

Rebar T Abdulwahid

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,291
citations

147801

31
h-index

233421

45
g-index

59
all docs

59
docs citations

59
times ranked

882
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of non-faradaic EDLC from plasticized MC based polymer electrolyte with an energy density close to lead-acid batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 414-426.	5.8	30
2	The Study of Ion Transport Parameters in MC-Based Electrolyte Membranes Using EIS and Their Applications for EDLC Devices. <i>Membranes</i> , 2022, 12, 139.	3.0	15
3	The study of impedance, ion transport properties, EEC modeling, dielectric and electrochemical characteristics of plasticized proton conducting PVA based electrolytes. <i>Journal of Materials Research and Technology</i> , 2022, 17, 1976-1985.	5.8	14
4	Structural and energy storage behavior of ion conducting biopolymer blend electrolytes based on methylcellulose: Dextran polymers. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 9273-9285.	6.4	21
5	Insights into ion transport in biodegradable solid polymer blend electrolyte based on FTIR analysis and circuit design. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 167, 110774.	4.0	24
6	Electrochemical characteristics of solid state double-layer capacitor constructed from proton conducting chitosan-based polymer blend electrolytes. <i>Polymer Bulletin</i> , 2021, 78, 3149-3167.	3.3	38
7	Synthesis of PVA/CeO ₂ Based Nanocomposites with Tuned Refractive Index and Reduced Absorption Edge: Structural and Optical Studies. <i>Materials</i> , 2021, 14, 1570.	2.9	38
8	Plasticized Sodium-Ion Conducting PVA Based Polymer Electrolyte for Electrochemical Energy Storage—EEC Modeling, Transport Properties, and Charge-Discharge Characteristics. <i>Polymers</i> , 2021, 13, 803.	4.5	18
9	Improving EDLC Device Performance Constructed from Plasticized Magnesium Ion Conducting Chitosan Based Polymer Electrolytes via Metal Complex Dispersion. <i>Membranes</i> , 2021, 11, 289.	3.0	24
10	Electrochemical performance of polymer blend electrolytes based on chitosan: dextran: impedance, dielectric properties, and energy storage study. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 14846-14862.	2.2	17
11	Green coordination chemistry as a novel approach to fabricate polymer: Cd(II)-complex composites: Structural and optical properties. <i>Optical Materials</i> , 2021, 116, 111062.	3.6	12
12	Synthesis of Hg metal complex and its application to reduce the optical band gap of polymer. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103215.	4.9	12
13	Design of potassium ion conducting PVA based polymer electrolyte with improved ion transport properties for EDLC device application. <i>Journal of Materials Research and Technology</i> , 2021, 13, 933-946.	5.8	35
14	Impact of ethynylene linkers on the optical and electrochemical properties of benzothiadiazole based alternate conjugated polymers. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103320.	4.9	6
15	Impedance, circuit simulation, transport properties and energy storage behavior of plasticized lithium ion conducting chitosan based polymer electrolytes. <i>Polymer Testing</i> , 2021, 101, 107286.	4.8	18
16	Impedance, FTIR and transport properties of plasticized proton conducting biopolymer electrolyte based on chitosan for electrochemical device application. <i>Results in Physics</i> , 2021, 29, 104770.	4.1	36
17	Fabrication of Alternating Copolymers Based on Cyclopentadithiophene-Benzothiadiazole Dicarboxylic Imide with Reduced Optical Band Gap: Synthesis, Optical, Electrochemical, Thermal, and Structural Properties. <i>Polymers</i> , 2021, 13, 63.	4.5	9
18	Fabrication of high performance energy storage EDLC device from proton conducting methylcellulose: dextran polymer blend electrolytes. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1137-1150.	5.8	68

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19	Steps Toward the Band Gap Identification in Polystyrene Based Solid Polymer Nanocomposites Integrated with Tin Titanate Nanoparticles. <i>Polymers</i> , 2020, 12, 2320.	4.5	44
20	Blending and Characteristics of Electrochemical Double-Layer Capacitor Device Assembled from Plasticized Proton Ion Conducting Chitosan:Dextran:NH ₄ PF ₆ Polymer Electrolytes. <i>Polymers</i> , 2020, 12, 2103.	4.5	26
21	Metal framework as a novel approach for the fabrication of electric double layer capacitor device with high energy density using plasticized Poly(vinyl alcohol): Ammonium thiocyanate based polymer electrolyte. <i>Arabian Journal of Chemistry</i> , 2020, 13, 7247-7263.	4.9	35
22	The Study of Electrical and Electrochemical Properties of Magnesium Ion Conducting CS: PVA Based Polymer Blend Electrolytes: Role of Lattice Energy of Magnesium Salts on EDLC Performance. <i>Molecules</i> , 2020, 25, 4503.	3.8	37
23	Electrical, Dielectric Property and Electrochemical Performances of Plasticized Silver Ion-Conducting Chitosan-Based Polymer Nanocomposites. <i>Membranes</i> , 2020, 10, 151.	3.0	57
24	Metal Complex as a Novel Approach to Enhance the Amorphous Phase and Improve the EDLC Performance of Plasticized Proton Conducting Chitosan-Based Polymer Electrolyte. <i>Membranes</i> , 2020, 10, 132.	3.0	46
25	From Cellulose, Shrimp and Crab Shells to Energy Storage EDLC Cells: The Study of Structural and Electrochemical Properties of Proton Conducting Chitosan-Based Biopolymer Blend Electrolytes. <i>Polymers</i> , 2020, 12, 1526.	4.5	41
26	Optical Dielectric Loss as a Novel Approach to Specify the Types of Electron Transition: XRD and UV-vis as a Non-Destructive Techniques for Structural and Optical Characterization of PEO Based Nanocomposites. <i>Materials</i> , 2020, 13, 2979.	2.9	19
27	Optical, Electrochemical, Thermal, and Structural Properties of Synthesized Fluorene/Dibenzosilole-Benzothiadiazole Dicarboxylic Imide Alternating Organic Copolymers for Photovoltaic Applications. <i>Coatings</i> , 2020, 10, 1147.	2.6	6
28	Synthesis, Optical, Thermal and Structural Characteristics of Novel Thermocleavable Polymers Based on Phthalate Esters. <i>Polymers</i> , 2020, 12, 2791.	4.5	5
29	Characteristics of Glycerolized Chitosan: NH ₄ NO ₃ -Based Polymer Electrolyte for Energy Storage Devices with Extremely High Specific Capacitance and Energy Density Over 1000 Cycles. <i>Polymers</i> , 2020, 12, 2718.	4.5	12
30	Investigation of Ion Transport Parameters and Electrochemical Performance of Plasticized Biocompatible Chitosan-Based Proton Conducting Polymer Composite Electrolytes. <i>Membranes</i> , 2020, 10, 363.	3.0	34
31	Solid-State EDLC Device Based on Magnesium Ion-Conducting Biopolymer Composite Membrane Electrolytes: Impedance, Circuit Modeling, Dielectric Properties and Electrochemical Characteristics. <i>Membranes</i> , 2020, 10, 389.	3.0	15
32	Energy Storage Behavior of Lithium-Ion Conducting poly(vinyl alcohol) (PVA): Chitosan(CS)-Based Polymer Blend Electrolyte Membranes: Preparation, Equivalent Circuit Modeling, Ion Transport Parameters, and Dielectric Properties. <i>Membranes</i> , 2020, 10, 381.	3.0	15
33	Synthesis of Porous Proton Ion Conducting Solid Polymer Blend Electrolytes Based on PVA: CS Polymers: Structural, Morphological and Electrochemical Properties. <i>Materials</i> , 2020, 13, 4890.	2.9	42
34	Characteristics of EDLC device fabricated from plasticized chitosan:MgCl ₂ based polymer electrolyte. <i>Journal of Materials Research and Technology</i> , 2020, 9, 10635-10646.	5.8	64
35	Tea from the drinking to the synthesis of metal complexes and fabrication of PVA based polymer composites with controlled optical band gap. <i>Scientific Reports</i> , 2020, 10, 18108.	3.3	38
36	The Study of EDLC Device with High Electrochemical Performance Fabricated from Proton Ion Conducting PVA-Based Polymer Composite Electrolytes Plasticized with Glycerol. <i>Polymers</i> , 2020, 12, 1896.	4.5	33

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37	A Comprehensive Review on Optical Properties of Polymer Electrolytes and Composites. <i>Materials</i> , 2020, 13, 3675.	2.9	85
38	Drawbacks of Low Lattice Energy Ammonium Salts for Ion-Conducting Polymer Electrolyte Preparation: Structural, Morphological and Electrical Characteristics of CS:PEO:NH ₄ BF ₄ -Based Polymer Blend Electrolytes. <i>Polymers</i> , 2020, 12, 1885.	4.5	22
39	The Study of Plasticized Amorphous Biopolymer Blend Electrolytes Based on Polyvinyl Alcohol (PVA): Chitosan with High Ion Conductivity for Energy Storage Electrical Double-Layer Capacitors (EDLC) Device Application. <i>Polymers</i> , 2020, 12, 1938.	4.5	55
40	Influence of Fluorine Substitution on the Optical, Thermal, Electrochemical and Structural Properties of Carbazole-Benzothiadiazole Dicarboxylic Imide Alternate Copolymers. <i>Polymers</i> , 2020, 12, 2910.	4.5	8
41	The Study of Structural, Impedance and Energy Storage Behavior of Plasticized PVA:MC Based Proton Conducting Polymer Blend Electrolytes. <i>Materials</i> , 2020, 13, 5030.	2.9	10
42	Study of impedance and solid-state double-layer capacitor behavior of proton (H ⁺)-conducting polymer blend electrolyte-based CS:PS polymers. <i>Ionics</i> , 2020, 26, 4635-4649.	2.4	35
43	Structural, Impedance and Electrochemical Characteristics of Electrical Double Layer Capacitor Devices Based on Chitosan: Dextran Biopolymer Blend Electrolytes. <i>Polymers</i> , 2020, 12, 1411.	4.5	33
44	Effect of glycerol on EDLC characteristics of chitosan:methylcellulose polymer blend electrolytes. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8355-8366.	5.8	75
45	Glycerolized Li ⁺ Ion Conducting Chitosan-Based Polymer Electrolyte for Energy Storage EDLC Device Applications with Relatively High Energy Density. <i>Polymers</i> , 2020, 12, 1433.	4.5	51
46	Role of nano-capacitor on dielectric constant enhancement in PEO:NH ₄ SCN:xCeO ₂ polymer nano-composites: Electrical and electrochemical properties. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9283-9294.	5.8	67
47	Protonic EDLC cell based on chitosan (CS): methylcellulose (MC) solid polymer blend electrolytes. <i>Ionics</i> , 2020, 26, 1829-1840.	2.4	62
48	Effect of ohmic-drop on electrochemical performance of EDLC fabricated from PVA:dextran:NH ₄ I based polymer blend electrolytes. <i>Journal of Materials Research and Technology</i> , 2020, 9, 3734-3745.	5.8	76
49	Fabrication of Interconnected Plasmonic Spherical Silver Nanoparticles with Enhanced Localized Surface Plasmon Resonance (LSPR) Peaks Using Quince Leaf Extract Solution. <i>Nanomaterials</i> , 2019, 9, 1557.	4.1	81
50	Ion Transport Study in CS: POZ Based Polymer Membrane Electrolytes Using Trukhan Model. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5265.	4.1	48
51	Fabrication of energy storage EDLC device based on CS:PEO polymer blend electrolytes with high Li ⁺ ion transference number. <i>Results in Physics</i> , 2019, 15, 102584.	4.1	78
52	Structural, Impedance, and EDLC Characteristics of Proton Conducting Chitosan-Based Polymer Blend Electrolytes with High Electrochemical Stability. <i>Molecules</i> , 2019, 24, 3508.	3.8	51
53	Increase of metallic silver nanoparticles in Chitosan:AgNt based polymer electrolytes incorporated with alumina filler. <i>Results in Physics</i> , 2019, 13, 102326.	4.1	60
54	Structural and optical properties of thermally annealed TiO ₂ •SiO ₂ binary thin films synthesized by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16010-16020.	2.2	18

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55	Optical properties of pure and doped PVA:PEO based solid polymer blend electrolytes: two methods for band gap study. Journal of Materials Science: Materials in Electronics, 2017, 28, 7473-7479.	2.2	115
56	Polymer Blending as a Novel Approach for Tuning the SPR Peaks of Silver Nanoparticles. Polymers, 2017, 9, 486.	4.5	98
57	The study of structural and optical properties of PVA:PbO ₂ based solid polymer nanocomposites. Journal of Materials Science: Materials in Electronics, 2016, 27, 12112-12118.	2.2	71
58	In situ synthesis of CuS nanoparticle with a distinguishable SPR peak in NIR region. Journal of Materials Science: Materials in Electronics, 2016, 27, 4163-4171.	2.2	85