

Valerii Shirinian

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.

115
papers

1,290
citations

19
h-index

27
g-index

146
ext. papers

1,484
ext. citations

3.1
avg, IF

4.7
L-index

#	Paper	IF	Citations
115	Photoinduced Skeletal Rearrangement of Diarylethenes: Photorelease of Lewis Acid and Synthetic Applications. <i>Journal of Organic Chemistry</i> , 2021 , 86, 16806-16814	4.2	1
114	Photocontrollable Modulation of Frontier Molecular Orbital Energy Levels of Cyclopentenone-Based Diarylethenes. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 3681-3688	2.8	0
113	Cyclization of Polarized Divinyl Ketones under Aqueous and Ambient Conditions. <i>Advanced Synthesis and Catalysis</i> , 2021 , 363, 251-258	5.6	0
112	Light-driven photoswitching of quinazoline analogues of combretastatin A-4 as an effective approach for targeting skin cancer cells. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 7670-7677	3.9	1
111	Photocyclization of Diarylethenes: The Effect of Electron and Proton Acceptors as Additives. <i>Journal of Organic Chemistry</i> , 2021 , 86, 10023-10031	4.2	2
110	Solvent dependent photoswitching and emission of diarylethenes with a π -conjugated push-pull system. <i>Journal of Luminescence</i> , 2021 , 118472	3.8	1
109	Photochemical rearrangement of diarylethenes: synthesis of functionalized phenanthrenes. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 3098-3103	3.9	7
108	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
107	Fe(iii)-Catalyzed synthesis of steroidal imidazoheterocycles as potent antiproliferative agents. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 5571-5576	3.9	15
106	Primary processes in photochemistry of 2,3-bis(2,5-dimethylthiophen-3-yl)cyclopent-2-enone. <i>Mendeleev Communications</i> , 2020 , 30, 61-63	1.9	1
105	Mechanism of photochromic transformations and photodegradation of an asymmetrical 2,3-diarylcyclopentenone. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 5220-5228	3.6	5
104	Reversible Shifting of a Chemical Equilibrium by Light: The Case of Keto-Enol Tautomerism of a π -Ketoester. <i>Organic Letters</i> , 2020 , 22, 604-609	6.2	5
103	Synthesis and photorearrangement of furanone diarylethenes with an additional π -system. <i>Tetrahedron Letters</i> , 2020 , 61, 152277	2	1
102	Novel d-Annulated Pentacyclic Steroids: Regioselective Synthesis and Biological Evaluation in Breast Cancer Cells. <i>Molecules</i> , 2020 , 25,	4.8	3
101	Post-Modification of the Ethene Bridge in the Rational Design of Photochromic Diarylethenes. <i>Chemical Record</i> , 2020 , 20, 51-63	6.6	14
100	Recent Advances in the Interrupted Nazarov Reaction. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 702-723	5.23	19
99	1,2-Bis- and 1,2,3-tris(2,5-dimethylthiophen-3-yl)azulenes: Synthesis, structure and properties. <i>Dyes and Pigments</i> , 2020 , 172, 107843	4.6	2

98	Fluorescence modulation of eosin Y in a PMMA film by diarylethene switching. <i>Mendeleev Communications</i> , 2019 , 29, 285-287	1.9	3
97	Photocyclization of diarylethenes: the effect of imidazole on the oxidative photodegradation process. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 1101-1109	4.2	11
96	Dialkylation of Ethyl 4-(Het)aryl-3-oxobutanoates as a Route to 5-(2-Oxoethyl)cyclopentenones. <i>Synlett</i> , 2019 , 30, 1321-1323	2.2	
95	Molecular structure-Electrical 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
94	Photorearrangement of dihetarylethenes as a tool for the benzannulation of heterocycles. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 4990-5000	3.9	12
93	Novel steroidal 1,3,4-thiadiazines: Synthesis and biological evaluation in androgen receptor-positive prostate cancer 22Rv1 cells. <i>Bioorganic Chemistry</i> , 2019 , 91, 103142	5.1	7
92	Photochromic diarylethene ligands featuring 2-(imidazol-2-yl)pyridine coordination site and their iron(II) complexes. <i>Beilstein Journal of Organic Chemistry</i> , 2019 , 15, 2428-2437	2.5	3
91	Modulation of diarylethene fluorescence by photochromic switching and solvent polarity. <i>Mendeleev Communications</i> , 2019 , 29, 564-566	1.9	3
90	Photoswitching off the Antiproliferative Activity of Combretastatin A-4 Analogues. <i>Organic Letters</i> , 2019 , 21, 9608-9612	6.2	8
89	Practical Deoxygenation of Oxazole N-Oxides by PCl ₃ /Collidine. <i>Synthesis</i> , 2019 , 51, 414-420	2.9	
88	Synthesis of Benzo[4,5]imidazo[2,1-b]thiazole by Copper(II)-Catalyzed Thioamination of Nitroalkene with 1H-Benzo[d]imidazole-2-thiol. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 2402-2408	5.6	18
87	Metal-free C-H arylation of imidazoheterocycles with aryl hydrazines.. <i>RSC Advances</i> , 2018 , 8, 12360-12367	6.7	18
86	Synthesis and Antiproliferative Activity Evaluation of Aryl(Hetaryl)Cyclopentenone Analogs of Combretastatin A-4. <i>Pharmaceutical Chemistry Journal</i> , 2018 , 51, 867-872	0.9	4
85	Azole-based diarylethenes as the next step towards advanced photochromic materials. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2018 , 36, 1-23	16.4	39
84	A novel formulation of zolpidem for direct nose-to-brain delivery: synthesis, encapsulation and intranasal administration to mice. <i>Journal of Pharmacy and Pharmacology</i> , 2018 , 70, 1164-1173	4.8	8
83	Synthesis and evaluation of the antiproliferative activity of benzylidenes of 16-dehydroprogesterone series. <i>Steroids</i> , 2018 , 138, 91-101	2.8	8
82	Mechanistic Aspects of Photoinduced Rearrangement of 2,3-Diarylcyclopentenone Bearing Benzene and Oxazole Moieties. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 7107-7117	2.8	12
81	Spectral properties and structure of unsymmetrical diarylethenes based on thiazole ring with hydrogen at the reactive carbon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 203, 348-356	4.4	2

80	Pinacol rearrangement of cyclopent-3-en-1,2-diols: Cyclopentenone formation and interrupting reaction. <i>Tetrahedron Letters</i> , 2018 , 59, 243-246	2	4
79	Mesoporous particle-based microcontainers for intranasal delivery of imidazopyridine drugs. <i>Journal of Microencapsulation</i> , 2018 , 35, 657-666	3-4	7
78	Condensation of 5-hydroxy-2-methyl-4H-pyran-4-one with arylglyoxals. Synthesis and properties of 2-aryl-1-(3-hydroxy-6-methyl-4-oxo-4H-pyran-2-yl)ethane-1,2-diones. <i>Russian Chemical Bulletin</i> , 2018 , 67, 1873-1877	1.7	6
77	Structural and Spectral Properties of Photochromic Diarylethenes: Size Effect of the Ethene Bridge. <i>Journal of Organic Chemistry</i> , 2017 , 82, 1477-1486	4.2	16
76	Steroidal Pyrimidines and Dihydrotriazines as Novel Classes of Anticancer Agents against Hormone-Dependent Breast Cancer Cells. <i>Frontiers in Pharmacology</i> , 2017 , 8, 979	5.6	27
75	Photochemical Rearrangement of Diarylethenes: Reaction Efficiency and Substituent Effects. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8651-8661	4.2	17
74	Aerobic Dimerization of Ethyl 4-Thienyl-3-ketobutanoate toward a Modifiable Photochromic Diarylethene Precursor. <i>Organic Letters</i> , 2017 , 19, 4395-4398	6.2	10
73	Synthesis of Imidazo[2,1-b]thiazoles via Copper-Catalyzed A-Coupling in Batch and Continuous Flow. <i>Journal of Organic Chemistry</i> , 2017 , 82, 9682-9692	4.2	29
72	Practical and Efficient Synthesis of Polyaryl(hetaryl)-Substituted Cyclohexenones and Salicylates. <i>Synthesis</i> , 2017 , 49, 1255-1263	2.9	5
71	Photoinduced Rearrangements of Diarylethenes. <i>Chemistry of Heterocyclic Compounds</i> , 2016 , 52, 658-665.4	5.4	23
70	Synthesis and antiproliferative activity evaluation of steroidal imidazo[1,2-a]pyridines. <i>Steroids</i> , 2016 , 113, 29-37	2.8	25
69	Facile synthesis of photoactive diaryl(hetaryl)cyclopentenones by ionic hydrogenation. <i>RSC Advances</i> , 2016 , 6, 59016-59020	3.7	12
68	Photo- and PH-switchable fluorescent diarylethenes based on 2,3-diarylcyclopent-2-en-1-ones with dialkylamino groups. <i>Dyes and Pigments</i> , 2016 , 124, 258-267	4.6	14
67	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
66	Triaryl-Substituted Divinyl Ketones Cyclization: Nazarov Reaction versus Friedel-Crafts Electrophilic Substitution. <i>Organic Letters</i> , 2016 , 18, 6260-6263	6.2	11
65	Photochromic properties of polycrystals: 2,3-diarylcyclopentenone and its adduct with a metal-organic coordination polymer. <i>Journal of Structural Chemistry</i> , 2016 , 57, 1216-1224	0.9	5
64	Photochromic and Magnetic Nanocomposites Based on Epoxy and Polycarbonate Matrices. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016 , 26, 1320-1327	3.2	1
63	Kinetics and mechanism of photochromic transformations of a 2,3-diarylcyclopentenone. <i>Kinetics and Catalysis</i> , 2015 , 56, 316-322	1.5	7

62	Synthesis of new merocyanine dyes of thiophene series. <i>Mendeleev Communications</i> , 2015 , 25, 262-263	1.9	5
61	Synthesis of new photochromic diarylethenes of cyclopentenone series by Nazarov reaction. <i>Chemistry of Heterocyclic Compounds</i> , 2015 , 51, 234-241	1.4	11
60	General Photoinduced Sequential Electrocyclization/[1,9]-Sigmatropic Rearrangement/Ring-Opening Reaction of Diarylethenes. <i>Journal of Organic Chemistry</i> , 2015 , 80, 11491-11500	4.2	33
59	Novel photochromic diarylethenes bearing an imidazole moiety. <i>Tetrahedron Letters</i> , 2015 , 56, 5477-5481	1.4	15
58	Copper(II)-Mediated Aerobic Synthesis of Imidazo[1,2-a]pyridines via Cascade Aminomethylation/Cycloisomerization of Alkynes. <i>Journal of Organic Chemistry</i> , 2015 , 80, 11212-8	4.2	46
57	A convenient alternative method for the synthesis of dithienylacetylenes. <i>Chemistry of Heterocyclic Compounds</i> , 2015 , 51, 933-935	1.4	5
56	Synthesis and comparative photoswitching studies of unsymmetrical 2,3-diarylcylopent-2-en-1-ones. <i>Journal of Organic Chemistry</i> , 2014 , 79, 3440-51	4.2	37
55	Synthesis and spectral properties of 3-(2-aryl-5-methyl-1,3-oxazol-4-yl)-2-(2,5-dimethylthiophen-3-yl)cyclopent-2-en-1-ones. <i>Mendeleev Communications</i> , 2014 , 24, 277-279	1.9	10
54	Photoinduced skeletal rearrangement of diarylethenes comprising oxazole and phenyl rings. <i>Organic Letters</i> , 2014 , 16, 4532-5	6.2	40
53	Synthesis and spectral properties of fluorescent photochromic diarylethenes with 6,6a-dihydropentalene-2(1H)-one ethene Bridge. <i>Dyes and Pigments</i> , 2014 , 109, 105-112	4.6	9
52	Fluorescent photochromes of diarylethene series: synthesis and properties. <i>Russian Chemical Reviews</i> , 2013 , 82, 511-537	6.8	37
51	Synthesis and spectral properties of photochromic cyclopentenone diarylethenes with an additional system in the ethene bridge. <i>Mendeleev Communications</i> , 2013 , 23, 268-270	1.9	18
50	New fluorescent switches based on photochromic 2,3-diarylcylopent-2-en-1-ones and 6-ethoxy-3-methyl-1H-phenalen-1-one. <i>Dyes and Pigments</i> , 2013 , 97, 311-317	4.6	27
49	Synthesis and photochromic properties of oxime derivatives of 2,3-diarylcylopent-2-en-1-ones. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 1717-25	4.2	19
48	Synthesis of E- and Z-isomeric progesterone 3-O-methyloximes. <i>Russian Chemical Bulletin</i> , 2013 , 62, 2086-2087	1.7	3
47	Synthesis and spectral properties of a novel family of photochromic diarylethenes-2,3-diarylcylopent-2-en-1-ones. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012 , 233, 1-14	4.7	54
46	Regio- and chemoselective bromination of 2,3-diarylcylopent-2-en-1-ones. <i>Journal of Organic Chemistry</i> , 2012 , 77, 8112-23	4.2	33
45	New thermally stable photochromic di(het)arylethenes of the cyclopentenone series. <i>Russian Chemical Bulletin</i> , 2012 , 61, 1769-1775	1.7	7

44	Convenient synthesis of diarylpropargyl alcohols. <i>Mendeleev Communications</i> , 2011 , 21, 339-340	1.9	3
43	Spectrokinetic study of photochromic transformations of spironaphthopyran metal complexes. <i>Russian Journal of Physical Chemistry B</i> , 2011 , 5, 461-464	1.2	1
42	Acylation of Meldrum's acid with arylacetic acid imidazolides as a convenient method for the synthesis of 4-aryl-3-oxobutanoates. <i>Russian Chemical Bulletin</i> , 2011 , 60, 139-142	1.7	20
41	7-Nitro- and 7-aminosubstituted spiropyran of 1-benzothieno[3,2-b]pyrrole. <i>Dyes and Pigments</i> , 2010 , 84, 19-24	4.6	10
40	Synthesis and spectral kinetic study of photoinduced processes of photochromic nitro-substituted indoline and benzothienopyrroline spiropyran in solutions. <i>Russian Chemical Bulletin</i> , 2010 , 59, 828-832	1.7	6
39	Photochromic composites based on porous stretched polyethylene filled by nematic liquid crystal mixtures. <i>Polymers for Advanced Technologies</i> , 2010 , 21, 100-112	3.2	8
38	Efficient Methods for the Synthesis of Thieno[3,2-b]thiophene and Thieno[3,2-b]furan Derivatives. <i>Synthesis</i> , 2009 , 2009, 3803-3806	2.9	2
37	Synthesis of spiropyran and merocyanine dyes based on 1-benzothieno[3,2-b]pyrrole. <i>Russian Chemical Bulletin</i> , 2009 , 58, 380-386	1.7	5
36	Novel photochromic spirocyclic compounds of thienopyrroline series: 2. Spirooxazines. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 206, 116-123	4.7	11
35	Merocyanines: Synthesis and Application. <i>Topics in Heterocyclic Chemistry</i> , 2008 , 75-105	0.2	38
34	New photosensitive polymer composites based on oriented porous polyethylene filled with azobenzene-containing LC mixture: reversible photomodulation of dichroism and birefringence. <i>Liquid Crystals</i> , 2008 , 35, 533-539	2.3	32
33	Novel photochromic spirocyclic compounds of thienopyrroline series: 1. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 189, 161-166	4.7	18
32	Novel photochromic spiro compounds based on thieno[3,2-b]pyrroles. <i>Journal of Physical Organic Chemistry</i> , 2007 , 20, 845-850	2.1	3
31	Fischer Synthesis of 1H- and 3H-[1]Benzothieno[3,2-b]pyrroles. <i>Synthesis</i> , 2007 , 2007, 2706-2710	2.9	2
30	Photo-optical properties of polymer composites based on stretched porous polyethylene filled with photoactive cholesteric liquid crystal. <i>Liquid Crystals</i> , 2007 , 34, 791-797	2.3	7
29	Isomerization of 3H- to 2H-[1]Benzothieno[3,2-b]pyrroles and Synthesis of the First Merocyanine Dyes Based on Them. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 2087-2092	3.2	26
28	A Study of the Photoorientation Phenomena in Cholesteric Polymer Systems Containing Photochromic Diarylethene Derivatives. <i>Macromolecular Chemistry and Physics</i> , 2006 , 207, 770-778	2.6	7
27	Synthesis and Spectral Properties of Fluorescent Dithienylmaleimides. <i>Bulletin of the Chemical Society of Japan</i> , 2006 , 79, 889-893	5.1	12

26	Synthesis and Photochromism of Dihetarylethenes and Spiro Compounds based on Thiophene Derivatives. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 431, 329-335	0.5	4
25	Synthesis of Novel Photochromic Spiro Compounds based on Thieno[3,2-b]Pyrroles. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 431, 307-313	0.5	4
24	A comparative study of the spectral and kinetic properties of photochromic dihetarylethenes based on maleic anhydride and maleimide. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2005 , 99, 573	0.7	8
23	Synthesis of 4-hetaryl-5,6-(2,5-dimethyl-3-thienyl)-2-phenyl-4h-thiazines and investigation of their photochromism. <i>Chemistry of Heterocyclic Compounds</i> , 2005 , 41, 86-92	1.4	6
22	Synthesis of thieno[3.2-b]pyrrolenine derivatives under the Fischer reaction conditions. <i>Russian Chemical Bulletin</i> , 2005 , 54, 738-742	1.7	4
21	Dithienylthiazines from Dithienylacetylenes. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2005 , 180, 1503-1504	1	1
20	Synthesis and structure of spirooxazines of the thieno[3,2-b]pyrroline series. <i>Arkivoc</i> , 2005 , 2005, 72-81	0.9	8
19	Synthesis of photochromic 2,3-bis(2,5-dimethyl-3-thienyl)-3-cyanoacrylates by the Beckmann rearrangement of a cyclobutenedione derivative. <i>Mendeleev Communications</i> , 2004 , 14, 202-204	1.9	5
18	Regioselective C-alkylation of alkyl 4-hydroxy-2-methylthiophene-3-carboxylates with halo ketones. <i>Russian Chemical Bulletin</i> , 2004 , 53, 631-634	1.7	3
17	Synthesis of first spiropyrans and spirooxazines based on thieno[3,2-b]pyrroles. <i>Russian Chemical Bulletin</i> , 2004 , 53, 720-721	1.7	7
16	Synthesis of 4-aryl-2,6,6-trimethyl-5-oxo-5,6-dihydro-4H-thieno[3,2-b]pyrroles. <i>Russian Chemical Bulletin</i> , 2003 , 52, 1873-1876	1.7	2
15	A New Approach to the Synthesis of Dithienylethanediones and Dithienylacetylenes. <i>Chemistry of Heterocyclic Compounds</i> , 2003 , 39, 1570-1579	1.4	12
14	Photochromic dihetarylethenes. 13. Optimization of conditions for the acylation of 2,5-dimethylthiophene with squaric acid dichloride. <i>Russian Chemical Bulletin</i> , 2002 , 51, 1510-1514	1.7	6
13	Photochromic dihetarylethenes. 14. Synthesis of symmetrical and unsymmetrical dihetarylcyclobutene-1,2-diones. <i>Russian Chemical Bulletin</i> , 2002 , 51, 1515-1518	1.7	13
12	Photochromic Dihetarylethenes: XVII. New Synthesis of Photochromic N-Alkyldithienylmaleimides. <i>Russian Journal of Organic Chemistry</i> , 2002 , 38, 1335-1338	0.7	16
11	Photochromic Dihetarylethenes: XVI. Synthesis of 1,2-Dihetarylethenes on the Basis of Thieno[3,2-b]pyrrole. <i>Russian Journal of Organic Chemistry</i> , 2002 , 38, 1331-1334	0.7	8
10	A novel transformation of 2-acetylthiophene and its halogen derivatives under Vilsmeier reaction conditions. <i>Mendeleev Communications</i> , 2002 , 12, 19-20	1.9	0
9	Synthesis of photochromic derivatives of cyclobutene-1,2-dione. <i>Mendeleev Communications</i> , 2002 , 12, 141-143	1.9	17

- 8 Photochromic Dihetarylethenes. 8. A Novel Route to the Synthesis of 3,4-Bis(2,5-dimethyl-3-thienyl)furan-2,5-dione as a Potential Photochrome. *Chemistry of Heterocyclic Compounds*, **2001**, 37, 77-84 1.4 6
- 7 Novel synthesis of 2-arylbenzothiazoles. *Russian Chemical Bulletin*, **2000**, 49, 1859-1862 1.7 9
- 6 Friedel-crafts acylation of 2,5-dimethylthiophene in the presence of pyridine. *Chemistry of Heterocyclic Compounds*, **2000**, 36, 219-220 1.4 7
- 5 Synthesis of 2-arylbenzothiazoles by the reaction of o-aminothiophenol with bis(arylmethyl)disulfides. *Chemistry of Heterocyclic Compounds*, **2000**, 36, 228-228 1.4 3
- 4 A convenient method for the preparation of N-unsubstituted hydrazones of aromatic ketones and aldehydes. *Russian Chemical Bulletin*, **1999**, 48, 2171-2173 1.7 5
- 3 A convenient synthesis of 3-substituted 5-guanidino-1,2,4-oxadiazoles. *Russian Chemical Bulletin*, **1994**, 43, 114-117 1.7 9
- 2 ¹⁵N NMR study of the mechanism of the reaction of amidoximes with nitrites in the presence of ZnCl₂ and HCl. *Russian Chemical Bulletin*, **1994**, 43, 627-629 1.7 7
- 1 New method for the preparation of 5-amino-1,2,4-oxadiazoles. *Bulletin of the Academy of Sciences of the USSR Division of Chemical Science*, **1991**, 40, 1924-1924