

Almaz S Jalilov

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,703
citations

393982

19
h-index

276539

41
g-index

51
all docs

51
docs citations

51
times ranked

3579
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Electrochemical CO ₂ Reduction with Atomic Iron Dispersed on Nitrogen-Doped Graphene. <i>Advanced Energy Materials</i> , 2018, 8, 1703487. | 10.2 | 369 |
| 2 | Asphalt-Derived High Surface Area Activated Porous Carbons for Carbon Dioxide Capture. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1376-1382. | 4.0 | 108 |
| 3 | High Performance Electrocatalytic Reaction of Hydrogen and Oxygen on Ruthenium Nanoclusters. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3785-3791. | 4.0 | 108 |
| 4 | Biochar as a renewable source for high-performance CO ₂ sorbent. <i>Carbon</i> , 2016, 107, 344-351. | 5.4 | 94 |
| 5 | 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. | 10.2 | 87 |
| 6 | Ultrafast Charging High Capacity Asphalt-Lithium Metal Batteries. <i>ACS Nano</i> , 2017, 11, 10761-10767. | 7.3 | 80 |
| 7 | Suppressing Li Metal Dendrites Through a Solid Li Backup Layer. <i>Advanced Materials</i> , 2018, 30, e1803869. | 11.1 | 70 |
| 8 | Highly Oxidized Graphene Quantum Dots from Coal as Efficient Antioxidants. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16815-16821. | 4.0 | 61 |
| 9 | Helical and Dendritic Unzipping of Carbon Nanotubes: A Route to Nitrogen-Doped Graphene Nanoribbons. <i>ACS Nano</i> , 2015, 9, 5833-5845. | 7.3 | 59 |
| 10 | Perylene Diimide as a Precise Graphene-like Superoxide Dismutase Mimetic. <i>ACS Nano</i> , 2017, 11, 2024-2032. | 7.3 | 59 |
| 11 | Lightweight Hexagonal Boron Nitride Foam for CO ₂ Absorption. <i>ACS Nano</i> , 2017, 11, 8944-8952. | 7.3 | 56 |
| 12 | Electron Donor-Acceptor Interactions with Flanking Purines Influence the Efficiency of Thymine Photodimerization. <i>Journal of the American Chemical Society</i> , 2011, 133, 20793-20798. | 6.6 | 47 |
| 13 | Mechanistic Study of the Conversion of Superoxide to Oxygen and Hydrogen Peroxide in Carbon Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15086-15092. | 4.0 | 43 |
| 14 | Near-White Light Emission from Lead(II) Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2018, 57, 11341-11348. | 1.9 | 42 |
| 15 | 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, 1944-1952. | 6.6 | 35 |
| 16 | Increased CO ₂ selectivity of asphalt-derived porous carbon through introduction of water into pore space. <i>Nature Energy</i> , 2017, 2, 932-938. | 19.8 | 31 |
| 17 | Combining Optical Properties with Flexibility in Halogen-Substituted Benzothiazole Crystals. <i>Crystal Growth and Design</i> , 2020, 20, 3937-3943. | 1.4 | 27 |
| 18 | Solution and Solid-State Studies of Doubly Trimethylene-Bridged Tetraalkyl <i>p</i> -Phenylenediamine Diradical Dication Conformations. <i>Journal of the American Chemical Society</i> , 2010, 132, 6176-6182. | 6.6 | 20 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Chemically interconnected light-weight 3D-carbon nanotube solid network. <i>Carbon</i> , 2017, 119, 142-149. | 5.4 | 20 |
| 20 | Intramolecular π - π Stacking Interactions of Bridged Bis(<i>p</i> -Phenylenediamine Radical Cations and Diradical Dications: Charge Transfer versus Spin Coupling. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6860-6863. | 7.2 | 19 |
| 21 | 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. | 1.9 | 19 |
| 22 | 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. | 1.4 | 19 |
| 23 | Structure and Electronic Spectra of Purine-Methyl Viologen Charge Transfer Complexes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 125-133. | 1.2 | 18 |
| 24 | Pore Characteristics for Efficient CO ₂ Storage in Hydrated Carbons. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44390-44398. | 4.0 | 18 |
| 25 | Effect of Ortho Substitution on the Charge Localization of Dinitrobenzene Radical Anions. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3016-3021. | 1.1 | 16 |
| 26 | O-Capped Heteroadamantyl-Substituted Hydrazines and Their Oxidation Products. <i>Journal of Organic Chemistry</i> , 2010, 75, 2445-2452. | 1.7 | 15 |
| 27 | Monotrimethylene-Bridged Bis(<i>p</i> -phenylenediamine Radical Cations and Dications: Spin States, Conformations, and Dynamics. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1439-1448. | 1.1 | 15 |
| 28 | 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. | 2.8 | 15 |
| 29 | Quasi-1D Aligned Nanostructures for Solar-Driven Water Splitting Applications: Challenges, Promises, and Perspectives. <i>Solar Rrl</i> , 2021, 5, 2000741. | 3.1 | 15 |
| 30 | Halogen Bonding Between Anions: Association of Anion Radicals of Tetraiodo- <i>p</i> -benzoquinone with Iodide Anions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17197-17201. | 7.2 | 13 |
| 31 | Kinetic and Mechanistic Analysis of Dibenzothiophene Hydrodesulfurization on Ti-SBA-15-NiMo Catalysts. <i>Energy & Fuels</i> , 2018, 32, 11383-11389. | 2.5 | 10 |
| 32 | Solvent Effect on Structural Elucidation of Photoluminescent Graphitic Carbon Nanodots. <i>ACS Omega</i> , 2020, 5, 20409-20416. | 1.6 | 10 |
| 33 | 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. | 2.7 | 9 |
| 34 | Charge transfer complex formations of tetracyanoquinone (cyanil) and aromatic electron donors. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 35-41. | 0.9 | 8 |
| 35 | 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. | 2.4 | 8 |
| 36 | Intermolecular Interactions between Halogen-Substituted <i>p</i> -Benzoquinones and Halide Anions: Anion- π Complexes versus Halogen Bonding. <i>ChemPlusChem</i> , 2020, 85, 441-449. | 1.3 | 8 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Oxidation Products of Doubly Trimethylene-Bridged Tetrabenzylp-Phenylenediamine Paracyclophane. <i>Journal of Organic Chemistry</i> , 2013, 78, 11373-11381. | 1.7 | 7 |
| 38 | Adhesion characteristics of solution treated environmental dust. <i>Scientific Reports</i> , 2020, 10, 13812. | 1.6 | 7 |
| 39 | Selectively capturing carbon dioxide from mixed gas streams using a new microporous organic copolymer. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110391. | 2.2 | 6 |
| 40 | 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. | 1.8 | 6 |
| 41 | N,N'-Dimethylpyrazinediium bis(tetrafluoroborate) and N,N'-diethylpyrazinediium bis(tetrafluoroborate): new examples of anion-π triads. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2009, 65, o226-o228. | 0.4 | 5 |
| 42 | Halogen Bonding Between Anions: Association of Anion Radicals of Tetraiodo- <i>p</i> -benzoquinone with Iodide Anions. <i>Angewandte Chemie</i> , 2020, 132, 17350-17354. | 1.6 | 4 |
| 43 | Design of Green-Emitting Salts from Substituted Pyridines: Understanding the Solid-State Photodimerization of <i>trans</i> -1,2-bis(4-pyridyl)ethylene. <i>ChemPhysChem</i> , 2021, 22, 1088-1093. | 1.0 | 2 |
| 44 | Avalanche effect for chemically modified dust mitigation from surfaces. <i>Scientific Reports</i> , 2021, 11, 817. | 1.6 | 2 |
| 45 | Anticorrosion Coatings Based on Zinc Phosphate and Zinc Molybdate Nanoparticles. <i>Journal of Molecular and Engineering Materials</i> , 2016, 04, 1640017. | 0.9 | 1 |
| 46 | Blue- and white-light-emitting 2D-coordination polymers and their solid-state photodimerization reaction. <i>CrystEngComm</i> , 2021, 23, 7663-7670. | 1.3 | 1 |
| 47 | Photoluminescent Carbon Nanodots Integrated Polymeric Materials in One Step from Molecular Precursors. <i>ChemistrySelect</i> , 2021, 6, 9880-9887. | 0.7 | 1 |
| 48 | Electronic Interactions of Michler's Ketone with DNA Bases in Synthetic Hairpins. <i>Photochemistry and Photobiology</i> , 2015, 91, 739-747. | 1.3 | 0 |
| 49 | Degradation Kinetics and Mechanism of Polychloromethanes Reduction at Co-MoS ₂ /Graphite Felt Electrode. <i>Catalysts</i> , 2021, 11, 929. | 1.6 | 0 |