, 116, 1213-1217.	2.6	5
33	Investigations of (PVA) _{0.7} (NaBr) _{0.3} (H ₂ SO ₄) _x M solid acid polymer electrolyte using positron annihilation lifetime spectroscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2038-2044.	2.1	4
34	Green synthesis of Co ₃ O ₄ /graphene nanocomposite as cathode for magnesium batteries. <i>Materials Science-Poland</i> , 2017, 35, 528-533.	1.0	4
35	Structural characteristic of vanadium(V) oxide/sulfur composite cathode for magnesium battery applications. <i>Materials Science-Poland</i> , 2019, 37, 570-576.	1.0	4
36	Impact of hydroquinone on thermal and electrical properties of plasticized [poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock ₁₀ Tf 50 62 Td (alco	3.1	3

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37	Evaluate the Effect of Super P Carbon Black on Tuning the Optical and Photometric Properties of PVA-ZnO Composite. Journal of Nanoelectronics and Optoelectronics, 2018, 13, 349-356.	0.5	3
38	Polymer electrolytes based on magnesium triflate for quasi-solid-state magnesium-sulfur batteries. Physica Scripta, 2022, 97, 065816.	2.5	3
39	Probing the effect of the stoichiometric ratio of $Mg(CF_3SO_3)_2/AlCl_3$ on optimizing the electrolyte performance. Materials Research Innovations, 2023, 27, 75-82.	2.3	3
40	Synthesis and characterization of polyvinylidene fluoride/magnesium bromide polymer electrolyte for magnesium battery application. Physica Scripta, 2020, 95, 115805.	2.5	2
41	Effect of Magnesium Bromide on the Electrical and Electrochemical Properties of PVA and Tetraethylene Glycol Dimethyl Ether Polymer Electrolyte for Solid State Magnesium Batteries. Energy and Environment Focus, 2016, 5, 125-130.	0.3	2
42	DIMER ORDER-ORDER DISORDER TRANSITION DEPENDENCE ON THE OPTICAL ABSORPTION PARAMETERS OF THE $KHCO_3$ COMPOUND. Surface Review and Letters, 2004, 11, 199-203.	1.1	1
43	Electrical and electrochemical properties of titanium dioxide /graphene nano platelets cathode for magnesium battery applications. Cincia & Tecnologia Dos Materiais, 2016, 28, 117-123.	0.5	1
44	Probing a new halogen-free electrolyte and $Ba_{0.85}Sm_{0.1}TiO_3$ cathode for Mg battery applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 28781-28791.	2.2	1
45	Structure, Thermal and Electrical Properties of Germanium Oxide/Graphene Nano-Composite Cathode for Magnesium Battery. Energy and Environment Focus, 2016, 5, 29-34.	0.3	1
46	Evaluation the Effect of Graphene Nanoplatelets on the Structure, Electrical and Thermoelectric Properties of Polyvinyl Alcohol. Journal of Advanced Physics, 2017, 6, 177-186.	0.4	1
47	Electrical conductivity and dielectric properties of cesium sulfate based materials. Materials Chemistry and Physics, 2007, 103, 65-69.	4.0	0
48	An investigation of the electrical conductivity and ultrasonic properties of the $KHCO_3$ compound. Physica Scripta, 2009, 80, 035402.	2.5	0
49	Water scavengers controlled electrolyte performance and sulfur cathode for magnesium-ion batteries. Ionics, 2021, 27, 4295-4305.	2.4	0
50	Characterization of Ionic Polymer Blend Electrolytes Based on Polyvinyl Alcohol Doped with Selenious Acid-Sodium Bromide. Journal of Advanced Physics, 2016, 5, 309-315.	0.4	0