

Sergey Baykov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The first one-pot ambient-temperature synthesis of 1,2,4-oxadiazoles from amidoximes and carboxylic acid esters. <i>Tetrahedron</i> , 2017, 73, 945-951.	1.0	60
2	Pt/Pd and I/Br Isostructural Exchange Provides Formation of Câ€“IÂˆÂˆPd, Câ€“BrÂˆÂˆPt, and Câ€“BrÂˆÂˆPd Metal-Involving Halogen Bonding. <i>Crystal Growth and Design</i> , 2018, 18, 5973-5980.	1.4	52
3	Continued exploration of 1,2,4-oxadiazole periphery for carbonic anhydrase-targeting primary arene sulfonamides: Discovery of subnanomolar inhibitors of membrane-bound hCA IX isoform that selectively kill cancer cells in hypoxic environment. <i>European Journal of Medicinal Chemistry</i> , 2019, 164, 92-105.	2.6	52
4	Heterocyclic periphery in the design of carbonic anhydrase inhibitors: 1,2,4-Oxadiazol-5-yl benzenesulfonamides as potent and selective inhibitors of cytosolic hCA II and membrane-bound hCA IX isoforms. <i>Bioorganic Chemistry</i> , 2018, 76, 88-97.	2.0	44
5	A convenient and mild method for 1,2,4-oxadiazole preparation: cyclodehydration of O-acylamidoximes in the superbase system MOH/DMSO. <i>Tetrahedron Letters</i> , 2016, 57, 2898-2900.	0.7	37
6	Reverse Sandwich Structures from Interplay between Lone Pair ^π -Hole Atom-Directed C _A ·A·d _{sub} ² [M] and Halogen Bond Interactions. <i>Crystal Growth and Design</i> , 2020, 20, 995-1008.	1.4	35
7	1,2,4-Oxadiazole/2-Imidazoline Hybrids: Multi-target-directed Compounds for the Treatment of Infectious Diseases and Cancer. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1699.	1.8	33
8	Novel monoamine oxidase inhibitors based on the privileged 2-imidazoline molecular framework. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 40-46.	1.0	32
9	Ï€Ï€ Noncovalent Interaction Involving 1,2,4- and 1,3,4-Oxadiazole Systems: The Combined Experimental, Theoretical, and Database Study. <i>Molecules</i> , 2021, 26, 5672.	1.7	32
10	Room-temperature synthesis of pharmaceutically important carboxylic acids bearing the 1,2,4-oxadiazole moiety. <i>Tetrahedron Letters</i> , 2017, 58, 3672-3677.	0.7	31
11	One-Pot Route to X-perfluoroarenes (X = Br, I) Based on Fe ^{III} -Assisted Câ€“F Functionalization and Utilization of These Arenes as Building Blocks for Crystal Engineering Involving Halogen Bonding. <i>Crystal Growth and Design</i> , 2020, 20, 5908-5921.	1.4	30
12	Facile room-temperature assembly of the 1,2,4-oxadiazole core from readily available amidoximes and carboxylic acids. <i>Tetrahedron Letters</i> , 2018, 59, 2824-2827.	0.7	29
13	Electron belt-to-Ïƒ-hole switch of noncovalently bound iodine (^{Ïƒ}) atoms in dithiocarbamate metal complexes. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2505-2517.	3.0	25
14	Pyridazinone-substituted benzenesulfonamides display potent inhibition of membrane-bound human carbonic anhydrase IX and promising antiproliferative activity against cancer cell lines. <i>European Journal of Medicinal Chemistry</i> , 2019, 168, 301-314.	2.6	24
15	CopperÏ€Catalyzed Selective NÏ€Arylation of Oxadiazolones by Diaryliodonium Salts. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 3566-3576.	2.1	21
16	Convenient entry to N-pyridinylureas with pharmaceutically privileged oxadiazole substituents via the acid-catalyzed C H activation of N-oxides. <i>Tetrahedron Letters</i> , 2019, 60, 151108.	0.7	20
17	Application of amidoximes for the heterocycles synthesis. <i>Tetrahedron Letters</i> , 2020, 61, 152403.	0.7	20
18	AreneÏ€Ruthenium(II) Complexes Containing 11^H-Indeno[1,2- <i>b</i>]quinoxalin-11-one Derivatives and Tryptanthrin-6-oxime: Synthesis, Characterization, Cytotoxicity, and Catalytic Transfer Hydrogenation of Aryl Ketones. <i>ACS Omega</i> , 2020, 5, 11167-11179.	1.6	20

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19	One-Pot Synthesis of 3,5-Disubstituted 1,2,4-Oxadiazoles Using Catalytic System NaOHâ€DMSO. Russian Journal of Organic Chemistry, 2018, 54, 1250-1255.	0.3	19
20	An efficient synthesis and antimicrobial evaluation of 5-alkenyl- and 5-styryl-1,2,4-oxadiazoles. Arkivoc, 2019, 2018, 458-470.	0.3	19
21	Deprotonated diaminocarbene platinum complexes for thermoresponsive luminescent silicone materials: both catalysts and luminophores. Dalton Transactions, 2021, 50, 14994-14999.	1.6	19
22	Noncovalent Sulfoxideâ€Nitrile Coupling Involving Four-Center Heteroleptic Dipoleâ€Dipole Interactions between the Sulfinyl and Nitrile Groups. Crystal Growth and Design, 2020, 20, 3417-3428.	1.4	17
23	Formation and cyclization of Nâ€ ² -(benzoyloxy)benzenecarboximidamides. Russian Journal of Organic Chemistry, 2011, 47, 1874-1877.	0.3	15
24	Diastereoselective Opening of Bridged Anhydrides by Amidoximes Providing Access to 1,2,4-Oxadiazole/Norborna(e)ne Hybrids. European Journal of Organic Chemistry, 2019, 2019, 5685-5693.	1.2	13
25	Metal-Free Functionalization of Azine N-Oxides with Electrophilic Reagents. Chemistry of Heterocyclic Compounds, 2020, 56, 814-823.	0.6	12
26	Catalyst-free synthesis of substituted pyridin-2-yl, quinolin-2-yl, and isoquinolin-1-yl carbamates from the corresponding hetaryl ureas and alcohols. Organic and Biomolecular Chemistry, 2021, 19, 6059-6065.	1.5	12
27	Entry into (E)-3-(1,2,4-oxadiazol-5-yl)acrylic acids via a one-pot ring-opening/ring-closing/retro-Diels-Alder reaction sequence. Tetrahedron Letters, 2020, 61, 151543.	0.7	11
28	Synthesis, Structure, and Antiproliferative Action of 2-Pyridyl Urea-Based Cu(II) Complexes. Biomedicines, 2022, 10, 461.	1.4	10
29	2,5-Dibromothiophenes: Halogen Bond Involving Packing Patterns and Their Relevance to Solid-State Polymerization. Crystal Growth and Design, 2021, 21, 2526-2540.	1.4	9
30	Azine Steric Hindrances Switch Halogen Bonding to Nâ€Arylation upon Interplay with â€Hole Donating Haloarenenitriles. Chemistry - an Asian Journal, 2021, 16, 1445-1455.	1.7	9
31	Cyclometallated Platinum(II) Complexes for Obtaining Phenyl-Containing Silicone Rubbers via Catalytic Hydrosilylation Reaction. Russian Journal of General Chemistry, 2022, 92, 79-84.	0.3	9
32	â€Urea to Ureaâ€Approach: Access to Unsymmetrical Ureas Bearing Pyridyl Substituents. Advanced Synthesis and Catalysis, 2022, 364, 1295-1304.	2.1	9
33	Inorganicâ€organic {d_z-M^{II}S₄}â€hole stacking in reverse sandwich structures: the case of cocrystals of group 10 metal dithiocarbamates with electron-deficient arenes. Inorganic Chemistry Frontiers, 2022, 9, 2869-2879.	3.0	9
34	Intermolecular hydrogen bonding Hâ€Cl in crystal structure of palladium(II)-bis<i>(diaminocarbene)</i> complex. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 155-164.	0.4	8
35	Copper<sc>i</sc> ionic complexes based on imidazo[4,5- <i>f</i>][1,10]phenanthroline diimine chelating ligands: crystal structures, and photo- and electroluminescence properties. New Journal of Chemistry, 2020, 44, 110-120.	1.4	8
36	Synthesis and Evaluation of Antibacterial Activity of 1,2,4-Oxadiazole-Containing Biphenylcarboxylic Acids. Russian Journal of General Chemistry, 2020, 90, 1611-1619.	0.3	8

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37	Reaction of amidoximes with acetonitrile at high pressure. <i>Mendeleev Communications</i> , 2016, 26, 264-265.	0.6	6
38	Selective reduction of 5-alkenyl-3-(nitrophenyl)-1,2,4-oxadiazoles to 5-alkenyl-3-(aminophenyl)-1,2,4-oxadiazoles. <i>Russian Journal of Organic Chemistry</i> , 2017, 53, 1085-1089.	0.3	6
39	An Efficient Chemoenzymatic Process for Preparation of Ribavirin. <i>International Journal of Chemical Engineering</i> , 2015, 2015, 1-5.	1.4	5
40	Synthesis and Properties of C,N-Chelated Carbene Complexes of Palladium(II) with 2-Aminobenzo[d]thiazole Fragment. <i>Russian Journal of General Chemistry</i> , 2019, 89, 2062-2068.	0.3	4
41	Synthesis and Study of the Structure of Palladium(II) Acyclic Diaminocarbene Complexes Containing a 1,2,4-Oxadiazole Moiety. <i>Russian Journal of General Chemistry</i> , 2020, 90, 1892-1900.	0.3	4
42	2-(1,2,4-Oxadiazol-5-yl)anilines Based on Amidoximes and Isatoic Anhydrides: Synthesis and Structure Features. <i>Russian Journal of General Chemistry</i> , 2021, 91, 768-778.	0.3	4
43	Synthesis and Structural Characterization of Half-Sandwich Arene π -Ruthenium(II) Complexes with Bis(imidazol-1-yl)methane, Imidazole and Benzimidazole. <i>Inorganics</i> , 2021, 9, 34.	1.2	4
44	Diaminocarbene Complexes of Palladium(II) Containing 2-Aminooxazole and 2-Aminothiazole Heterocyclic Ligands as Potential Antitumor Agents. <i>Pharmaceutical Chemistry Journal</i> , 2021, 55, 130-132.	0.3	4
45	Dualism of 1,2,4-oxadiazole ring in noncovalent interactions with carboxylic group. <i>Journal of Molecular Structure</i> , 2022, 1262, 132974.	1.8	4
46	External oxidant-free and transition metal-free synthesis of 5-amino-1,2,4-thiadiazoles as promising antibacterials against ESKAPE pathogen strains. <i>Molecular Diversity</i> , 2023, 27, 651-666.	2.1	4
47	Some regularities of the synthesis of ethyl 3-aryl-1,2,4-oxadiazole-5-carboxylates. <i>Russian Journal of Organic Chemistry</i> , 2014, 50, 1683-1686.	0.3	3
48	Nucleophilic properties of the positively charged metal center in the solid state structure of Palladium(II)-Terpyridine complex. <i>Journal of Molecular Structure</i> , 2020, 1199, 126957.	1.8	3
49	One-pot synthesis of (5-alkyl-1,2,4-oxadiazol-3-yl)benzoic acids. <i>Mendeleev Communications</i> , 2015, 25, 138-139.	0.6	2
50	Hydrogen vs. halogen bonding in crystals of 2,5-dibromothiophene-3-carboxylic acid derivatives. <i>Journal of Molecular Structure</i> , 2022, 1260, 132785.	1.8	2
51	Synthesis of benzoic acids containing a 1,2,4-oxadiazole ring. <i>Russian Chemical Bulletin</i> , 2015, 64, 142-145.	0.4	1
52	The reaction of amidoximes with carboxylic acids or their esters under high-pressure conditions. <i>Russian Chemical Bulletin</i> , 2019, 68, 347-350.	0.4	1
53	Comparative Structural Study of Three Tetrahalophthalic Anhydrides: Recognition of X \cdots O(anhydride) Halogen Bond and $\pi\cdots\pi$ (anhydride) Interaction. <i>Molecules</i> , 2021, 26, 3119.	1.7	1
54	Synthesis and Photoluminescent Properties of 2-(3-Carboxymethylindazol-1-yl)anilines. <i>Russian Journal of General Chemistry</i> , 2021, 91, 985-990.	0.3	0