

Irina Sterkhova

List of Publications by Year in descending order

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99
papers

694
citations

623188

14
h-index

839053

18
g-index

102
all docs

102
docs citations

102
times ranked

431
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating the energy of intramolecular bifurcated (three-centered) hydrogen bond by X-ray, IR and 1 H NMR spectroscopy, and QAIM calculations. <i>Journal of Molecular Structure</i> , 2018, 1163, 185-196.	1.8	27
2	Molecular Structure and Photoinduced Intramolecular Hydrogen Bonding in 2-Pyrrolylmethylidene Cycloalkanones. <i>Journal of Organic Chemistry</i> , 2015, 80, 10521-10535.	1.7	26
3	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
4	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
5	Structure and intramolecular hydrogen bonds in Bis(trifluoromethylsulfonylamino)methane and N-[(trifluoromethylsulfonyl)aminomethyl]acetamide. <i>Russian Journal of General Chemistry</i> , 2006, 76, 583-589.	0.3	19
6	Heterocyclization and solvent interception upon oxidative triflamidation of allyl ethers, amines and silanes. <i>Tetrahedron</i> , 2020, 76, 131374.	1.0	19
7	The cis \leftrightarrow 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
8	Variable coordination of tris(2-pyridyl)phosphine and its oxide toward M(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
9	Oxidative sulfamidation of vinyl silanes: A route to diverse silylated N-Heterocycles. <i>Tetrahedron</i> , 2019, 75, 4531-4541.	1.0	18
10	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
11	PCl ₃ - and organometallic-free synthesis of tris(2-picoyl)phosphine oxide from elemental phosphorus and 2-(chloromethyl)pyridine hydrochloride. <i>Tetrahedron Letters</i> , 2018, 59, 723-726.	0.7	16
12	Structure of bis(trifluoromethanesulfonyl)imide in inert and protophilic media. <i>Russian Journal of General Chemistry</i> , 2008, 78, 2363-2373.	0.3	15
13	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
14	1-(Methylaminomethyl)silatrane: Synthesis, characterization and reactivity. <i>Journal of Organometallic Chemistry</i> , 2015, 775, 27-32.	0.8	15
15	A convenient synthesis and structure of N-trifluoromethylsulfonylamidines. <i>Tetrahedron</i> , 2015, 71, 7906-7910.	1.0	14
16	Trifluoromethanesulfonamide: X-ray single-crystal determination and quantum chemical calculations. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 485-489.	0.9	14
17	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
18	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

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19	Conformations and Self-association of Trifluoro-N-(3-formylcyclohept-2-en-1-yl)methanesulfonamide. Russian Journal of Organic Chemistry, 2014, 50, 337-341.	0.3	12
20	New heterospin chain-polymers based on Cu(hfac) ₂ complex with TEMPO derivatives bearing β -(oxy)acrylate moiety: Synthesis, structural and magnetic properties. Polyhedron, 2016, 119, 293-299.	1.0	12
21	2 <i>H</i> -Indazole Tautomers Stabilized by Intra- and Intermolecular Hydrogen Bonds. Journal of Organic Chemistry, 2019, 84, 9075-9086.	1.7	12
22	Self-Association of Trifluoromethanesulfonamide in Inert Solvents. Russian Journal of General Chemistry, 2005, 75, 876-882.	0.3	11
23	Photoinduced Intramolecular Bifurcate Hydrogen Bond: Unusual Mutual Influence of the Components. Journal of Organic Chemistry, 2017, 82, 9075-9086.	1.7	11
24	Pentacoordinate silicon compounds based on 2,2- α -dihydroxyazobenzene ligand. Journal of Organometallic Chemistry, 2019, 903, 120997.	0.8	11
25	Energy of Formation of an Acyclic N-Methyltrifluoromethanesulfonamide Dimer. Russian Journal of General Chemistry, 2005, 75, 268-271.	0.3	9
26	Experimental and theoretical investigation of self-association in inert environment of new triflamide derivatives. Russian Journal of Organic Chemistry, 2013, 49, 1594-1599.	0.3	9
27	Oxidative cycloaddition of electron-deficient arenesulfonamides to hexa-1,5-diene. Russian Journal of Organic Chemistry, 2015, 51, 888-892.	0.3	9
28	Hydrates [Na ₂ (H ₂ O) _x](2-thiobarbiturate) ₂ (x=3, 4, 5): crystal structure, spectroscopic and thermal properties. Journal of Coordination Chemistry, 2016, 69, 3219-3230.	0.8	9
29	Facile one-pot synthesis of 5-substituted isoxazoles and pyrazoles through microwave-promoted intramolecular cyclization of 13 C-hydroxyalkynyl oximes and hydrazones. Synthetic Communications, 2017, 47, 335-343.	1.1	9
30	N-[difluoro(methyl)silyl]carboxamides: Synthesis, structural features and theoretical estimating of Si \rightarrow O dative bond energy. Journal of Molecular Structure, 2021, 1225, 129130.	1.8	9
31	Solvent-dependent oxidative triflamidation of alkenes and N(O)-Heterocyclization of the products. Tetrahedron, 2021, 88, 132145.	1.0	9
32	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
33	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
34	First coordination compounds of SeBr ₂ with selenium-containing ligands: X-ray structural determination. Mendeleev Communications, 2016, 26, 532-534.	0.6	8
35	Structure of ionic cocrystals piperidinium 2-thiobarbiturate \cdot 2-thiobarbituric acid. Journal of Structural Chemistry, 2016, 57, 1266-1269.	0.3	8
36	1-[(N-Methyl-N-tritylamino)methyl]silatrane: Synthesis and structure. Polyhedron, 2016, 117, 377-380.	1.0	7

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37	X-ray, FTIR and DFT study of new iodine-containing derivatives of trifluoroacetamide. Journal of Molecular Structure, 2017, 1141, 351-356.	1.8	7
38	Copper(ii), cobalt(ii), manganese(ii) and nickel(ii) bis(hexafluoroacetylacetonate) complexes with N-vinylimidazole. Mendeleev Communications, 2020, 30, 246-248.	0.6	7
39	(O-Si)-Chelate acetic and benzoic acid N-(fluorosilylmethyl)amides: synthesis and structure. Russian Chemical Bulletin, 2022, 71, 354-362.	0.4	7
40	Solvatochromism of heteroaromatic compounds: XXX. N-Methyltrifluoromethanesulfonamide as hydrogen-bond donor. Russian Journal of General Chemistry, 2007, 77, 84-89.	0.3	6
41	N-trimethylsilyl carboxamides RC(O)NHSiMe ₃ (R = Me, CF ₃ , Ph): X-ray, DFT and FTIR study. Journal of Molecular Structure, 2015, 1098, 408-415.	1.8	6
42	Microwave-assisted synthesis of 2,5-diarylthiazolo[5,4-d]thiazoles from benzaldehydes and dithiooxamide. Russian Journal of Organic Chemistry, 2015, 51, 373-377.	0.3	6
43	Unusual [2+2]-cycloaddition of carbodiimides to N-alkenylidenetriamides. Tetrahedron Letters, 2016, 57, 4440-4442.	0.7	6
44	Silylation of N-(2-hydroxyphenyl)acetamide by methyl(organyl)dichlorosilanes: Structure and properties of resulting heterocycles. Journal of Organometallic Chemistry, 2017, 846, 88-99.	0.8	6
45	1-[N-phenyl(aminomethyl)]silatrane: Synthesis, reactivity and structure. Journal of Organometallic Chemistry, 2019, 898, 120870.	0.8	6
46	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
47	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
48	Stereoelectronic structure and self-association of N-trimethylsilylsulfonamides RSO ₂ NHSiMe ₃ (R =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.3	5
49	N-[Chloro(dimethyl)silyl]methyl-N,N-diphenylurea: Synthesis and structure. Journal of Organometallic Chemistry, 2018, 867, 62-66.	0.8	5
50	Molecular and crystal structures of tris(3-methylphenyl)phosphine and its chalcogenides. Journal of Molecular Structure, 2019, 1197, 681-690.	1.8	5
51	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
52	Molecular structure of $\hat{1}^2$ -oxy-bis-acrylamides on the pathway of the dimers formation. DFT and FTIR study. Journal of Molecular Structure, 2020, 1202, 127298.	1.8	5
53	N-[(Trifluorosilyl)methyl]carboxanilides: Synthesis and structural features. Journal of Organometallic Chemistry, 2021, 940, 121788.	0.8	5
54	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

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55	Silylated derivatives OF N-(2-hydroxyphenyl)acetamide: Synthesis and structure. <i>Journal of Molecular Structure</i> , 2016, 1122, 10-17.	1.8	4
56	Cyclization of trifluoro-N-(prop-2-yn-1-yl)methanesulfonamides to N-(hydroxymethyl)-1,2,3-triazoles. <i>Russian Journal of Organic Chemistry</i> , 2016, 52, 1032-1035.	0.3	4
57	Crystal and molecular structure of 1-(iodomethyl)- and 1-(iodopropyl)silatranes. <i>Journal of Structural Chemistry</i> , 2016, 57, 209-212.	0.3	4
58	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
59	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
60	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
61	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
62	Crystal and molecular structures of Si -(iodomethyl)silatranes with methyl substituents in $\hat{1}^2$ -position relative to the nitrogen atom. <i>Mendeleev Communications</i> , 2018, 28, 278-280.	0.6	4
63	Crystal structures of $[\text{Cu}_2(2,2\text{-bipyridine-N,N}\epsilon^2)2(\text{H}_2\text{O})2(\frac{1}{4}\text{-OH})_2](\text{barbiturate})_2\cdot 2\text{H}_2\text{O}$ and $[\text{Cu}(2,2\text{-bipyridine-N,N}\epsilon^2)(\text{H}_2\text{O})(\text{barbiturate-O})\text{Cl}]\cdot 2\text{H}_2\text{O}$. <i>Inorganic Chemistry Communication</i> , 2018, 97, 88-92.	1.8	4
64	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
65	Iodotriflamdation vs. Electrophilic Aromatic Iodination in the Reaction of N ϵ -Phenyltriflamide with Alkenes. <i>ChemistrySelect</i> , 2018, 3, 5960-5964.	0.7	4
66	Supramolecular structure of the product of unusual $[2\text{C}=\text{C}\hat{A}+\hat{A}2\text{C}=\text{N}]$ cycloaddition of dicyclohexylcarbodiimide to N-(3-methylbut-2-en-1-ylidene)triflamide. <i>Journal of Molecular Structure</i> , 2022, 1250, 131676.	1.8	4
67	Urea and thiourea complexes with trifluoromethanesulfonic acid and its derivatives. <i>Russian Journal of Organic Chemistry</i> , 2014, 50, 1247-1251.	0.3	3
68	Novel 1,3-diethyl-2-thiobarbiturates of 2,2 ϵ^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
69	Synthesis, structural and spectroscopic features of 2,2,2-trichloro-N-[(trimethylsilyl)methyl]acetamide and 2,2,2-trimethyl-N-[(trimethylsilyl)methyl]acetamide. <i>Journal of Molecular Structure</i> , 2019, 1184, 200-206.	1.8	3
70	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
71	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
72	N, N ϵ^2 -Bis(trifluoromethanesulfonyl) Dicarboxylic Acid Amides. <i>Russian Journal of Organic Chemistry</i> , 2020, 56, 63-67.	0.3	3

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73	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
74	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
75	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
76	Synthesis of N-[chloro(diorganyl)silyl]anilines. <i>Russian Journal of General Chemistry</i> , 2014, 84, 883-887.	0.3	2
77	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
78	Potassium 3-oxo-2,3-dihydro-1H-inden-4-olate: Formation, molecular and electronic structure. <i>Journal of Molecular Structure</i> , 2016, 1123, 44-48.	1.8	2
79	Crystal structure and properties of polymeric hexaaqua-hexakis-(2-thiobarbiturato)-disamarium(III). <i>Journal of Structural Chemistry</i> , 2017, 58, 539-543.	0.3	2
80	Paramagnetic Cull complexes with 1-(hetarylmethyl)silatranes. <i>Russian Chemical Bulletin</i> , 2017, 66, 2276-2282.	0.4	2
81	Structure and Thermal Decomposition of Nd(III), Gd(III) and Tb(III) 2-Thiobarbiturates. <i>Russian Journal of Inorganic Chemistry</i> , 2019, 64, 1146-1151.	0.3	2
82	Synthesis and structural features of N-[(2-(trimethylsilyl)oxy)phenyl]-arylsulfonamides. <i>Journal of Molecular Structure</i> , 2019, 1198, 126782.	1.8	2
83	Three-Component Reaction of Sulfonamides with Acetylene and Amines. <i>Russian Journal of Organic Chemistry</i> , 2019, 55, 179-185.	0.3	2
84	Structure of bis(2-Thiobarbiturate)Tris (2,2-Bipyridyl)Nickel(II) Hexahydrate. <i>Journal of Structural Chemistry</i> , 2019, 60, 111-116.	0.3	2
85	Molecular structure of complexes with a bifurcated hydrogen bond. 5. Dimers of 3-hydroxy-2-methyl-4-pyrone in inert media. <i>Chemistry of Heterocyclic Compounds</i> , 2006, 42, 1404-1413.	0.6	1
86	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. <i>Russian Journal of Organic Chemistry</i> , 2008, 44, 270-273.	0.3	1
87	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
88	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
89	Reaction of (chloromethyl)trichlorosilane with 2,2-dimethylpropane-1,3-diol. <i>Russian Chemical Bulletin</i> , 2017, 66, 2339-2342.	0.4	1
90	CRYSTAL STRUCTURE OF NORFLOXACINIUM AND 2,2-BIPYRIDYL-1-IUM 2-THIOBARBITURATES. <i>Journal of Structural Chemistry</i> , 2020, 61, 1639-1647.	0.3	1

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91	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
92	Conformational structure of N-(silylmethyl)anilines PhNHCH ₂ SiMe _n (OEt) _{3-n} (n = 0–3). <i>Russian Journal of General Chemistry</i> , 2014, 84, 1121-1125.	0.3	0
93	Structure of Barbituratobis(2,2'-Dipyridyl)copper(II) Heptahydrate. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2019, 45, 569-572.	0.3	0
94	1,3-Dimethoxy-1,3-dimethyl-1,3-diphenyl- and 1,3-dimethoxy-1,3-tetraphenyldisiloxanes: synthesis and structure. <i>Russian Chemical Bulletin</i> , 2019, 68, 1580-1584.	0.4	0
95	N-(2,3-Dihydroxy-4-iodo-2,3-dimethylbutyl)trifluoroacetamide: Hydrogen Bonds in Crystal and Solution. <i>Russian Journal of General Chemistry</i> , 2019, 89, 1564-1569.	0.3	0
96	O-Trimethylsilyl-N-phenylsulfonylacetimidate: Synthesis and Structure. <i>Russian Journal of General Chemistry</i> , 2020, 90, 1641-1645.	0.3	0
97	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
98	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
99	10.1007/s11178-008-2014-7. , 2010, 44, 270.		0