

Abdullah Aljaafari

List of Publications by Year in descending order

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78
papers

1,230
citations

394421

19
h-index

434195

31
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all docs

79
docs citations

79
times ranked

1436
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Metal and Non-metal Doping on the Photocatalytic Performance of Titanium dioxide (TiO ₂): A Review. <i>Current Nanoscience</i> , 2022, 18, 499-519.	1.2	8
2	Synergistic Effect of Hexagonal Boron Nitride-Coated Separators and Multi-Walled Carbon Nanotube Anodes for Thermally Stable Lithium-Ion Batteries. <i>Crystals</i> , 2022, 12, 125.	2.2	7
3	Structural Transition-Induced Raman Enhancement in Bioinspired Diphenylalanine Peptide Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12504-12514.	8.0	9
4	Low-Temperature Ethanol Sensor via Defective Multiwalled Carbon Nanotubes. <i>Materials</i> , 2022, 15, 4439.	2.9	5
5	Tailoring the surface morphology of nanostructured cobalt oxide for high-sensitivity CO sensor. <i>Journal of Materials Science</i> , 2022, 57, 12865-12874.	3.7	9
6	New preparation approach, electrical and mechanical properties of poly(vinyl alcohol)-loaded graphene films. <i>Journal of Thermoplastic Composite Materials</i> , 2021, 34, 1504-1522.	4.2	3
7	Effect of Sm ³⁺ Substitutions on the Lithium Ionic Conduction and Relaxation Dynamics of Li ₅ +2xLa ₃ Nb ₂ â ^ˆ xSmxO ₁₂ Ceramics. <i>Crystals</i> , 2021, 11, 95.	2.2	0
8	One-Pot Synthesis of 7, 7-Dimethyl-4-Phenyl-2-Thioxo-2,3,4,6,7, 8-Hexahydro-1H-Quinazoline-5-Ones Using Zinc Ferrite Nanocatalyst and Its Bio Evaluation. <i>Catalysts</i> , 2021, 11, 431.	3.5	5
9	Enhancement of the Supercapacitive Performance of Cobalt-tin-cyanate Layered Structures through Conversion from 2D Materials to 1D Nanofibers. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4289.	2.5	3
10	Growth of Defect-Induced Carbon Nanotubes for Low-Temperature Fruit Monitoring Sensor. <i>Chemosensors</i> , 2021, 9, 131.	3.6	13
11	Removal of Heavy Metal Ions from Wastewater Using Hydroxyethyl Methacrylate-Modified Cellulose Nanofibers: Kinetic, Equilibrium, and Thermodynamic Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6581.	2.6	9
12	Hierarchical Porous Carbon Cobalt Nanocomposites-Based Sensor for Fructose. <i>Chemosensors</i> , 2021, 9, 6.	3.6	5
13	Rheological, Dynamic and Tensile Mechanical Properties of Recycled Styrofoam Loaded with Carbon Nanotubes. <i>Science of Advanced Materials</i> , 2021, 13, 1019-1027.	0.7	0
14	A novel route for controlling and improving the texture of porous structures through dual growth of alumina nanoparticles and carbon nanotubes using explosion process of solid fuel. <i>Journal of Materials Research and Technology</i> , 2020, 9, 67-75.	5.8	9
15	Optical and photoluminescence performance of electrodeposited arsenic selenide thin film doped with erbium ion. <i>Optical Materials</i> , 2020, 99, 109556.	3.6	3
16	Negative magnetoresistance in iron doped TiN thin films prepared by reactive magnetron sputtering. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 514, 167235.	2.3	7
17	Monitoring Food Spoilage Based on a Defect-Induced Multiwall Carbon Nanotube Sensor at Room Temperature: Preventing Food Waste. <i>ACS Omega</i> , 2020, 5, 30531-30537.	3.5	16
18	Flower-Like ZnO Nanorods Synthesized by Microwave-Assisted One-Pot Method for Detecting Reducing Gases: Structural Properties and Sensing Reversibility. <i>Frontiers in Chemistry</i> , 2020, 8, 456.	3.6	21

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19	Influence of Fine Crystal Percentage on the Electrical Properties of ZnO Ceramic-Based Varistors. Crystals, 2020, 10, 681.	2.2	12
20	Bio-Inspired Facile Synthesis of Graphene-Based Nanocomposites: Elucidation of Antimicrobial and Biofilm Inhibitory Potential against Foodborne Pathogenic Bacteria. Coatings, 2020, 10, 1171.	2.6	3
21	Binder-Free Electrode Based on ZnO Nanorods Directly Grown on Aluminum Substrate for High Performance Supercapacitors. Nanomaterials, 2020, 10, 1979.	4.1	24
22	Effective use of micro-silica extracted from rice husk ash for the production of high-performance and sustainable cement mortar. Construction and Building Materials, 2020, 258, 119589.	7.2	38
23	Synthesis of mesoporous SnO ₂ /NiO nanocomposite using modified sol-gel method and its electrochemical performance as electrode material for supercapacitors. Scientific Reports, 2020, 10, 11032.	3.3	50
24	Improved dielectric properties of Na _{1/2} Y _{1/2} Cu ₃ Ti ₄ O ₁₂ ceramics synthesized by ball-milling and reactive sintering. Materials Research Express, 2020, 7, 026550.	1.6	7
25	Size Dependent Photocatalytic Activity of ZnO Nanosheets for Degradation of Methyl Red. Frontiers in Materials, 2020, 7, .	2.4	9
26	Fabrication of TiO ₂ -Nanotube-Array-Based Supercapacitors. Micromachines, 2019, 10, 742.	2.9	9
27	Structural and dielectric behavior of Al-substituted CaCu ₃ Ti ₄ O ₁₂ ceramics with giant dielectric constant by spark plasma sintering. Journal of Materials Science: Materials in Electronics, 2019, 30, 18259-18267.	2.2	12
28	Optimization Conditions for Crystal Growth of Novel Nanolayers, Nanohybrids and Nanocomposites Based on Cobalt, Zirconium, Titanium and Silicon. ChemistrySelect, 2019, 4, 580-588.	1.5	4
29	Preparation and Characterization of Developed CuxSn1-xO ₂ Nanocomposite and Its Promising Methane Gas Sensing Properties. Sensors, 2019, 19, 2257.	3.8	23
30	Self-assembled Cube-like Copper Oxide Derived from a Metal-Organic Framework as a High-Performance Electrochemical Supercapacitive Electrode Material. Scientific Reports, 2019, 9, 9140.	3.3	34
31	Novel Strategy for Producing Nanoplatelets to be Used as Building Blocks for Shaping Nanofibers through Layered Double Hydroxides and Poly Vinyl Alcohol. ChemistrySelect, 2019, 4, 4293-4300.	1.5	7
32	Augmentation of ferromagnetism in CuO-Al ₂ O ₃ nanocomposite synthesized via solution combustion method. Materials Express, 2019, 9, 653-659.	0.5	1
33	Electromagnetic interference shielding and mechanical properties of multi-layered polyvinyl chloride/multiwall carbon nanotubes nanocomposite. Materials Express, 2019, 9, 872-881.	0.5	0
34	Dielectric behavior of spark plasma sintered BaTi _{0.7} Zr _{0.3} O ₃ relaxor ferroelectrics. Results in Physics, 2019, 15, 102799.	4.1	7
35	Photocatalytic inactivation of <i>Escherichia coli</i> under UV light irradiation using large surface area anatase TiO ₂ quantum dots. Royal Society Open Science, 2019, 6, 191444.	2.4	16
36	A low-temperature technique and new strategy for the dual growth of carbon nanotubes and nanorods through the confinement of explosive materials inside a porous structure. RSC Advances, 2019, 9, 30509-30518.	3.6	4

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37	Fast Degradation of Green Pollutants Through Nanonets and Nanofibers of the Al-Doped Zinc Oxide. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 533-546.	2.9	8
38	Light-soaking free organic photovoltaic devices with sol-gel deposited ZnO and AZO electron transport layers. <i>RSC Advances</i> , 2018, 8, 36542-36548.	3.6	29
39	A polyaniline@MoS ₂ -based organic-inorganic nanohybrid for the removal of Congo red: adsorption kinetic, thermodynamic and isotherm studies. <i>New Journal of Chemistry</i> , 2018, 42, 18802-18809.	2.8	42
40	Designing Magnetic Layered Double Hydroxides and Two-Dimensional Magnetic Nano-Nets of Cobalt Ferrite through a Novel Approach. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2099.	2.5	13
41	Accelerating the Photocatalytic Degradation of Green Dye Pollutants by Using a New Coating Technique for Carbon Nanotubes with Nanolayered Structures and Nanocomposites. <i>ChemistryOpen</i> , 2018, 7, 833-841.	1.9	12
42	New route for development of electromagnetic shielding based on cellulosic nanofibers. <i>Journal of Industrial Textiles</i> , 2017, 46, 1598-1615.	2.4	16
43	Functional electrospun cellulosic nanofiber mats for antibacterial bandages. <i>Fibers and Polymers</i> , 2017, 18, 2379-2386.	2.1	13
44	Synthesis and Characterization of Inorganic Pigment Nanoparticles for Textile Coloration Using Microwave Techniques. <i>AATCC Journal of Research</i> , 2016, 3, 1-8.	0.6	0
45	Concentration and mobility of mobile Li ⁺ ions in Li ₆ BaLa ₂ Ta ₂ O ₁₂ and Li ₅ La ₃ Ta ₂ O ₁₂ garnet lithium ion conductors. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8136-8142.	2.2	7
46	Preparation and Characterization of Some Nanometal Oxides Using Microwave Technique and Their Application to Cotton Fabrics. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9.	2.7	26
47	Double-layered Ni-P/Ni-P-ZrO ₂ electroless coatings on AZ31 magnesium alloy with improved corrosion resistance. <i>Surface and Coatings Technology</i> , 2015, 261, 161-166.	4.8	64
48	Novel Dispersion of MWCNTs in Polystyrene Polymer Induced by the Addition of 3-Hydroxy-2-Naphthoic Acid. <i>Journal of Dispersion Science and Technology</i> , 2015, 36, 747-754.	2.4	2
49	Electrical and mechanical properties of ̂ ² -hydroxynaphthoic acid-multiwalled carbon nanotubes-polystyrene nanocomposites. <i>Journal of Thermoplastic Composite Materials</i> , 2015, 28, 863-878.	4.2	11
50	Mechanochemical synthesis and giant dielectric properties of CaCu ₃ Ti ₄ O ₁₂ . <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 1299-1306.	2.3	15
51	Seismic waveforms and velocity model heterogeneity: Towards a full-waveform microseismic location algorithm. <i>Journal of Applied Geophysics</i> , 2014, 111, 228-233.	2.1	12
52	Synthesis and characterization of novel drug delivery system based on cellulose acetate electrospun nanofiber mats. <i>Journal of Industrial Textiles</i> , 2014, 43, 319-329.	2.4	40
53	Mechanical property of solid ZrO ₂ powder enhanced Au-Ni coating. <i>Materials Research Innovations</i> , 2014, 18, S4-1132-S4-1136.	2.3	3
54	Electrical, optical, and rheological properties of ozone-treated multiwalled carbon nanotubes-polystyrene nanocomposites. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 359-370.	3.1	19

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55	Dielectric relaxation and rheological properties of single-walled carbon nanotubes reinforced poly(3-octylthiophene-2,5-diyl). <i>Journal of Thermoplastic Composite Materials</i> , 2013, 26, 605-626.	4.2	8
56	Nanostructured Electrodes and Photoactive Layers for Efficient, Stable and Flexible Organic Photovoltaic Devices. <i>ECS Transactions</i> , 2013, 53, 11-22.	0.5	0
57	Pressure-Induced Phase Transitions of Single-Walled Carbon Nanotubes: Simulations of X-Ray Diffraction. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 2631-2635.	0.4	1
58	Mechanical and electrical properties of poly(vinyl chloride) loaded with carbon nanotubes and carbon nanopowder. <i>Journal of Thermoplastic Composite Materials</i> , 2012, 25, 679-699.	4.2	24
59	Improvement of Photocatalytic Degradation of Naphthol Green B Under Solar Light Using Aluminum Doping of Zinc Oxide Nanoparticles. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 4615-4626.	2.4	30
60	Transport Properties Through Double Barrier Structure in Graphene. <i>Journal of Low Temperature Physics</i> , 2012, 168, 40-56.	1.4	6
61	Physical characterizations of semi-conducting conjugated polymer-CNTs nanocomposites. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	24
62	Catalytic activity and surface characteristics of layered Zn-Al-Si materials supported platinum. <i>Applied Clay Science</i> , 2011, 53, 317-325.	5.2	10
63	Thermophysical and electrical characterization of PVC-SWNT nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 394-399.	7.6	24
64	Improvement of physical characteristics of petroleum waxes by using nano-structured materials. <i>Fuel Processing Technology</i> , 2011, 92, 946-951.	7.2	13
65	Physical characterizations of three phase polycarbonate nanocomposites. <i>Journal of Plastic Film and Sheeting</i> , 2011, 27, 275-291.	2.2	13
66	Effect of ZnO Nano-Particles on The Dielectric Relaxation Behavior and Thermal Stability of Polycarbonate Host. <i>Journal of Thermoplastic Composite Materials</i> , 2011, 24, 837-852.	4.2	13
67	Effect of hydrostatic pressure on the electrical properties of blend vulcanizates loaded with paraffin wax. <i>Materials & Design</i> , 2010, 31, 3207-3214.	5.1	1
68	Crosslink density and diffusion mechanisms in blend vulcanizates loaded with carbon black and paraffin wax. <i>Journal of Applied Polymer Science</i> , 2009, 112, 3232-3240.	2.6	5
69	Nano-hybrid materials and nano-composite materials based on PVA. <i>International Journal of Nano and Biomaterials</i> , 2009, 2, 184.	0.1	2
70	Impact of Bi ₂ O ₃ addition on the normal state properties of Bi _{3.4} Pb _{0.3} Sr ₂ Ca _{1.3} x RExCu ₂ O _y ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2919-2923.	4.0	7
71	A Rapid Method for Growth of Metal Nanoparticles on Nanowire Substrates. <i>Journal of Nanoparticle Research</i> , 2006, 8, 99-104.	1.9	9
72	The effects of crystallinity and catalyst dynamics on boron carbide nanospring formation (Invited) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		

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73	Controlled Growth of Gold Nanoparticles on Silica Nanowires. Journal of Materials Research, 2005, 20, 3021-3027.	2.6	41
74	Metal coatings on SiC nanowires by plasma-enhanced chemical vapor deposition. Journal of Materials Research, 2005, 20, 549-553.	2.6	16
75	Potassium chloride nanowire formation inside a microchannel glass array. Applied Physics Letters, 2005, 86, 263110.	3.3	2
76	Polymer Nanowire Elastic Moduli Measured with Digital Pulsed Force Mode AFM. Langmuir, 2005, 21, 10214-10218.	3.5	30
77	Nanospring formation—unexpected catalyst mediated growth. Journal of Physics Condensed Matter, 2004, 16, R415-R440.	1.8	73
78	Silicon Carbide Nanosprings. Nano Letters, 2003, 3, 983-987.	9.1	153