

# Robert Fayzullin

## List of Publications by Year in descending order

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92  
papers

1,139  
citations

430442

18  
h-index

500791

28  
g-index

112  
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112  
docs citations

112  
times ranked

1033  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-Inspired Mn(I) Complexes for the Hydrogenation of CO <sub>2</sub> to Formate and Formamide. ACS Catalysis, 2017, 7, 3864-3868.	5.5	179
2	Transfer Hydrogenation of Carbonyl Groups, Imines and <i>N</i> -Heterocycles Catalyzed by Simple, Bipyridine-Based Mn <sup>I</sup> Complexes. ChemCatChem, 2019, 11, 3844-3852.	1.8	44
3	Chiral drug timolol maleate as a continuous solid solution: Thermochemical and single crystal X-ray evidence. CrystEngComm, 2012, 14, 648-655.	1.3	35
4	The Assembly of Unique Hexanuclear Copper(I) Complexes with Effective White Luminescence. Inorganic Chemistry, 2019, 58, 1048-1057.	1.9	34
5	Orbital-Free Quantum Crystallographic View on Noncovalent Bonding: Insights into Hydrogen Bonds, $\pi$ - $\pi$ and Reverse Electron Lone Pair- $\pi$ Interactions. Chemistry - A European Journal, 2021, 27, 7789-7809.	1.7	30
6	Chiral para-alkyl phenyl ethers of glycerol: synthesis and testing of chirality driven crystallization, liquid crystal, and gelating properties. Tetrahedron: Asymmetry, 2013, 24, 807-816.	1.8	29
7	Crystallization Features of the Chiral Drug Timolol Precursor: The Rare Case of Conglomerate with Partial Solid Solutions. Crystal Growth and Design, 2014, 14, 1676-1683.	1.4	29
8	Metal-metal cooperative bond activation by heterobimetallic alkyl, aryl, and acetylide Pt <sup>II</sup> /Cu <sup>I</sup> complexes. Chemical Science, 2020, 11, 5494-5502.	3.7	29
9	Adamantyl thioureas as soluble epoxide hydrolase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2302-2313.	1.0	27
10	Nickel(II) Complexes with Electron-Rich, Sterically Hindered PNP Pincer Ligands Enable Uncommon Modes of Ligand Dearomatization. Organometallics, 2019, 38, 4433-4447.	1.1	24
11	Dynamic Pd <sup>II</sup> /Cu <sup>I</sup> Multimetallic Assemblies as Molecular Models to Study Metal-Metal Cooperation in Sonogashira Coupling. Chemistry - A European Journal, 2020, 26, 12168-12179.	1.7	23
12	Photoinduced Trifluoromethylation of Arenes and Heteroarenes Catalyzed by High-Valent Nickel Complexes. Angewandte Chemie - International Edition, 2021, 60, 24620-24629.	7.2	23
13	Intricate Phase Behavior and Crystal Structure Features of Chiral <i>p</i> -Methoxyphenyl Glycerol Ether Forming Continuous and Partial Solid Solutions. Crystal Growth and Design, 2017, 17, 271-283.	1.4	22
14	Hydrogenation of Alkenes Catalyzed by a Non-pincer Mn Complex. ChemCatChem, 2020, 12, 5912-5918.	1.8	22
15	Controlled and Reversible Stepwise Growth of Linear Copper(I) Chains Enabled by Dynamic Ligand Scaffolds. Angewandte Chemie - International Edition, 2017, 56, 16267-16271.	7.2	21
16	Crystal structure and phase behavior of the tolyl glycerol ethers. From the conglomerate former to the chirality-driven nanogelator. CrystEngComm, 2012, 14, 211-222.	1.3	20
17	Intriguing Near-Infrared Solid-State Luminescence of Binuclear Silver(I) Complexes Based on Pyridylphospholane Scaffolds. Inorganic Chemistry, 2019, 58, 7698-7704.	1.9	20
18	Intramolecular non-covalent interactions as a strategy towards controlled photoluminescence in copper( <sup>sc</sup> <sub>i</sub> ) complexes. Journal of Materials Chemistry C, 2017, 5, 1638-1645.	2.7	18

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19	Structural aspects of partial solid solution formation: two crystalline modifications of a chiral derivative of 1,5-dihydro-2 <i>H</i> -pyrrol-2-one under consideration. <i>CrystEngComm</i> , 2017, 19, 7277-7286.	1.3	18
20	Stable Nickel(I) Complexes with Electron-Rich, Sterically-Hindered, Innocent PNP Pincer Ligands. <i>Organometallics</i> , 2019, 38, 1581-1594.	1.1	18
21	Triboluminescence of a new family of Cu <sup>I</sup> -NHC complexes in crystalline solid and in amorphous polymer films. <i>Chemical Science</i> , 2020, 11, 10814-10820.	3.7	17
22	Intermolecular <i>head-to-head</i> interaction of carbonyl groups in bicyclic hydrogen-bonded synthon based on $\beta^2$ -hydroxy ketones. <i>CrystEngComm</i> , 2019, 21, 1587-1599.	1.3	16
23	X-ray Charge Density Study of the Drug Methimazole with $Z = 2$ : Differences in the Electronic Structure of the Thiourea Core due to Crystal Packing Effects. <i>Crystal Growth and Design</i> , 2020, 20, 2074-2090.	1.4	16
24	Copper or Silver-Mediated Oxidative C(sp <sup>2</sup> )-H/N-H Cross-Coupling of Phthalimide and Heterocyclic Arenes: Access to <i>N</i> -Arylphthalimides. <i>Organometallics</i> , 2019, 38, 3617-3628.	1.1	15
25	Cyclometalated Nickel Complexes as Key Intermediates in C(sp <sup>2</sup> )-H Bond Functionalization: Synthesis, Catalysis, Electrochemical Properties, and DFT Calculations. <i>Organometallics</i> , 2019, 38, 1254-1263.	1.1	15
26	Solubility and Some Crystallization Properties of Conglomerate Forming Chiral Drug Guaifenesin in Water. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 3176-3182.	1.6	14
27	$\alpha$ -Doubly enantiophobic behavior during crystallization of racemic 1,5-dihydro-2 <i>H</i> -pyrrol-2-one thioether. <i>CrystEngComm</i> , 2018, 20, 3218-3227.	1.3	14
28	Three-Component [1 + 1 + 1] Cyclopropanation with Ruthenium(II). <i>Organometallics</i> , 2018, 37, 2609-2617.	1.1	14
29	Facile and reversible double dearomatization of pyridines in non-phosphine Mn <sup>I</sup> complexes with N,S-donor pyridinophane ligand. <i>Chemical Communications</i> , 2019, 55, 3282-3285.	2.2	14
30	Highly sensitive mechano-controlled luminescence in polymer films modified by dynamic Cu <sup>I</sup> -based cross-linkers. <i>Chemical Communications</i> , 2020, 56, 50-53.	2.2	14
31	Controlled and Reversible Stepwise Growth of Linear Copper(I) Chains Enabled by Dynamic Ligand Scaffolds. <i>Angewandte Chemie</i> , 2017, 129, 16485-16489.	1.6	13
32	Crystallographic evidence of side-arm lariat effect in the series of chiral ortho- and para-methoxyphenoxymethyl-15-crown-5 complexes with sodium perchlorate. <i>Journal of Molecular Structure</i> , 2013, 1032, 176-184.	1.8	12
33	Real-Space Interpretation of Interatomic Charge Transfer and Electron Exchange Effects by Combining Static and Kinetic Potentials and Associated Vector Fields**. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	12
34	Interplay between the Conformational Flexibility and Photoluminescent Properties of Mononuclear Pyridinophanecopper(I) Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 10009-10027.	1.9	11
35	Unusual rearrangement of modified PNP ligand based Ru complexes relevant to alcohol dehydrogenation catalysis. <i>Chemical Communications</i> , 2019, 55, 11350-11353.	2.2	11
36	Aryl-X Bond-Forming Reductive Elimination from High-Valent Mn-Aryl Complexes. <i>Organometallics</i> , 2019, 38, 4409-4419.	1.1	11

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37	Phosphine-catalyzed bishydrophosphorylation of electron-deficient alkynes. <i>Tetrahedron</i> , 2019, 75, 2676-2686.	1.0	11
38	X-ray charge density study of the 6-methyluracil derivative in the crystal: Revealing, consequences, and multipole refinement of minor static disorder. <i>Journal of Molecular Structure</i> , 2021, 1228, 129724.	1.8	11
39	Assembly of Heterometallic AuCu <sub>2</sub> I <sub>2</sub> Cores on the Scaffold of NPPN-Bridging Cyclic Bisphosphine. <i>Inorganic Chemistry</i> , 2021, 60, 5402-5411.	1.9	11
40	Conglomerate formative precursor of chiral drug timolol: 3-(4-Morpholino-1,2,5-thiadiazol-3-yloxy)-propane-1,2-diol. <i>Journal of Molecular Structure</i> , 2015, 1088, 111-117.	1.8	10
41	Cobalt Complexes of Bulky PNP Ligand: H <sub>2</sub> Activation and Catalytic Two-Electron Reactivity in Hydrogenation of Alkenes and Alkynes. <i>Organometallics</i> , 2021, 40, 3617-3626.	1.1	10
42	Crystallization of Chiral <i>para</i> - <i>n</i> -Alkylphenyl Glycerol Ethers: Phase Diversity and Impressive Predominance of Homochiral Guaifenesin-Like Supramolecular Motif. <i>Crystal Growth and Design</i> , 2018, 18, 3980-3987.	1.4	9
43	Synthesis of water-soluble bis-N,O-chelate nickel(II) complexes based on new ligands “P-pyridyl-containing phospholane oxides. <i>Russian Chemical Bulletin</i> , 2018, 67, 1206-1211.	0.4	8
44	Proton-responsive naphthyridinone-based Ru <sup>II</sup> complexes and their reactivity with water and alcohols. <i>Dalton Transactions</i> , 2020, 49, 12756-12766.	1.6	8
45	The second example of doubly enantiophobic behavior during crystallization: a detailed crystallographic, thermochemical and spectroscopic study. <i>CrystEngComm</i> , 2021, 23, 3907-3918.	1.3	8
46	New Charge Transfer Cocrystals of F <sub>2</sub> TCNQ with Polycyclic Aromatic Hydrocarbons: Acceptor–Acceptor Interactions and Their Contribution to Supramolecular Arrangement and Charge Transfer. <i>Crystal Growth and Design</i> , 2022, 22, 751-762.	1.4	8
47	Phase behavior and crystal structure of 3-(1-naphthyloxy)- and 3-(4-indolyloxy)-propane-1,2-diol, synthetic precursors of chiral drugs propranolol and pindolol. <i>Journal of Molecular Structure</i> , 2013, 1045, 104-111.	1.8	7
48	Tandem dihetero-Diels–Alder and Huisgen cycloaddition reactions. Synthesis, crystal structure and hydrolysis of the novel cage phosphoranes. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3113-3128.	2.3	7
49	One–Electron Reduction of Acenaphthene–1,2–Diimine Nickel(II) Complexes. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2979-2987.	1.7	7
50	Packing Polymorphism on the Example of 5-Hydroxy-1-(4-Methylbenzyl)-3-Chloro-4-[(4-Chlorophenyl)Sulfanyl]-1,5-Dihydro-2H-Pyrrol-2-One: A Crystallographic, Thermochemical, and Spectroscopic Study. <i>Journal of Structural Chemistry</i> , 2020, 61, 476-488.	0.3	7
51	Electrochemical and catalytic properties of nickel(II) complexes with bis(imino)acenaphthene and diazadiphosphacyclooctane ligands. <i>Mendeleev Communications</i> , 2020, 30, 302-304.	0.6	7
52	CHIRALITY-DEPENDENT HYDROGEN BONDING AND ENERGY OF 1-BENZYL-3-BROMO-5-HYDROXY-4-[(4-METHYLPHENYL)SULFANYL]-1,5-DIHYDRO- 2H-PYRROLE-2-ONE DIASTEREOMORPHS. <i>Journal of Structural Chemistry</i> , 2021, 62, 727-739.	0.3	7
53	Construction of modular Pd/Cu multimetallic chains <i>via</i> ligand- and anion-controlled metal–metal interactions. <i>Chemical Communications</i> , 2021, 57, 10206-10209.	2.2	7
54	[Co(NHC)(CO) <sub>3</sub> ]: Isolation and Reactivity Study of a Model 17-Electron Species in the Oxo Process. <i>Organometallics</i> , 2021, 40, 500-507.	1.1	7

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55	On the transfer of theoretical multipole parameters for restoring static electron density and revealing and treating atomic anharmonic motion. Features of chemical bonding in crystals of an isocyanuric acid derivative. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 871-891.	0.5	7
56	Thermally Stable Nitrothiacalixarene Chromophores: Conformational Study and Aggregation Behavior. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6916.	1.8	6
57	Synthesis and extraction properties of some lariat ethers derived from the spontaneously resolved guaifenesin, 3-(2-methoxyphenoxy)propane-1,2-diol. <i>Arkivoc</i> , 2011, 2011, 16-32.	0.3	6
58	Bulky PNP ligands blocking metal-ligand cooperation allow for isolation of Ru(0), and lead to catalytically active Ru complexes in acceptorless alcohol dehydrogenation. <i>Chemistry - A European Journal</i> , 2021, , .	1.7	6
59	Lariat ethers in the chiral recognition of amino acid esters: electrospray ionization mass spectrometry investigation. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 80, 417-426.	0.9	5
60	Synthesis and some features of phase behavior of chiral p-alkoxyphenyl glycerol ethers. <i>Russian Journal of Organic Chemistry</i> , 2015, 51, 202-209.	0.3	5
61	Copper(II) Complexes with N,O-Hybrid Ligands based on Pyridyl-Containing Phospholane Oxides. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2020, 46, 600-607.	0.3	5
62	Photoinduced Trifluoromethylation of Arenes and Heteroarenes Catalyzed by High-valent Nickel Complexes. <i>Angewandte Chemie</i> , 2021, 133, 24825-24834.	1.6	5
63	H <sub>2</sub> , B-H, and Si-H Bond Activation and Facile Protonolysis Driven by Pt-Base Metal Cooperation. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	5
64	Mass spectrometric investigation of the side-arm lariat effect of ortho- and para-methoxyphenoxy-methyl-15-crown-5 in the gas phase. <i>Journal of Analytical Chemistry</i> , 2013, 68, 1178-1182.	0.4	4
65	From racemic epichlorohydrin to a single enantiomer of the drug timolol maleate. <i>Tetrahedron: Asymmetry</i> , 2015, 26, 797-801.	1.8	4
66	Reactions of Arylenedioxytrihalophosphoranes with Acetylenes: XV.1 Reaction of 2,2,2-Tribromo-4,6-di-tert-butylbenzo-1,3,2λ <sup>5</sup> -dioxaphospholedioxaphosphole with Pent-1-yne. <i>Russian Journal of General Chemistry</i> , 2018, 88, 2290-2295.	0.3	4
67	Crystal Structure of Dacarbazine, Metoclopramide, and Acetylcholine Pentacyanopropenides. <i>Journal of Structural Chemistry</i> , 2020, 61, 928-937.	0.3	4
68	Chirality, Gelation Ability and Crystal Structure: Together or Apart? Alkyl Phenyl Ethers of Glycerol as Simple LMWGs. <i>Symmetry</i> , 2021, 13, 732.	1.1	4
69	Comparative analysis of interactions of some lariat crown ethers and their unsubstituted analogues with alkali metal salts in the gas phase by MALDI mass spectrometry. <i>Journal of Analytical Chemistry</i> , 2014, 69, 1229-1236.	0.4	3
70	Reversible temperature-responsive emission in solutions within 293-333 K produced by dissociative behavior of multinuclear Cu(I) complexes with aminomethylphosphines. <i>Inorganica Chimica Acta</i> , 2019, 498, 119125.	1.2	3
71	Synthesis and structure of stereoisomers of 3,4-benzo-5,10-diphenyl-1,3-diaza-7-oxa-6-phosphabicyclo[4.3.1]decane-2,6-dione. <i>Mendeleev Communications</i> , 2019, 29, 150-152.	0.6	3
72	2,2,2-Trichloro-4-methoxy-1,3,2-benzodioxaphosphole in the reactions with terminal acetylenes. <i>Mendeleev Communications</i> , 2020, 30, 34-37.	0.6	3

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73	Reaction of R-pulegone with P <sup>+</sup> H phosphonium salts. <i>Mendeleev Communications</i> , 2020, 30, 700-702.	0.6	3
74	Crystal Structure of Chiral Drug Prenalterol and Its Precursor Prone to Spontaneous Resolution. <i>Symmetry</i> , 2022, 14, 1150.	1.1	3
75	[2-(2-Nitrophenyl)oxiran-1-yl](aryl(methyl))ketones in the synthesis of 3-hydroxyquinolin-4(1H)-ones and 2-arylquinolines. <i>Russian Chemical Bulletin</i> , 2019, 68, 1020-1024.	0.4	2
76	Synthesis of racemic P-chiral phosphine oxides and phosphonium salts by stepwise reaction of phosphacoumarins with organomagnesium compounds. <i>Journal of Organometallic Chemistry</i> , 2020, 918, 121313.	0.8	2
77	C <sup>+</sup> C Bond Elimination from High-Valent Mn Aryl Complexes. <i>Organometallics</i> , 2021, 40, 2320-2331.	1.1	2
78	Transformations of triple-bridged binuclear copper(I) complexes based on P,N-ligands under aerobic recrystallization. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2022, 197, 620-624.	0.8	2
79	Synthesis and Properties of N,N <sup>+</sup> -Disubstituted Ureas and Their Isosteric Analogs Containing Polycyclic Fragments: XIV. N-[(Adamantan-1-yl)(phenyl)methyl]-N <sup>+</sup> -substituted Ureas and Symmetrical Bis-ureas. <i>Russian Journal of Organic Chemistry</i> , 2022, 58, 259-267.	0.3	2
80	Chiral lariat ethers based on spontaneously resolved 3-(2-cyanophenoxy)propane-1,2-diol. <i>Russian Journal of Organic Chemistry</i> , 2014, 50, 611-613.	0.3	1
81	Chiral (2-cyanophenoxy)methyl-15-crown-5 in diastereomeric discrimination of amino acid esters according to the data of electrospray ionization mass spectrometry. <i>Russian Journal of Organic Chemistry</i> , 2015, 51, 1642-1648.	0.3	1
82	3-(4-Phosphoryl-4-methyl-2-oxopentyl)-3-hydroxyindolin-2-ones, the first phosphorus analogues of natural convolutamydines. <i>Mendeleev Communications</i> , 2018, 28, 292-294.	0.6	1
83	The reaction of 4-(1,3,2-benzodioxaphosphol-2-yloxy)-3-tert-butylpent-4-en-2-one with hexafluoroacetone. <i>Mendeleev Communications</i> , 2019, 29, 506-508.	0.6	1
84	Insight into the influence of terminal ligands on magnetic exchange coupling in a series of dimeric copper(II) acetate adducts. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26145.	1.0	1
85	Polymorphism in a benzo[b][1,4]diazepine derivative: Crystal structure, phase behavior and selective influence of solvents. <i>Mendeleev Communications</i> , 2022, 32, 274-277.	0.6	1
86	Synthesis and coordination properties of phospholanopyridinium hydrochlorides. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 502-505.	0.8	0
87	Bis-chelate nickel(II) complex with a 1,5-diaza-3,7-diphosphacyclooctane ligand: Solid-state structure and redox properties. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 337-338.	0.8	0
88	Bis-chelate iron(II) complex with a 1,5-diaza-3,7-diphosphacyclooctane ligand: X-ray structure and redox properties. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 353-354.	0.8	0
89	Phase transitional behaviour and charge-density study of the drug methimazole. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e367-e367.	0.0	0
90	Unexpected polymorphic behaviour of four racemic 3-pyrrolin-2-one derivatives. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e463-e463.	0.0	0

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91	Intermolecular head-to-head interactions of carbonyl and thiocarbonyl groups. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e499-e499.	0.0	0
92	Cover Feature: H <sub>2</sub> , B-H, and Si-H Bond Activation and Facile Protonolysis Driven by Pt-Base Metal Cooperation (Chem. Eur. J. 44/2022). Chemistry - A European Journal, 2022, 28, .	1.7	0