Victor M Chernyshev

List of Publications by Year
in descending order

87 papers	1,543 citations	361045 20 h-index	360668 35 g-index
92 all docs	92 docs citations	92 times ranked	1368 citing authors

#	Article	IF	Citations
1	A New Mode of Operation of Pd-NHC Systems Studied in a Catalytic Mizorokiâ€“Heck Reaction. Organometallics, 2017, 36, 1981-1992.	1.1	119
2	The key role of Râ€“NHC coupling (R = C, H, heteroatom) and Mâ€“NHC bond cleavage in the evolution of M/NHC complexes and formation of catalytically active species. Chemical Science, 2020, 11, 6957-6977.	3.7	87
3	Pd and Pt Catalyst Poisoning in the Study of Reaction Mechanisms: What Does the Mercury Test Mean for Catalysis?. ACS Catalysis, 2019, 9, 2984-2995.	5.5	85
4	Conversion of plant biomass to furan derivatives and sustainable access to the new generation of polymers, functional materials and fuels. Russian Chemical Reviews, 2017, 86, 357-387.	2.5	85
5	Nickel and Palladium Catalysis: Stronger Demand than Ever. ACS Catalysis, 2022, 12, 1180-1200.	5.5	77
6	Sustainable Utilization of Biomass Refinery Wastes for Accessing Activated Carbons and Supercapacitor Electrode Materials. ChemSusChem, 2018, 11, 3599-3608.	3.6	70
7	Revealing the unusual role of bases in activation/deactivation of catalytic systems: Oâ€“NHC coupling in M/NHC catalysis. Chemical Science, 2018, 9, 5564-5577.	3.7	62
8	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. Catalysis Today, 2017, 279, 107-114.	2.2	52
9	Facile Hydrolysis of Nickel(II) Complexes with N-Heterocyclic Carbene Ligands. Organometallics, 2015, 34, 5759-5766.	1.1	48
10	A Direct Approach to a 6-Hetarylamino[1,2,4]triazolo[4,3-<i>b</i>][1,2,4,5]tetrazine Library. Organic Letters, 2014, 16, 406-409.	2.4	47
11	Fast and Slow Release of Catalytically Active Species in Metal/NHC Systems Induced by Aliphatic Amines. Organometallics, 2018, 37, 1483-1492.	1.1	45
12	Formation and stabilization of nanosized Pd particles in catalytic systems: Ionic nitrogen compounds as catalytic promoters and stabilizers of nanoparticles. Coordination Chemistry Reviews, 2021, 437, 213860.	9.5	36
13	Influence of Râ€“NHC Coupling on the Outcome of Râ€“X Oxidative Addition to Pd/NHC Complexes (R = Me,) Tj ETQq1 1 0.784314 rgB	1.1	32
14	Ionic Pd/NHC Catalytic System Enables Recoverable Homogeneous Catalysis: Mechanistic Study and Application in the Mizorokiâ€“Heck Reaction. Chemistry - A European Journal, 2019, 25, 16564-16572.	1.7	32
15	Technological aspects of fructose conversion to high-purity 5-hydroxymethylfurfural, a versatile platform chemical. Russian Journal of Organic Chemistry, 2016, 52, 767-771.	0.3	30
16	Selective Synthesis of 2,5â€Diformylfuran by Sustainable 4â€acetamidoâ€TEMPO/Halogenâ€Mediated Electrooxidation of 5â€Hydroxymethylfurfural. Chemistry - an Asian Journal, 2016, 11, 2578-2585.	1.7	28
17	Nickel(ii) N-heterocyclic carbene complexes as efficient catalysts for the Suzukiâ€"Miyaura reaction. Russian Chemical Bulletin, 2020, 69, 683-690.	0.4	25
18	Diversity Oriented Synthesis of Polycyclic Heterocycles through the Condensation of 2-Amino[1,2,4]triazolo[1,5-<i>a</i>]pyrimidines with 1,3-Diketones. Journal of Organic Chemistry, 2015, 80, 10694-10709.	1.7	22

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19	Reactivity of <i>C</i>-Amino-1,2,4-triazoles toward Electrophiles: A Combined Computational and Experimental Study of Alkylation by Halogen Alkanes. Journal of Organic Chemistry, 2015, 80, 375-385.	1.7	22
20	Reaction of 1-substituted 3,5-diamino-1,2,4-triazoles with Î²-keto esters: synthesis and new rearrangement of mesoionic 3-amino-2H-[1,2,4]triazolo-[4,3-a]pyrimidin-5-ones. Tetrahedron, 2010, 66, 3301-3313.	1.0	20
21	A TEMPO-like nitroxide combined with an alkyl-substituted pyridine: An efficient catalytic system for the selective oxidation of alcohols with iodine. Tetrahedron Letters, 2017, 58, 3517-3521.	0.7	20
22	Pd-PEPPSI complexes based on 1,2,4-triazol-3-ylidene ligands as efficient catalysts in the Suzukiâ€"Miyaura reaction. Russian Chemical Bulletin, 2018, 67, 79-84.	0.4	20
23	Preventing Pdâ€"NHC bond cleavage and switching from nano-scale to molecular catalytic systems: amines and temperature as catalyst activators. Catalysis Science and Technology, 2020, 10, 1228-1247.	2.1	20
24	Partially hydrogenated 2-amino[1,2,4]triazolo[1,5-a]pyrimidines asÂsynthons for the preparation of polycondensed heterocycles: reaction with chlorocarboxylic acid chlorides. Tetrahedron, 2014, 70, 684-701.	1.0	19
25	Ni/NHC catalysis in Câ€"H functionalization using air-tolerant nickelocene and sodium formate for <i>in situ</i> catalyst generation. Organic Chemistry Frontiers, 2021, 8, 2515-2524.	2.3	19
26	Synthesis, structure and some reactions of 4a',5â€²,6â€²,7â€²,8â€²,8a'â€•hexahydroâ€•4â€²<i>H</i>â€•spiro[cyclohexaneâ€•1,9â€²â€•[1,2,4]triazolo[5,1â€•<i>b</i>]â€•quinazolines) of Heterocyclic Chemistry, 2008, 45, 1419-1427.	1.4	15
27	2-amino-4,5,6,7-tetrahydro-1,2,4-triazolo[1,5-a]pyrimidines: Synthesis and reactions with electrophilic reagents. Russian Journal of Organic Chemistry, 2008, 44, 715-722.	0.3	15
28	Stabilization of the Pdâ€"NHC framework with 1,2,4-triazol-5-ylidene ligands toward decomposition in alkaline media. Inorganic Chemistry Frontiers, 2021, 8, 3382-3401.	3.0	15
29	Synthesis of esters and amides of 5-amino-1,2,4-triazole-3-carboxylic and 5-amino-1,2,4-triazol-3-ylacetic acids. Russian Journal of Applied Chemistry, 2006, 79, 783-786.	0.1	14
30	The â€œone-potâ€• synthesis of 2,5-diformylfuran, a promising synthon for organic materials in the conversion of biomass. Russian Chemical Bulletin, 2015, 64, 1069-1073.	0.4	14
31	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. Russian Journal of Applied Chemistry, 2009, 82, 276-281.	0.1	13
32	Reactivity of 2-amino[1,2,4]triazolo[1,5-Ð°]-pyrimidines with various saturation of the pyrimidine ring towards electrophiles. Chemistry of Heterocyclic Compounds, 2015, 51, 1039-1047.	0.6	13
33	Partially hydrogenated 2-amino[1,2,4]triazolo[1,5-a]pyrimidines as synthons for the preparation of polycondensed heterocycles: reaction with Î±-bromoketones. Tetrahedron, 2015, 71, 6259-6271.	1.0	13
34	Improved synthesis of 2-amino-1,2,4-triazolo[1,5-a]pyrimidines. Russian Journal of Applied Chemistry, 2006, 79, 1134-1137.	0.1	12
35	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. Heterocycles, 2010, 81, 2291.	0.4	12
36	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. Chemistry of Heterocyclic Compounds, 2014, 50, 319-326.	0.6	12

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37	Alkoxy base-mediated selective synthesis and new rearrangements of 1,2,4-triazolodipyrimidinones. Tetrahedron Letters, 2017, 58, 748-754.	0.7	12
38	Relative stabilities of M/NHC complexes (M = Ni, Pd, Pt) against Râ€“NHC, Xâ€“NHC and Xâ€“X couplings in M(0)/M(<scp>ii</scp>) and M(<scp>ii</scp>)/M(<scp>iv</scp>) catalytic cycles: a theoretical study. Dalton Transactions, 2019, 48, 17052-17062.	1.6	12
39	Different effects of metal-NHC bond cleavage on the Pd/NHC and Ni/NHC catalyzed Î±-arylation of ketones with aryl halides. Inorganic Chemistry Frontiers, 2021, 8, 1511-1527.	3.0	12
40	Regioselective synthesis of alkyl derivatives of 3,5-diamino-1,2,4-triazole. Russian Journal of Applied Chemistry, 2006, 79, 624-630.	0.1	11
41	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. Russian Chemical Bulletin, 2006, 55, 338-344.	0.4	11
42	A new approach to synthesis of 2-sulfonylamino-1,2,4-triazolo[1,5-a]pyrimidines. Russian Journal of Applied Chemistry, 2007, 80, 1691-1694.	0.1	11
43	Base-free aerobic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over Pt/C catalysts synthesized by pulse alternating current technique. Mendeleev Communications, 2018, 28, 431-433.	0.6	11
44	Acyl and Sulfonyl Derivatives of 3,5-Diamino-1-R-1,2,4-triazoles. Chemistry of Heterocyclic Compounds, 2005, 41, 1139-1146.	0.6	10
45	Synthesis of 3-pyridyl-substituted 5-amino-1,2,4-triazoles from aminoguanidine and pyridinecarboxylic acids. Russian Journal of Applied Chemistry, 2011, 84, 1890-1896.	0.1	10
46	Chlorotrimethylsilane-promoted synthesis of 1,2,4-triazolopyrimidines from 3,5-diamino-1,2,4-triazoles and pentane-2,4-diones. Mendeleev Communications, 2018, 28, 439-441.	0.6	10
47	Ten-fold boost of catalytic performance in thiolâ€“yne click reaction enabled by a palladium diketonate complex with a hexafluoroacetylacetonate ligand. Catalysis Science and Technology, 2018, 8, 3073-3080.	2.1	10
48	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). Russian Chemical Bulletin, 2020, 69, 2073-2081.	0.4	10
49	Complexes LNi(Cp)X with alkylamino-substituted N-heterocyclic carbene ligands (L) and their catalytic activity in the Suzukiâ€"Miyaura reaction. Russian Chemical Bulletin, 2021, 70, 1281-1289.	0.4	10
50	Oneâ€Step Access to Heteroatomâ€Functionalized Imidazol(in)ium Salts. Angewandte Chemie - International Edition, 2022, 61, .	7.2	9
51	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 Î²-Keto Esters or Diethyl Ethoxymethylenemalonate. Chemistry of Heterocyclic Compounds, 2014, 49, 1500-1507.	0.6	8
52	Discovery of the Nâ€“NHC Coupling Process under the Conditions of Pd/NHC- and Ni/NHC-Catalyzed Buchwaldâ€“Hartwig Amination. Organometallics, 2022, 41, 1519-1531.	1.1	8
53	Thermodynamic and kinetic aspects of the reaction of aminoguanidine with malonic acid in acidic aqueous solutions. Russian Journal of Applied Chemistry, 2008, 81, 1813-1817.	0.1	7
54	Novel route for the synthesis of partially hydrogenated 1,2a,5a,8a-tetraazaacenaphthylenes and 1,4a,5,9,8a-pentaazafluorenes. Chemistry of Heterocyclic Compounds, 2011, 47, 249-251.	0.6	7

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55	Reactions of Pd-PEPPSI complexes with protic acids. Russian Chemical Bulletin, 2018, 67, 1196-1201.	0.4	7
56	3-Amino-1,2,4-triazolium salts as NHC-proligands: synthesis and postmodification of a new type of amino-functionalized Pd/NHC complexes. Mendeleev Communications, 2021, 31, 176-178.	0.6	7
57	Alkylation of acyl and sulfonyl derivatives of 3,5-diamino-1-phenyl-1,2,4-triazole. Chemistry of Heterocyclic Compounds, 2009, 45, 436-444.	0.6	6
58	Synthesis and rearrangement of 3-Amino-2-Benzyl[1,2,4]Triazolo[4,3-a]Pyrimidinium Salts. Chemistry of Heterocyclic Compounds, 2012, 48, 1417-1419.	0.6	6
59	Palladium-catalyzed synthesis of pyrimido[5â€™,4â€™:3,4]pyrrolo[1,2-f]phenanthridine-12,14(11H,13H)-diones and related compounds. Russian Chemical Bulletin, 2018, 67, 1684-1694.	0.4	6
60	Mechanochemical synthesis of platinum(IV) complexes with N-heterocyclic carbenes. Russian Chemical Bulletin, 2018, 67, 2003-2009.	0.4	6
61	Phase stabilization of ammonium nitrate by double addition of potassium nitrate and melamine. Russian Journal of Applied Chemistry, 2017, 90, 1392-1396.	0.1	5
62	Synthesis of mesoionic 1,2,4-triazolo[4,3-a]pyrimidin-5-ones and subsituted formamidines from diethyl (5-1-r-1h-1,2,4-triazol -3-yl)aminomethylenemalonates. Chemistry of Heterocyclic Compounds, 2010, 46, 1144-1145.	0.6	4
63	4-(5-Amino-1H-1,2,4-triazol-3-yl)pyridinium chloride monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o466-o467.	0.2	4
64	Ruthenium complexes with chelating carboxylate-NHC ligands as efficient catalysts for C H arylation in water. Mendeleev Communications, 2022, 32, 205-207.	0.6	4
65	Dimroth rearrangement â€œthiadiazole-triazoleâ€: synthesis and exploration of 3-sulfanyl-1,2,4-triazolium salts as NHC-proligands. Russian Chemical Bulletin, 2022, 71, 993-1008.	0.4	4
66	Molecular and crystal structure of 5-amino-3-(N-p-methylbenzoyl-N-p-toluenesulfonyl)amino-1-phenyl-1,2,4-triazole. Chemistry of Heterocyclic Compounds, 2007, 43, 776-780.	0.6	3
67	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. Chemistry of Heterocyclic Compounds, 2010, 46, 627-628.	0.6	3
68	Thermodynamic and kinetic aspects of a single-reactor synthesis of 5-amino-3-methyl-1,2,4-triazole hydrochloride from aminoguanidine and acetic acid. Russian Journal of Applied Chemistry, 2011, 84, 400-406.	0.1	3
69	Control of Structure and Phase Formation in the Development of Low-Temperature Technologies Based on Clay-Containing Raw Material. Glass and Ceramics (English Translation of Steklo I Keramika), 2017, 73, 446.	0.2	3
70	Synthesis of 1-Acyl- and 1-Arylsulfonyl Derivatives of 3,5-Diamino-1,2,4-triazole. Russian Journal of Applied Chemistry, 2005, 78, 776-780.	0.1	2
71	3,5-Diamino-1-phenyl-1,2,4-triazolium bromide. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1644-o1645.	0.2	2
72	2-(4-Chlorobenzoyl)-1-(diaminomethylene)hydrazinium chloride monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1152-o1153.	0.2	2

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73	Regioselective single-reactor synthesis of arylsulfonyl derivatives of 3,5-diamino-1,2,4-triazole. Russian Journal of Applied Chemistry, 2011, 84, 230-235.	0.1	2
74	3-Methyl-4-(2-phenyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)furazan. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1648-o1649.	0.2	2
75	Tautomerism and basicity of carboxylic acid guanyl hydrazides (acylaminoguanidines). Russian Chemical Bulletin, 2021, 70, 1509-1522.	0.4	2
76	4-Benzyl-3-[(1-oxidoethylidene)amino]-1-phenyl-4,5-dihydro-1H-1,2,4-triazol-5-iminium. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o870-o871.	0.2	1
77	2-Amino-5-methyl-3-(2-oxo-2-phenylethyl)-7-phenyl-4,5,6,7-tetrahydro-3H-[1,2,4]triazolo[1,5-a]pyrimidin-8-ium bromide ethanol monosolvate. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1586-o1587.	0.2	1
78	The structure of protonated 3-pyridyl-substituted 5-amino-1H-1,2,4-triazoles: an experimental and theoretical study. Russian Chemical Bulletin, 2014, 63, 2591-2598.	0.4	1
79	Thermal decomposition of ammonium nitrate with three-component additives. Russian Journal of Applied Chemistry, 2015, 88, 574-578.	0.1	1
80	Synthesis and Phase Formation in the System Cuâ€"Crâ€"O. Glass and Ceramics (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10	0.2	1
81	6-(3,5-Dimethyl-1H-pyrazol-1-yl)-1,2,4,5-tetrazin-3(2H)-one. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1630-o1631.	0.2	1
82	Oneâ€Step Access to Heteroatomâ€Functionalized Imidazol(in)ium Salts. Angewandte Chemie, 0, , .	1.6	1
83	N3-[(E)-Morpholin-4-ylmethylidene]-1-phenyl-1H-1,2,4-triazole-3,5-diamine monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o3247-o3248.	0.2	0
84	Ionic Pd/NHC Catalytic System Enables Recoverable Homogeneous Catalysis: Mechanistic Study and Application in the Mizorokiâ€"Heck Reaction. Chemistry - A European Journal, 2019, 25, 16439-16439.	1.7	0
85	Crystal structure of bis[(5-amino-1H-1,2,4-triazol-3-yl-ÎºN4)acetato-ÎºO]diaquanickel(II) dihydrate. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, 286-289.	0.2	0
86	Frontispiece: Oneâ€Step Access to Heteroatomâ€Functionalized Imidazol(in)ium Salts. Angewandte Chemie - International Edition, 2022, 61, .	7.2	0
87	Frontispiz: Oneâ€Step Access to Heteroatomâ€Functionalized Imidazol(in)ium Salts. Angewandte Chemie, 2022, 134, .	1.6	0