

Almaz S Jalilov

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

1,292
citations

18
h-index

35
g-index

51
ext. papers

1,495
ext. citations

9.2
avg, IF

4.66
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 50 | Electrochemical CO ₂ Reduction with Atomic Iron-Dispersed on Nitrogen-Doped Graphene. <i>Advanced Energy Materials</i> , 2018 , 8, 1703487 | 21.8 | 277 |
| 49 | Asphalt-derived high surface area activated porous carbons for carbon dioxide capture. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1376-82 | 9.5 | 91 |
| 48 | High Performance Electrocatalytic Reaction of Hydrogen and Oxygen on Ruthenium Nanoclusters. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3785-3791 | 9.5 | 84 |
| 47 | Ultrafast Charging High Capacity Asphalt-Lithium Metal Batteries. <i>ACS Nano</i> , 2017 , 11, 10761-10767 | 16.7 | 70 |
| 46 | Biochar as a renewable source for high-performance CO ₂ sorbent. <i>Carbon</i> , 2016 , 107, 344-351 | 10.4 | 65 |
| 45 | Ultra-High Surface Area Activated Porous Asphalt for CO ₂ Capture through Competitive Adsorption at High Pressures. <i>Advanced Energy Materials</i> , 2017 , 7, 1600693 | 21.8 | 64 |
| 44 | Helical and Dendritic Unzipping of Carbon Nanotubes: A Route to Nitrogen-Doped Graphene Nanoribbons. <i>ACS Nano</i> , 2015 , 9, 5833-45 | 16.7 | 54 |
| 43 | Suppressing Li Metal Dendrites Through a Solid Li-Ion Backup Layer. <i>Advanced Materials</i> , 2018 , 30, e1803869 | 16.7 | 49 |
| 42 | Lightweight Hexagonal Boron Nitride Foam for CO Absorption. <i>ACS Nano</i> , 2017 , 11, 8944-8952 | 16.7 | 42 |
| 41 | Electron donor-acceptor interactions with flanking purines influence the efficiency of thymine photodimerization. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20793-8 | 16.4 | 41 |
| 40 | Perylene Diimide as a Precise Graphene-like Superoxide Dismutase Mimetic. <i>ACS Nano</i> , 2017 , 11, 2024-2032 | 16.7 | 40 |
| 39 | Near-White Light Emission from Lead(II) Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2018 , 57, 11341-11346 | 16.7 | 39 |
| 38 | Highly Oxidized Graphene Quantum Dots from Coal as Efficient Antioxidants. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16815-16821 | 9.5 | 35 |
| 37 | The spectral elucidation versus the X-ray structure of the critical precursor complex in bimolecular electron transfers: application of experimental/theoretical solvent probes to ion-radical (redox) dyads. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1944-52 | 16.4 | 34 |
| 36 | Mechanistic Study of the Conversion of Superoxide to Oxygen and Hydrogen Peroxide in Carbon Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15086-92 | 9.5 | 30 |
| 35 | Increased CO ₂ selectivity of asphalt-derived porous carbon through introduction of water into pore space. <i>Nature Energy</i> , 2017 , 2, 932-938 | 62.3 | 19 |
| 34 | Solution and solid-state studies of doubly trimethylene-bridged tetraalkyl p-phenylenediamine diradical dication conformations. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6176-82 | 16.4 | 19 |

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| 33 | Chemically interconnected light-weight 3D-carbon nanotube solid network. <i>Carbon</i> , 2017 , 119, 142-149 | 10.4 | 18 |
| 32 | Intramolecular π -stacking interactions of bridged bis-p-phenylenediamine radical cations and diradical dications: charge-transfer versus spin-coupling. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6860-3 | 16.4 | 18 |
| 31 | Structure and electronic spectra of purine-methyl viologen charge transfer complexes. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 125-33 | 3.4 | 17 |
| 30 | Combining Optical Properties with Flexibility in Halogen-Substituted Benzothiazole Crystals. <i>Crystal Growth and Design</i> , 2020 , 20, 3937-3943 | 3.5 | 16 |
| 29 | Monotrimethylene-bridged bis-p-phenylenediamine radical cations and dications: spin states, conformations, and dynamics. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 1439-48 | 2.8 | 14 |
| 28 | Effect of ortho substitution on the charge localization of dinitrobenzene radical anions. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 3016-21 | 2.8 | 14 |
| 27 | Halogen Bonding Between Anions: Association of Anion Radicals of Tetraiodo-p-benzoquinone with Iodide Anions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17197-17201 | 16.4 | 12 |
| 26 | Structure Property Correlation of a Series of Halogenated Schiff Base Crystals and Understanding of the Molecular Basis Through Nanoindentation. <i>Crystal Growth and Design</i> , 2019 , 19, 6698-6707 | 3.5 | 11 |
| 25 | Pore Characteristics for Efficient CO Storage in Hydrated Carbons. <i>ACS Applied Materials & Interfaces</i> , 2019 , | 9.5 | 11 |
| 24 | Single-Crystal-to-Single-Crystal Transformation of Hydrogen-Bonded Triple-Stranded Ladder Coordination Polymer via Photodimerization Reaction. <i>Inorganic Chemistry</i> , 2019 , 58, 10167-10173 | 5.1 | 10 |
| 23 | O-capped heteroadamantyl-substituted hydrazines and their oxidation products. <i>Journal of Organic Chemistry</i> , 2010 , 75, 2445-52 | 4.2 | 10 |
| 22 | Kinetic and Mechanistic Analysis of Dibenzothiophene Hydrodesulfurization on Ti-SBA-15NiMo Catalysts. <i>Energy & Fuels</i> , 2018 , 32, 11383-11389 | 4.1 | 9 |
| 21 | Catalytic oxidation and reduction reactions of hydrophilic carbon clusters with NADH and cytochrome C: features of an electron transport nanozyme. <i>Nanoscale</i> , 2019 , 11, 10791-10807 | 7.7 | 8 |
| 20 | Droplet flow-assisted heterogeneous electro-Fenton reactor for degradation of beta-blockers: response surface optimization, and mechanism elucidation. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 14313-14327 | 5.1 | 7 |
| 19 | Oxidation products of doubly trimethylene-bridged tetrabenzyl p-phenylenediamine paracyclophane. <i>Journal of Organic Chemistry</i> , 2013 , 78, 11373-81 | 4.2 | 7 |
| 18 | Charge-transfer complex formations of tetracyanoquinone (cyanil) and aromatic electron donors. <i>Journal of Physical Organic Chemistry</i> , 2016 , 29, 35-41 | 2.1 | 7 |
| 17 | Tuning hydrophobicity of a fluorinated terpolymer in differently assembled thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 643-657 | 2.6 | 6 |
| 16 | Solvent Effect on Structural Elucidation of Photoluminescent Graphitic Carbon Nanodots. <i>ACS Omega</i> , 2020 , 5, 20409-20416 | 3.9 | 6 |

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| 15 | Selectively capturing carbon dioxide from mixed gas streams using a new microporous organic copolymer. <i>Microporous and Mesoporous Materials</i> , 2020 , 305, 110391 | 5.3 | 5 |
| 14 | Intramolecular π -Stacking Interactions of Bridged Bis-p-Phenylenediamine Radical Cations and Diradical Dications: Charge-Transfer versus Spin-Coupling. <i>Angewandte Chemie</i> , 2011 , 123, 6992-6995 | 3.6 | 5 |
| 13 | Impact of Polypyrrole Functionalization on the Anodic Performance of Boron Nitride Nanosheets: Insights From First-Principles Calculations. <i>Frontiers in Chemistry</i> , 2021 , 9, 670833 | 5 | 5 |
| 12 | Halogen Bonding Between Anions: Association of Anion Radicals of Tetraiodo-p-benzoquinone with Iodide Anions. <i>Angewandte Chemie</i> , 2020 , 132, 17350-17354 | 3.6 | 4 |
| 11 | N,N'-Dimethylpyrazinedium bis(tetrafluoroborate) and N,N'-diethylpyrazinedium bis(tetrafluoroborate): new examples of anion- π triads. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2009 , 65, o226-8 | | 4 |
| 10 | Adhesion characteristics of solution treated environmental dust. <i>Scientific Reports</i> , 2020 , 10, 13812 | 4.9 | 4 |
| 9 | Quasi-1D Aligned Nanostructures for Solar-Driven Water Splitting Applications: Challenges, Promises, and Perspectives. <i>Solar Rrl</i> , 2021 , 5, 2000741 | 7.1 | 4 |
| 8 | Intermolecular Interactions between Halogen-Substituted p-Benzoquinones and Halide Anions: Anion- π Complexes versus Halogen Bonding. <i>ChemPlusChem</i> , 2020 , 85, 441-449 | 2.8 | 2 |
| 7 | Avalanche effect for chemically modified dust mitigation from surfaces. <i>Scientific Reports</i> , 2021 , 11, 8174.9 | 4.9 | 2 |
| 6 | Anticorrosion Coatings Based on Zinc Phosphate and Zinc Molybdate Nanoparticles. <i>Journal of Molecular and Engineering Materials</i> , 2016 , 04, 1640017 | 1.3 | 1 |
| 5 | Photoluminescent Carbon Nanodots Integrated Polymeric Materials in One Step from Molecular Precursors. <i>ChemistrySelect</i> , 2021 , 6, 9880-9887 | 1.8 | 1 |
| 4 | Design of Green-Emitting Salts from Substituted Pyridines: Understanding the Solid-State Photodimerization of trans-1,2-bis(4-pyridyl)ethylene. <i>ChemPhysChem</i> , 2021 , 22, 1088-1093 | 3.2 | 0 |
| 3 | Electronic Interactions of Michler's Ketone with DNA Bases in Synthetic Hairpins. <i>Photochemistry and Photobiology</i> , 2015 , 91, 739-47 | 3.6 | |
| 2 | Blue- and white-light-emitting 2D-coordination polymers and their solid-state photodimerization reaction. <i>CrystEngComm</i> , 2021 , 23, 7663-7670 | 3.3 | |
| 1 | Degradation Kinetics and Mechanism of Polychloromethanes Reduction at Co-MoS ₂ /Graphite Felt Electrode. <i>Catalysts</i> , 2021 , 11, 929 | | 4 |