

# Irina Sterkhova

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Supramolecular structure of the product of unusual [2C=C+2C=N] cycloaddition of dicyclohexylcarbodiimide to N-(3-methylbut-2-en-1-ylidene)triflamide. <i>Journal of Molecular Structure</i> , 2022, 1250, 131676.	1.8	4
2	(O-Si)-Chelate acetic and benzoic acid N-(fluorosilylmethyl)amides: synthesis and structure. <i>Russian Chemical Bulletin</i> , 2022, 71, 354-362.	0.4	7
3	2-(1H-diazol-2-ylmethylene)indane-1-ones and 2-(1H-diazol-2-ylmethylene)-1H-indene-1,3(2H)-diones: Photoisomerization and hydrogen-bonding-induced association. <i>Tetrahedron</i> , 2021, 77, 131755.	1.0	3
4	2,2-Dimethyl-3-[(4-methylphenyl)sulfonyl]-2,3-dihydro-1,3,2-benzoxazasilole: synthesis, properties, and structure. <i>Russian Chemical Bulletin</i> , 2021, 70, 386-390.	0.4	0
5	N-[difluoro(methyl)silyl]carboxamides: Synthesis, structural features and theoretical estimating of Si-O dative bond energy. <i>Journal of Molecular Structure</i> , 2021, 1225, 129130.	1.8	9
6	Solvent-dependent oxidative triflamidation of alkenes and N(O)-Heterocyclization of the products. <i>Tetrahedron</i> , 2021, 88, 132145.	1.0	9
7	Conformational Analysis and Study of Hydrogen Bonding of Iodobicycloheptanyl-N-(trifluoromethanesulfonyl) Acetimidamides. <i>Russian Journal of General Chemistry</i> , 2021, 91, 807-813.	0.3	3
8	N-[(Trifluorosilyl)methyl]carboxanilides: Synthesis and structural features. <i>Journal of Organometallic Chemistry</i> , 2021, 940, 121788.	0.8	5
9	N,N-(2,3-Dimethylbut-2-ene-1,4-dienyl)dibenzenesulfonamide and N,N-[(2E)-2,3-Dimethylbut-2-ene-1,4-dienyl]bis(trifluoroacetamide): Special Features of Hydrogen Bonding in the Crystal and Solutions. <i>Russian Journal of General Chemistry</i> , 2021, 91, 1009-1015.	0.3	0
10	Oxidative sulfonamidation of O-containing vinylsilanes. A new route to novel heterocycles and amidines. <i>Journal of Organometallic Chemistry</i> , 2021, 951, 122010.	0.8	3
11	Molecular structure of $\beta^2$ -oxy-bis-acrylamides on the pathway of the dimers formation. DFT and FTIR study. <i>Journal of Molecular Structure</i> , 2020, 1202, 127298.	1.8	5
12	O-Trimethylsilyl-N-phenylsulfonylacetimidate: Synthesis and Structure. <i>Russian Journal of General Chemistry</i> , 2020, 90, 1641-1645.	0.3	0
13	Heterocyclization and solvent interception upon oxidative triflamidation of allyl ethers, amines and silanes. <i>Tetrahedron</i> , 2020, 76, 131374.	1.0	19
14	CRYSTAL STRUCTURE OF NORFLOXACINIUM AND 2,2-BIPYRIDYL-1-ILUM 2-THIOBARBITURATES. <i>Journal of Structural Chemistry</i> , 2020, 61, 1639-1647.	0.3	1
15	Copper(ii), cobalt(ii), manganese(ii) and nickel(ii) bis(hexafluoroacetylacetonate) complexes with N-vinylimidazole. <i>Mendeleev Communications</i> , 2020, 30, 246-248.	0.6	7
16	Two new Cu(II) and Ni(II) 1,10-phenanthroline complexes with anions of barbituric acids in the outer sphere: Synthesis, structure, spectroscopic, magnetic and thermal properties. <i>Journal of Molecular Structure</i> , 2020, 1219, 128526.	1.8	3
17	New oxyalkyl derivatives of trifluoromethanesulfonamide: Dynamic rivalry between different types of chain and cyclic associates in different phase states. <i>Journal of Molecular Structure</i> , 2020, 1219, 128534.	1.8	3
18	Oxidant effect, skeletal rearrangements and solvent interception in oxidative triflamidation of norbornene and 2,5-norbornadiene. <i>Tetrahedron</i> , 2020, 76, 131018.	1.0	14

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19	N,N'-Bis(trifluoromethanesulfonyl) Dicarboxylic Acid Amides. Russian Journal of Organic Chemistry, 2020, 56, 63-67.	0.3	3
20	Structure of Barbituratobis(2,2'-Dipyridyl)copper(II) Heptahydrate. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2019, 45, 569-572.	0.3	0
21	1-[N-phenyl(aminomethyl)]silatrane: Synthesis, reactivity and structure. Journal of Organometallic Chemistry, 2019, 898, 120870.	0.8	6
22	Oxidative sulfamidation of vinyl silanes: A route to diverse silylated N-Heterocycles. Tetrahedron, 2019, 75, 4531-4541.	1.0	18
23	Structure and Thermal Decomposition of Nd(III), Gd(III) and Tb(III) 2-Thiobarbiturates. Russian Journal of Inorganic Chemistry, 2019, 64, 1146-1151.	0.3	2
24	Pentacoordinate silicon compounds based on 2,2'-dihydroxyazobenzene ligand. Journal of Organometallic Chemistry, 2019, 903, 120997.	0.8	11
25	1,3-Dimethoxy-1,3-dimethyl-1,3-diphenyl- and 1,3-dimethoxy-1,3-tetraphenyldisiloxanes: synthesis and structure. Russian Chemical Bulletin, 2019, 68, 1580-1584.	0.4	0
26	N-(2,3-Dihydroxy-4-iodo-2,3-dimethylbutyl)trifluoroacetamide: Hydrogen Bonds in Crystal and Solution. Russian Journal of General Chemistry, 2019, 89, 1564-1569.	0.3	0
27	Synthesis and structural features of N-[(2-(trimethylsilyl)oxy)phenyl]-arylsulfonamides. Journal of Molecular Structure, 2019, 1198, 126782.	1.8	2
28	Molecular and crystal structures of tris(3-methylphenyl)phosphine and its chalcogenides. Journal of Molecular Structure, 2019, 1197, 681-690.	1.8	5
29	2 <i>H</i> -Indazole Tautomers Stabilized by Intra- and Intermolecular Hydrogen Bonds. Journal of Organic Chemistry, 2019, 84, 9075-9086.	1.7	12
30	Three-Component Reaction of Sulfonamides with Acetylene and Amines. Russian Journal of Organic Chemistry, 2019, 55, 179-185.	0.3	2
31	Structure of bis(2-Thiobarbiturate)Tris (2,2-Bipyridyl)Nickel(II) Hexahydrate. Journal of Structural Chemistry, 2019, 60, 111-116.	0.3	2
32	Synthesis, structural and spectroscopic features of 2,2,2-trichloro-N-[(trimethylsilyl)methyl]acetamide and 2,2,2-trimethyl-N-[(trimethylsilyl)methyl]acetamide. Journal of Molecular Structure, 2019, 1184, 200-206.	1.8	3
33	Crystallographic, thermal and spectroscopic characterization of the anhydrous thiourea~barbituric acid and thiourea~2-thiobarbituric acid co-crystals. Journal of Molecular Structure, 2019, 1176, 865-870.	1.8	5
34	Estimating the energy of intramolecular bifurcated (three-centered) hydrogen bond by X-ray, IR and 1 H NMR spectroscopy, and QTAIM calculations. Journal of Molecular Structure, 2018, 1163, 185-196.	1.8	27
35	N-[Chloro(dimethyl)silyl]methyl-N,N'-diphenylurea: Synthesis and structure. Journal of Organometallic Chemistry, 2018, 867, 62-66.	0.8	5
36	PCl <sub>3</sub> - and organometallic-free synthesis of tris(2-picoly)phosphine oxide from elemental phosphorus and 2-(chloromethyl)pyridine hydrochloride. Tetrahedron Letters, 2018, 59, 723-726.	0.7	16

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37	One-Pot Chlorine-Free Synthesis of Chiral Organophosphorus Compounds from Elemental Phosphorus and $\pm$ -Methylstyrene Dimer. <i>Doklady Chemistry</i> , 2018, 478, 5-8.	0.2	4
38	Crystal and molecular structures of Si-(iodomethyl)silatrane with methyl substituents in $\hat{1}^2$ -position relative to the nitrogen atom. <i>Mendeleev Communications</i> , 2018, 28, 278-280.	0.6	4
39	Crystal structures of $[\text{Cu}_2(2,2\text{-bipyridine-N,N}\hat{\epsilon}^2)_2(\text{H}_2\text{O})_2(\hat{1}^{1/2}\text{-OH})_2](\text{barbiturate})_2\cdot 2\text{H}_2\text{O}$ and $[\text{Cu}_2(2,2\text{-bipyridine-N,N}\hat{\epsilon}^2)(\text{H}_2\text{O})(\text{barbiturate-O})\text{Cl}]\hat{\text{A}}\cdot 2\text{H}_2\text{O}$ . <i>Inorganic Chemistry Communication</i> , 2018, 97, 88-92.	1.8	4
40	Two novel mixed-ligand Ni(II) and Co(II) complexes with 1,10-phenanthroline: Synthesis, structural characterization, and thermal stability. <i>Chemical Physics Letters</i> , 2018, 708, 11-16.	1.2	4
41	Iodotriflamidation vs. Electrophilic Aromatic Iodination in the Reaction of N-Phenyltriflamide with Alkenes. <i>ChemistrySelect</i> , 2018, 3, 5960-5964.	0.7	4
42	Novel 1,3-diethyl-2-thiobarbiturates of 2,2-bipyridine and 1,10-phenanthroline: Synthesis, crystal structure and thermal stability. <i>Journal of Molecular Structure</i> , 2018, 1171, 488-494.	1.8	3
43	Coordination effects in hydrated manganese(II) 1,3-diethyl-2-thiobarbiturates and their thermal stability. <i>Polyhedron</i> , 2017, 134, 120-125.	1.0	4
44	Microwave synthesis of new azolyl-substituted thiazolo[5,4-d]thiazoles. <i>Russian Journal of Organic Chemistry</i> , 2017, 53, 550-556.	0.3	1
45	1,4-Diphenyl-1,3-butadiene and 1,1,4,4-Tetraphenyl-1,3-butadiene in the Reactions of Oxidative Sulfamidation and Trifluoroacetamidation. <i>ChemistrySelect</i> , 2017, 2, 4662-4666.	0.7	4
46	Variable coordination of tris(2-pyridyl)phosphine and its oxide toward $\text{M}(\text{hfac})_2$ : a metal-specifiable switching between the formation of mono- and bis-scorpionate complexes. <i>Dalton Transactions</i> , 2017, 46, 5965-5975.	1.6	18
47	X-ray, FTIR and DFT study of new iodine-containing derivatives of trifluoroacetamide. <i>Journal of Molecular Structure</i> , 2017, 1141, 351-356.	1.8	7
48	Facile one-pot synthesis of 5-substituted isoxazoles and pyrazoles through microwave-promoted intramolecular cyclization of $\hat{1}^3$ -hydroxyalkynal oximes and hydrazones. <i>Synthetic Communications</i> , 2017, 47, 335-343.	1.1	9
49	Intra- and intermolecular hydrogen bonding in solutions of N-(2-hydroxy-3,8-diiodocyclooctyl)trifluoroacetamide and N-(4-iodo-2,2,5,5-tetramethyltetrahydrofuran-3-yl)trifluoroacetamide. <i>Russian Journal of General Chemistry</i> , 2017, 87, 1680-1684.	0.3	4
50	Thiobarbiturate and barbiturate salts of pefloxacin drug: Growth, structure, thermal stability and IR-spectra. <i>Journal of Molecular Structure</i> , 2017, 1149, 367-372.	1.8	23
51	Photoinduced Intramolecular Bifurcate Hydrogen Bond: Unusual Mutual Influence of the Components. <i>Journal of Organic Chemistry</i> , 2017, 82, 9075-9086.	1.7	11
52	Oxidative addition/cycloaddition of arenesulfonamides and triflamide to N-allyltriflamide and N,N-diallyltriflamide. <i>RSC Advances</i> , 2017, 7, 38951-38955.	1.7	17
53	Silylation of N-(2-hydroxyphenyl)acetamide by methyl(organyl)dichlorosilanes: Structure and properties of resulting heterocycles. <i>Journal of Organometallic Chemistry</i> , 2017, 846, 88-99.	0.8	6
54	Crystal structure and properties of polymeric hexaqua-hexakis-(2-thiobarbiturato)-disamarium(III). <i>Journal of Structural Chemistry</i> , 2017, 58, 539-543.	0.3	2

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55	Paramagnetic CuII complexes with 1-(hetaryl)methyl)silatrane. Russian Chemical Bulletin, 2017, 66, 2276-2282.	0.4	2
56	Reaction of (chloromethyl)trichlorosilane with 2,2-dimethylpropane-1,3-diol. Russian Chemical Bulletin, 2017, 66, 2339-2342.	0.4	1
57	Stereochemistry and mechanism of oxidative 1,4-addition of trifluoroacetamide to 2,3-dimethylbuta-1,3-diene. Mendeleev Communications, 2017, 27, 293-295.	0.6	9
58	Silylated derivatives OF N-(2-hydroxyphenyl)acetamide: Synthesis and structure. Journal of Molecular Structure, 2016, 1122, 10-17.	1.8	4
59	Efficient One-Pot Synthesis of Mono- and Bis[di(2-pyridyl)phosphine Oxides] from Tris(2-pyridyl)phosphine. Synlett, 2016, 27, 2451-2454.	1.0	8
60	1-[(N-Methyl-N-tritylamino)methyl]silatrane: Synthesis and structure. Polyhedron, 2016, 117, 377-380.	1.0	7
61	Hydrates [Na<sub>2</sub>(H<sub>2</sub>O)<sub>x</sub>](2-thiobarbiturate)<sub>2</sub> (x = 4, 5): crystal structure, spectroscopic and thermal properties. Journal of Coordination Chemistry, 2016, 69, 3219-3230.	0.8	9
62	Unusual [2+2]-cycloaddition of carbodiimides to N-alkenylidenetriflamides. Tetrahedron Letters, 2016, 57, 4440-4442.	0.7	6
63	Cyclization of trifluoro-N-(prop-2-yn-1-yl)methanesulfonamides to N-(hydroxymethyl)-1,2,3-triazoles. Russian Journal of Organic Chemistry, 2016, 52, 1032-1035.	0.3	4
64	First coordination compounds of SeBr2 with selenium-containing ligands: X-ray structural determination. Mendeleev Communications, 2016, 26, 532-534.	0.6	8
65	New heterospin chain-polymers based on Cu(hfac)2 complex with TEMPO derivatives bearing $\beta$ -(oxy)acrylate moiety: Synthesis, structural and magnetic properties. Polyhedron, 2016, 119, 293-299.	1.0	12
66	Structure of ionic cocrystals piperidinium 2-thiobarbiturate $\leftrightarrow$ 2-thiobarbituric acid. Journal of Structural Chemistry, 2016, 57, 1266-1269.	0.3	8
67	Crystal and molecular structure of 1-(iodomethyl)- and 1-(iodopropyl)silatrane. Journal of Structural Chemistry, 2016, 57, 209-212.	0.3	4
68	Potassium 3-oxo-2,3-dihydro-1H-inden-4-olate: Formation, molecular and electronic structure. Journal of Molecular Structure, 2016, 1123, 44-48.	1.8	2
69	N-trimethylsilyl carboxamides RC(O)NHSiMe3 (R = Me, CF3, Ph): X-ray, DFT and FTIR study. Journal of Molecular Structure, 2015, 1098, 408-415.	1.8	6
70	A convenient synthesis and structure of N-trifluoromethylsulfonamidines. Tetrahedron, 2015, 71, 7906-7910.	1.0	14
71	Oxidative cycloaddition of electron-deficient arenesulfonamides to hexa-1,5-diene. Russian Journal of Organic Chemistry, 2015, 51, 888-892.	0.3	9
72	Microwave-assisted synthesis of 2,5-diarylthiazolo[5,4-d]thiazoles from benzaldehydes and dithioamide. Russian Journal of Organic Chemistry, 2015, 51, 373-377.	0.3	6

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73	Trifluoromethanesulfonamide: X-ray single-crystal determination and quantum chemical calculations. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 485-489.	0.9	14
74	Reaction of N-[chloro(diorganyl)silyl]anilines with isopropanol and isopropylamine. <i>Russian Journal of General Chemistry</i> , 2015, 85, 1866-1869.	0.3	1
75	Molecular Structure and Photoinduced Intramolecular Hydrogen Bonding in 2-Pyrrolylmethylidene Cycloalkanones. <i>Journal of Organic Chemistry</i> , 2015, 80, 10521-10535.	1.7	26
76	New class of bicyclic compounds derived from thiobarbituric acid with representative compound 1,3-diethyl-7-hydroxy-5,5,7-trimethyl-2-thioxo-1,2,3,5,6,7-hexahydro-4H-pyrano[2,3-d]pyrimidin-4-one. Preparation, crystal structure, mass spectrometry and IR spectroscopy. <i>Journal of Molecular Structure</i> , 2015, 1102, 101-107.	1.8	2
77	Stereoelectronic structure and self-association of N-trimethylsilylsulfonamides RSO <sub>2</sub> NHSiMe <sub>3</sub> (R =) Tj ETQq1 1 0.784314 rgBT /Overlo	0.3	5
78	Oxidative addition of trifluoroacetamide to alkenes, 2,5-dimethylhexa-2,4-diene and conjugated cyclic dienes. <i>Tetrahedron</i> , 2015, 71, 8669-8675.	1.0	15
79	1-(Methylaminomethyl)silatrane: Synthesis, characterization and reactivity. <i>Journal of Organometallic Chemistry</i> , 2015, 775, 27-32.	0.8	15
80	The cis-trans isomer transformation, spectroscopic and thermal properties of Li, Na, K 1,3-diethyl-2-thiobarbiturate complexes. <i>Polyhedron</i> , 2015, 85, 493-498.	1.0	18
81	Hydroalkoxylation of alkynes by a nitroxyl containing alcohol, 4-hydroxy-2,2,6,6-tetramethylpiperidin-1-oxyl: synthesis of spin-labeled enol ethers. <i>Arkivoc</i> , 2015, 2015, 330-346.	0.3	1
82	Conformational structure of N-(silylmethyl)anilines PhNHCH <sub>2</sub> SiMe <sub>n</sub> (OEt) <sub>3-n</sub> (n = 0-3). <i>Russian Journal of General Chemistry</i> , 2014, 84, 1121-1125.	0.3	0
83	Urea and thiourea complexes with trifluoromethanesulfonic acid and its derivatives. <i>Russian Journal of Organic Chemistry</i> , 2014, 50, 1247-1251.	0.3	3
84	Assembling of 3,6-diazabicyclo[3.1.0]hexane framework in oxidative triflamidation of substituted buta-1,3-dienes. <i>Tetrahedron</i> , 2014, 70, 8636-8641.	1.0	21
85	Synthesis of N-[chloro(diorganyl)silyl]anilines. <i>Russian Journal of General Chemistry</i> , 2014, 84, 883-887.	0.3	2
86	Conformations and Self-association of Trifluoro-N-(3-formylcyclohept-2-en-1-yl)methanesulfonamide. <i>Russian Journal of Organic Chemistry</i> , 2014, 50, 337-341.	0.3	12
87	Experimental and theoretical investigation of self-association in inert environment of new triflamide derivatives. <i>Russian Journal of Organic Chemistry</i> , 2013, 49, 1594-1599.	0.3	9
88	2,5-diphenyl-1,4-(trifluoromethylsulfonyl)piperazine from N-(2-bromo-2-phenylethyl)trifluoromethanesulfonamide. <i>Russian Journal of Organic Chemistry</i> , 2010, 46, 1743-1744.	0.3	12
89	10.1007/s11178-008-2014-7. , 2010, 44, 270.		0
90	Structure of bis(trifluoromethanesulfonyl)imide in inert and protophilic media. <i>Russian Journal of General Chemistry</i> , 2008, 78, 2363-2373.	0.3	15

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91	Structure of the molecule of 1,2-Bis(1-ethyl-1H-1,2,3-triazol-4-yl)diazene 1-oxide in the crystal and in solutions. Russian Journal of Organic Chemistry, 2008, 44, 270-273.	0.3	1
92	Molecular structure of complexes with bifurcated hydrogen bond: IV. Solvate H-complexes of N-methyltrifluoromethanesulfonamide in aprotic protophilic media. Russian Journal of General Chemistry, 2007, 77, 73-83.	0.3	4
93	Solvatochromism of heteroaromatic compounds: XXX. N-Methyltrifluoromethanesulfonamide as hydrogen-bond donor. Russian Journal of General Chemistry, 2007, 77, 84-89.	0.3	6
94	Solvatochromism of heteroaromatic compounds: XXXI. Energetics of hydrogen bonding between N-methyltrifluoromethanesulfonamide and ethers. Russian Journal of General Chemistry, 2007, 77, 264-273.	0.3	5
95	Structure and intramolecular hydrogen bonds in Bis(trifluoromethylsulfonylamino)methane and N-[(trifluoromethylsulfonyl)aminomethyl]acetamide. Russian Journal of General Chemistry, 2006, 76, 583-589.	0.3	19
96	Molecular structure of complexes with a bifurcated hydrogen bond. 5. Dimers of 3-hydroxy-2-methyl-4-pyrone in inert media. Chemistry of Heterocyclic Compounds, 2006, 42, 1404-1413.	0.6	1
97	Energy of Formation of an Acyclic N-Methyltrifluoromethanesulfonamide Dimer. Russian Journal of General Chemistry, 2005, 75, 268-271.	0.3	9
98	Self-Association of Trifluoromethanesulfonamide in Inert Solvents. Russian Journal of General Chemistry, 2005, 75, 876-882.	0.3	11
99	Molecular Structure of Complexes with Bifurcated Hydrogen Bond: III. Solvate H-Complexes Formed by Trifluoromethanesulfonamide and Its Cyclic Dimer. Russian Journal of Organic Chemistry, 2005, 41, 1415-1420.	0.3	5