Andrey F Asachenko

List of Publications by Year
in descending order

84 papers	1,694 citations	331670 21 h-index	330143 37 g-index
90 all docs	90 docs citations	90 times ranked	1658 citing authors

#	Article	IF	Citations
1	Development of new methods in modern selective organic synthesis: preparation of functionalized molecules with atomic precision. Russian Chemical Reviews, 2014, 83, 885-985.	6.5	182
2	Combustion behavior and physico-chemical properties of dihydroxylammonium 5,5â€²-bistetrazole-1,1â€²-diolate (TKX-50). Thermochimica Acta, 2015, 614, 85-92.	2.7	88
3	Pursuing reliable thermal analysis techniques for energetic materials: decomposition kinetics and thermal stability of dihydroxylammonium 5,5â€²-bistetrazole-1,1â€²-diolate (TKX-50). Physical Chemistry Chemical Physics, 2017, 19, 436-449.	2.8	88
4	Expanded ring diaminocarbene palladium complexes: synthesis, structure, and Suzukiâ€“Miyaura cross-coupling of heteroaryl chlorides in water. Dalton Transactions, 2013, 42, 6859.	3.3	82
5	Janus tricyclononene polymers bearing tri(n-alkoxy)silyl side groups for membrane gas separation. Journal of Materials Chemistry A, 2018, 6, 19393-19408.	10.3	68
6	Solventâ€Free Buchwaldâ€“Hartwig (Hetero)arylation of Anilines, Diarylamines, and Dialkylamines Mediated by Expandedâ€Ring Nâ€Heterocyclic Carbene Palladium Complexes. European Journal of Organic Chemistry, 2016, 2016, 1908-1914.	2.4	62
7	Expandedâ€Ring Nâ€Heterocyclic Carbenes Efficiently Stabilize Gold(I) Cations, Leading to High Activity in Ï€â€Acidâ€Catalyzed Cyclizations. Chemistry - A European Journal, 2014, 20, 6162-6170.	3.3	59
8	Solventâ€Free Buchwaldâ€“Hartwig Reaction of Aryl and Heteroaryl Halides with Secondary Amines. European Journal of Organic Chemistry, 2014, 2014, 3319-3322.	2.4	49
9	Miyaura Borylation and Oneâ€Pot Twoâ€Step Homocoupling of Aryl Chlorides and Bromides under Solventâ€Free Conditions. Advanced Synthesis and Catalysis, 2016, 358, 977-983.	4.3	49
10	Palladium-Catalyzed Pathways to Aryl-Substituted Indenes:Â Efficient Synthesis of Ligands and the Respectiveansa-Zirconocenes. Organometallics, 2006, 25, 1217-1229.	2.3	43
11	Eight-membered-ring diaminocarbenes bearing naphthalene moiety in the backbone: DFT studies, synthesis of amidinium salts, generation of free carbene, metal complexes, and solvent-free copper catalyzed azideâ€“alkyne cycloaddition (CuAAC) reaction. Dalton Transactions, 2017, 46, 4331-4345.	3.3	43
12	Polymerization of 5-Alkylidene-2-norbornenes with Highly Active Pdâ€“N-Heterocyclic Carbene Complex Catalysts: Catalyst Structureâ€“Activity Relationships. ACS Catalysis, 2020, 10, 1663-1678.	11.2	36
13	Mild and Regioselective Synthesis of 3â€CF₃â€Pyrazoles by the AgOTfâ€Catalysed Reaction of CF₃â€Ynones with Hydrazines. European Journal of Organic Chemistry, 2018, 2018, 3750-3755.	2.4	33
14	Effect of AuPd Bimetal Sensitization on Gas Sensing Performance of Nanocrystalline SnO2 Obtained by Single Step Flame Spray Pyrolysis. Nanomaterials, 2019, 9, 728.	4.1	31
15	Mixed er-NHC/phosphine Pd(<scp>ii</scp>) complexes and their catalytic activity in the Buchwaldâ€“Hartwig reaction under solvent-free conditions. Dalton Transactions, 2019, 48, 3447-3452.	3.3	31
16	Modifications of addition poly(5-vinyl-2-norbornene) and gas-transport properties of the obtained polymers. Reactive and Functional Polymers, 2020, 149, 104513.	4.1	30
17	Suzukiâ€“Miyaura Crossâ€Coupling under Solventâ€Free Conditions. Advanced Synthesis and Catalysis, 2013, 355, 3553-3557.	4.3	28
18	Regioâ€and Stereoselective Dimerization of Arylacetylenes and Optical and Electrochemical Studies of (E)â€1,3â€Enynes. Advanced Synthesis and Catalysis, 2014, 356, 2671-2678.	4.3	28

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19	Hydrohydrazination of Arylalkynes Catalyzed by an Expanded Ring Nâ€Heterocyclic Carbene (erâ€NHC) Gold Complex Under Solventâ€Free Conditions. Advanced Synthesis and Catalysis, 2016, 358, 1463-1468.	4.3	27
20	Toward reliable characterization of energetic materials: interplay of theory and thermal analysis in the study of the thermal stability of tetranitroacetimidic acid (TNAA). Physical Chemistry Chemical Physics, 2018, 20, 29285-29298.	2.8	24
21	An unprecedentedly simple method of synthesis of aryl azides and 3-hydroxytriazenes. Green Chemistry, 2016, 18, 5984-5988.	9.0	22
22	Solvent-free Buchwaldâ€“Hartwig amination with low palladium loadings. Mendeleev Communications, 2017, 27, 618-620.	1.6	21
23	Stannylation of Aryl Halides, Stille Crossâ€Coupling, and Oneâ€Pot, Twoâ€Step Stannylation/Stille Crossâ€Coupling Reactions under Solventâ€Free Conditions. European Journal of Organic Chemistry, 2018, 2018, 120-125.	2.4	21
24	Ln(<scp>ii</scp>) amido complexes coordinated by ring-expanded N-heterocyclic carbenes â€“ promising catalysts for olefin hydrophosphination. Chemical Communications, 2020, 56, 12913-12916.	4.1	21
25	Fluorinated Unsymmetrical N,Nâ€²â€Diaryl Imidazolium Saltsâ€”New Functionalized NHCâ€Ligand Precursors. Chemistry - A European Journal, 2017, 23, 6663-6674.	3.3	20
26	Solvent-free Suzuki and Stille cross-coupling reactions of 4- and 5-halo-1,2,3-triazoles. Mendeleev Communications, 2019, 29, 147-149.	1.6	20
27	Solvent- and transition metal-free amide synthesis from phenyl esters and aryl amines. RSC Advances, 2019, 9, 1536-1540.	3.6	20
28	Azideâ€“Alkyne Cycloaddition (CuAAC) in Alkane Solvents Catalyzed by Fluorinated NHC Copper(I) Complex. European Journal of Organic Chemistry, 2019, 2019, 1016-1020.	2.4	20
29	In situ transformations of Pd/NHC complexes with N-heterocyclic carbene ligands of different nature into colloidal Pd nanoparticles. Inorganic Chemistry Frontiers, 2019, 6, 482-492.	6.0	19
30	Microporous Materials Based on Norbornadiene-Based Cross-Linked Polymers. Polymers, 2018, 10, 1382.	4.5	17
31	Optimization Studies on Synthesis of <scp>TKX</scp>â€50. Chinese Journal of Chemistry, 2017, 35, 98-102.	4.9	16
32	General Method for the Synthesis of 1,4â€Disubstituted 5â€Haloâ€1,2,3â€triazoles. European Journal of Organic Chemistry, 2017, 2017, 5225-5230.	2.4	15
33	Ring size and nothing else matters: unusual regioselectivity of alkyne hydration by NHC gold(<scp>i</scp>) complexes. Chemical Communications, 2021, 57, 5686-5689.	4.1	15
34	Group 4 Metallocenes Bearing Î·⁵-2-(N-Azolyl)indenyl Ligands: Synthesis, Structure Characterization, and Olefin Polymerization Catalysis. Organometallics, 2009, 28, 1800-1816.	2.3	14
35	A general method of Suzukiâ€“Miyaura cross-coupling of 4- and 5-halo-1,2,3-triazoles in water. Organic and Biomolecular Chemistry, 2017, 15, 9575-9578.	2.8	14
36	Cyclometallated 1,2,3-triazol-5-ylidene iridium(III) complexes: synthesis, structure, and photoluminescence properties. Mendeleev Communications, 2019, 29, 128-131.	1.6	14

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37	Switching on/switching off solubility controlled permeation of hydrocarbons through glassy polynorbornenes by the length of side alkyl groups. Journal of Membrane Science, 2022, 641, 119848.	8.2	14
38	Addition homo- and copolymerization of 3-triethoxysilyltricyclo[4.2.1.02,5]non-7-ene. Russian Chemical Bulletin, 2018, 67, 121-126.	1.5	13
39	Breast cancer organoid model allowed to reveal potentially beneficial combinations of 3,3â€²-diindolylmethane and chemotherapy drugs. Biochimie, 2020, 179, 217-227.	2.6	13
40	Polynorbornenes bearing ether fragments in substituents: Promising membrane materials with enhanced CO2 permeability. Journal of Membrane Science, 2022, 648, 120340.	8.2	13
41	Catalytic activity of palladium complexes with stable diaminocarbenes containing five-, six- and seven-membered rings in the Suzuki-Miyaura reaction. Russian Chemical Bulletin, 2014, 63, 890-894.	1.5	12
42	Oneâ€Pot Synthesis of 5â€Aminoâ€1,2,3â€triazole Derivatives via Dipolar Azideâ^Nitrile Cycloaddition and Dimroth Rearrangement under Solventâ€Free Conditions. European Journal of Organic Chemistry, 2021, 2021, 1378-1384.	2.4	12
43	Nitromethane as a reagent for the synthesis of 3-nitroindoles from 2-haloarylamine derivatives. Russian Chemical Bulletin, 2020, 69, 2370-2377.	1.5	12
44	Coupling of aromatic aldehydes with aryl halides in the presence of nickel catalysts with diazabutadiene ligands. Russian Chemical Bulletin, 2016, 65, 456-463.	1.5	11
45	Rare-Earth Complexes with the 5,5â€²-Bitetrazolate Ligand - Synthesis, Structure, Luminescence Properties, and Combustion Catalysis. European Journal of Inorganic Chemistry, 2018, 2018, 805-815.	2.0	11
46	Addition Homoâ€•and Copolymerizations of Dicyclopentadiene and 5â€nâ€Hexylnorbornene in the Presence of Pdâ€Nâ€Heterocyclic Carbene Complexes. Macromolecular Chemistry and Physics, 2018, 219, 1800323.	2.2	11
47	Transitionâ€Metalâ€Free Synthesis of 1,2â€Disubstituted Indoles. European Journal of Organic Chemistry, 2019, 2019, 4844-4854.	2.4	11
48	Making endo-cyclizations favorable again: a conceptually new synthetic approach to benzotriazoles via azide group directed lithiation/cyclization of 2-azidoaryl bromides. Organic and Biomolecular Chemistry, 2019, 17, 4523-4534.	2.8	10
49	Synthesis and optical properties of novel unsymmetrically substituted benzothiadiazole-based luminophores. Mendeleev Communications, 2021, 31, 33-35.	1.6	10
50	NHC Pdii complexes for the solvent-free telomerisation of isoprene with methanol. Mendeleev Communications, 2021, 31, 478-480.	1.6	10
51	New catalyst for homocoupling of aryl halides based on nickel complexes with diazabutadiene ligands. Russian Journal of Organic Chemistry, 2011, 47, 1774-1776.	0.8	9
52	Cocatalyst versus precatalyst impact on the vinyl-addition polymerization of norbornenes with polar groups: looking at the other side of the coin. Polymer Chemistry, 2021, 12, 6355-6362.	3.9	9
53	Palladium-Catalyzed Cross-Coupling Reactions of Bromo-Substituted Group 4 Metallocenes. Organometallics, 2009, 28, 3614-3617.	2.3	8
54	Reexamination of an Energetic Nitrate Ester SHN. Propellants, Explosives, Pyrotechnics, 2017, 42, 1014-1019.	1.6	8

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55	One-pot two-step stannylation/Stille homocoupling of aryl bromides and iodides under solvent-free conditions. Mendeleev Communications, 2018, 28, 323-325.	1.6	8
56	Synthesis, Molecular, and Gas-Transport Properties of Homopolymers Based on 5-Ethylidene-2-norbornene and 5-Vinyl-2-norbornene. Polymer Science - Series C, 2019, 61, 86-101.	1.7	8
57	Deep blue luminescent cyclometallated 1,2,3-triazol-5-ylidene iridium(iii) complexes. Mendeleev Communications, 2020, 30, 717-718.	1.6	8
58	New expanded-ring NHC platinum(0) complexes: Synthesis, structure and highly efficient diboration of terminal alkenes. Journal of Organometallic Chemistry, 2020, 912, 121140.	1.8	8
59	Distribution of benzo-substituted crown-ethers between chloroform and water: effects of macrocycle ring size and lithium chloride. Journal of Radioanalytical and Nuclear Chemistry, 2018, 316, 535-541.	1.5	7
60	Evidence for Indirect Action of Ionizing Radiation in 18-Crown-6 Complexes with Halogenous Salts of Strontium: Simulation of Radiation-Induced Transformations in Ionic Liquid/Crown Ether Compositions. Journal of Physical Chemistry B, 2018, 122, 1992-2000.	2.6	7
61	Impact of the RAFT/MADIX agent on protonated diallylammonium monomer cyclopolymerization with efficient chain transfer to monomer. European Polymer Journal, 2020, 122, 109363.	5.4	7
62	Solvent-free palladium-catalyzed Câ€“O cross-coupling of aryl bromides with phenols. Mendeleev Communications, 2021, 31, 409-411.	1.6	6
63	Addition Polymerization of 5-Ethylidene-2-Norbornene in the Presence of Pd N-Heterocyclic Carbene Complexes. Doklady Chemistry, 2018, 479, 49-52.	0.9	5
64	Alkynylâ€•or Azidoâ€Functionalized 1,2,3â€Triazoles: Selective MonoCuAAC Promoted by Physical Factors. ChemistrySelect, 2019, 4, 7470-7475.	1.5	5
65	Extension of an Encapsulating Macrobicyclic Ligand Using the Palladium-Catalyzed Suzukiâ€“Miyaura Reaction of a Diiodoclathrochelate Iron(II) Tris-Glyoximate with Reactive Halogen Atoms in Its Apical Substituents. Russian Journal of Inorganic Chemistry, 2020, 65, 1494-1502.	1.3	5
66	A Set of Active Promoters with Different Activity Profiles for Superexpressing Rhodococcus Strain. ACS Synthetic Biology, 2021, 10, 515-530.	3.8	5
67	Synthesis and Study of the Thermal and Ballistic Properties of SMX. Central European Journal of Energetic Materials, 2018, 15, 30-46.	0.4	5
68	Zirconium complexes bearing Î·5-5â€²,6â€²,7â€²-trihydrospiro[cycloalkane-1,4â€²-indenyl] ligands. Journal of Organometallic Chemistry, 2010, 695, 1940-1948.	1.8	4
69	New zirconocenes with 4,5,6,7-tetrahydroindene ligands. Synthesis and catalytic activity in the polymerization of ethylene and copolymerization of ethylene with hex-1-ene. Russian Chemical Bulletin, 2016, 65, 1580-1585.	1.5	4
70	Undirected ortho-selectivity in Câ€“H borylation of arenes catalyzed by NHC platinum(0) complexes. Mendeleev Communications, 2020, 30, 569-571.	1.6	4
71	Comparative activity of yttrium(iii) pincer complexes in isoprene polymerization. Russian Chemical Bulletin, 2020, 69, 2307-2311.	1.5	4
72	Preparation of N-phenyl-p-phenylenediamine by coupling of aniline and nitrobenzene in KOHâ€“poly(ethylene glycol) medium. Mendeleev Communications, 2016, 26, 555-557.	1.6	3

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73	Ansa-zirconocenes bearing 5-NR2-6-alkyl-4-hydrocarbyl-2-methylindenyl moieties: Synthesis, structure, stereoselective polymerization of propylene. Journal of Organometallic Chemistry, 2019, 892, 41-50.	1.8	3
74	Polymerization of 5-Ethylidene-2-norbornene in the Presence of Pdâ€“N-Heterocyclic Carbene Complexes with Phosphine and Pyridine Ligands. Polymer Science - Series B, 2020, 62, 319-327.	0.8	3
75	Solvent-free palladium-catalyzed Câ€“O cross-coupling of aryl bromides with phenols. Mendeleev Communications, 2021, 31, 409-411.	1.6	3
76	Efficient synthesis of 3-arylbutadiene sulfones using the Heckâ€“Matsuda reaction. Mendeleev Communications, 2021, 31, 548-549.	1.6	3
77	9-ING-41, a Small Molecule Inhibitor of GSK-3Î², Potentiates the Effects of Chemotherapy on Colorectal Cancer Cells. Frontiers in Pharmacology, 2021, 12, 777114.	3.5	3
78	8-Methoxy-5-methyl-2,3-dihydro-1H-cyclopenta[a]naphthalene: synthesis and reactivity. Russian Chemical Bulletin, 2008, 57, 2564-2571.	1.5	2
79	Addition polymerization of 5-vinyl-2-norbornene and 5-ethylidene-2-norbornene. AIP Conference Proceedings, 2018, , .	0.4	2
80	General Method of Synthesis of 5-(Het)arylamino-1,2,3-triazoles via Buchwaldâ€“Hartwig Reaction of 5-Amino- or 5-Halo-1,2,3-triazoles. Molecules, 2022, 27, 1999.	3.8	2
81	Highly efficient synthesis of 3,4-diarylbutadiene sulfones using Heckâ€“Matsuda reaction. RSC Advances, 2022, 12, 5517-5521.	3.6	1
82	Solvent-free palladium-catalyzed C O cross-coupling of (hetero)aryl halides with primary alcohols. Mendeleev Communications, 2022, 32, 258-259.	1.6	1
83	Synthesis of 5â€²,6â€²,7â€²,7Aâ€²-tetrahydrospiro[cyclohexane-1,4â€²-inden]-2â€²(1â€²H)-one and 1â€²,2â€²,6â€²,7â€²-tetrahydrospiro[cyclohexane-1,4â€²-inden]-3â€²(5â€²H)-one. Moscow University Chemistry Bulletin, 2011, 66, 302-306.	0.4	0
84	Synthesis and properties of polynorbornenes containing trialkoxysilyl groups. AIP Conference Proceedings, 2018, , .	0.4	0