# 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 g-index |
| 79 all docs | 79 docs citations | 79 times ranked | 1436 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Silicon Carbide Nanosprings. Nano Letters, 2003, 3, 983-987. | 9.1 | 153 |
| 2 | Nanospring formationâ€"unexpected catalyst mediated growth. Journal of Physics Condensed Matter, 2004, 16, R415-R440. | 1.8 | 73 |
| 3 | Double-layered Ni-P/Ni-P-ZrO 2 electroless coatings on AZ31 magnesium alloy with improved corrosion resistance. Surface and Coatings Technology, 2015, 261, 161-166. | 4.8 | 64 |
| 4 | Synthesis of mesoporous SnO2/NiO nanocomposite using modified solâ€"gel method and its electrochemical performance as electrode material for supercapacitors. Scientific Reports, 2020, 10, 11032. | 3.3 | 50 |
| 5 | A polyaniline@MoS<sub>2</sub>-based organicâ€"inorganic nanohybrid for the removal of Congo red: adsorption kinetic, thermodynamic and isotherm studies. New Journal of Chemistry, 2018, 42, 18802-18809. | 2.8 | 42 |
| 6 | Controlled Growth of Gold Nanoparticles on Silica Nanowires. Journal of Materials Research, 2005, 20, 3021-3027. | 2.6 | 41 |
| 7 | Synthesis and characterization of novel drug delivery system based on cellulose acetate electrospun nanofiber mats. Journal of Industrial Textiles, 2014, 43, 319-329. | 2.4 | 40 |
| 8 | 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 |
| 9 | 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 |
| 10 | Polymer Nanowire Elastic Moduli Measured with Digital Pulsed Force Mode AFM. Langmuir, 2005, 21, 10214-10218. | 3.5 | 30 |
| 11 | Improvement of Photocatalytic Degradation of Naphthol Green B Under Solar Light Using Aluminum Doping of Zinc Oxide Nanoparticles. Water, Air, and Soil Pollution, 2012, 223, 4615-4626. | 2.4 | 30 |
| 12 | Light-soaking free organic photovoltaic devices with solâ€"gel deposited ZnO and AZO electron transport layers. RSC Advances, 2018, 8, 36542-36548. | 3.6 | 29 |
| 13 | Preparation and Characterization of Some Nanometal Oxides Using Microwave Technique and Their Application to Cotton Fabrics. Journal of Nanomaterials, 2015, 2015, 1-9. | 2.7 | 26 |
| 14 | Thermophysical and electrical characterization of PVCâ€"SWNT nanocomposites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 394-399. | 7.6 | 24 |
| 15 | Mechanical and electrical properties of poly(vinyl chloride) loaded with carbon nanotubes and carbon nanopowder. Journal of Thermoplastic Composite Materials, 2012, 25, 679-699. | 4.2 | 24 |
| 16 | Physical characterizations of semi-conducting conjugated polymer-CNTs nanocomposites. Journal of Polymer Research, 2012, 19, 1. | 2.4 | 24 |
| 17 | Binder-Free Electrode Based on ZnO Nanorods Directly Grown on Aluminum Substrate for High Performance Supercapacitors. Nanomaterials, 2020, 10, 1979. | 4.1 | 24 |
| 18 | Preparation and Characterization of Developed CuxSn1â^'xO2 Nanocomposite and Its Promising Methane Gas Sensing Properties. Sensors, 2019, 19, 2257. | 3.8 | 23 |

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|---|---|---|---|
| 19 | Flower-Like ZnO Nanorods Synthesized by Microwave-Assisted One-Pot Method for Detecting Reducing Gases: Structural Properties and Sensing Reversibility. Frontiers in Chemistry, 2020, 8, 456. | 3.6 | 21 |
| 20 | Electrical, optical, and rheological properties of ozone-treated multiwalled carbon nanotubesâ€“polystyrene nanocomposites. Journal of Reinforced Plastics and Composites, 2013, 32, 359-370. | 3.1 | 19 |
| 21 | Metal coatings on SiC nanowires by plasma-enhanced chemical vapor deposition. Journal of Materials Research, 2005, 20, 549-553. | 2.6 | 16 |
| 22 | New route for development of electromagnetic shielding based on cellulosic nanofibers. Journal of Industrial Textiles, 2017, 46, 1598-1615. | 2.4 | 16 |
| 23 | Photocatalytic inactivation ofEscherichia coliunder UV light irradiation using large surface area anatase TiO<sub>2</sub>quantum dots. Royal Society Open Science, 2019, 6, 191444. | 2.4 | 16 |
| 24 | Monitoring Food Spoilage Based on a Defect-Induced Multiwall Carbon Nanotube Sensor at Room Temperature: Preventing Food Waste. ACS Omega, 2020, 5, 30531-30537. | 3.5 | 16 |
| 25 | Mechanochemical synthesis and giant dielectric properties of CaCu3Ti4O12. Applied Physics A: Materials Science and Processing, 2014, 116, 1299-1306. | 2.3 | 15 |
| 26 | Improvement of physical characteristics of petroleum waxes by using nano-structured materials. Fuel Processing Technology, 2011, 92, 946-951. | 7.2 | 13 |
| 27 | Physical characterizations of three phase polycarbonate nanocomposites. Journal of Plastic Film and Sheeting, 2011, 27, 275-291. | 2.2 | 13 |
| 28 | Effect of ZnO Nano-Particles on The Dielectric Relaxation Behavior and Thermal Stability of Polycarbonate Host. Journal of Thermoplastic Composite Materials, 2011, 24, 837-852. | 4.2 | 13 |
| 29 | Functional electrospun cellulosic nanofiber mats for antibacterial bandages. Fibers and Polymers, 2017, 18, 2379-2386. | 2.1 | 13 |
| 30 | Designing Magnetic Layered Double Hydroxides and Two-Dimensional Magnetic Nano-Nets of Cobalt Ferrite through a Novel Approach. Applied Sciences (Switzerland), 2018, 8, 2099. | 2.5 | 13 |
| 31 | Growth of Defect-Induced Carbon Nanotubes for Low-Temperature Fruit Monitoring Sensor. Chemosensors, 2021, 9, 131. | 3.6 | 13 |
| 32 | Seismic waveforms and velocity model heterogeneity: Towards a full-waveform microseismic location algorithm. Journal of Applied Geophysics, 2014, 111, 228-233. | 2.1 | 12 |
| 33 | Accelerating the Photocatalytic Degradation of Green Dye Pollutants by Using a New Coating Technique for Carbon Nanotubes with Nanolayered Structures and Nanocomposites. ChemistryOpen, 2018, 7, 833-841. | 1.9 | 12 |
| 34 | Structural and dielectric behavior of Al-substituted CaCu3Ti4O12 ceramics with giant dielectric constant by spark plasma sintering. Journal of Materials Science: Materials in Electronics, 2019, 30, 18259-18267. | 2.2 | 12 |
| 35 | Influence of Fine Crystal Percentage on the Electrical Properties of ZnO Ceramic-Based Varistors. Crystals, 2020, 10, 681. | 2.2 | 12 |
| 36 | Electrical and mechanical properties of Î²-hydroxynaphthoic acidâ€“multiwalled carbon nanotubesâ€“polystyrene nanocomposites. Journal of Thermoplastic Composite Materials, 2015, 28, 863-878. | 4.2 | 11 |

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|---|---|---|---|
| 37 | Catalytic activity and surface characteristics of layered Znâ€“Alâ€“Si materials supported platinum. Applied Clay Science, 2011, 53, 317-325. | 5.2 | 10 |
| 38 | A Rapid Method for Growth of Metal Nanoparticles on Nanowire Substrates. Journal of Nanoparticle Research, 2006, 8, 99-104. | 1.9 | 9 |
| 39 | Fabrication of TiO2-Nanotube-Array-Based Supercapacitors. Micromachines, 2019, 10, 742. | 2.9 | 9 |
| 40 | 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. Journal of Materials Research and Technology, 2020, 9, 67-75. | 5.8 | 9 |
| 41 | Removal of Heavy Metal Ions from Wastewater Using Hydroxyethyl Methacrylate-Modified Cellulose Nanofibers: Kinetic, Equilibrium, and Thermodynamic Analysis. International Journal of Environmental Research and Public Health, 2021, 18, 6581. | 2.6 | 9 |
| 42 | Size Dependent Photocatalytic Activity of ZnO Nanosheets for Degradation of Methyl Red. Frontiers in Materials, 2020, 7, . | 2.4 | 9 |
| 43 | Structural Transition-Induced Raman Enhancement in Bioinspired Diphenylalanine Peptide Nanotubes. ACS Applied Materials & Interfaces, 2022, 14, 12504-12514. | 8.0 | 9 |
| 44 | Tailoring the surface morphology of nanostructured cobalt oxide for high-sensitivity CO sensor. Journal of Materials Science, 2022, 57, 12865-12874. | 3.7 | 9 |
| 45 | Dielectric relaxation and rheological properties of single-walled carbon nanotubes reinforced poly(3-octylthiophene-2,5-diyl). Journal of Thermoplastic Composite Materials, 2013, 26, 605-626. | 4.2 | 8 |
| 46 | Fast Degradation of Green Pollutants Through Nanonets and Nanofibers of the Al-Doped Zinc Oxide. Acta Metallurgica Sinica (English Letters), 2018, 31, 533-546. | 2.9 | 8 |
| 47 | Effect of Metal and Non-metal Doping on the Photocatalytic Performance of Titanium dioxide (TiO2): A Review. Current Nanoscience, 2022, 18, 499-519. | 1.2 | 8 |
| 48 | Impact of Bi2O3 addition on the normal state properties of Bi3.4Pb0.3Sr2Ca1.3â^'x RExCu2Oy ceramics. Journal of Physics and Chemistry of Solids, 2008, 69, 2919-2923. | 4.0 | 7 |
| 49 | Concentration and mobility of mobile Li+ ions in Li6BaLa2Ta2O12 and Li5La3Ta2O12 garnet lithium ion conductors. Journal of Materials Science: Materials in Electronics, 2015, 26, 8136-8142. | 2.2 | 7 |
| 50 | 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 |
| 51 | Dielectric behavior of spark plasma sintered BaTi0.7Zr0.3O3 relaxor ferroelectrics. Results in Physics, 2019, 15, 102799. | 4.1 | 7 |
| 52 | Negative magnetoresistance in iron doped TiN thin films prepared by reactive magnetron sputtering. Journal of Magnetism and Magnetic Materials, 2020, 514, 167235. | 2.3 | 7 |
| 53 | Improved dielectric properties of Na<sub>1/2</sub>Y<sub>1/2</sub>Cu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> ceramics synthesized by ball-milling and reactive sintering. Materials Research Express, 2020, 7, 026550. | 1.6 | 7 |
| 54 | Synergistic Effect of Hexagonal Boron Nitride-Coated Separators and Multi-Walled Carbon Nanotube Anodes for Thermally Stable Lithium-Ion Batteries. Crystals, 2022, 12, 125. | 2.2 | 7 |

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|---|---|---|---|
| 55 | Transport Properties Through Double Barrier Structure in Graphene. Journal of Low Temperature Physics, 2012, 168, 40-56. | 1.4 | 6 |
| 56 | Crosslink density and diffusion mechanisms in blend vulcanizates loaded with carbon black and paraffin wax. Journal of Applied Polymer Science, 2009, 112, 3232-3240. | 2.6 | 5 |
| 57 | One-Pot Synthesis of 7, 7-Dimethyl-4-Phenyl-2-Thioxo-2,3,4,6,7, 8-Hexahydro-1H-Quinazoline-5-OnesUsing Zinc Ferrite Nanocatalyst and Its Bio Evaluation. Catalysts, 2021, 11, 431. | 3.5 | 5 |
| 58 | Hierarchical Porous Carbon Cobalt Nanocomposites-Based Sensor for Fructose. Chemosensors, 2021, 9, 6. | 3.6 | 5 |
| 59 | Low-Temperature Ethanol Sensor via Defective Multiwalled Carbon Nanotubes. Materials, 2022, 15, 4439. | 2.9 | 5 |
| 60 | 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 |
| 61 | 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 |
| 62 | Mechanical property of solid ZrO<sub>2</sub>powder enhanced Auâ€“Ni coating. Materials Research Innovations, 2014, 18, S4-1132-S4-1136. | 2.3 | 3 |
| 63 | New preparation approach, electrical and mechanical properties of poly(vinyl alcohol)-loaded graphene films. Journal of Thermoplastic Composite Materials, 2021, 34, 1504-1522. | 4.2 | 3 |
| 64 | Optical and photoluminescence performance of electrodeposited arsenic selenide thin film doped with erbium ion. Optical Materials, 2020, 99, 109556. | 3.6 | 3 |
| 65 | 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 |
| 66 | Enhancement of the Supercapacitive Performance of Cobalt-tin-cyanate Layered Structures through Conversion from 2D Materials to 1D Nanofibers. Applied Sciences (Switzerland), 2021, 11, 4289. | 2.5 | 3 |
| 67 | Potassium chloride nanowire formation inside a microchannel glass array. Applied Physics Letters, 2005, 86, 263110. | 3.3 | 2 |
| 68 | Nano-hybrid materials and nano-composite materials based on PVA. International Journal of Nano and Biomaterials, 2009, 2, 184. | 0.1 | 2 |
| 69 | Novel Dispersion of MWCNTs in Polystyrene Polymer Induced by the Addition of 3-Hydroxy-2-Napthoic Acid. Journal of Dispersion Science and Technology, 2015, 36, 747-754. | 2.4 | 2 |
| 70 | Effect of hydrostatic pressure on the electrical properties of blend vulcanizates loaded with paraffin wax. Materials & Design, 2010, 31, 3207-3214. | 5.1 | 1 |
| 71 | Pressure-Induced Phase Transitions of Single-Walled Carbon Nanotubes: Simulations of X-Ray Diffraction. Journal of Computational and Theoretical Nanoscience, 2013, 10, 2631-2635. | 0.4 | 1 |
| 72 | Augmentation of ferromagnetism in CuOâ€“Al<sub>2</sub>O<sub>3</sub> nanocomposite synthesized via solution combustion method. Materials Express, 2019, 9, 653-659. | 0.5 | 1 |

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|---|---|---|---|
| 73 | The effects of crystallinity and catalyst dynamics on boron carbide nanospring formation (Invited) Tj ETQq1 1 0.784314 rgBT /Overloc | | 0 |
| 74 | Nanostructured Electrodes and Photoactive Layers for Efficient, Stable and Flexible Organic Photovoltaic Devices. ECS Transactions, 2013, 53, 11-22. | 0.5 | 0 |
| 75 | Synthesis and Characterization of Inorganic Pigment Nanoparticles for Textile Coloration Using Microwave Techniques. AATCC Journal of Research, 2016, 3, 1-8. | 0.6 | 0 |
| 76 | Electromagnetic interference shielding and mechanical properties of multi-layered polyvinyl chloride/multiwall carbon nanotubes nanocomposite. Materials Express, 2019, 9, 872-881. | 0.5 | 0 |
| 77 | Effect of Sm3+ Substitutions on the Lithium Ionic Conduction and Relaxation Dynamics of Li5+2xLa3Nb2â^'xSmxO12 Ceramics. Crystals, 2021, 11, 95. | 2.2 | 0 |
| 78 | Rheological, Dynamic and Tensile Mechanical Properties of Recycled Styrofoam Loaded with Carbon Nanotubes. Science of Advanced Materials, 2021, 13, 1019-1027. | 0.7 | 0 |