

Leonid L Fershtat

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

1,195
citations

21
h-index

31
g-index

85
ext. papers

1,513
ext. citations

3
avg, IF

5.27
L-index

#	Paper	IF	Citations
71	1,2,5-Oxadiazole-Based High-Energy-Density Materials: Synthesis and Performance. <i>ChemPlusChem</i> , 2020 , 85, 13-42	2.8	64
70	Prospective Symbiosis of Green Chemistry and Energetic Materials. <i>ChemSusChem</i> , 2017 , 10, 3914-3946	8.3	62
69	Advances in the synthesis of non-annelated polynuclear heterocyclic systems comprising the 1,2,5-oxadiazole ring. <i>Russian Chemical Reviews</i> , 2016 , 85, 1097-1145	6.8	59
68	Molecular Hybridization Tools in the Development of Furoxan-Based NO-Donor Prodrugs. <i>ChemMedChem</i> , 2017 , 12, 622-638	3.7	54
67	An efficient access to (1H-tetrazol-5-yl)furoxan ammonium salts via a two-step dehydration/[3+2]-cycloaddition strategy. <i>Tetrahedron</i> , 2015 , 71, 6764-6775	2.4	53
66	IFITM1 promotes the metastasis of human colorectal cancer via CAV-1. <i>Cancer Letters</i> , 2015 , 368, 135-143	3.9	46
65	Progress in the chemistry of nitrogen-, oxygen- and sulfur-containing heterocyclic systems. <i>Russian Chemical Reviews</i> , 2020 , 89, 55-124	6.8	44
64	Efficient assembly of mono- and bis(1,2,4-oxadiazol-3-yl)furoxan scaffolds via tandem reactions of furoxanylamidoximes. <i>RSC Advances</i> , 2015 , 5, 47248-47260	3.7	43
63	Assembly of Tetrazolylfuroxan Organic Salts: Multipurpose Green Energetic Materials with High Enthalpies of Formation and Excellent Detonation Performance. <i>Chemistry - A European Journal</i> , 2019 , 25, 4225-4233	4.8	42
62	Assembly of Nitrofurazan and Nitrofuroxan Frameworks for High-Performance Energetic Materials. <i>ChemPlusChem</i> , 2017 , 82, 1315-1319	2.8	41
61	Design of hybrid heterocyclic systems with a furoxanylpyridine core via tandem hetero-Diels-Alder/retro-Diels-Alder reactions of (1,2,4-triazin-3-yl)furoxans. <i>RSC Advances</i> , 2016 , 6, 31526-31539	3.7	35
60	Regioselective synthesis of bifuroxanyl systems with the 3-nitrobifuroxanyl core via a one-pot acylation/nitrosation/cyclization cascade. <i>Tetrahedron Letters</i> , 2016 , 57, 4268-4272	2	34
59	Synthesis of hetarylsulfanyl- and hetaryloxyfuroxans by nucleophilic substitution of nitro group in nitrofuroxans with heterocyclic thiol and hydroxy derivatives*. <i>Chemistry of Heterocyclic Compounds</i> , 2015 , 51, 176-186	1.4	32
58	Dinitrogen Trioxide-Mediated Domino Process for the Regioselective Construction of 4-Nitrofuroxans from Acrylic Acids. <i>Heteroatom Chemistry</i> , 2014 , 25, 226-237	1.2	30
57	Recent advances in the synthesis and functionalization of 1,2,5-oxadiazole 2-oxides. <i>Tetrahedron Letters</i> , 2018 , 59, 2317-2326	2	27
56	Ionic liquid-promoted [3+2]-cycloaddition reactions of nitroformonitrile oxide generated by the cycloreversion of dinitrofuroxan. <i>Tetrahedron Letters</i> , 2014 , 55, 2398-2400	2	26
55	Design of hetarylthiofuroxans by nucleophilic substitution of NO ₂ group in nitrofuroxans. <i>Mendeleev Communications</i> , 2015 , 25, 36-38	1.9	26

54	Ionic liquid-mediated synthesis of (1H-1,2,3-triazol-1-yl)furoxans by [3 + 2] cycloaddition of azidofuroxans to acetylenes. <i>Mendeleev Communications</i> , 2015 , 25, 257-259	1.9	25
53	Metathesis of azomethine imines in the reaction of 6-aryl-1,5-diazabicyclo[3.1.0]hexanes with carbonyl compounds. <i>Mendeleev Communications</i> , 2012 , 22, 32-34	1.9	24
52	Pushing the Energy-Sensitivity Balance with High-Performance Bifuroxans. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7764-7771	6.1	23
51	An effective synthesis of (1H-1,2,4-triazol-3-yl)furoxans. <i>Chemistry of Heterocyclic Compounds</i> , 2015 , 51, 754-759	1.4	22
50	New insight into the antiaggregant activity of furoxans. <i>Mendeleev Communications</i> , 2016 , 26, 513-515	1.9	21
49	Antiaggregant activity of water-soluble furoxans. <i>Mendeleev Communications</i> , 2018 , 28, 49-51	1.9	19
48	Side-chain prototropic tautomerism of 4-hydroxyfuroxans in methylation reactions. <i>Tetrahedron Letters</i> , 2016 , 57, 5685-5689	2	19
47	Synthesis, structural characterization and cytotoxic activity of heterocyclic compounds containing the furoxan ring. <i>Arkivoc</i> , 2017 , 2017, 250-268	0.9	17
46	New Method for the Synthesis and Reactivity of (5-R-1,3,4-Oxadiazol-2-yl)furoxans. <i>Journal of Heterocyclic Chemistry</i> , 2016 , 53, 102-108	1.9	16
45	Sensitivity of energetic materials: Evidence of thermodynamic factor on a large array of CHNOFCl compounds. <i>Chemical Engineering Journal</i> , 2021 , 421, 129804	14.7	16
44	Straightforward Access to the Nitric Oxide Donor Azacydnone Scaffold by Cascade Reactions of Amines. <i>Chemistry - A European Journal</i> , 2019 , 25, 14284-14289	4.8	15
43	Advanced energetic materials: novel strategies and versatile applications. <i>Mendeleev Communications</i> , 2021 , 31, 731-749	1.9	14
42	Tandem Condensation/Rearrangement Reaction of 2-Aminoheptarene N-Oxides for the Synthesis of Hetaryl Carbamates. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 3157-3163	5.6	13
41	N-Oxide-Controlled Chemoselective Reduction of Nitrofuroxans. <i>Synthesis</i> , 2019 , 51, 747-756	2.9	13
40	New hybrid furoxan structures with antiaggregant activity. <i>Mendeleev Communications</i> , 2018 , 28, 595-597	1.9	13
39	Effective synthesis of 6-substituted 7H-tetrazolo[5,1-b][1,3,4]thiadiazines via a one-pot condensation/nitrosation/azide-tetrazole tautomerism reaction sequence. <i>Tetrahedron Letters</i> , 2017 , 58, 3998-4002	2	12
38	High-energy hydroxytetrazoles: Design, synthesis and performance. <i>Energetic Materials Frontiers</i> , 2021 , 2, 3-13	3.3	12
37	Versatile approach to heteroarylfuroxan derivatives from oximinofuroxans via a one-pot, nitration/thermolysis/[3+2]-cycloaddition cascade. <i>Tetrahedron Letters</i> , 2017 , 58, 3993-3997	2	11

36	Nitro-, Cyano-, and Methylfuroxans, and Their Bis-Derivatives: From Green Primary to Melt-Cast Explosives. <i>Molecules</i> , 2020 , 25,	4.8	10
35	Reaction of 1,2-Dialkyldiaziridines and 1,2,3-Trialkyldiaziridines with Methyl Propiolate in Ionic Liquids and in Organic Solvents. <i>Journal of Heterocyclic Chemistry</i> , 2013 , 50, 326-336	1.9	10
34	Renaissance of 1,2,5-Oxadiazolyl Diazonium Salts: Synthesis and Reactivity. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 4248-4259	3.2	9
33	Lewis acid-catalyzed Wolff cyclocondensation in the synthesis of (1H-1,2,3-triazolyl)furoxans. <i>Arkivoc</i> , 2017 , 2017, 140-150	0.9	9
32	Sustainable Synthesis of Polynitroesters in the Freon Medium and their in Vitro Evaluation as Potential Nitric Oxide Donors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2535-2540	8.3	9
31	Eco-friendly N ₂ coupling of aminofuroxans into azofuroxans under the action of electrogenerated hypohalites. <i>Mendeleev Communications</i> , 2018 , 28, 518-520	1.9	9
30	Regioselective synthesis, structural diversification and cytotoxic activity of (thiazol-4-yl)furoxans. <i>Mendeleev Communications</i> , 2018 , 28, 623-625	1.9	9
29	Crystal Solvates of Energetic 2,4,6,8,10,12-Hexanitro-2,4,6,8,10,12-hexaazaisowurtzitane Molecule with [bmim]-Based Ionic Liquids. <i>Crystal Growth and Design</i> , 2019 , 19, 3660-3669	3.5	8
28	Synthesis and reactivity of aminofuroxans. <i>Chemistry of Heterocyclic Compounds</i> , 2019 , 55, 1143-1164	1.4	8
27	Diaziridine ring expansion in 6-aryl-1,5-diazabicyclo[3.1.0]hexanes upon reactions with activated olefins in ionic liquids. <i>Russian Chemical Bulletin</i> , 2010 , 59, 1621-1630	1.7	7
26	Synthesis of new pharmacologically oriented heterocyclic ensembles, [2-(1H-pyrazol-1-yl)thiazol-4-yl]furoxans. <i>Mendeleev Communications</i> , 2019 , 29, 288-291	1.9	6
25	Hetarylfuroxans: cytotoxic effect and induction of apoptosis in chronic myeloid leukemia K562 cells. <i>Russian Chemical Bulletin</i> , 2019 , 68, 158-162	1.7	6
24	Dinitrofuroxan cycloreversion as a novel general approach for the synthesis of nitroazoles. <i>Russian Chemical Bulletin</i> , 2015 , 64, 415-422	1.7	6
23	3,3'-(Diazene-1,2-diyl)bis[4-(nitroamino)-1,2,5-oxadiazole 2-oxide]. <i>MolBank</i> , 2018 , 2018, M1003	0.5	6
22	Design and Synthesis of Nitrogen-Rich Azo-Bridged Furoxanylazoles as High-Performance Energetic Materials. <i>Chemistry - A European Journal</i> , 2021 , 27, 14628-14637	4.8	6
21	Tandem Reactions of Thermolysis and [3+2] Cycloaddition in the Synthesis of 3-Hetaryl-4-Nitrofuroxans from 4-Nitrofuroxannitrolic Acid. <i>Chemistry of Heterocyclic Compounds</i> , 2020 , 56, 607-610	1.4	5
20	Effective synthesis of 7H-1,2,4-triazolo[3,4-b][1,3,4]thiadiazines. <i>Chemistry of Heterocyclic Compounds</i> , 2018 , 54, 669-672	1.4	5
19	Novel Arylazo-1,2,5-oxadiazole Photoswitches: Synthesis, Photoisomerization and Nitric Oxide Releasing Properties. <i>ChemPhotoChem</i> , 2020 , 4, 5346-5354	3.3	5

18	Divergent Synthesis of Five-Membered Nitrogen Heterocycles via Cascade Reactions of 4-Arylfuroxans. <i>Synthesis</i> , 2020 , 52, 2667-2678	2.9	4
17	Recent Advances in the Synthesis and Biomedical Applications of Heterocyclic NO-Donors. <i>Molecules</i> , 2021 , 26,	4.8	4
16	Route to 1,2,4- and 1,2,5-oxadiazole ring assemblies via a one-pot condensation/oxidation protocol. <i>Tetrahedron Letters</i> , 2020 , 61, 151678	2	3
15	First synthesis of 1,5-diazabicyclo[3.1.0]hexane complexes with cadmium salts. <i>Russian Chemical Bulletin</i> , 2009 , 58, 1002-1006	1.7	3
14	The equilibrium molecular structure of 3-methyl-4-nitro- and 4-methyl-3-nitrofuroxans by gas-phase electron diffraction and coupled cluster calculations. <i>Journal of Molecular Structure</i> , 2020 , 1222, 128856 ³⁻⁴		3
13	Direct Synthesis of -(1,2,5-Oxadiazolyl)hydrazones through a Diazotization/Reduction/Condensation Cascade. <i>Journal of Organic Chemistry</i> , 2020 , 85, 15466-15475	4.2	3
12	Antiaggregant effects of (1,2,5-oxadiazolyl)azasydnone ring assemblies as novel antiplatelet agents. <i>Chemical Biology and Drug Design</i> , 2021 ,	2.9	3
11	Design and synthesis of pyrazolo[3,4-d]pyridazine 5,6-dioxides as novel NO-donors. <i>Mendeleev Communications</i> , 2021 , 31, 42-45	1.9	3
10	Nitrogen-rich metal-free salts: a new look at the 5-(trinitromethyl)tetrazolate anion as an energetic moiety. <i>Dalton Transactions</i> , 2021 , 50, 13778-13785	4.3	3
9	Two sides of thermal stability of energetic liquid: Vaporization and decomposition of 3-methylfuroxan. <i>Journal of Molecular Liquids</i> , 2021 , 348, 118059	6	1
8	Nitrodiaziridines: Unattainable yet, but Desired Energetic Materials. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 3920-3927	2.8	1
7	Novel energetic oxadiazole assemblies. <i>Mendeleev Communications</i> , 2022 , 32, 111-113	1.9	1
6	1,2,5-Oxadiazoles 2020 , 190-190		0
5	Tandem acid-promoted intramolecular azide-hydrazone electrocyclization/hydrolysis approach for the synthesis of N-Aminotetrazoles. <i>Tetrahedron</i> , 2022 , 103, 132563	2.4	0
4	Ring Distortion Diversity-Oriented Approach to Fully Substituted Furoxans and Isoxazoles. <i>Asian Journal of Organic Chemistry</i> , 2021 , 10, 2644	3	0
3	Potassium (3-Methyl-2-oxido-1,2,5-oxadiazol-4-yl)dinitromethanide. <i>MolBank</i> , 2021 , 2021, M1301	0.5	
2	Lewis acid catalyzed condensation of 2-aminohetarene N-oxides with N,N-dimethylformamide dimethyl acetal. <i>Chemistry of Heterocyclic Compounds</i> , 2021 , 57, 1130	1.4	
1	Novel Arylazo-1,2,5-oxadiazole Photoswitches: Synthesis, Photoisomerization and Nitric Oxide Releasing Properties. <i>ChemPhotoChem</i> , 2020 , 4, 5321-5321	3.3	

