Pavel Troshin

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#	Paper	IF	Citations
318	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
317	Indigoa natural pigment for high performance ambipolar organic field effect transistors and circuits. <i>Advanced Materials</i> , 2012 , 24, 375-80	24	334
316	Material Solubility-Photovoltaic Performance Relationship in the Design of Novel Fullerene Derivatives for Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2009 , 19, 779-788	15.6	329
315	Biocompatible and Biodegradable Materials for Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2010 , 20, 4069-4076	15.6	317
314	Highly Efficient All-Inorganic Planar Heterojunction Perovskite Solar Cells Produced by Thermal Coevaporation of CsI and PbI. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 67-72	6.4	214
313	Probing the Intrinsic Thermal and Photochemical Stability of Hybrid and Inorganic Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1211-1218	6.4	160
312	Isolation of two seven-membered ring C58 fullerene derivatives: C58F17CF3 and C58F18. <i>Science</i> , 2005 , 309, 278-81	33.3	145
311	C(60)F(18), a Flattened Fullerene: Alias a Hexa-Substituted Benzene This work was supported by the Royal Society, INTAS, the Russian Foundation for Fundamental Research (grant no. 99-03-32810), and the Russian Programme, "Fullerenes and Atomic Clusters". <i>Angewandte Chemie</i>	16.4	130
310	International Edition, 2000, 39, 3273-3276 Synthesis and structure of the highly chlorinated [60]fullerene C60Cl30 with a drum-shaped carbon cage. Angewandte Chemie - International Edition, 2004, 44, 234-7	16.4	116
309	Environmentally sustainable organic field effect transistors. <i>Organic Electronics</i> , 2010 , 11, 1974-1990	3.5	106
308	The chemical origin of the p-type and n-type doping effects in the hybrid methylammonium-lead iodide (MAPbI3) perovskite solar cells. <i>Chemical Communications</i> , 2015 , 51, 14917-20	5.8	100
307	Chlorofullerene C60Cl6: a precursor for straightforward preparation of highly water-soluble polycarboxylic fullerene derivatives active against HIV. <i>Organic and Biomolecular Chemistry</i> , 2007 , 5, 278	3 3:9 1	82
306	Two Isomers of C F: An Indented Fullerene. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2285-2	2 28 74	82
305	Effect of Electron-Transport Material on Light-Induced Degradation of Inverted Planar Junction Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700476	21.8	80
304	Exploring the Effects of the Pb Substitution in MAPbI on the Photovoltaic Performance of the Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4353-4357	6.4	70
303	Facile preparation of amine and amino acid adducts of [60]fullerene using chlorofullerene C60Cl6 as a precursor. <i>Chemical Communications</i> , 2012 , 48, 5461-3	5.8	65
302	Overcoming the Thermal Instability of Efficient Polymer Solar Cells by Employing Novel Fullerene-Based Acceptors. <i>Advanced Energy Materials</i> , 2017 , 7, 1601204	21.8	61

(2019-2008)

301	Organic chemistry of fullerenes: the major reactions, types of fullerene derivatives and prospects for practical use. <i>Russian Chemical Reviews</i> , 2008 , 77, 323-369	6.8	60
300	Complexation of pyrrolidinofullerenes and zinc-phthalocyanine in a bilayer organic solar cell structure. <i>Applied Physics Letters</i> , 2005 , 87, 244102	3.4	60
299	An Efficient [2+3] Cycloaddition Approach to the Synthesis of Pyridyl-Appended Fullerene Ligands. <i>European Journal of Organic Chemistry</i> , 2005 , 2005, 3064-3074	3.2	60
298	Water-Soluble Fullerene Derivatives as Brain Medicine: Surface Chemistry Determines If They Are Neuroprotective and Antitumor. <i>ACS Applied Materials & Design Company</i> , 11482-11492	9.5	59
297	Design of indigo derivatives as environment-friendly organic semiconductors for sustainable organic electronics. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7621-7631	7.1	59
296	Highly selective reactions of C60Cl6 with thiols for the synthesis of functionalized [60]fullerene derivatives. <i>Chemical Communications</i> , 2012 , 48, 7158-60	5.8	59
295	Antimony (V) Complex Halides: Lead-Free Perovskite-Like Materials for Hybrid Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1701140	21.8	57
294	Synthesis and antiviral activity of highly water-soluble polycarboxylic derivatives of [70]fullerene. <i>Chemical Communications</i> , 2011 , 47, 8298-300	5.8	57
293	Organic solar cells with semitransparent metal back contacts for power window applications. <i>ChemSusChem</i> , 2009 , 2, 309-13	8.3	56
292	Supramolecular Association of Pyrrolidinofullerenes Bearing Chelating Pyridyl Groups and Zinc Phthalocyanine for Organic Solar Cells. <i>Chemistry of Materials</i> , 2007 , 19, 5363-5372	9.6	56
291	Design of rewritable and read-only non-volatile optical memory elements using photochromic spiropyran-based salts as light-sensitive materials. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11675-1168	3 ō .1	55
290	Light or Heat: What Is Killing Lead Halide Perovskites under Solar Cell Operation Conditions?. Journal of Physical Chemistry Letters, 2020 , 11, 333-339	6.4	54
289	Photoswitchable organic field-effect transistors and memory elements comprising an interfacial photochromic layer. <i>Chemical Communications</i> , 2015 , 51, 6130-2	5.8	53
288	Bromination of [60]Fullerene. II. Crystal and Molecular Structure of [60]Fullerene Bromides, C60Br6, C60Br8, and C60Br24. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2003 , 11, 61-77	1.8	52
287	C60F20: Baturnene[lan Extraordinary Squashed Fullerene. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 787-789	16.4	51
286	[70]fullerene-based materials for organic solar cells. <i>ChemSusChem</i> , 2011 , 4, 119-24	8.3	48
285	Fullerenolates: metallated polyhydroxylated fullerenes with potent anti-amyloid activity. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 5714-9	3.9	46
284	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

283	Bromination of [60]Fullerene. I. High-Yield Synthesis of C60Br x (x=6, 8, 24). <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2003 , 11, 47-60	1.8	45
282	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
281	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
280	ESR spectroscopy for monitoring the photochemical and thermal degradation of conjugated polymers used as electron donor materials in organic bulk heterojunction solar cells. <i>Chemical Communications</i> , 2015 , 51, 2242-4	5.8	44
279	Suppressing photooxidation of conjugated polymers and their blends with fullerenes through nickel chelates. <i>Energy and Environmental Science</i> , 2017 , 10, 2005-2016	35.4	44
278	Material solubility and molecular compatibility effects in the design of fullerene/polymer composites for organic bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18433		42
277	Light-induced generation of free radicals by fullerene derivatives: an important degradation pathway in organic photovoltaics?. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8044-8050	13	41
276	Arbuzov chemistry with chlorofullerene C60Cl6: a powerful method for selective synthesis of highly functionalized [60]fullerene derivatives. <i>Chemical Communications</i> , 2012 , 48, 8916-8	5.8	41
275	C60F18O, the first characterisedintramolecular fullerene ether. Chemical Communications, 2000, 1325-	13,286	41
274	Polymeric iodobismuthates {[Bi3110]} 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
273	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
272	Impedance Measurements as a Simple Tool to Control the Quality of Conjugated Polymers Designed for Photovoltaic Applications. <i>Advanced Functional Materials</i> , 2010 , 20, 4351-4357	15.6	39
271	New pyrrolidine and pyrroline derivatives of fullerenes: from the synthesis to the use in light-converting systems. <i>Russian Chemical Bulletin</i> , 2008 , 57, 887-912	1.7	37
270	Synthese und Struktur des hoch chlorierten [60]Fullerens C60Cl30 mit trommelffimigem Kohlenstoffkfig. <i>Angewandte Chemie</i> , 2005 , 117, 238-241	3.6	37
269	Photoaddition of N-substituted piperazines to C60: an efficient approach to the synthesis of water-soluble fullerene derivatives. <i>Chemistry - A European Journal</i> , 2006 , 12, 5569-77	4.8	35
268	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
267	Design of (X-DADAD)n Type Copolymers for Efficient Bulk Heterojunction Organic Solar Cells. <i>Macromolecules</i> , 2015 , 48, 2013-2021	5.5	33
266	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

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265	Statistical carbazole-fluorene-TTBTBTT terpolymers as promising electron donor materials for organic solar cells. <i>Chemical Communications</i> , 2015 , 51, 7562-4	5.8	32	
264	Towards understanding the behavior of indigo thin films in organic field-effect transistors: a template effect of the aliphatic hydrocarbon dielectric on the crystal structure and electrical performance of the semiconductor. <i>Chemical Communications</i> , 2014 , 50, 7639-41	5.8	32	
263	Spatially-resolved nanoscale measurements of grain boundary enhanced photocurrent in inorganic CsPbBr3 perovskite films. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 171, 205-212	6.4	32	
262	Carboxylic Fullerene C60 Derivatives: Efficient Microbicides Against Herpes Simplex Virus And Cytomegalovirus Infections In Vitro. <i>Mendeleev Communications</i> , 2012 , 22, 254-256	1.9	32	
261	Some New Aspects of Chlorination of Fullerenes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2003 , 11, 165-185	1.8	32	
260	ESR spectroscopy as a powerful tool for probing the quality of conjugated polymers designed for photovoltaic applications. <i>Chemical Communications</i> , 2015 , 51, 2239-41	5.8	31	
259	Photovoltaic performance of PPE-PPV copolymers: effect of the fullerene component. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2356-2361		30	
258	Self-assembly of thiophene- and furan-appended methanofullerenes with poly(3-hexylthiophene) in organic solar cells. <i>ChemSusChem</i> , 2010 , 3, 356-66	8.3	30	
257	Synthesis of Fullerenols from Halofullerenes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 13, 331-343	1.8	30	
256	A zeta potential value determines the aggregate's size of penta-substituted [60]fullerene derivatives in aqueous suspension whereas positive charge is required for toxicity against bacterial cells. <i>Journal of Nanobiotechnology</i> , 2015 , 13, 50	9.4	29	
255	Morphology evaluation of a polymerfullerene bulk heterojunction ensemble generated by the fullerene derivatization. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15987		29	
254	Fullerene solubilityflurrent density relationship in polymer solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 263-265	2.5	29	
253	Organic solar cells: Structure, materials, critical characteristics, and outlook. <i>Nanotechnologies in Russia</i> , 2008 , 3, 242-271	0.6	29	
252	Unraveling the Impact of Hole Transport Materials on Photostability of Perovskite Films and p-i-n Solar Cells. <i>ACS Applied Materials & Discrete Solar Cells</i> . 12, 19161-19173	9.5	28	
251	C2 C70F38 is aromatic, contains three planar hexagons, and has equatorial addends. <i>Chemical Communications</i> , 2005 , 75-7	5.8	28	
250	Understanding the correlation and balance between the miscibility and optoelectronic properties of polymer f ullerene solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17570-17579	13	27	
249	Hydrazinium-loaded perovskite solar cells with enhanced performance and stability. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18378-18382	13	26	
248	Isolation and spectroscopic characterisation of C60F17CF2CF3 and isomers of C60F17CF3; insertion of :CF2 into fluorofullerene CE bonds. <i>Perkin Transactions II RSC</i> , 2000 , 2410-2414		26	

247	Efficient and Stable MAPbI-Based Perovskite Solar Cells Using Polyvinylcarbazole Passivation. Journal of Physical Chemistry Letters, 2020 , 11, 6772-6778	6.4	26
246	Toxic and DNA damaging effects of a functionalized fullerene in human embryonic lung fibroblasts. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2016 , 805, 46-57	3	26
245	A strong influence of the positions of solubilizing alkyl side chains on optoelectronic and photovoltaic properties of TTBTBTT-based conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1497-1506	7.1	24
244	Highly Regio- and Stereoselective [2+3] Cycloadditions of Azomethine Ylides to [70]Fullerene. <i>European Journal of Organic Chemistry</i> , 2007 , 2007, 5861-5866	3.2	24
243	Synthesis and investigation of fullerene-based acceptor materials. <i>Mendeleev Communications</i> , 2007 , 17, 175-177	1.9	24
242	Ray-Induced Degradation in the Triple-Cation Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 813-818	6.4	24
241	Structural origins of capacity fading in lithium-polyimide batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6532-6537	13	23
240	Organic Field-effect Transistors based on Disubstituted Perylene Diimides: Effect of Alkyl Chains on the Device Performance. <i>Mendeleev Communications</i> , 2014 , 24, 306-307	1.9	23
239	The Activity of [60]Fullerene Derivatives Bearing Amine and Carboxylic Solubilizing Groups againstEscherichia coli: A Comparative Study. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-9	3.2	23
238	Preparation and spectroscopic properties of chlorofullerenes C60Cl24, C60Cl28, and C60Cl30. <i>Carbon</i> , 2006 , 44, 2770-2777	10.4	23
237	OFET-Based Memory Devices Operating via Optically and Electrically Modulated Charge Separation between the Semiconductor and 1,2-bis(Hetaryl)ethene Dielectric Layers. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500219	6.4	23
236	Exploring the Photovoltaic Performance of All-Inorganic AgPbI/PbI Blends. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1651-1656	6.4	22
235	Improved Photovoltaic Performance of PPV-Based Copolymers Using Optimized Fullerene-Based Counterparts. <i>Advanced Energy Materials</i> , 2013 , 3, 161-166	21.8	22
234	Fullerene derivatives as a new class of inhibitors of protein tyrosine phosphatases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 3175-9	2.9	22
233	Hybrid photoactive fullerene derivative-ruboxyl nanostructures for photodynamic therapy. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 4397-404	3.9	22
232	3D quater- and quinquethiophenesilanes as promising electron-donor materials for BHJ photovoltaic cells and photodetectors. <i>Energy and Environmental Science</i> , 2010 , 3, 1941	35.4	22
231	C1 C70F38 contains four planar aromatic hexagons; the parallel between fluorination of [60]- and [70]fullerenes. <i>Organic Letters</i> , 2005 , 7, 1975-8	6.2	22
230	Reversible Pb2+/Pb0 and I\(\mathbb{I}\) 3 Redox Chemistry Drives the Light-Induced Phase Segregation in All-Inorganic Mixed Halide Perovskites. Advanced Energy Materials, 2021, 11, 2002934	21.8	22

229	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
228	Biomimetic Approach to Inhibition of Photooxidation in Organic Solar Cells Using Beta-Carotene as an Additive. <i>ACS Applied Materials & Samp; Interfaces</i> , 2019 , 11, 41570-41579	9.5	21
227	[C60(CN)5][IA Remarkably Stable [60]Fullerene Anion. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 3265-3268	3.2	21
226	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
225	Reversible and Irreversible Electric Field Induced Morphological and Interfacial Transformations of Hybrid Lead Iodide Perovskites. <i>ACS Applied Materials & Empty Interfaces</i> , 2017 , 9, 33478-33483	9.5	20
224	Efficient and stable all-inorganic perovskite solar cells based on nonstoichiometric CsxPbI2Brx (x > 1) alloys. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5314-5323	7.1	20
223	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
222	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
221	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
220	Synthesis of different types of alkoxy fullerene derivatives from chlorofullerene CCl. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 773-777	3.9	20
219	Penetration of Fullerene C60 Derivatives Through Biological Membranes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008 , 16, 89-102	1.8	20
218	Reactions of chlorofullerene C60Cl6 with N-substituted piperazines. <i>Tetrahedron</i> , 2006 , 62, 10147-101	52.4	20
217	Organic-based active electrode materials for potassium batteries: status and perspectives. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17296-17325	13	19
216	Photoluminescence Studies on the Supramolecular Interactions Between a Pyrollidinofullerene and Zinc-Phthalocyanine Used in Organic Solar Cells. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006 , 14, 441-446	1.8	19
215	High LUMO energy pyrrolidinofullerenes as promising electron-acceptor materials for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11612-11617	7.1	18
214	Unravelling the Material Composition Effects on the Gamma Ray Stability of Lead Halide Perovskite Solar Cells: MAPbI Breaks the Records. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2630-2636	6.4	18
213	Material solubility effects in bulk heterojunction solar cells based on the bis-cyclopropane fullerene adducts and P3HT. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 30-36	6.4	18
212	Non-covalent complexes of polycationic fullerene C60 derivative with xanthene dyes [Spectral and photochemical properties in water and in liposomes. <i>Dyes and Pigments</i> , 2017 , 139, 65-72	4.6	18

211	Quaterthiophene-based multipods as promising materials for solution-processible organic solar cells and field effect transistors. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2064-2072	6.4	18
210	Benzylamine imines as versatile precursors to azomethine and nitrile ylides in the [2 + 3] cycloaddition reactions with [60]fullerene. <i>Mendeleev Communications</i> , 2007 , 17, 116-118	1.9	18
209	Efficient 2 + 3 Cycloaddition Approach to Synthesis of Pyridinyl Based [60]Fullerene Ligands. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2005 , 12, 413-419	1.8	18
208	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
207	Synthesis of the (X-DADAD) n -type conjugated polymers with 2,1,3-benzoxadiazole acceptor blocks and their application in organic solar cells. <i>Tetrahedron Letters</i> , 2017 , 58, 97-100	2	17
206	An environment-friendly approach to produce nanostructured germanium anodes for lithium-ion batteries. <i>Green Chemistry</i> , 2020 , 22, 359-367	10	17
205	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, 11758-117	7 6 78	16
204	New Naphthalene-Based Polyimide as an Environment-Friendly Organic Cathode Material for Lithium Batteries. <i>Energy Technology</i> , 2019 , 7, 1801016	3.5	16
203	Molecular structure electrical performance relationship for OFET-based memory elements comprising unsymmetrical photochromic diarylethenes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6889-	-6 7 894	16
202	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
201	Synthesis and biological activity of a novel water-soluble methano[60]fullerene tetracarboxylic derivative. <i>Mendeleev Communications</i> , 2013 , 23, 323-325	1.9	16
200	High-Performing Polycarbazole Derivatives for Efficient Solution-Processing of Organic Solar Cells in Air. <i>ChemSusChem</i> , 2015 , 8, 4209-15	8.3	16
199	Characterization of reactions of fullerene C60 with bromine. Crystal structures of bromofullerenes C60Br6, C60Br6[CS2, C60Br8[CHBr3[2Br2, and C60Br24[1C6H4Cl2[Br2. Russian Chemical Bulletin, 2004, 53, 2787-2792	1.7	16
198	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
197	Influence of water-soluble derivatives of [60]fullerene on therapeutically important targets related to neurodegenerative diseases. <i>MedChemComm</i> , 2014 , 5, 1664-1668	5	15
196	Cyclopentadithiophene E luorene Copolymer for Organic Solar Cells and Light Emitting Diodes. <i>Mendeleev Communications</i> , 2013 , 23, 26-28	1.9	15
195	Positive side of disorder: Statistical fluorene-carbazole-TTBTBTT terpolymers show improved optoelectronic and photovoltaic properties compared to the regioregular structures. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 160, 346-354	6.4	15
194	Trannulenes: a new class of photoactive materials for organic photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7738		15

193	Donor Cceptor complex formation in evaporated small molecular organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 803-811	6.4	15
192	MOLECULAR AND CRYSTAL STRUCTURE OF THE ADDUCTS OF C60F18 WITH AROMATIC HYDROCARBONS. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2002 , 10, 243-259	1.8	15
191	XPS spectra as a tool for studying photochemical and thermal degradation in APbX3 hybrid halide perovskites. <i>Nano Energy</i> , 2021 , 79, 105421	17.1	15
190	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
189	Photodynamic activity of a hybrid nanostructure based on a polycationic fullerene derivative and phthalocyanine dye photosens. <i>Doklady Physical Chemistry</i> , 2013 , 452, 229-232	0.8	14
188	Material structure-composite morphology-photovoltaic performance relationship for organic bulk heterojunction solar cells. <i>Chemical Communications</i> , 2012 , 48, 9477-9	5.8	14
187	Chemical and electrochemical reduction of the highly chlorinated fullerenes C60Cl24 and C60Cl30. <i>Mendeleev Communications</i> , 2006 , 16, 206-208	1.9	14
186	The effect of the fluorine loading on the optoelectronic and photovoltaic properties of (X-DADAD-)n-type donor ceptor copolymers with the benzothiadiazole A units. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700087	2.5	13
185	Impressive Radiation Stability of Organic Solar Cells Based on Fullerene Derivatives and Carbazole-Containing Conjugated Polymers. <i>ACS Applied Materials & Design Containing Conjugated Polymers</i> . <i>ACS Applied Materials & Design Containing Conjugated Polymers</i> .	1748	13
184	Design of novel thiazolothiazole-containing conjugated polymers for organic solar cells and modules. <i>Solar Energy</i> , 2020 , 198, 605-611	6.8	13
183	Polycarboxylic fullerene derivatives as protein tyrosine phosphatase inhibitors. <i>Mendeleev Communications</i> , 2015 , 25, 199-201	1.9	13
182	The effect of fullerene derivative on polaronic charge transfer in poly(3-hexylthiophene)/fullerene compound. <i>Journal of Chemical Physics</i> , 2008 , 128, 164715	3.9	13
181	Novel synthetic route to fluorofullerenes: reaction with binary and complex lead fluorides. <i>Journal of Fluorine Chemistry</i> , 2001 , 110, 157-163	2.1	13
180	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
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30	Influence of pyridine-based ligands on photostability of MAPbI3 thin films. <i>Mendeleev Communications</i> , 2021 , 31, 319-322	1.9	1
29	Thin films of MAPbI3 and MA0.15FA0.75Cs0.1PbI3 perovskites under femtosecond laser irradiation: nonlinear optical absorption and kinetics of photodegradation. <i>Mendeleev Communications</i> , 2021 , 31, 456-458	1.9	1
28	Novel functionalized indigo derivatives for organic electronics. <i>Dyes and Pigments</i> , 2021 , 186, 108966	4.6	1
27	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
26	Self-Diffusion of Fullerene 80 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, 285-297	ı ^{0.7}	1
25	Application of SERS and SEF Spectroscopy for Detection of Water-Soluble Fullerene@hlorin Dyads and Chlorin e6. <i>Doklady Physical Chemistry</i> , 2018 , 481, 95-99	0.8	1
24	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
23	Exploring CsPbI3 IFAI alloys: Introducing low-dimensional Cs2FAPb2I7 absorber for efficient and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 426, 131754	14.7	1
22	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	O
21	High-capacity polymer electrodes for potassium batteries. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 3044-3050	13	O
20	Octahydroxytetraazapentacenedione: New organic electrode material for fast and stable potassium batteries. <i>Journal of Power Sources</i> , 2022 , 517, 230711	8.9	O
19	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	O
18	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	O
17	The Effect of Electrolyte Composition on the Parameters of Batteries of the Polyimidellithium System. <i>Russian Journal of Electrochemistry</i> , 2021 , 57, 725-732	1.2	0
16	Ammonia gas sensors using 1,4,5,8,9,11-hexaazatriphenylene hexacarbonitrile semiconductor films. <i>Synthetic Metals</i> , 2021 , 277, 116764	3.6	O
15	Influence of water-soluble derivatives of [60]fullerene on catalytic activity of monoaminloxidase B and their membranotropic properties. <i>Russian Chemical Bulletin</i> , 2016 , 65, 784-789	1.7	О
14	Spectacular Enhancement of the Thermal and Photochemical Stability of MAPbI3 Perovskite Films Using Functionalized Tetraazaadamantane as a Molecular Modifier. <i>Energies</i> , 2021 , 14, 669	3.1	O

LIST OF PUBLICATIONS

13	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	О
12	Influence of Oxygen Ion Migration from Substrates on Photochemical Degradation of CH3NH3PbI3 Hybrid Perovskite. <i>Energies</i> , 2021 , 14, 5062	3.1	0
11	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	О
10	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	
9	Electrochemistry of methanofullerenes embedded in hydrophobic ammonium cation films. <i>Russian Journal of Electrochemistry</i> , 2013 , 49, 324-335	1.2	
8	Dynamic characteristics of organic bulk-heterojunction solar cells. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , 2010 , 57, 1119-1124	0.8	
7	Enhanced Raman scattering provided by fullerene nanoclusters 2010 , 87, 133		
6	Influence of pyridine-based ligands on photostability of MAPbI3 thin films. <i>Mendeleev Communications</i> , 2021 , 31, 319-322	1.9	
5	Genotoxic Effect of a New Water-Soluble Fullerene Derivative C70 and its Effect on the Transcriptional Activity of Genes that Regulate the Cell Cycle, DNA Repair and Apoptosis. <i>Materials Science Forum</i> ,1031, 222-227	0.4	
4	Pyrrolidino[2,1日]phthalazino[60]fullerenes: A New Family of Fullerene Derivatives for Photovoltaic Applications. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100181	2.5	
3	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	
2	Water-soluble C70 fullerene derivative as a regulator of the reactive oxygen species level in cultured human cells. <i>Integrativna</i> [Fiziologi [12021, 2, 463-470]	0.2	
1	Nickel tetrathiooxalate as a cathode material for potassium batteries. <i>Mendeleev Communications</i> , 2022 , 32, 226-227	1.9	