Alexey Y Sukhorukov

List of Publications by Year
in descending order

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89 papers	1,311 citations	430874 18 h-index	414414 32 g-index
105 all docs	105 docs citations	105 times ranked	968 citing authors

#	Article	IF	Citations
1	Chemistry of Six-Membered Cyclic Oxime Ethers. Application in the Synthesis of Bioactive Compounds. Chemical Reviews, 2011, 111, 5004-5041.	47.7	141
2	Stereoselective reactions of nitro compounds in the synthesis of natural compound analogs and active pharmaceutical ingredients. Tetrahedron, 2016, 72, 6191-6281.	1.9	112
3	Organic and hybrid systems: from science to practice. Mendeleev Communications, 2017, 27, 425-438.	1.6	86
4	Novel approaches to pharmacology-oriented and energy rich organic nitrogenâ€“oxygen systems. Mendeleev Communications, 2015, 25, 399-409.	1.6	67
5	Recent advances in synthesis of organic nitrogenâ€“oxygen systems for medicine and materials science. Mendeleev Communications, 2017, 27, 535-546.	1.6	48
6	Synthesis and characterization of novel oxazines and demonstration that they specifically target cyclooxygenase 2. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2931-2936.	2.2	40
7	Novel Synthetic Oxazines Target NF-Î°B in Colon Cancer In Vitro and Inflammatory Bowel Disease In Vivo. PLoS ONE, 2016, 11, e0163209.	2.5	39
8	Recent Advances in the Synthesis and Chemistry of Nitronates. Synthesis, 2017, 49, 3255-3268.	2.3	34
9	Synthesis of PDE IVb Inhibitors. 3. Synthesis of (+)-, (âˆ’)-, and (Â±)-7-[3-(Cyclopentyloxy)-4-methoxyphenyl]hexahydro-3<i>H</i>-pyrrolizin-3-one via Reductive Domino Transformations of 3-Î²-Carbomethoxyethyl-Substituted Six-Membered Cyclic Nitronates. Journal of Organic Chemistry, 2012, 77, 5465-5469.	3.2	29
10	Catalytic Reductive Amination of Aldehydes and Ketones With Nitro Compounds: New Light on an Old Reaction. Frontiers in Chemistry, 2020, 8, 215.	3.6	28
11	Metal-assisted addition of a nitrate anion to bis(oxy)enamines. A general approach to the synthesis of Î±-nitroxy-oxime derivatives from nitronates. Organic and Biomolecular Chemistry, 2016, 14, 3963-3974.	2.8	26
12	Oximinoalkylamines as ligands for Cu-assisted azideâ€“acetylene cycloaddition. Tetrahedron Letters, 2015, 56, 6335-6339.	1.4	25
13	Acylation of Nitronates: [3,3]-Sigmatropic Rearrangement of <i>in Situ</i> Generated <i>N</i>-Acyloxy,<i>N</i>-oxyenamines. Journal of Organic Chemistry, 2018, 83, 11057-11066.	3.2	25
14	Synthesis of PDE IVb Inhibitors. 1. Asymmetric Synthesis and Stereochemical Assignment of (+)- and (âˆ’)-7-[3-(Cyclopentyloxy)-4-methoxyphenyl]hexahydro-3<i>H</i>-pyrrolizin-3-one. Journal of Organic Chemistry, 2011, 76, 7893-7900.	3.2	24
15	Divergent Reactivity of In Situ Generated Metal Azides: Reaction with <i>N</i>,<i>N</i>â€Bis(oxy)enamines as a Case Study. Chemistry - A European Journal, 2017, 23, 4570-4578.	3.3	24
16	Conjugated nitrosoalkenes as Michael acceptors in carbonâ€“carbon bond forming reactions: a review and perspective. Beilstein Journal of Organic Chemistry, 2017, 13, 2214-2234.	2.2	23
17	Synthesis and characterization of novel 1,2-oxazine-based small molecules that targets acetylcholinesterase. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 3618-3621.	2.2	21
18	Unusual Intramolecular Cyclization of Tris(Î²-oximinoalkyl)amines. The First Synthesis of 1,4,6,10-Tetraazaadamantanes. Organic Letters, 2009, 11, 4072-4075.	4.6	20

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19	Coordination Polymers of Scandium Sulfate. Crystal Structures of (H2Bipy)[Sc(H2O)(SO4)2]2 Â· 2H2O and (H2Bipy)[HSO4]2. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2005, 31, 545-551.	1.0	19
20	Î±â€Electrophilic Reactivity of Nitronates. Chemical Record, 2018, 18, 1489-1500.	5.8	19
21	Exploiting Coupling of Boronic Acids with Triols for a pH-Dependent â€œClick-Declickâ€•Chemistry. Journal of Organic Chemistry, 2018, 83, 9756-9773.	3.2	19
22	Câˆ’H Reactivity of the Î±â€Position in Nitrones and Nitronates. Advanced Synthesis and Catalysis, 2020, 362, 724-754.	4.3	19
23	A General Metalâ€Assisted Synthesis of Î±â€Halo Oxime Ethers from Nitronates and Nitro Compounds. European Journal of Organic Chemistry, 2014, 2014, 8148-8159.	2.4	18
24	Synthesis of Isoxazolines from Nitroalkanes <i>via</i> a [4+1]â€Annulation Strategy. Advanced Synthesis and Catalysis, 2019, 361, 5322-5327.	4.3	18
25	Synthesis of PDE IV inhibitors. First asymmetric synthesis of two of GlaxoSmithKline's highly potent Rolipram analogues. Organic and Biomolecular Chemistry, 2013, 11, 8082.	2.8	17
26	Nucleophilic Halogenation of Heterocyclic <i>N</i>â€Oxides: Recent Progress and a Practical Guide. Advanced Synthesis and Catalysis, 2021, 363, 3170-3188.	4.3	15
27	Catalytic Hydrogenation of 5,6â€Dihydroâ€4<i>H</i>â€1,2â€oxazines Bearing a Functionalized Methylene Group at Câ€3. European Journal of Organic Chemistry, 2008, 2008, 4025-4034.	2.4	14
28	Urotropine Isomer (1,4,6,10-Tetraazaadamantane): Synthesis, Structure, and Chemistry. Journal of Organic Chemistry, 2014, 79, 6079-6086.	3.2	14
29	Synthesis of B,O,N-Doped Adamantanes and Diamantanes by Condensation of Oximes with Boronic Acids. Journal of Organic Chemistry, 2015, 80, 6728-6736.	3.2	14
30	Six-membered cyclic nitronates in the stereoselective synthesis of natural and bioactive compounds. Chemistry of Heterocyclic Compounds, 2012, 48, 49-54.	1.2	13
31	Addition of HOâ€Acids to <i>N</i>,<i>N</i>â€Bis(oxy)enamines: Mechanism, Scope and Application to the Synthesis of Pharmaceuticals. European Journal of Organic Chemistry, 2017, 2017, 6209-6227.	2.4	13
32	Diastereoselective synthesis and profiling of bicyclic imidazolidinone derivatives bearing a difluoromethylated catechol unit as potent phosphodiesterase 4 inhibitors. Organic and Biomolecular Chemistry, 2018, 16, 6900-6908.	2.8	13
33	In Situ Generated Magnesium Cyanide as an Efficient Reagent for Nucleophilic Cyanation of Nitrosoalkenes and Parent Nitronates. European Journal of Organic Chemistry, 2019, 2019, 1888-1892.	2.4	11
34	Identification of a novel 1,2 oxazine that can induce apoptosis by targeting NF-ÎºB in hepatocellular carcinoma cells. Biotechnology Reports (Amsterdam, Netherlands), 2020, 25, e00438.	4.4	11
35	A Novel Entry to 3,4,5-Trisubstituted 2-Pyrrolidones from Isoxazoline-N-oxides. Synlett, 2018, 29, 1871-1874.	1.8	10
36	Tandem double acylation/[3,3]-rearrangement of aliphatic nitro compounds: a route to Î±-oxygenated oxime derivatives. Organic and Biomolecular Chemistry, 2019, 17, 5997-6006.	2.8	9

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37	Merging Boron with Nitrogenâ€“Oxygen Bonds: A Review on BON Heterocycles. Topics in Current Chemistry, 2021, 379, 8.	5.8	9
38	Synthesis, structure and dioxygen reactivity of Ni(II) complexes with mono-, bis-, tetra- and hexa-oxime ligands. Polyhedron, 2014, 71, 24-33.	2.2	8
39	Stereoselective synthesis of spirocyclic nitronates by SnCl4-promoted reaction of nitroalkenes with C-2 substituted 4-methylidene-1,3-dioxolane. Mendeleev Communications, 2015, 25, 449-451.	1.6	8
40	Synthesis and Structure of <i>N</i>,<i>N</i>â€Dinitroamidoborane Complexes. Chemistry - an Asian Journal, 2017, 12, 2237-2244.	3.3	8
41	Nucleophilic Halogenation of Cyclic Nitronates: A General Access to 3-Halo-1,2-Oxazines. Journal of Organic Chemistry, 2019, 84, 13794-13806.	3.2	8
42	Asymmetric Synthesis of Merckâ€™s Potent hNK₁ Antagonist and Its Stereoisomers via Tandem Acylation/[3,3]-Rearrangement of 1,2-Oxazine <i>N</i>-Oxides. Journal of Organic Chemistry, 2020, 85, 11060-11071.	3.2	8
43	The Cyclic Nitronate Route to Pharmaceutical Molecules: Synthesis of GSKâ€™s Potent PDE4 Inhibitor as a Case Study. Molecules, 2020, 25, 3613.	3.8	8
44	Sequential Formal [4+1]â€Cycloaddition, Câˆ'H Functionalization and Suzukiâ€“Miyaura Crossâ€Coupling for the Synthesis of Trisubstituted Isoxazolines. European Journal of Organic Chemistry, 2021, 2021, 2680-2693.	2.4	8
45	Synthesis of a phthalocyanineâ€“1,4,6,10-tetraazaadamantane conjugate and its activity against the human immunodeficiency virus. Mendeleev Communications, 2010, 20, 25-27.	1.6	7
46	Michael Addition of P-Nucleophiles to Conjugated Nitrosoalkenes. Journal of Organic Chemistry, 2019, 84, 7244-7254.	3.2	7
47	2,4,9â€Triazaadamantanes with â€œClickableâ€•Groups: Synthesis, Structure and Applications as Tripodal Platforms. European Journal of Organic Chemistry, 2020, 2020, 6723-6735.	2.4	7
48	Spectacular Enhancement of the Thermal and Photochemical Stability of MAPbI3 Perovskite Films Using Functionalized Tetraazaadamantane as a Molecular Modifier. Energies, 2021, 14, 669.	3.1	7
49	A Convenient Method for the Synthesis of Poly(Î²-hydroxyiminoalkyl)amines from Aliphatic Nitro Compounds. Synthesis, 2007, 2007, 2862-2866.	2.3	6
50	A new course of reduction of substituted 5,6-dihydro-4H-1,2-oxazines to furan derivatives. Mendeleev Communications, 2007, 17, 122-124.	1.6	6
51	Synthesis of phosphodiesterase IVb inhibitors 2. Stereoselective synthesis of hexahydro-3H-pyrrolo[1,2-c]imidazol-3-one and tetrahydro-1H-pyrrolo[1,2-c][1,3]oxazol-3-one derivatives. Russian Chemical Bulletin, 2011, 60, 2390-2395.	1.5	6
52	The first synthesis and molecular docking studies of diastereomerically pure substituted 4-amino-7-hydroxyheptanoic acids. Mendeleev Communications, 2011, 21, 183-185.	1.6	6
53	Construction of bis-, tris- and tetrahydrazones by addition of azoalkenes to amines and ammonia. Beilstein Journal of Organic Chemistry, 2016, 12, 2471-2477.	2.2	6
54	Synthesis of Î±-Thiooximes by Addition of Thiols to N,N-Bis(oxy)-enamines: A Comparative Study of S-, N-, and O-NucleoÂphiles in Michael Reaction with Nitrosoalkene Species. Synlett, 2018, 29, 1334-1339.	1.8	6

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55	Editorial: Nitro Compounds as Versatile Building Blocks for the Synthesis of Pharmaceutically Relevant Substances. Frontiers in Chemistry, 2020, 8, 595246.	3.6	6
56	Ring closure of nitroalkylmalonates for the synthesis of isoxazolines under the acylation conditions. Advanced Synthesis and Catalysis, 0, , .	4.3	6
57	Synthesis of Bis(Î²â€Oximinoalkyl)malonates and Their Catalytic Reductive Cyclization to Piperidines. Advanced Synthesis and Catalysis, 2022, 364, 2557-2564.	4.3	6
58	Synthesis of tris(Î²,Î²,Î³-oximinoalkyl)amines from aliphatic nitro compounds and methyl vinyl ketone. Tetrahedron Letters, 2014, 55, 1222-1225.	1.4	5
59	Synthesis of 1,4,6,10-tetraazaadamantane quaternary derivatives. Russian Chemical Bulletin, 2016, 65, 2270-2277.	1.5	5
60	Tandem Deoxygenation/Halogenation of <i>N</i>â€Oxides Under Acylation Conditions: Scope and In Situ IR Spectroscopic Study. European Journal of Organic Chemistry, 2019, 2019, 4139-4148.	2.4	5
61	Cyclization of Î²â€Chlorovinyl Thiohydrazones into Pyridazines: A Mechanistic Study. European Journal of Organic Chemistry, 2019, 2019, 527-536.	2.4	5
62	Revealing the Structure of Transition Metal Complexes of Formaldoxime. Inorganic Chemistry, 2021, 60, 5523-5537.	4.0	5
63	Construction of Saturated Oxazolo[3,2-b][1,2]oxazines via Tandem [3+2]-Cycloaddition/[1,3]-Rearrangement of Cyclic Nitronates and Ketenes. Journal of Organic Chemistry, 2021, 86, 16337-16348.	3.2	5
64	Regio- and diastereoselective access to densely functionalized ketones<i>via</i>the Boekelheide rearrangement of isoxazoline<i>N</i>-oxides. Organic and Biomolecular Chemistry, 2022, 20, 5624-5637.	2.8	5
65	Syntheses based on Î±-azidooximes: I. Reduction of Î±-azidooximes. Russian Journal of Organic Chemistry, 2007, 43, 1106-1113.	0.8	4
66	Syntheses based on Î±-azidooximes: II. Preparation of 6,7-dihydrotriazolopyrazinones from aliphatic nitro compounds. Russian Journal of Organic Chemistry, 2007, 43, 1218-1222.	0.8	4
67	Advances in the synthesis of 7-(3-cyclopentyloxy-4-methoxyphenyl)-hexahydro-3H-pyrrolizin-3-one (Pyrromilast)â€“a promising agent for treatment of chronic obstructive pulmonary disease. Russian Chemical Bulletin, 2015, 64, 1240-1248.	1.5	4
68	Umpolung of Enamines: An Overview on Strategies and Synthons. Synlett, 2020, 31, 439-449.	1.8	4
69	The Chemistry ofN,N-Bis(siloxy)enamines. Part 8.A General Method for the Preparation of Î±-Azido Oximes from Aliphatic Nitro Compounds. Synthesis, 2005, 2005, 1077-1082.	2.3	3
70	A Convenient Procedure for the Synthesis of <i>N</i>-Acetyl-5,6-dihydro-2<i>H</i>-1,2-oxazines. Synthesis, 2007, 2007, 3461-3468.	2.3	3
71	Diastereoselective Synthesis of Î³-Amino Acids and Their Derivatives from Nitroethane via Intermediacy of 5,6-Dihydro-4H-1,2-oxazines Bearing the CH2CH(CO2Me)2 Substituent at C3. Synthesis, 2009, 2009, 741-754.	2.3	3
72	A General Procedure for the Synthesis of Unsymmetrically Substituted Tris(Î²-oximinoalkyl)amines. Synthesis, 2011, 2011, 1403-1412.	2.3	3

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73	Deoxygenative Arylation of 5,6-Dihydro-4<i>H</i>-1,2-oxazine-<i>N</i>-oxides with Arynes. Journal of Organic Chemistry, 2022, 87, 6838-6851.	3.2	3
74	A Convenient Procedure for the Synthesis of 3-Substituted 5,6-Dihydro-4H-1,2-oxazines from Nitroethane. Synthesis, 2007, 2007, 97-107.	2.3	2
75	Synthesis of Tris(É£-oximinoalkyl)amines, New Tripodal N4 Ligands. Synthetic Communications, 2015, 45, 1362-1366.	2.1	2
76	Sequential Acylation/Silylation/Heteroâ€Claisen Rearrangement of Nitroalkanes for the Synthesis of Protected Hydroxyoxime Derivatives. European Journal of Organic Chemistry, 2021, 2021, 3197-3213.	2.4	2
77	Iron(<scp>iv</scp>) complexes with tetraazaadamantane-based ligands: synthesis, structure, applications in dioxygen activation and labeling of biomolecules. Dalton Transactions, 2022, 51, 4284-4296.	3.3	2
78	5,6-Dihydro-4<i>H</i>-1,2-oxazines in Organic Synthesis: Catalytic Hydrogenation of [(5,6-Dihydro-4<i>H</i>-1,2-oxazin-3-yl)methyl]malonates to Methyl 7-Oxo-1-oxa-6-azaspiro[4.4]nonane-8-carboxylates. Synthesis, 2008, 2008, 1205-1220.	2.3	1
79	Synthesis of Unsymmetrically Substituted 4,6,10-Trihydroxy-1,4,6,10-tetraÂazaadamantanes via Intramolecular Cyclization of Tris(Î²-oximinoalkyl)amines. Synthesis, 2012, 44, 1095-1101.	2.3	1
80	Correction to Synthesis of PDE IVb Inhibitors. 3. Synthesis of (+)-, (âˆ')-, and (Â±)-7-[3-(Cyclopentyloxy)-4-methoxyphenyl]hexahydro-3H-pyrrolizin-3-one via Reductive Domino Transformations of 3-Î²-Carbomethoxyethyl-Substituted Six-Membered Cyclic Nitronates. Journal of Organic Chemistry, 2012, 77, 7775-7775.	3.2	1
81	Synthesis of 3-aminomethyl-4-hydroxycoumarins and their retro-Mannich reaction in dimethyl sulfoxide. Russian Chemical Bulletin, 2015, 64, 423-428.	1.5	1
82	Addition of malonic esters to azoalkenes generated in situ from Î±-bromo- and Î±-chlorohydrazones. Tetrahedron Letters, 2021, , 153414.	1.4	1
83	SYNTHESIS OF STABLE ATÐ•-COMPLEXES OF HETEROAROMATIC BORONIC ACIDS AND 4,6,10-TRIHYDROXY-1,4,6,10-TETRAAZAADAMANTANE. ChemChemTech, 2019, 62, 60-67.	0.3	1
84	Urotropine: Sleeping History and Awakening. Vestnik RFFI, 2017, 4, 20-31.	0.1	1
85	Stereoselective approach to conjugated enone oximes from aliphatic nitro compounds and sulfur ylides. Mendeleev Communications, 2021, 31, 686-689.	1.6	1
86	Synthesis of Substituted 5-(3-Hydroxypropyl)pyrrolidin-2-ones and Pyrrolizidinones from Nitroethane via C3 Functionalized 5,6-Dihydro-4H-1,2-oxazines: A Novel Approach to Some Analogues of the Antidepressant Rolipram. Synthesis, 2009, 2009, 1999-2008.	2.3	0
87	Stereoselective Synthesis of Unnatural Î²-Amino Acids from Nitroethane via 5,6-Dihydro-4H-1,2-oxazin-3-ylacetates. Synthesis, 2009, 2009, 2570-2578.	2.3	0
88	Divergent Reactivity of In Situ Generated Metal Azides: Reaction with N ,N -Bis(oxy)enamines as a Case Study. Chemistry - A European Journal, 2017, 23, 4466-4466.	3.3	0
89	Alexey Sukhorukov. European Journal of Organic Chemistry, 2020, 2020, 6675-6675.	2.4	0