

Pavel Troshin

List of Publications by Year in Descending Order

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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.

318
papers

7,163
citations

41
h-index

71
g-index

359
ext. papers

8,360
ext. citations

5.8
avg. IF

6.05
L-index

| # | Paper | IF | Citations |
|-----------------|---|------|-----------|
| 3 ¹⁸ | High-capacity polymer electrodes for potassium batteries. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 3044-3050 | 13 | 0 |
| 3 ¹⁷ | Octahydroxytetraazapentacenedione: New organic electrode material for fast and stable potassium batteries. <i>Journal of Power Sources</i> , 2022 , 517, 230711 | 8.9 | 0 |
| 3 ¹⁶ | Nanoscale Visualization of Photodegradation Dynamics of MAPbI Perovskite Films.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2744-2749 | 6.4 | 2 |
| 3 ¹⁵ | Advanced Nonvolatile Organic Optical Memory Using Self-Assembled Monolayers of Porphyrin-Fullerene Dyads.. <i>ACS Applied Materials & Interfaces</i> , 2022 , | 9.5 | 3 |
| 3 ¹⁴ | Nickel tetrathiooxalate as a cathode material for potassium batteries. <i>Mendeleev Communications</i> , 2022 , 32, 226-227 | 1.9 | |
| 3 ¹³ | Using SERS and SEF Spectroscopy to Detect Fullerene-Dye Dyads in Water and Biological Structures. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2022 , 86, 418-422 | 0.4 | 0 |
| 3 ¹² | Conjugated push-pull type oligomer as a new electron transport material for improved stability p-i-n perovskite solar cells. <i>Synthetic Metals</i> , 2021 , 281, 116921 | 3.6 | 0 |
| 3 ¹¹ | m-Phenylenediamine as a Building Block for Polyimide Battery Cathode Materials. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4465-4472 | 6.1 | 3 |
| 3 ¹⁰ | Influence of hydrazinium iodide on the intrinsic photostability of MAPbI ₃ thin films and solar cells. <i>Journal of Materials Research</i> , 2021 , 36, 1846-1854 | 2.5 | 1 |
| 3 ⁰⁹ | When iodide meets bromide: Halide mixing facilitates the light-induced decomposition of perovskite absorber films. <i>Nano Energy</i> , 2021 , 86, 106082 | 17.1 | 3 |
| 3 ⁰⁸ | Reactive modification of zinc oxide with methylammonium iodide boosts the operational stability of perovskite solar cells. <i>Nano Energy</i> , 2021 , 83, 105774 | 17.1 | 13 |
| 3 ⁰⁷ | Influence of pyridine-based ligands on photostability of MAPbI ₃ thin films. <i>Mendeleev Communications</i> , 2021 , 31, 319-322 | 1.9 | 1 |
| 3 ⁰⁶ | Influence of pyridine-based ligands on photostability of MAPbI ₃ thin films. <i>Mendeleev Communications</i> , 2021 , 31, 319-322 | 1.9 | |
| 3 ⁰⁵ | Temperature Dynamics of MAPbI and PbI Photolysis: Revealing the Interplay between Light and Heat, Two Enemies of Perovskite Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4362-4367 | 6.4 | 5 |
| 3 ⁰⁴ | Synthesis and investigation of a new organic electrode material based on condensation product of triquinoyl with 1,2,4,5-tetraaminobenzene. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 889, 115234 | 4.1 | 0 |
| 3 ⁰³ | Pyrrolidino[2,1 <i>b</i>]phthalazino[6 <i>0</i>]fullerenes: A New Family of Fullerene Derivatives for Photovoltaic Applications. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100181 | 2.5 | |
| 3 ⁰² | The Effect of Electrolyte Composition on the Parameters of Batteries of the Polyimide-Lithium System. <i>Russian Journal of Electrochemistry</i> , 2021 , 57, 725-732 | 1.2 | 0 |

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| 301 | Ammonia gas sensors using 1,4,5,8,9,11-hexaazatriphenylene hexacarbonitrile semiconductor films. <i>Synthetic Metals</i> , 2021 , 277, 116764 | 3.6 | 0 |
| 300 | Thin films of MAPbI ₃ and MA _{0.15} FA _{0.75} Cs _{0.1} PbI ₃ perovskites under femtosecond laser irradiation: nonlinear optical absorption and kinetics of photodegradation. <i>Mendeleev Communications</i> , 2021 , 31, 456-458 | 1.9 | 1 |
| 299 | Novel functionalized indigo derivatives for organic electronics. <i>Dyes and Pigments</i> , 2021 , 186, 108966 | 4.6 | 1 |
| 298 | Dihydrophenazine-Based Copolymers as Promising Cathode Materials for Dual-Ion Batteries. <i>Energy Technology</i> , 2021 , 9, 2000772 | 3.5 | 8 |
| 297 | XPS spectra as a tool for studying photochemical and thermal degradation in APbX ₃ hybrid halide perovskites. <i>Nano Energy</i> , 2021 , 79, 105421 | 17.1 | 15 |
| 296 | Strength of attraction: pyrene-based hole-transport materials with effective π -stacking for dopant-free perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 283-288 | 5.8 | 4 |
| 295 | New low bandgap polymer for organic near-infrared photodetectors. <i>Thin Solid Films</i> , 2021 , 717, 138470 | 2.2 | 3 |
| 294 | Bis(pyrrolidino)[60]fullerenes: promising photostable fullerene-based acceptors suppressing light-induced absorber degradation pathways. <i>Synthetic Metals</i> , 2021 , 271, 116632 | 3.6 | 3 |
| 293 | Spectacular Enhancement of the Thermal and Photochemical Stability of MAPbI ₃ Perovskite Films Using Functionalized Tetraazaadamantane as a Molecular Modifier. <i>Energies</i> , 2021 , 14, 669 | 3.1 | 0 |
| 292 | Polydiphenylamine as a promising high-energy cathode material for dual-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2864-2871 | 13 | 13 |
| 291 | New phenazine based anolyte material for high voltage organic redox flow batteries. <i>Chemical Communications</i> , 2021 , 57, 2986-2989 | 5.8 | 10 |
| 290 | Synthesis and characterization of benzobisthiazole based polymers as donor materials for organic solar cells. <i>Mendeleev Communications</i> , 2021 , 31, 30-32 | 1.9 | 1 |
| 289 | Highly sensitive and selective ammonia gas sensor based on FAPbCl ₃ lead halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2561-2568 | 7.1 | 5 |
| 288 | Impact of the acceptor units on optoelectronic and photovoltaic properties of (XDADAD) _n -type copolymers: Computational and experimental study. <i>Dyes and Pigments</i> , 2021 , 185, 108899 | 4.6 | |
| 287 | Self-Diffusion of Fullerene C_{60} Derivatives in Aqueous Solutions and Suspensions of Erythrocytes According to Pulsed Field Gradient NMR Data. <i>Russian Journal of Physical Chemistry A</i> , 2021 , 95, 285-291 | 0.7 | 1 |
| 286 | Reversible Pb ²⁺ /Pb ⁰ and I ⁻ /I ₃ ⁻ Redox Chemistry Drives the Light-Induced Phase Segregation in All-Inorganic Mixed Halide Perovskites. <i>Advanced Energy Materials</i> , 2021 , 11, 2002934 | 21.8 | 22 |
| 285 | Water-soluble fullerene derivatives: the inhibition effect on polyol pathway enzymes and antidiabetic potential on high-fat diet/low-dose streptozotocin-induced diabetes in rats. <i>Journal of Nanoparticle Research</i> , 2021 , 23, 1 | 2.3 | 0 |
| 284 | Influence of Oxygen Ion Migration from Substrates on Photochemical Degradation of CH ₃ NH ₃ PbI ₃ Hybrid Perovskite. <i>Energies</i> , 2021 , 14, 5062 | 3.1 | 0 |

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| 283 | The Phosphonate Derivative of C Fullerene Induces Differentiation towards the Myogenic Lineage in Human Adipose-Derived Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 1 |
| 282 | Water-Promoted Reaction of C ₆₀ Compounds with Thiophenes Delivers a Family of Multifunctional Fullerene Derivatives with Selective Antiviral Properties. <i>Organic Letters</i> , 2021 , 23, 7226-7230 | 6.2 | 2 |
| 281 | Exploring CsPbI ₃ FAI alloys: Introducing low-dimensional Cs ₂ FAPb ₂ I ₇ absorber for efficient and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 426, 131754 | 14.7 | 1 |
| 280 | Identification of potential descriptors of water-soluble fullerene derivatives responsible for antitumor effects on lung cancer cells via QSAR analysis. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 812-825 | 6.8 | 5 |
| 279 | New highly soluble triarylamine-based materials as promising catholytes for redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8303-8307 | 13 | 3 |
| 278 | Partial Substitution of Pb in CsPbI ₃ as an Efficient Strategy To Design Fairly Stable All-Inorganic Perovskite Formulations. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5184-5194 | 9.5 | 6 |
| 277 | Water-soluble C ₇₀ fullerene derivative as a regulator of the reactive oxygen species level in cultured human cells. <i>Integrativna Fiziologija</i> , 2021 , 2, 463-470 | 0.2 | |
| 276 | Antioxidant Properties of a New Water-Soluble Fullerene C ₇₀ Derivative. <i>Key Engineering Materials</i> , 2020 , 854, 223-229 | 0.4 | 2 |
| 275 | Functionalized Naphthalene Diimides as Low-Cost Organic Cathodes for Potassium Batteries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000005 | 1.6 | 2 |
| 274 | Ni-Based Coordination Polymer as a Promising Anode Material for Potassium Batteries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1901050 | 1.6 | 8 |
| 273 | Decoupling Contributions of Charge-Transport Interlayers to Light-Induced Degradation of p-i-n Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000191 | 7.1 | 9 |
| 272 | Synthesis and Investigation of Dilithium Salts of Polyhydroquinones with Azomethine Groups as the Cathodes for Lithium Organic Batteries. <i>Russian Journal of Electrochemistry</i> , 2020 , 56, 310-320 | 1.2 | 1 |
| 271 | Incorporation of Vanadium(V) Oxide in Hybrid Hole Transport Layer Enables Long-term Operational Stability of Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5563-5568 | 6.4 | 12 |
| 270 | Effects of Covalent Conjugates of Fullerene Derivatives with Xanthene Dyes on Activity of Ca-ATPase of the Sarcoplasmic Reticulum. <i>Bulletin of Experimental Biology and Medicine</i> , 2020 , 169, 89-94 | 0.8 | 1 |
| 269 | Influence of Ion Migration from ITO and SiO ₂ Substrates on Photo and Thermal Stability of CH ₃ NH ₃ SnI ₃ Hybrid Perovskite. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14928-14934 | 3.8 | 8 |
| 268 | Unravelling the Material Composition Effects on the Gamma Ray Stability of Lead Halide Perovskite Solar Cells: MAPbI ₃ Breaks the Records. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2630-2636 | 6.4 | 18 |
| 267 | Unraveling the Impact of Hole Transport Materials on Photostability of Perovskite Films and p-i-n Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19161-19173 | 9.5 | 28 |
| 266 | Memory devices based on novel alkyl viologen halobismuthate(iii) complexes. <i>Chemical Communications</i> , 2020 , 56, 9162-9165 | 5.8 | 8 |

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| 265 | Organic-based active electrode materials for potassium batteries: status and perspectives. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17296-17325 | 13 | 19 |
| 264 | Light-Sensitive Material Structure-Electrical Performance Relationship for Optical Memory Transistors Incorporating Photochromic Dihetarylethenes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32987-32993 | 9.5 | 7 |
| 263 | Design of novel thiazolothiazole-containing conjugated polymers for organic solar cells and modules. <i>Solar Energy</i> , 2020 , 198, 605-611 | 6.8 | 13 |
| 262 | Amine-selective gas sensor based on organic field-effect transistor with the porphyrin monolayer receptor. <i>Synthetic Metals</i> , 2020 , 260, 116295 | 3.6 | 7 |
| 261 | What is Killing Organic Photovoltaics: Light-Induced Crosslinking as a General Degradation Pathway of Organic Conjugated Molecules. <i>Advanced Energy Materials</i> , 2020 , 10, 1903163 | 21.8 | 15 |
| 260 | Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , 2020 , 5, 35-49 | 62.3 | 369 |
| 259 | 2-Carboxyethylgermanium Sesquioxide as A Promising Anode Material for Li-Ion Batteries. <i>ChemSusChem</i> , 2020 , 13, 3137-3146 | 8.3 | 9 |
| 258 | Thiazolothiazole-based conjugated polymers for blade-coated organic solar cells processed from an environment-friendly solvent. <i>Tetrahedron Letters</i> , 2020 , 61, 152037 | 2 | 4 |
| 257 | XPS evidence of degradation mechanism in CHNHPbI hybrid perovskite. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 095501 | 1.8 | 10 |
| 256 | Synthesis, characterization and anti-HIV activity of polycarboxylic [60]fullerene derivatives obtained in the reaction of C60Cl6 with a hydroquinone ether. <i>Tetrahedron Letters</i> , 2020 , 61, 151598 | 2 | 6 |
| 255 | TEMPOL-promoted oxygen doping of a polytriarylamine hole-transport layer for efficient and stable lead halide perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2419-2424 | 7.1 | 3 |
| 254 | Direct arylation of CCl and CCl with carboxylic acids: a synthetic avenue to water-soluble fullerene derivatives with promising antiviral activity. <i>Chemical Communications</i> , 2020 , 56, 1179-1182 | 5.8 | 12 |
| 253 | A nickel coordination polymer derived from 1,2,4,5-tetraaminobenzene for fast and stable potassium battery anodes. <i>Chemical Communications</i> , 2020 , 56, 1541-1544 | 5.8 | 12 |
| 252 | An environment-friendly approach to produce nanostructured germanium anodes for lithium-ion batteries. <i>Green Chemistry</i> , 2020 , 22, 359-367 | 10 | 17 |
| 251 | Phenyl-C61-butyric Acid as an Interface Passivation Layer for Highly Efficient and Stable Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1872-1877 | 3.8 | 21 |
| 250 | Environment-friendly aqueous processing of [60]fullerene semiconducting films for truly green organic electronics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 495-499 | 7.1 | 4 |
| 249 | Light or Heat: What Is Killing Lead Halide Perovskites under Solar Cell Operation Conditions?. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 333-339 | 6.4 | 54 |
| 248 | Thermal Effects and Halide Mixing of Hybrid Perovskites: MD and XPS Studies. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 135-140 | 2.8 | 4 |

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| 247 | Reduction of Methylammonium Cations as a Major Electrochemical Degradation Pathway in MAPbI Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 221-228 | 6.4 | 18 |
| 246 | Microscopic insight into the reversibility of photodegradation in MAPbI ₃ thin films. <i>Journal of Luminescence</i> , 2020 , 219, 116916 | 3.8 | 5 |
| 245 | Effects of Spacer and fluorine loading on the optoelectronic and photovoltaic properties of (X-DADAD) _n benzodithiophene-based conjugated polymers. <i>Synthetic Metals</i> , 2020 , 259, 116231 | 3.6 | 5 |
| 244 | Surface modification of ZnO electron transport layer with thermally evaporated WO ₃ for stable perovskite solar cells. <i>Synthetic Metals</i> , 2020 , 269, 116547 | 3.6 | 3 |
| 243 | Tellurium complex polyhalides: narrow bandgap photoactive materials for electronic applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21988-21992 | 13 | 1 |
| 242 | Thiophene-based water-soluble fullerene derivatives as highly potent antiherpetic pharmaceuticals. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 8702-8708 | 3.9 | 3 |
| 241 | Solubilizing Side Chain Engineering: Efficient Strategy to Improve the Photovoltaic Performance of Novel Benzodithiophene-Based (X-DADAD) Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000430 | 4.8 | 2 |
| 240 | Efficient and Stable MAPbI-Based Perovskite Solar Cells Using Polyvinylcarbazole Passivation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6772-6778 | 6.4 | 26 |
| 239 | Design of novel thiazolothiazole-based conjugated polymer for efficient fullerene and non-fullerene organic solar cells. <i>Synthetic Metals</i> , 2020 , 268, 116508 | 3.6 | 7 |
| 238 | Water-soluble fullerene-based nanostructures with promising antiviral and myogenic activity. <i>Chemical Communications</i> , 2020 , 56, 10203-10206 | 5.8 | 6 |
| 237 | Effects of Functionalized Fullerenes on ROS Homeostasis Determine Their Cytoprotective or Cytotoxic Properties. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 2 |
| 236 | Perylenetetracarboxylic dianhydride as organic electron transport layer for n-i-p perovskite solar cells. <i>Synthetic Metals</i> , 2020 , 268, 116497 | 3.6 | 3 |
| 235 | Suzuki polycondensation for the synthesis of polytriarylamine: A method to improve hole-transport material performance in perovskite solar cells. <i>Tetrahedron Letters</i> , 2020 , 61, 152317 | 2 | 8 |
| 234 | Film Deposition Techniques Impact the Defect Density and Photostability of MAPbI ₃ Perovskite Films. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21378-21385 | 3.8 | 10 |
| 233 | Fullerene Derivatives as Lung Cancer Cell Inhibitors: Investigation of Potential Descriptors Using QSAR Approaches. <i>International Journal of Nanomedicine</i> , 2020 , 15, 2485-2499 | 7.3 | 7 |
| 232 | New cyclopentadithiophene-based (X-DAD?AD) _n conjugated polymers for organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 193, 66-72 | 6.4 | 7 |
| 231 | Anti-amyloid activities of three different types of water-soluble fullerene derivatives. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 183, 110426 | 6 | 10 |
| 230 | Impact of P3HT materials properties and layer architecture on OPV device stability. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 202, 110151 | 6.4 | 10 |

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| 229 | High-Energy and High-Power-Density Potassium Ion Batteries Using Dihydrophenazine-Based Polymer as Active Cathode Material. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5440-5445 | 6.4 | 44 |
| 228 | Metal-ion batteries meet supercapacitors: high capacity and high rate capability rechargeable batteries with organic cathodes and a Na/K alloy anode. <i>Chemical Communications</i> , 2019 , 55, 11758-11761 | 5.8 | 16 |
| 227 | Theoretical and experimental evidence for irreversible lithiation of the conformationally flexible polyimide: Impact on battery performance. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 836, 143-148 | 4.1 | 4 |
| 226 | Polymeric iodobismuthates {[Bi3I10]} and {[BiI4]} with N-heterocyclic cations: promising perovskite-like photoactive materials for electronic devices. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5957-5966 | 13 | 40 |
| 225 | Polymer nanocomposites for solar cells: research trends and perspectives 2019 , 557-600 | | 1 |
| 224 | Nickel(II) and Copper(II) Coordination Polymers Derived from 1,2,4,5-Tetraaminobenzene for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 5197-5205 | 9.6 | 34 |
| 223 | New Naphthalene-Based Polyimide as an Environment-Friendly Organic Cathode Material for Lithium Batteries. <i>Energy Technology</i> , 2019 , 7, 1801016 | 3.5 | 16 |
| 222 | Performance of a Li-Polyimide Battery with Electrolytes of Various Types. <i>Russian Journal of Electrochemistry</i> , 2019 , 55, 254-264 | 1.2 | 1 |
| 221 | Impressive Radiation Stability of Organic Solar Cells Based on Fullerene Derivatives and Carbazole-Containing Conjugated Polymers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21741-21748 | 9.5 | 13 |
| 220 | Diversion of the Arbuzov reaction: alkylation of C-Cl instead of phosphonic ester formation on the fullerene cage. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 7155-7160 | 3.9 | 7 |
| 219 | Impact of Alkyl Side Chains on Optoelectronic and Photovoltaic Properties of Novel Benzodithiophenedione-Based Conjugated Polymers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900154 | 2.5 | 2 |
| 218 | Molecular structureElectrical performance relationship for OFET-based memory elements comprising unsymmetrical photochromic diarylethenes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6889-6894 | 7.1 | 16 |
| 217 | Efficient and stable all-inorganic perovskite solar cells based on nonstoichiometric Cs _x PbI ₂ Br _x (x > 1) alloys. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5314-5323 | 7.1 | 20 |
| 216 | An ultrafast charging polyphenylamine-based cathode material for high rate lithium, sodium and potassium batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11430-11437 | 13 | 40 |
| 215 | New alternating thiophene-benzothiadiazole electron donor material for small-molecule organic solar cells and field-effect transistors. <i>Synthetic Metals</i> , 2019 , 250, 7-11 | 3.6 | 10 |
| 214 | Direct Heteroarylation versus Stille Polycondensation Reaction for the Synthesis of TQ1 Conjugated Polymer. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 776-782 | 2.5 | 2 |
| 213 | Antioxidant Properties of Fullerene Derivatives Depend on Their Chemical Structure: A Study of Two Fullerene Derivatives on HELFs. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 4398695 | 6.7 | 20 |
| 212 | Investigation of the Spectral Properties of Noncovalent Complexes of a Polysubstituted Water-Soluble Derivative of the C60 Fullerene and Chlorin e6 in Polar Solvents. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2019 , 126, 629-633 | 0.7 | 2 |

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| 211 | Water-Soluble Anionic C60-Fullerene Derivatives as Antidotes for HG(II) Ions in Tests on Escherichia Coli Cells. <i>Pharmaceutical Chemistry Journal</i> , 2019 , 53, 312-317 | 0.9 | |
| 210 | Molecular Engineering of the Fullerene-Based Electron Transport Layer Materials for Improving Ambient Stability of Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900223 | 7.1 | 9 |
| 209 | A new polytriarylamine derivative for dopant-free high-efficiency perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2627-2632 | 5.8 | 21 |
| 208 | Impact of charge transport layers on the photochemical stability of MAPbI3 in thin films and perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2705-2716 | 5.8 | 14 |
| 207 | Toward Understanding the Antitumor Effects of Water-Soluble Fullerene Derivatives on Lung Cancer Cells: Apoptosis or Autophagy Pathways?. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 7111-7125 | 8.3 | 16 |
| 206 | New tetraazapentacene-based redox-active material as a promising high-capacity organic cathode for lithium and potassium batteries. <i>Journal of Power Sources</i> , 2019 , 435, 226724 | 8.9 | 20 |
| 205 | Comparative Intrinsic Thermal and Photochemical Stability of Sn(II) Complex Halides as Next-Generation Materials for Lead-Free Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26862-26869 | 3.8 | 20 |
| 204 | What can we learn from model systems: Impact of polymer backbone structure on performance and stability of organic photovoltaics. <i>Polymer</i> , 2019 , 183, 121849 | 3.9 | 10 |
| 203 | Biomimetic Approach to Inhibition of Photooxidation in Organic Solar Cells Using Beta-Carotene as an Additive. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41570-41579 | 9.5 | 21 |
| 202 | Hexaazatriphenylene-based polymer cathode for fast and stable lithium-, sodium- and potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22596-22603 | 13 | 46 |
| 201 | Potassium Salt of Fullerenylpenta-N-Dihydroxytyrosine Effects on Type 2 Diabetes Mellitus Therapeutic Targets. <i>Doklady Biochemistry and Biophysics</i> , 2019 , 488, 320-323 | 0.8 | 2 |
| 200 | ERay-Induced Degradation in the Triple-Cation Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 813-818 | 6.4 | 24 |
| 199 | Hybrid Solar Cells: Antimony (V) Complex Halides: Lead-Free Perovskite-Like Materials for Hybrid Solar Cells (Adv. Energy Mater. 6/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870026 | 21.8 | 0 |
| 198 | Interaction of water-soluble pentaamino acid fullerene derivatives with membranes of phosphatidylcholine liposomes. <i>Russian Chemical Bulletin</i> , 2018 , 67, 366-370 | 1.7 | 6 |
| 197 | Disubstituted perylene diimides in organic field-effect transistors: Effect of the alkyl side chains and thermal annealing on the device performance. <i>Organic Electronics</i> , 2018 , 58, 257-262 | 3.5 | 7 |
| 196 | Facile synthesis of isomerically pure fullerenols C 60 (OH) 5 Br and 1,4-C 60 (OH) 2 from chlorofullerene C 60 Cl 6. <i>Tetrahedron Letters</i> , 2018 , 59, 605-607 | 2 | 6 |
| 195 | Antimony (V) Complex Halides: Lead-Free Perovskite-Like Materials for Hybrid Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1701140 | 21.8 | 57 |
| 194 | Synthesis of Pentapyrazolyl, Pentapyrrolyl, and Pentaanilino C60 Derivatives. <i>Synthesis</i> , 2018 , 50, 4283-4289 | | 7 |

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| 193 | A Novel Family of Polyiodo-Bromoantimonate(III) Complexes: Cation-Driven Self-Assembly of Photoconductive Metal-Polyhalide Frameworks. <i>Chemistry - A European Journal</i> , 2018 , 24, 14707-14711 | 4.8 | 33 |
| 192 | Synthesis of chlorinated fullerenes C ₆₀ Cl _n (n = 2, 4) from C ₆₀ Cl ₆ and their Arbuzov-type reaction with P(OEt) ₃ . <i>Tetrahedron Letters</i> , 2018 , 59, 608-611 | 2 | 3 |
| 191 | Hydrazinium-assisted stabilisation of methylammonium tin iodide for lead-free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21389-21395 | 13 | 45 |
| 190 | Influence of halide mixing on thermal and photochemical stability of hybrid perovskites: XPS studies. <i>Mendeleev Communications</i> , 2018 , 28, 381-383 | 1.9 | 7 |
| 189 | Synthesis and Antiviral Activity of Water-Soluble Polycarboxylic Derivatives of [60]Fullerene Loaded with 3,4-Dichlorophenyl Units. <i>Chemistry and Biodiversity</i> , 2018 , 15, e1800293 | 2.5 | 5 |
| 188 | Application of SERS and SEF Spectroscopy for Detection of Water-Soluble Fullerene-Chlorin Dyads and Chlorin e6. <i>Doklady Physical Chemistry</i> , 2018 , 481, 95-99 | 0.8 | 1 |
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