

# Roman A Irgashev

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	One-pot three-component reaction of 3-(polyfluoroacyl)chromones with active methylene compounds and ammonium acetate: regioselective synthesis of novel RF-containing nicotinic acid derivatives. <i>Tetrahedron</i> , 2008, 64, 2997-3004.	1.9	51
2	A facile and convenient synthesis and photovoltaic characterization of novel thieno[2,3-b]indole dyes for dye-sensitized solar cells. <i>Synthetic Metals</i> , 2015, 199, 152-158.	3.9	35
3	Construction of Heteroacenes with Fused Thiophene and Pyrrole Rings via the Fischer Indolization Reaction. <i>Organic Letters</i> , 2016, 18, 804-807.	4.6	34
4	3-(Polyhaloacyl)chromones and their Hetero Analogues: Synthesis and Reactions with Amines. <i>Synthesis</i> , 2006, 2006, 2707-2718.	2.3	33
5	Methyl 2-methoxytetrafluoropropionate as a synthetic equivalent of methyl trifluoropyruvate in the Claisen condensation. The first synthesis of 2-(trifluoroacetyl)chromones and 5-aryl-2-hydroxy-2-(trifluoromethyl)furan-3(2H)-ones. <i>Tetrahedron Letters</i> , 2009, 50, 4903-4905.	1.4	30
6	A convenient approach to the design and synthesis of indolo[3,2-c]coumarins via the microwave-assisted Cadogan reaction. <i>Tetrahedron Letters</i> , 2013, 54, 5734-5738.	1.4	30
7	Uncatalyzed addition of indoles and N-methylpyrrole to 3-formylchromones: synthesis of (chromon-3-yl)bis(indol-3-yl)methanes and E-2-hydroxy-3-(1-methylpyrrol-2-ylmethylene)chroman-4-ones under solvent-free conditions. <i>Tetrahedron Letters</i> , 2007, 48, 7436-7439.	1.4	29
8	Uncatalyzed addition of indoles and N-methylpyrrole to 3-formylchromones: synthesis and some reactions of (chromon-3-yl)bis(indol-3-yl)methanes and E-2-hydroxy-3-(1-methylpyrrol-2-ylmethylene)chroman-4-ones. <i>Tetrahedron</i> , 2008, 64, 6607-6614.	1.9	26
9	Synthesis, photophysical and electrochemical properties of novel 6,12-di(thiophen-2-yl) substituted indolo[3,2-b]carbazoles. <i>Tetrahedron</i> , 2014, 70, 4685-4696.	1.9	26
10	Reactions of 3-(polyfluoroacyl)chromones with hydroxylamine. The first synthesis of 3-cyano-2-(polyfluoroalkyl)chromones. <i>Tetrahedron Letters</i> , 2006, 47, 8543-8546.	1.4	22
11	Stereoselective hetero-Diels-Alder reaction of 3-(polyfluoroacyl)chromones with enol ethers. Novel synthesis of 2-RF-containing nicotinic acid derivatives. <i>Tetrahedron</i> , 2008, 64, 10172-10180.	1.9	22
12	A Novel and Convenient Synthesis of 3-(Polyhaloacyl)chromones Using Diethoxymethyl Acetate. <i>Synlett</i> , 2005, 2005, 1164-1166.	1.8	21
13	Synthesis and some properties of 6-di(tri)fluoromethyl-and 5-di(tri)fluoroacetyl-3-methyl-1-phenylpyrano[2,3-c]pyrazol-4(1H)-ones. <i>Russian Chemical Bulletin</i> , 2005, 54, 2846-2850.	1.5	20
14	Stereoselective hetero-Diels-Alder reaction of 3-(trifluoroacetyl)chromones with cyclic enol ethers: synthesis of 3-aryl-2-(trifluoromethyl)pyridines with 1-hydroxyalkyl groups. <i>Tetrahedron Letters</i> , 2007, 48, 6297-6300.	1.4	19
15	Reaction of 3-(polyfluoroacyl)chromones with hydrazines: new regioselective synthesis of RF-containing pyrazoles. <i>Russian Chemical Bulletin</i> , 2008, 57, 2146-2155.	1.5	17
16	5-(Methylidene)barbituric acid as a new anchor unit for dye-sensitized solar cells (DSSC). <i>Arkivoc</i> , 2014, 2014, 123-131.	0.5	16
17	Synthesis of 5-aryl-2-hydroxy-2-(trifluoromethyl)furan-3(2H)-ones and their reactions with aromatic 1,2-diamines, hydrazine and hydroxylamine. <i>Tetrahedron</i> , 2015, 71, 8535-8543.	1.9	16
18	A new and convenient synthetic way to 2-substituted thieno[2,3-b]indoles. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 1000-1007.	2.2	15

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19	Synthesis of 2-(trifluoroacetyl)chromones and their reactions with 1,2-diamines. <i>Tetrahedron</i> , 2015, 71, 1822-1830.	1.9	15
20	A new convenient synthetic route towards 2-(hetero)aryl-substituted thieno[3,2- <i>b</i> ]indoles using Fischer indolization. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 4821-4832.	2.8	15
21	Benzo[ <i>b</i> ]selenophene/thieno[3,2- <i>b</i> ]indole-Based N,S,Se-Heteroacenes for Hole-Transporting Layers. <i>ACS Omega</i> , 2020, 5, 9377-9383.	3.5	14
22	6-Polyfluoroacetyl- and 6-trichloroacetylnorkhellins: Synthesis and reaction with aromatic amines. <i>Heteroatom Chemistry</i> , 2006, 17, 99-103.	0.7	13
23	Synthesis of 3-(Azolylmethylene)Chroman-4-ones via Addition of Indoles and N-Methylpyrrole to 3-(Polyfluoroacetyl)Chromones. <i>Letters in Organic Chemistry</i> , 2007, 4, 344-351.	0.5	13
24	Three-component synthesis of partially hydrogenated quinolines from 3-substituted chromones, dimedone, and ammonium acetate. <i>Russian Chemical Bulletin</i> , 2008, 57, 2210-2213.	1.5	13
25	Direct (het)arylation of [1,2,4]triazolo[1,5- <i>a</i> ]pyrimidines: Both eliminative and oxidative pathways. <i>Tetrahedron</i> , 2017, 73, 5500-5508.	1.9	13
26	Reactions of 3-(polyfluoroacetyl)chromones with indole and N-methylindole. <i>Russian Chemical Bulletin</i> , 2006, 55, 2294-2295.	1.5	12
27	Direct arylalkenylation of furazano[3,4- <i>b</i> ]pyrazines via a new C-H functionalization protocol. <i>Tetrahedron Letters</i> , 2015, 56, 1865-1869.	1.4	12
28	A new synthetic approach to fused nine-ring systems of the indolo[3,2- <i>b</i> ]carbazole family through double Pd-catalyzed intramolecular C-H arylation. <i>RSC Advances</i> , 2016, 6, 70106-70116.	3.6	12
29	Synthesis of a new class of carbinol linked bis-heterocycles via the reaction of 2-(trifluoroacetyl)chromones with indoles and pyrroles. <i>Tetrahedron</i> , 2016, 72, 227-233.	1.9	12
30	A convenient synthesis of new 5,11-dihydroindolo[3,2- <i>b</i> ]carbazoles bearing thiophene, 2,2'-bithiophene or 2,2':5',2''-terthiophene units at C-2 and C-8 positions. <i>Tetrahedron Letters</i> , 2017, 58, 3139-3142.	1.4	12
31	Synthesis of 4-(thien-2-yl)-substituted coumarins through Lewis acid catalyzed Michael addition of thiophenes to 3-benzoylcoumarins followed by oxidation. <i>Tetrahedron Letters</i> , 2014, 55, 3603-3606.	1.4	11
32	Construction of new heteroacenes based on benzo[ <i>b</i> ]thieno[2,3- <i>d</i> ]thiophene / quinoline or 1,8-naphthyridine systems using the FriedlÄnder reaction. <i>Tetrahedron Letters</i> , 2019, 60, 1135-1138.	1.4	11
33	Regioselective C2- and C8-Acylation of 5,11-Dihydroindolo[3,2- <i>b</i> ]carbazoles and the Synthesis of Their 2,8-Bis(quinoxaliny) Derivatives. <i>Synthesis</i> , 2015, 47, 3561-3572.	2.3	10
34	Synthesis, crystal structure and fluorescent properties of indolo[3,2- <i>b</i> ]carbazole-based metal-organic coordination polymers. <i>Polyhedron</i> , 2018, 141, 337-342.	2.2	9
35	Reactions of 3-(Polyfluoroacetyl)chromenones with Heterocyclic Amines: Novel Synthesis of Polyfluoroalkyl-Containing Fused Pyridines. <i>Synthesis</i> , 2009, 2009, 3869-3879.	2.3	8
36	Electron-hole mobility in 6,12-di(2-thienyl)indolo[3,2- <i>b</i> ]carbazoles. <i>Mendeleev Communications</i> , 2016, 26, 516-517.	1.6	8

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37	Nitration of 5,11-dihydroindolo[3,2-b]carbazoles and synthetic applications of their nitro-substituted derivatives. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1396-1406.	2.2	8
38	Synthesis and reactivity of 8-aza-5,7-dimethyl-2-trifluoroacetylchromone. <i>Chemistry of Heterocyclic Compounds</i> , 2015, 51, 838-844.	1.2	7
39	Novel push-pull thieno[2,3-b]indole-based dyes for efficient dye-sensitized solar cells (DSSCs). <i>Arkivoc</i> , 2017, 2017, 34-50.	0.5	7
40	Modifications of 5,12-dihydroindolo[3,2-a]carbazole scaffold via its regioselective C2,9-formylation and C2,9-acetylation. <i>Tetrahedron</i> , 2019, 75, 4686-4696.	1.9	7
41	Performance evaluation of dye-sensitized solar cells (DSSCs) based on metal-free thieno[3,2-b]indole dyes. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 6307-6317.	2.2	7
42	Synthesis and properties of new $\pi$ -conjugated imidazole/carbazole structures. <i>Dyes and Pigments</i> , 2017, 141, 512-520.	3.7	6
43	One-pot synthesis of 2-substituted thieno[3,2-b]indoles from 3-aminothiophene-2-carboxylates through in situ generated 3-aminothiophenes. <i>Tetrahedron Letters</i> , 2019, 60, 151185.	1.4	6
44	3-(Polyfluoroacyl)chromones and Their Hetero Analogues as Valuable Substrates for Syntheses of 4-(Polyfluoroalkyl)pyrimidines. <i>Synthesis</i> , 2009, 2009, 3233-3242.	2.3	5
45	Synthesis and some properties of 2-(polyfluoroalkyl)chroman-4-ols and 2-(polyfluoroalkyl)chroman-4-ones. <i>Russian Chemical Bulletin</i> , 2009, 58, 2465-2473.	1.5	5
46	The first synthesis of 3-hydroxy-2-(polyfluoroalkyl)chromones and their ammonium salts. 3-hydroxychromone in the Mannich reaction. <i>Journal of Heterocyclic Chemistry</i> , 2010, 47, 944-948.	2.6	5
47	Synthesis of 4-arylamino-3-(trifluoromethyl)pyridazines and pyridazino[3,4-b]quinoxalines (as Tj ETQq1 1 0.784314 rgBT /Overlock 1071). <i>Advances</i> , 2016, 6, 30056-30069.	3.6	5
48	Synthesis of aryl-substituted thieno[3,2-b]thiophene derivatives and their use for N,S-heterotetracene construction. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2678-2683.	2.2	5
49	Construction of 2,3-disubstituted benzo[ <i>b</i> ]thieno[2,3- <i>d</i> ]thiophenes and benzo[4,5]selenopheno[3,2- <i>b</i> ]thiophenes using the Fiessemann thiophene synthesis. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3164-3168.	2.8	5
50	Reactions of 2-(trifluoroacetyl)chromones with aromatic amines. <i>Chemistry of Heterocyclic Compounds</i> , 2017, 53, 1362-1364.	1.2	4
51	One-pot approach to construct benzo[4,5]thieno[3,2-b]indoles, pyrido[3- <i>a</i> :2- <i>a'</i> :4,5]thieno[3,2-b]indoles and pyrazino[2- <i>a</i> :3- <i>a'</i> :4,5]thieno[3,2-b]indoles based on the Fischer indole synthesis. <i>Tetrahedron</i> , 2020, 76, 131723.	1.9	4
52	An Effective Route to Dithieno[3,2- <i>b</i> :2- <i>a'</i> :3- <i>a'</i> - <i>d</i> ]thiophene-Based Hexaheteroacenes. <i>Synlett</i> , 2021, 32, 1009-1013.	1.8	4
53	Reactions of 3-polyfluoroacylchromones with primary amines. <i>Russian Chemical Bulletin</i> , 2006, 55, 593-594.	1.5	3
54	Reaction of 3-trifluoroacetylchromones with diamines. <i>Russian Chemical Bulletin</i> , 2007, 56, 1608-1611.	1.5	3

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55	Electroluminescence and electron-hole mobility of 6,12-di(thien-2-yl)indolo[3,2-b]carbazoles. <i>Inorganic Materials: Applied Research</i> , 2017, 8, 172-175.	0.5	3
56	The Influence of Materials of Electrodes of Sensitized Solar Cells on Their Capacitive and Electrical Characteristics. <i>Russian Physics Journal</i> , 2018, 61, 196-202.	0.4	3
57	Regioselective Synthesis of Novel Perfluoroalkylated Fused Pyridines and 3-(Aminomethylene)thiochroman-4-ones from 3-(Perfluoroalkanoyl)thiochromenones and Amines. <i>Synthesis</i> , 2010, 2010, 671-677.	2.3	2
58	Synthesis, optical and electrochemical properties of new thieno[2,3-b]indole-based dyes. <i>Arkivoc</i> , 2018, 2018, 11-19.	0.5	2
59	Synthesis of 6H,7H-chromeno[3,4:4,5]thieno[3,2-b]indol-6-ones using the Fischer indolization reaction. <i>Tetrahedron Letters</i> , 2021, 79, 153297.	1.4	2
60	Stereoselective synthesis of cis-2-(polyfluoroalkyl)chroman-4-ols and trans-4-acylamino-2-(polyfluoroalkyl)chromans. <i>Arkivoc</i> , 2009, 2009, 125-135.	0.5	2
61	An Approach to the Construction of Benzofuran-thieno[3,2-b]indole-Cored N,O,S-Heteroacenes Using Fischer Indolization. <i>ACS Omega</i> , 2021, 6, 32277-32284.	3.5	2
62	A Novel and Convenient Synthesis of 3-(Polyhaloacyl)chromones Using Diethoxymethyl Acetate.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
63	An improved protocol for the preparation of 5,11-dialkyl-6,12-di(hetero)aryl-5,11-dihydroindolo[3,2-b]carbazoles and synthesis of their new 2,8-dicyano- / 2,8-bis(benzo[d]thiazol-2-yl)-substituted derivatives. <i>Arkivoc</i> , 2018, 2018, 203-220.	0.5	0