

Alexander V Vashchenko

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Catalyst-Free Annulation of Acylethynylpyrroles with 1-Pyrrolines: A Straightforward Access to Tetrahydrodipyrrolo[1,2- <i>a</i> :1 \hat{a} ,2 \hat{a}]-imidazoles. <i>Journal of Organic Chemistry</i> , 2022, 87, 9518-9531.	3.2	11
2	Single Si-doped fullerene as a catalyst in the oxygen reduction reaction: A quantum chemical insight. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26565.	2.0	5
3	Base-Catalyzed [3 + 2] Cycloaddition of <i>N</i> -Benzyl Ketimines to Arylacetylenes Followed by Oxidation: A One-Pot Access to Polyarylated 2 <i>H</i> -Pyrroles via Intermediate Pyrrolines. <i>Organic Letters</i> , 2021, 23, 4121-4126.	4.6	12
4	Multimolecular Self-Organization of 1-Acetyl-1,3-bis(haloarylamines) in KOH/DMSO System: From Acetylene Gas and <i>o</i> -Halo Arylamines toward a Higher Molecular Complexity and Diversity. <i>Organic Letters</i> , 2021, 23, 4743-4748.	4.6	9
5	Regioselectivity of the Conjugate Addition of Amines to Dissymmetrical Pull-Pull Alkenes. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 3278-3288.	2.4	4
6	Localized orbital locator as a descriptor for quantification and digital presentation of lone pairs: benchmark calculations of 4-substituted pyridines. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24536-24540.	2.8	5
7	Functionalized Hexahydropyrrolo[2,1- <i>b</i>]oxazoles from Catalyst-Free Annulation of $\hat{1}^1$ -Pyrrolines with Electron-Deficient Propargylic Alcohols. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 4181-4192.	2.4	8
8	KOBu ^t /DMSO-Mediated $\hat{1}^1$ -C ^H Vinylation of <i>N</i> -Benzyl Ketimines with Acetylene Gas: Stereoselective Synthesis of (<i>E</i> , <i>Z</i>)-2-Azadienes. <i>Organic Letters</i> , 2020, 22, 2611-2614.	4.6	14
9	Transition-Metal-Free Superbase-Catalyzed C ^H Vinylation of Aldimines with Acetylenes to 1-Azadienes. <i>Journal of Organic Chemistry</i> , 2020, 85, 3417-3425.	3.2	16
10	Quantitative decomposition of resonance-assisted hydrogen bond energy in $\hat{1}^2$ -diketones into resonance and hydrogen bonding ($\hat{1}^E$ and $\hat{1}^F$) components using molecular tailoring and function-based approaches. <i>Journal of Computational Chemistry</i> , 2020, 41, 1285-1298.	3.3	17
11	Oxaazabicyclooctene Oxides, Another Type of Bridgehead Nitrones: Diastereoselective Assembly from Acetylene Gas, Ketones, and Hydroxyl Amine. <i>Journal of Organic Chemistry</i> , 2020, 85, 6732-6740.	3.2	8
12	Case study of 2-vinyloxy pyridine: Quantitative assessment of the intramolecular C-H \cdots N hydrogen bond energy and its contribution to the one-bond ¹³ C- ¹ H coupling constant. <i>Journal of Molecular Structure</i> , 2019, 1176, 73-85.	3.6	9
13	Cyanoacetylenes as Triggers and Partners in KOH-Assisted Assemblies of Quinoline-Based Dihydropyrimido[1,2- <i>a</i>]quinolin-3-ones on Water. <i>Journal of Organic Chemistry</i> , 2019, 84, 9726-9733.	3.2	10
14	Unusual structure of a biphenyl fragment: the important role of weak interactions. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 1454-1458.	0.5	1
15	Benchmark calculations of intramolecular hydrogen bond energy based on molecular tailoring and function-based approaches: Developing hybrid approach. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e26001.	2.0	24
16	Toward Acetylene Renaissance: Functionally Rich <i>N</i> -Aminoindoles from Acetylene Gas, Ketones, and Hydrazines in Two Steps. <i>Organic Letters</i> , 2019, 21, 4275-4279.	4.6	10
17	Estimating the energy of intramolecular bifurcated (three-centered) hydrogen bond by X-ray, IR and ¹ H NMR spectroscopy, and QTAIM calculations. <i>Journal of Molecular Structure</i> , 2018, 1163, 185-196.	3.6	27
18	The intramolecular hydrogen bond as a unit of molecular electronics: Molecular switching controlled by overcrowded intramolecular three-centered hydrogen bond. <i>Journal of Theoretical and Computational Chemistry</i> , 2018, 17, 1850023.	1.8	3

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19	Metal-Free Selective Synthesis of 1,4-Dihydropyridazines from Hydroxypyrrolines and Hydrazines. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 4004-4010.	2.4	8
20	Decorated Cyclopentadienes from Acetylene and Ketones in Just Two Steps. <i>Organic Letters</i> , 2017, 19, 3127-3130.	4.6	17
21	Acetylene as a Driving and Organizing Molecule in One-Pot Transition-Metal-Free Synthesis of Furans using Chalcones and their Analogues. <i>Asian Journal of Organic Chemistry</i> , 2017, 6, 707-711.	2.7	8
22	Regioselective N(2)-H-functionalization of thiosemicarbazones of aromatic and heteroaromatic aldehydes with acrylonitrile. <i>Synthetic Communications</i> , 2017, 47, 159-168.	2.1	4
23	Study of spontaneous <i>E/Z</i> isomerization of bis[(<i>Z</i>)-cyanomethylidene]diazapentacyclodienedicarboxylates by ¹ H, ¹³ C, and ¹⁵ N NMR spectroscopy, X-ray, and quantum chemical calculation data. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 563-569.	1.9	8
24	Synthesis of Acyl Terphenyls and Higher Polyaromatics via Base-Promoted C-H Functionalization of Acetylarenes with Arylacetylenes. <i>Organic Letters</i> , 2016, 18, 2158-2161.	4.6	23
25	Domino Assembly of Trifluoromethylated N,O-Heterocycles by the Reaction of Fluorinated α -Bromoenones with Amino Alcohols. <i>Journal of Organic Chemistry</i> , 2016, 81, 10029-10034.	3.2	20
26	Organic Superbases in Annulation with Propargylic Alcohols: Straightforward Synthesis of the Functionalized Oxazolopyrrolohexahydropyrimidine and Oxazolohexahydropyrimidoazepine Scaffolds. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 5465-5469.	2.4	16
27	Estimating the energy of intramolecular hydrogen bonds from ¹ H NMR and QAIM calculations. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 11199-11211.	2.8	119
28	The Direct Phosphorylation Of 2-, 3-, and 4-Methylstyrenes and 2,4,6-Trimethylstyrene with Elemental Phosphorus <i>via</i> Trofimov-Gusarova Reaction. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2015, 190, 1455-1463.	1.6	3
29	Theoretical study of bifurcated hydrogen bonding effects on the ¹ J(N,H), ^{1h} J(N,H), ^{2h} J(N,N) couplings and ¹ H, ¹⁵ N shieldings in model pyrroles. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 309-317.	1.9	17
30	GIAO, DFT, AIM and NBO analysis of the N-H...O intramolecular hydrogen-bond influence on the ¹ J(N,H) coupling constant in push-pull diaminoenones. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 661-670.	1.9	22
31	DFT prediction of anomalously large blue shift of the C-H stretching frequency in 2-vinylpyridine and -quinoline due to the intramolecular C-H...N hydrogen bonding. <i>Computational and Theoretical Chemistry</i> , 2010, 940, 56-60.	1.5	14
32	C-H...N and C-H...O intramolecular hydrogen bonding effects in the ¹ H, ¹³ C and ¹⁵ N NMR spectra of the configurational isomers of 1-vinylpyrrole-2-carbaldehyde oxime substantiated by DFT calculations. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 105-112.	1.9	46
33	Comparative analysis of hydrogen bonding with participation of the nitrogen, oxygen and sulfur atoms in the 2-(2-heteroaryl)pyrroles and their trifluoroacetyl derivatives based on the ¹ H, ¹³ C, ¹⁵ N spectroscopy and DFT calculations. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 441-447.	1.9	18
34	Intramolecular interactions in N-vinyl-2-arylpyrroles and -2-heteroarylpyrroles by ¹ H and ¹³ C NMR. <i>Magnetic Resonance in Chemistry</i> , 1990, 28, 580-586.	1.9	39