Yury V Tomilov

List of Publications by Citations

93 papers	1,383 citations	20 h-index	33 g-index
107 ext. papers	1,600 ext. citations	3.5 avg, IF	5 L-index

#	Paper	IF	Citations
93	Dimerization of donor–acceptor cyclopropanes. *Mendeleev Communications*, **2015**, 25, 1-10	1.9	127
92	A new type of donor-acceptor cyclopropane reactivity: the generation of formal 1,2- and 1,4-dipoles. *Angewandte Chemie - International Edition*, **2014**, 53, 3187-91	16.4	90
91	Organic and hybrid systems: from science to practice. *Mendeleev Communications*, **2017**, 27, 425-438	1.9	79
90	GaCl3 -Mediated Reactions of Donor-Acceptor Cyclopropanes with Aromatic Aldehydes. *Angewandte Chemie - International Edition*, **2016**, 55, 12233-7	16.4	58
89	Donor-Acceptor Cyclopropanes as 1,2-Dipoles in GaCl3-Mediated [4 + 2]-Annulation with Alkenes: Easy Access to the Tetralin Skeleton. *Journal of Organic Chemistry*, **2015**, 80, 8225-35	4.2	55
88	Complexes of Donor–Acceptor Cyclopropanes with Tin, Titanium, and Gallium Chlorides Mechanism Studies. *Organometallics*, **2012**, 31, 8627-8638	3.8	55
87	Catalytic decomposition of diazomethane as a general method for the methylenation of chemical compounds. *Russian Chemical Reviews*, **1993**, 62, 799-838	6.8	54
86	[4 + 2] Annulation of Donor-Acceptor Cyclopropanes with Acetylenes Using 1,2-Zwitterionic Reactivity. *Journal of Organic Chemistry*, **2017**, 82, 2724-2738	4.2	47
85	New dimerization and cascade oligomerization reactions of dimethyl 2-phenylcyclopropan-1,1-dicarboxylate catalyzed by Lewis acids. *Tetrahedron Letters*, **2011**, 52, 4996-4999	2	46
84	Ionic Ga-Complexes of Alkylidene- and Arylmethylidenemalonates and Their Reactions with Acetylenes: An In-Depth Look into the Mechanism of the Occurring Gallium Chemistry. *Journal of the American Chemical Society*, **2018**, 140, 14381-14390	16.4	34
83	Lewis acid catalyzed reactions of donor–acceptor cyclopropanes with 1- and 2-pyrazolines: formation of substituted 2-pyrazolines and 1,2-diazabicyclo[3.3.0]octanes. *Tetrahedron*, **2010**, 66, 9151-9158	2.4	33
82	Three-Component Gallium(III)-Promoted Addition of Halide Anions and Acetylenes to Donor-Acceptor Cyclopropanes. *Angewandte Chemie - International Edition*, **2018**, 57, 10293-10298	16.4	30
81	Stereoselective double lewis acid/organo-catalyzed dimerization of donor-acceptor cyclopropanes into substituted 2-oxabicyclo[3.3.0]octanes. *Journal of Organic Chemistry*, **2012**, 77, 5993-6006	4.2	30
80	Formal [3+3]-cycloaddition of 3-methyl-5,6-dihydro-4H-1,2-oxazine-N-oxides with cyclopropane dicarboxylates under hyperbaric conditions. *Tetrahedron Letters*, **2015**, 56, 2102-2105	2	29
79	Novel Formal [3+3] Cycloaddition of Silyl Nitronates with Activated Cyclopropanes and Its Application in the Synthesis of Pyrroline-N-oxides. *Synlett*, **2014**, 25, 2275-2280	2.2	28
78	A New Type of Donor–Acceptor Cyclopropane Reactivity: The Generation of Formal 1,2- and 1,4-Dipoles. *Angewandte Chemie*, **2014**, 126, 3251-3255	3.6	26
77	GaCl-Mediated "Inverted" Formal [3 + 2]-Cycloaddition of Donor-Acceptor Cyclopropanes to Allylic Systems. *Journal of Organic Chemistry*, **2018**, 83, 8193-8207	4.2	24

76	Styrylmalonates as an Alternative to Donor-Acceptor Cyclopropanes in the Reactions with Aldehydes: A Route to 5,6-Dihydropyran-2-ones. *Organic Letters*, **2017**, 19, 3731-3734	6.2	23
75	GaCl3-Mediated Reactions of Donor–Acceptor Cyclopropanes with Aromatic Aldehydes. *Angewandte Chemie*, **2016**, 128, 12421-12425	3.6	21
74	A new method for the synthesis of azaheterocycles based on cascade reactions of nitrogen- and phosphorus-containing ylides with methyl diazoacetate. *Tetrahedron Letters*, **2007**, 48, 883-886	2	20
73	Synthesis and properties of stable 1,2,3,4,5,6,7-heptamethoxycarbonylcyclohepta-2,4,6-trien-1-yl potassium and its reactions with electrophilic reagents. *Tetrahedron*, **2008**, 64, 10201-10206	2.4	20
72	Synthesis of condensed heterocycles via cyclopropylimine rearrangement of cyclopropylazoles. *Tetrahedron Letters*, **2010**, 51, 5120-5123	2	19
71	Synthesis and Structures of Cyclopropanedicarboxylate Gallium Complexes. *Organometallics*, **2015**, 34, 4238-4250	3.8	16
70	GaCl3-mediated acyclic dimerization of donor–acceptor cyclopropanes using 1,2-dipole reactivity. *Mendeleev Communications*, **2015**, 25, 341-343	1.9	15
69	Cascade Cleavage of Three-Membered Rings in the Reaction of D-A Cyclopropanes with 4,5-Diazaspiro[2.4]hept-4-enes: A Route to Highly Functionalized Pyrazolines. *Journal of Organic Chemistry*, **2018**, 83, 7836-7851	4.2	15
68	Advanced energetic materials: novel strategies and versatile applications. *Mendeleev Communications*, **2021**, 31, 731-749	1.9	14
67	Dimerization of Dimethyl 2-(Naphthalen-1-yl)cyclopropane-1,1-dicarboxylate in the Presence of GaCl3 to [3+2], [3+3], [3+4], and Spiroannulation Products. *Helvetica Chimica Acta*, **2013**, 96, 2068-2080	2	13
66	1,1-Bicyclopropyl-2,2-dicarboxylate and Cyclopropylmethylidenemalonate as Homovinylogs and Vinylogs of Donor-Acceptor Cyclopropanes. *ChemistrySelect*, **2016**, 1, 6374-6381	1.8	13
65	Three-Component GaHal-Promoted Reactions of Substituted Methylidenemalonates and Donor-Acceptor Cyclopropanes with Propargyl Halides: Cascade Diastereoselective Construction of Five-Membered Lactones. *Journal of Organic Chemistry*, **2019**, 84, 6174-6182	4.2	12
64	Synthesis of 2,3-dihydro-1H-pyrrolo[1,2-a]benzimidazoles via the cyclopropyliminium rearrangement of substituted 2-cyclopropylbenzimidazoles. *Tetrahedron*, **2013**, 69, 3495-3505	2.4	12
63	Unexpected formation of substituted naphthalenes and phenanthrenes in a GaCl3 mediated dimerization–fragmentation reaction of 2-arylcyclopropane-1,1-dicarboxylates. *Mendeleev Communications*, **2014**, 24, 346-348	1.9	12
62	4,5-Difluoro-1,2-dehydrobenzene: generation and cycloaddition reactions. *Mendeleev Communications*, **2005**, 15, 45-46	1.9	12
61	Diels-Alder reaction in the ionic version: GaCl3-promoted formation of substituted cyclohexenes from donor–acceptor cyclopropanes and dienes. *Tetrahedron Letters*, **2020**, 61, 151990	2	11
60	Unusual C-alkylation of pyrazolines with 2-(het)arylcyclopropane-1,1-dicarboxylates in the presence of GaCl3. *Mendeleev Communications*, **2012**, 22, 87-89	1.9	11
59	Synthesis and properties of nitrogenous heterocycles containing a spiro-fused cyclopropane fragment. *Russian Chemical Reviews*, **2000**, 69, 461-480	6.8	11

58	GaCl3-Mediated Isomerization of Donor–Acceptor Cyclopropanes into (2-Arylalkylidene)malonates. *Synlett*, **2016**, 27, 1367-1370	2.2	11
57	Four-Membered Cycle Formation Challenge: GaCl3-Promoted Formal [2+2]-Cycloaddition of Donor–Acceptor Cyclopropanes to Bicyclobutylidene. *European Journal of Organic Chemistry*, **2019**, 2019, 4207-4214	3.2	10
56	Synthesis and cytotoxic properties of tryptamine derivatives. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 3597-600	2.9	10
55	The rearrangement of cyclopropylketone arylhydrazones. Synthesis of tryptamines and tetrahydropyridazines. *Tetrahedron Letters*, **2014**, 55, 5936-5939	2	10
54	Highly diastereoselective formation of 3,7-dioxabicyclo[3.3.0]octan-2-ones in reaction of 2-arylcyclopropanedicarboxylates with aromatic aldehydes using 1,2-zwitterionic reactivity type. *Tetrahedron Letters*, **2017**, 58, 3712-3716	2	10
53	Synthesis of substituted nortrop-2-enes and 3-vinylpyridin-2-ones via reaction of 1,2,3,4,5,6,7-heptamethoxycarbonylcycloheptatriene with primary amines. *Tetrahedron Letters*, **2009**, 50, 5605-5608	2	10
52	The first example of the generation and trapping of diazospiropentane by unsaturated compounds. *Mendeleev Communications*, **1997**, 7, 200-201	1.9	10
51	Formation of cyclopropylazoarenes in the azo coupling reactions of the cyclopropanediazonium ion with active aromatic compounds. *Mendeleev Communications*, **2002**, 12, 104-105	1.9	10
50	The Cyclopropyliminium Rearrangement of Cyclopropylthiazoles. *Mendeleev Communications*, **2013**, 23, 22-23	1.9	9
49	Electrophilic 1,5-Addition of Acyl Chlorides to Conjugated Azocyclopropanes. *Mendeleev Communications*, **1994**, 4, 119-120	1.9	9
48	Synthesis and TD-DFT investigation of arylhydrazonocyclopentadiene dyes. *Dyes and Pigments*, **2019**, 161, 500-509	4.6	9
47	Unexpected formation of 4-arylcyclopentane-1,1,3,3-tetracarboxylates in GaCl3-catalyzed reaction of 2-arylcyclopropane-1,1-dicarboxylates with tetrasubstituted 1-pyrazolines. *Mendeleev Communications*, **2012**, 22, 181-183	1.9	8
46	Reaction of 1,2,3,4,5,6,7-(heptamethoxycarbonyl)cyclohepta-2,4,6-trien-1-yl potassium with tropylium tetrafluoroborate to form cage structures. *Tetrahedron*, **2013**, 69, 6855-6860	2.4	8
45	Synthesis of substituted 2-alkyl-5-hydroxy-1-oxo-1,2-dihydroisoquinolines and their new condensed structures. *Mendeleev Communications*, **2010**, 20, 83-85	1.9	8
44	Push-pull molecules bearing a hydrazonocyclopentadiene acceptor moiety: from the synthesis to organic photovoltaic applications. *Mendeleev Communications*, **2019**, 29, 304-306	1.9	7
43	Synthesis of the Cationic Gallium Phthalocyanines and Their Catalytic Application in Gallium(III)-Activated Processes for Donor–Acceptor Substrates. *Organometallics*, **2020**, 39, 2580-2593	3.8	7
42	GaCl-Mediated Cascade [2 + 4]-Cycloaddition/[4 + 2]-Annulation of Donor-Acceptor Cyclopropanes with Conjugated Dienes: Strategy for the Construction of Benzobicyclo[3.3.1]nonane Skeleton. *Journal of Organic Chemistry*, **2021**, 86, 8089-8100	4.2	7
41	Synthesis of Branched Tryptamines via the Domino Cloke-Stevens/Grandberg Rearrangement. *Journal of Organic Chemistry*, **2017**, 82, 790-795	4.2	6

40	Catalytic cyclopropanation of spiro[2.4]hepta-4,6-diene with diazomethane. *Tetrahedron Letters*, **2019**, 60, 2043-2045	2	6
39	Four-component assembly of polyaromatic 4H-cyclopenta[b]thiophene structures based on GaCl3-promoted reaction of styrylmalonates with 5-phenylthiophene-2-carbaldehyde. *Tetrahedron Letters*, **2019**, 60, 746-750	2	6
38	A New Simple Procedure for the Synthesis of Heptamethyl Cyclohepta-1,3,5-triene-1,2,3,4,5,6,7-heptacarboxylate. *Synlett*, **2018**, 29, 1157-1160	2.2	6
37	Three-Component Gallium(III)-Promoted Addition of Halide Anions and Acetylenes to Donor–Acceptor Cyclopropanes. *Angewandte Chemie*, **2018**, 130, 10450-10455	3.6	6
36	A novel and unusual reaction of 1,2,3,4,5,6,7-hepta(methoxycarbonyl)-cyclohepta-2,4,6-trien-1-yl potassium with organic azides. *Tetrahedron Letters*, **2014**, 55, 2381-2384	2	6
35	Reactions of poly(methoxycarbonyl)-substituted cycloheptatrien-1-yl- and (N-mesylaminoethenyl)cyclopentadienyl anions with some aromatic cations. *Tetrahedron*, **2015**, 71, 1403-1408	2.4	6
34	Donor-Acceptor Bicyclopropyls as 1,6-Zwitterionic Intermediates: Synthesis and Reactions with 4-Phenyl-1,2,4-triazoline-3,5-dione and Terminal Acetylenes. *Journal of Organic Chemistry*, **2020**, 85, 15562-15576	4.2	6
33	Synthesis of Diazanorcaradienes and 1,2-Diazepines via the Tandem [4+2]-Cycloaddition/Retro-[4+2]-Cycloaddition Reaction between Methoxycarbonylcyclopropenes and Dimethoxycarbonyltetrazine. *European Journal of Organic Chemistry*, **2019**, 2019, 4133-4138	3.2	5
32	Synthesis and UV–vis spectra of a new type of dye via a decarboxylative azo coupling reaction. *Tetrahedron Letters*, **2016**, 57, 4311-4313	2	5
31	Synthesis of 1,2,3,4,5-Penta(methoxycarbonyl)cyclopentadienides through Electrocyclic Ring Closure and Ring Contraction Reactions. *European Journal of Organic Chemistry*, **2018**, 2018, 5065-5068	3.2	5
30	Recent advances in the catalytic cyclopropanation of unsaturated compounds with diazomethane. *Russian Chemical Reviews*, **2021**, 90, 199-230	6.8	5
29	Synthesis of chromophores based on the hydrazinylidene cyclic acceptor moieties via the reaction of organolithium reagents with diazo compounds. *Dyes and Pigments*, **2019**, 170, 107589	4.6	4
28	Unusual Side Transformation of Spiro[2,4]hepta-4,6-dienes into Fulvene Derivatives During Pd-Catalyzed Cyclopropanation with Diazomethane. *ChemistrySelect*, **2020**, 5, 4046-4049	1.8	4
27	Indacenodithienothiophene based chromophore with cyclopentadienylidenehydrazine acceptor moieties. *Mendeleev Communications*, **2020**, 30, 647-649	1.9	4
26	Annelated 4,5-diazaspiro[2.4]hepta-4,6-diene obtained by [3 + 2] Cycloaddition of Diazocyclopropane to Cyclooctyne. *Mendeleev Communications*, **2013**, 23, 187-189	1.9	3
25	Electron deficient 5-hydroxy-1,2-dihydroisoquinolin-1-ones – A new class of fluorescent dyes with large Stokes shifts. *Dyes and Pigments*, **2021**, 187, 109107	4.6	3
24	Electron deficient cyclopentadienolate in the synthesis of chromophores with mono- and poly-cyclic hydrazonocyclopentadiene acceptor moieties. *Dyes and Pigments*, **2021**, 187, 109132	4.6	3
23	"Cyclopropanation of Cyclopropanes": GaCl-Mediated Ionic Cyclopropanation of Donor-Acceptor Cyclopropanes with Diazo Esters as a Route to Tetrasubstituted Activated Cyclopropanes. *Journal of Organic Chemistry*, **2021**, 86, 4567-4579	4.2	3

22	Synthesis of Substituted Styrylmalonates by Sequential Isomerization of 2-Arylcyclopropane-1,1-dicarboxylates and (2-Arylethylidene)malonates. *Synthesis*, **2021**, 53, 2253-2259	2.9	3
21	4-Phenylspiro[2.2]pentane-1,1-dicarboxylate: synthesis and reactions with EtAlCl2 and 4,5-diazaspiro[2.4]hept-4-ene derivative. *Mendeleev Communications*, **2019**, 29, 417-418	1.9	2
20	The effect of ligands on the change of diastereoselectivity dimerization of 2-(naphthyl-1)cyclopropanedicarboxylate in the presence of GaCl3. *Arkivoc*, **2017**, 2016, 362-375	0.9	2
19	Synthesis of 1,2,3,4,5,6,7-Heptasubstituted Cycloheptatrienes through Cycloaddition Reactions of Substituted Cyclopentadienones. *European Journal of Organic Chemistry*, **2016**, 2016, 4105-4110	3.2	2
18	Coupling of Styrylmalonates with Furan and Benzofuran Carbaldehydes: Synthesis and Chemistry of Substituted (4-Oxocyclopent-2-enyl)malonates. *Journal of Organic Chemistry*, **2021**, 86, 8489-8499	4.2	2
17	Branching tryptamines as a tool to tune their antiproliferative activity. *European Journal of Medicinal Chemistry*, **2018**, 144, 211-217	6.8	2
16	Lewis acid mediated Michael addition of non-aromatic multiple C C bonds to unsaturated dicarbonyl compounds. *Tetrahedron Letters*, **2021**, 80, 153272	2	2
15	Lewis acid-catalyzed reactions of N-allylanilines with diazo compounds involving aza-Claisen rearrangement. *Mendeleev Communications*, **2015**, 25, 438-439	1.9	1
14	Electrooxidation of potassium hepta(methoxycarbonyl)cycloheptatrienide in acetonitrile. *Mendeleev Communications*, **2014**, 24, 363-364	1.9	1
13	Formation of tetrazoles on diazocyclopropane generation. *Mendeleev Communications*, **2011**, 21, 302-304	1.9	1
12	Superphotoacidic properties and pH-switched Stokes shifts in electron-deficient 5-hydroxyisoquinolone derivatives. *Journal of Photochemistry and Photobiology A: Chemistry*, **2022**, 427, 113808	4.7	1
11	Ionic Cyclopropenium-Derived Triplatinum Cluster Complex [(Ph3C3)2Pt3(MeCN)4]2+(BF4)2: Synthesis, Structure, and Perspectives for Use as a Catalyst for Hydrosilylation Reactions. *Organometallics*,	3.8	1
10	Pathways of Pd-catalyzed cyclopropanation of tetrahydroindene with diazomethane. *Mendeleev Communications*, **2020**, 30, 612-614	1.9	1
9	Reactions of Styrylmalonates with Aromatic Aldehydes: Detailed Synthetic and Mechanistic Studies. *Journal of Organic Chemistry*, **2021**, 86, 4457-4471	4.2	1
8	(2-Fluoroallyl)boration of Ketones with (2-Fluoroallyl)boronates. *Journal of Organic Chemistry*, **2020**, 85, 6295-6308	4.2	1
7	(2-Fluoroallyl)pyridinium tetrafluoroborates: novel fluorinated electrophiles for Pd-catalyzed allylic substitution. *Organic and Biomolecular Chemistry*, **2021**, 19, 4678-4684	3.9	0
6	Gallium(iii)-mediated dimerization routes for (5-phenyl-2-thienyl)cyclopropane-1,1-dicarboxylate. *Mendeleev Communications*, **2022**, 32, 170-172	1.9	0
5	Generation and cascade reactions of N-[1,2-bis(methoxycarbonyl)vinyl]pyridinium species. *Mendeleev Communications*, **2022**, 32, 262-264	1.9	0

List of Publications

4	Carbenes, related intermediates, and small-sized cycles: contribution from Professor Nefedov's laboratory. *Mendeleev Communications*, **2021**, 31, 750-768	1.9	0
3	A unique small molecule class of fluorophores with large Stokes shift based on the electron deficient 9-methoxypyrroloisoquinolinetrione core. *Dyes and Pigments*, **2022**, 203, 110344	4.6	0
2	Design of Multi-Component Reactions. *Advances in Experimental Medicine and Biology*, **2011**, 139-172	3.6	
1	Application of Complexes of Group 13 Elements in Synthetic Organic Chemistry for Activation of Carbonyl Compounds. *Vestnik RFFI*, **2019**, 113-140	0.1	