

Victor M Chernyshev

List of Publications by Year in Descending Order

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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.

83

papers

1,047

citations

16

h-index

28

g-index

92

ext. papers

1,257

ext. citations

3.5

avg, IF

4.69

L-index

#	Paper	IF	Citations
83	Nickel and Palladium Catalysis: Stronger Demand than Ever. <i>ACS Catalysis</i> , 2022 , 12, 1180-1200	13.1	6
82	Ruthenium complexes with chelating carboxylate-NHC ligands as efficient catalysts for C H arylation in water. <i>Mendeleev Communications</i> , 2022 , 32, 205-207	1.9	0
81	Dimroth rearrangement of 1,4-diazole-triazole synthesis and exploration of 3-sulfanyl-1,2,4-triazolium salts as NHC-proligands. <i>Russian Chemical Bulletin</i> , 2022 , 71, 993-1008	1.7	0
80	3-Amino-1,2,4-triazolium salts as NHC-proligands: synthesis and postmodification of a new type of amino-functionalized Pd/NHC complexes. <i>Mendeleev Communications</i> , 2021 , 31, 176-178	1.9	2
79	Introduction to Dynamic Catalysis and the Interface Between Molecular and Heterogeneous Catalysts 2021 , 13-42		1
78	Formation and stabilization of nanosized Pd particles in catalytic systems: Ionic nitrogen compounds as catalytic promoters and stabilizers of nanoparticles. <i>Coordination Chemistry Reviews</i> , 2021 , 437, 213860	23.2	13
77	Complexes LNi(Cp)X with alkylamino-substituted N-heterocyclic carbene ligands (L) and their catalytic activity in the Suzuki-Miyaura reaction. <i>Russian Chemical Bulletin</i> , 2021 , 70, 1281-1289	1.7	1
76	Tautomerism and basicity of carboxylic acid guanyl hydrazides (acylaminoguanidines). <i>Russian Chemical Bulletin</i> , 2021 , 70, 1509-1522	1.7	
75	Different effects of metal-NHC bond cleavage on the Pd/NHC and Ni/NHC catalyzed arylation of ketones with aryl halides. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 1511-1527	6.8	5
74	The key role of R-NHC coupling (R = C, H, heteroatom) and M-NHC bond cleavage in the evolution of M/NHC complexes and formation of catalytically active species. <i>Chemical Science</i> , 2020 , 11, 6957-6977	9.4	43
73	Nickel(ii) N-heterocyclic carbene complexes as efficient catalysts for the Suzuki-Miyaura reaction. <i>Russian Chemical Bulletin</i> , 2020 , 69, 683-690	1.7	18
72	Preventing Pd-NHC bond cleavage and switching from nano-scale to molecular catalytic systems: amines and temperature as catalyst activators. <i>Catalysis Science and Technology</i> , 2020 , 10, 1228-1247	5.5	13
71	Metal-ligand bond dissociation energies in the Ni, Pd, and Pt complexes with N-heterocyclic carbenes: effect of the oxidation state of the metal (0, +2). <i>Russian Chemical Bulletin</i> , 2020 , 69, 2073-2081	1.7	7
70	Pd and Pt Catalyst Poisoning in the Study of Reaction Mechanisms: What Does the Mercury Test Mean for Catalysis?. <i>ACS Catalysis</i> , 2019 , 9, 2984-2995	13.1	43
69	Ionic Pd/NHC Catalytic System Enables Recoverable Homogeneous Catalysis: Mechanistic Study and Application in the Mizoroki-Heck Reaction. <i>Chemistry - A European Journal</i> , 2019 , 25, 16439	4.8	
68	Ionic Pd/NHC Catalytic System Enables Recoverable Homogeneous Catalysis: Mechanistic Study and Application in the Mizoroki-Heck Reaction. <i>Chemistry - A European Journal</i> , 2019 , 25, 16564	4.8	24
67	Relative stabilities of M/NHC complexes (M = Ni, Pd, Pt) against R-NHC, X-NHC and X-X couplings in M(0)/M(ii) and M(ii)/M(iv) catalytic cycles: a theoretical study. <i>Dalton Transactions</i> , 2019 , 48, 17052-17062	4.3	7

66	Fast and Slow Release of Catalytically Active Species in Metal/NHC Systems Induced by Aliphatic Amines. <i>Organometallics</i> , 2018 , 37, 1483-1492	3.8	35
65	Pd-PEPPSI complexes based on 1,2,4-triazol-3-ylidene ligands as efficient catalysts in the Suzuki-Miyaura reaction. <i>Russian Chemical Bulletin</i> , 2018 , 67, 79-84	1.7	16
64	Revealing the unusual role of bases in activation/deactivation of catalytic systems: O-NHC coupling in M/NHC catalysis. <i>Chemical Science</i> , 2018 , 9, 5564-5577	9.4	44
63	Influence of R ¹ NHC Coupling on the Outcome of R ² Oxidative Addition to Pd/NHC Complexes (R = Me, Ph, Vinyl, Ethynyl). <i>Organometallics</i> , 2018 , 37, 787-796	3.8	28
62	Chlorotrimethylsilane-promoted synthesis of 1,2,4-triazolopyrimidines from 3,5-diamino-1,2,4-triazoles and pentane-2,4-diones. <i>Mendeleev Communications</i> , 2018 , 28, 439-441	1.9	5
61	Base-free aerobic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over Pt/C catalysts synthesized by pulse alternating current technique. <i>Mendeleev Communications</i> , 2018 , 28, 431-433	1.9	10
60	Palladium-catalyzed synthesis of pyrimido[5,4-b,4']pyrrolo[1,2-f]phenanthridine-12,14(11H,13H)-diones and related compounds. <i>Russian Chemical Bulletin</i> , 2018 , 67, 1684-1694	1.7	5
59	Mechanochemical synthesis of platinum(IV) complexes with N-heterocyclic carbenes. <i>Russian Chemical Bulletin</i> , 2018 , 67, 2003-2009	1.7	5
58	Reactions of Pd-PEPPSI complexes with protic acids. <i>Russian Chemical Bulletin</i> , 2018 , 67, 1196-1201	1.7	6
57	Sustainable Utilization of Biomass Refinery Wastes for Accessing Activated Carbons and Supercapacitor Electrode Materials. <i>ChemSusChem</i> , 2018 , 11, 3599-3608	8.3	55
56	Ten-fold boost of catalytic performance in thiol-ene click reaction enabled by a palladium diketonate complex with a hexafluoroacetylacetonate ligand. <i>Catalysis Science and Technology</i> , 2018 , 8, 3073-3080	5.5	5
55	The impact of Al ₂ O ₃ promoter on an efficiency of C ₅ + hydrocarbons formation over Co/SiO ₂ catalysts via Fischer-Tropsch synthesis. <i>Catalysis Today</i> , 2017 , 279, 107-114	5.3	45
54	Alkoxy base-mediated selective synthesis and new rearrangements of 1,2,4-triazolodipyrimidinones. <i>Tetrahedron Letters</i> , 2017 , 58, 748-754	2	11
53	Synthesis and Phase Formation in the System Cu-Cr-O. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2017 , 74, 20-22	0.6	1
52	A New Mode of Operation of Pd-NHC Systems Studied in a Catalytic Mizoroki-Heck Reaction. <i>Organometallics</i> , 2017 , 36, 1981-1992	3.8	97
51	Control of Structure and Phase Formation in the Development of Low-Temperature Technologies Based on Clay-Containing Raw Material. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2017 , 73, 446	0.6	2
50	A TEMPO-like nitroxide combined with an alkyl-substituted pyridine: An efficient catalytic system for the selective oxidation of alcohols with iodine. <i>Tetrahedron Letters</i> , 2017 , 58, 3517-3521	2	15
49	Phase stabilization of ammonium nitrate by double addition of potassium nitrate and melamine. <i>Russian Journal of Applied Chemistry</i> , 2017 , 90, 1392-1396	0.8	4

48	Conversion of plant biomass to furan derivatives and sustainable access to the new generation of polymers, functional materials and fuels. <i>Russian Chemical Reviews</i> , 2017 , 86, 357-387	6.8	59
47	Technological aspects of fructose conversion to high-purity 5-hydroxymethylfurfural, a versatile platform chemical. <i>Russian Journal of Organic Chemistry</i> , 2016 , 52, 767-771	0.7	23
46	Selective Synthesis of 2,5-Diformylfuran by Sustainable 4-acetamido-TEMPO/Halogen-Mediated Electrooxidation of 5-Hydroxymethylfurfural. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2578-85	4.5	19
45	Thermal decomposition of ammonium nitrate with three-component additives. <i>Russian Journal of Applied Chemistry</i> , 2015 , 88, 574-578	0.8	0
44	Partially hydrogenated 2-amino[1,2,4]triazolo[1,5-a]pyrimidines as synthons for the preparation of polycondensed heterocycles: reaction with bromoketones. <i>Tetrahedron</i> , 2015 , 71, 6259-6271	2.4	11
43	Diversity Oriented Synthesis of Polycyclic Heterocycles through the Condensation of 2-Amino[1,2,4]triazolo[1,5-a]pyrimidines with 1,3-Diketones. <i>Journal of Organic Chemistry</i> , 2015 , 80, 10694-709 ²¹	4.2	21
42	Reactivity of C-Amino-1,2,4-triazoles toward Electrophiles: A Combined Computational and Experimental Study of Alkylation by Halogen Alkanes. <i>Journal of Organic Chemistry</i> , 2015 , 80, 375-85	4.2	16
41	Facile Hydrolysis of Nickel(II) Complexes with N-Heterocyclic Carbene Ligands. <i>Organometallics</i> , 2015 , 34, 5759-5766	3.8	38
40	The one-pot synthesis of 2,5-diformylfuran, a promising synthon for organic materials in the conversion of biomass. <i>Russian Chemical Bulletin</i> , 2015 , 64, 1069-1073	1.7	13
39	Reactivity of 2-amino[1,2,4]triazolo[1,5-a]pyrimidines with various saturation of the pyrimidine ring towards electrophiles. <i>Chemistry of Heterocyclic Compounds</i> , 2015 , 51, 1039-1047	1.4	10
38	Molecular Structure of 3-Amino[1,2,4]Triazolo-[4,3-A]Pyrimidin-5-One in Various Tautomeric Forms: Investigation by DFT and QTAIM Methods. <i>Chemistry of Heterocyclic Compounds</i> , 2014 , 50, 319-326	1.4	10
37	A direct approach to a 6-hetarylamino[1,2,4]triazolo[4,3-b][1,2,4,5]tetrazine library. <i>Organic Letters</i> , 2014 , 16, 406-9	6.2	41
36	Synthesis of [1,2,4]triazolo[4,3-a]pyrimidin-5(1H)-ones by the Condensation of 3-Alkylamino-5-amino-1-phenyl[1,2,4]triazoles with β -keto Esters or Diethyl Ethoxymethylenemalonate. <i>Chemistry of Heterocyclic Compounds</i> , 2014 , 49, 1500-1507	1.4	6
35	Partially hydrogenated 2-amino[1,2,4]triazolo[1,5-a]pyrimidines as synthons for the preparation of polycondensed heterocycles: reaction with chlorocarboxylic acid chlorides. <i>Tetrahedron</i> , 2014 , 70, 684-704	7.4	15
34	The structure of protonated 3-pyridyl-substituted 5-amino-1H-1,2,4-triazoles: an experimental and theoretical study. <i>Russian Chemical Bulletin</i> , 2014 , 63, 2591-2598	1.7	1
33	Crystal structure of bis-[(5-amino-1H-1,2,4-triazol-3-yl)(4)acetato]di-aqua-nickel(II) dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014 , 70, 286-9		
32	3-Methyl-4-(2-phenyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)furan. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013 , 69, o1648-9		2
31	2-Amino-5-methyl-3-(2-oxo-2-phenyl-ethyl)-7-phenyl-4,5,6,7-tetra-hydro-3H-[1,2,4]triazolo[1,5-a]pyrimidin-8-ium bromide ethanol monosolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013 , 69, o1586-7		1

30	6-(3,5-Dimethyl-1H-pyrazol-1-yl)-1,2,4,5-tetra-zin-3(2H)-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013 , 69, o1630-1		1
29	Synthesis and rearrangement of 3-Amino-2-Benzyl[1,2,4]Triazolo[4,3-a]Pyrimidinium Salts. <i>Chemistry of Heterocyclic Compounds</i> , 2012 , 48, 1417-1419	1.4	4
28	Regioselective single-reactor synthesis of arylsulfonyl derivatives of 3,5-diamino-1,2,4-triazole. <i>Russian Journal of Applied Chemistry</i> , 2011 , 84, 230-235	0.8	1
27	Thermodynamic and kinetic aspects of a single-reactor synthesis of 5-amino-3-methyl-1,2,4-triazole hydrochloride from aminoguanidine and acetic acid. <i>Russian Journal of Applied Chemistry</i> , 2011 , 84, 400-406	0.8	3
26	Synthesis of 3-pyridyl-substituted 5-amino-1,2,4-triazoles from aminoguanidine and pyridinecarboxylic acids. <i>Russian Journal of Applied Chemistry</i> , 2011 , 84, 1890-1896	0.8	8
25	Novel route for the synthesis of partially hydrogenated 1,2a,5a,8a-tetraazaacenaphthylenes and 1,4a,5,9,8a-pentaazafluorenes. <i>Chemistry of Heterocyclic Compounds</i> , 2011 , 47, 249-251	1.4	6
24	4-Benzyl-3-[(1-oxidoethylidene)amino]-1-phenyl-4,5-dihydro-1H-1,2,4-triazol-5-iminium. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, o870-1		1
23	4-(5-Amino-1H-1,2,4-triazol-3-yl)pyridinium chloride monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, o466-7		3
22	3,5-Diamino-1-phenyl-1,2,4-triazolium bromide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, o1644-5		2
21	2-(4-Chloro-benzo-yl)-1-(diamino-methyl-ene)hydrazinium chloride monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, o1152-3		2
20	N-[(E)-Morpholin-4-yl-methyl-idene]-1-phenyl-1H-1,2,4-triazole-3,5-diamine monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, o3247-8		
19	Rearrangement of 2-(2,5-Dioxopyrrolidin-1-yl)guanidine: An Efficient Synthesis and Structure of 3-(5-Amino-1H-1,2,4-triazol-3-yl)propanoic Acid and Derivatives. <i>Heterocycles</i> , 2010 , 81, 2291	0.8	10
18	Recyclization of 2-(2,5-dioxopyrrolidin-1-yl)-guanidine under the action of aliphatic amines. a novel method for the synthesis of 3-(5-amino-1h-1,2,4-triazol-3-yl)propanoic acid amides. <i>Chemistry of Heterocyclic Compounds</i> , 2010 , 46, 627-628	1.4	2
17	Synthesis of mesoionic 1,2,4-triazolo[4,3-a]pyrimidin-5-ones and substituted formamidines from diethyl (5-1-r-1h-1,2,4-triazol-3-yl)aminomethylenemalonates. <i>Chemistry of Heterocyclic Compounds</i> , 2010 , 46, 1144-1145	1.4	3
16	Reaction of 1-substituted 3,5-diamino-1,2,4-triazoles with β -keto esters: synthesis and new rearrangement of mesoionic 3-amino-2H-[1,2,4]triazolo-[4,3-a]pyrimidin-5-ones. <i>Tetrahedron</i> , 2010 , 66, 3301-3313	2.4	16
15	Alkylation of acyl and sulfonyl derivatives of 3,5-diamino-1-phenyl-1,2,4-triazole. <i>Chemistry of Heterocyclic Compounds</i> , 2009 , 45, 436-444	1.4	6
14	Optimization of the synthesis of 5-amino-1,2,4-triazol-3-ylacetic acid and bis(5-amino-1,2,4-triazol-3-yl)methane. <i>Russian Journal of Applied Chemistry</i> , 2009 , 82, 276-281	0.8	13
13	Synthesis, structure and some reactions of 4a',5',6',7',8',8a'-hexahydro-4'H-spiro[cyclohexane-1,9'-[1,2,4]triazolo[5,1-b]-quinazolines]. <i>Journal of Heterocyclic Chemistry</i> , 2008 , 45, 1419-1427	1.9	12

12	Thermodynamic and kinetic aspects of the reaction of aminoguanidine with malonic acid in acidic aqueous solutions. <i>Russian Journal of Applied Chemistry</i> , 2008 , 81, 1813-1817	0.8	6
11	2-amino-4,5,6,7-tetrahydro-1,2,4-triazolo[1,5-a]pyrimidines: Synthesis and reactions with electrophilic reagents. <i>Russian Journal of Organic Chemistry</i> , 2008 , 44, 715-722	0.7	13
10	A new approach to synthesis of 2-sulfonylamino-1,2,4-triazolo[1,5-a]pyrimidines. <i>Russian Journal of Applied Chemistry</i> , 2007 , 80, 1691-1694	0.8	10
9	Molecular and crystal structure of 5-amino-3-(N-p-methylbenzoyl-N-p-toluenesulfonyl)amino-1-phenyl-1,2,4-triazole. <i>Chemistry of Heterocyclic Compounds</i> , 2007 , 43, 776-780	1.4	3
8	Regioselective synthesis of alkyl derivatives of 3,5-diamino-1,2,4-triazole. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 624-630	0.8	10
7	Synthesis of esters and amides of 5-amino-1,2,4-triazole-3-carboxylic and 5-amino-1,2,4-triazol-3-ylacetic acids. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 783-786	0.8	12
6	Improved synthesis of 2-amino-1,2,4-triazolo[1,5-a]pyrimidines. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 1134-1137	0.8	10
5	Reaction of thiosemicarbazide with n-cyanoguanidine: synthesis of 3,5-diamino-1-thiocarbamoyl- and 3,5-diamino-1-thiazol-2-yl-1,2,4-triazoles. <i>Russian Chemical Bulletin</i> , 2006 , 55, 338-344	1.7	10
4	Acyl and Sulfonyl Derivatives of 3,5-Diamino-1-R-1,2,4-triazoles. <i>Chemistry of Heterocyclic Compounds</i> , 2005 , 41, 1139-1146	1.4	8
3	Synthesis of 1-Acyl- and 1-Arylsulfonyl Derivatives of 3,5-Diamino-1,2,4-triazole. <i>Russian Journal of Applied Chemistry</i> , 2005 , 78, 776-780	0.8	2
2	Stabilization of the Pd/NHC framework with 1,2,4-triazol-5-ylidene ligands toward decomposition in alkaline media. <i>Inorganic Chemistry Frontiers</i> ,	6.8	4
1	Ni/NHC catalysis in C-H functionalization using air-tolerant nickelocene and sodium formate for in situ catalyst generation. <i>Organic Chemistry Frontiers</i> ,	5.2	5