

# Lyudmila Parfenova

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8529515/publications.pdf>

Version: 2024-02-01

83  
papers

777  
citations

623188

14  
h-index

713013

21  
g-index

87  
all docs

87  
docs citations

87  
times ranked

423  
citing authors

#	ARTICLE	IF	CITATIONS
1	DFT Study on Mechanism of Olefin Hydroalumination by XAlBu <sub>2</sub> in the Presence of Cp <sub>2</sub> ZrCl <sub>2</sub> Catalyst. I. Simulation of Intermediate Formation in Reaction of HAlBu <sub>2</sub> with Cp <sub>2</sub> ZrCl <sub>2</sub> . <i>Organometallics</i> , 2009, 28, 968-977.	1.1	39
2	Mechanism of Cp <sub>2</sub> ZrCl <sub>2</sub> -catalyzed olefin hydroalumination by alkylalanes. <i>Russian Chemical Bulletin</i> , 2005, 54, 316-327.	0.4	34
3	Role of Zr,Al Hydride Intermediate Structure and Dynamics in Alkene Hydroalumination with XAlBu <sub>2</sub> (X = H, Cl, Bu), Catalyzed by Zr <sup>+</sup> Complexes. <i>Organometallics</i> , 2015, 34, 3559-3570.	1.1	29
4	Surface functionalization via PEO coating and RGD peptide for nanostructured titanium implants and their in vitro assessment. <i>Surface and Coatings Technology</i> , 2019, 357, 669-683.	2.2	29
5	Mechanisms of reactions of organoaluminium compounds with alkenes and alkynes catalyzed by Zr complexes. <i>Russian Chemical Reviews</i> , 2012, 81, 524-548.	2.5	28
6	Biofunctionalization of PEO coatings on titanium implants with inorganic and organic substances. <i>Surface and Coatings Technology</i> , 2020, 404, 126486.	2.2	28
7	Enantioselectivity of chiral zirconocenes as catalysts in alkene hydro-, carbo- and cycloalumination reactions. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 299-310.	1.8	27
8	DFT and Ab Initio Study on Mechanism of Olefin Hydroalumination by XAlBu <sub>2</sub> in the Presence of Cp <sub>2</sub> ZrCl <sub>2</sub> Catalyst. II.(1) Olefin Interaction with Catalytically Active Centers. <i>Organometallics</i> , 2011, 30, 6078-6089.	1.1	27
9	New effective reagent [Cp <sub>2</sub> ZrH <sub>2</sub> ·ClAlEt <sub>2</sub> ] <sub>2</sub> for alkene hydrometallation. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 3424-3429.	0.8	26
10	Developing Nanostructured Metals for Manufacturing of Medical Implants with Improved Design and Biofunctionality. <i>Materials Transactions</i> , 2019, 60, 1356-1366.	0.4	26
11	Kinetic model of olefin hydroalumination by HAlBu <sub>2</sub> and AlBu <sub>3</sub> in the presence of Cp <sub>2</sub> ZrCl <sub>2</sub> catalyst. <i>International Journal of Chemical Kinetics</i> , 2007, 39, 333-339.	1.0	19
12	On study of chemoselectivity of reaction of trialkylalanes with alkenes, catalyzed with Zr $\eta^6$ -complexes. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 3725-3731.	0.8	19
13	Title is missing!. <i>Russian Chemical Bulletin</i> , 2000, 49, 2051-2058.	0.4	16
14	Biocompatible Organic Coatings Based on Bisphosphonic Acid RGD-Derivatives for PEO-Modified Titanium Implants. <i>Molecules</i> , 2020, 25, 229.	1.7	16
15	Reactions of bimetallic Zr,Al- hydride complexes with methylaluminumoxane: NMR and DFT study. <i>Journal of Organometallic Chemistry</i> , 2017, 851, 30-39.	0.8	15
16	Synthesis and Biological Activity of Cyanoethyl Derivatives of Fusidic Acid. <i>Russian Journal of Organic Chemistry</i> , 2018, 54, 1411-1418.	0.3	15
17	Asymmetric alkene cycloalumination by AlEt <sub>3</sub> , catalyzed with neomenthylindenyl zirconium $\eta^6$ -complexes. <i>Journal of Organometallic Chemistry</i> , 2013, 723, 19-25.	0.8	13
18	Catalytic enantioselective ethylalumination of terminal alkenes: substrate effects and absolute configuration assignment. <i>Tetrahedron: Asymmetry</i> , 2015, 26, 124-135.	1.8	13

#	ARTICLE	IF	CITATIONS
19	Convenient one-pot synthesis of resin acid Mannich bases as novel anticancer and antifungal agents. <i>Medicinal Chemistry Research</i> , 2018, 27, 2199-2213.	1.1	13
20	Synthesis of New Dihydroquinopimaric Acid Analogs with Nitrile Groups as Apoptosis-Inducing Anticancer Agents. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2019, 19, 1172-1183.	0.9	13
21	Title is missing!. <i>Doklady Physical Chemistry</i> , 2001, 381, 279-282.	0.2	12
22	Ecdysteroids: isolation, chemical transformations, and biological activity. <i>Phytochemistry Reviews</i> , 2022, 21, 1445-1486.	3.1	12
23	Structure and conformations of 2-substituted and 3-substituted alumolanes in polar solvents: a direct NMR observation. <i>Magnetic Resonance in Chemistry</i> , 2016, 54, 62-74.	1.1	11
24	Indole Derivatives of Fusidane Triterpenoids: Synthesis and the Antibacterial Activity. <i>Chemistry of Heterocyclic Compounds</i> , 2020, 56, 800-804.	0.6	11
25	Synthesis, modification, and biological activity of propargylated methyl dihydroquinopimarates. <i>Natural Product Research</i> , 2022, 36, 79-86.	1.0	11
26	Mechanistic aspects of chemo- and regioselectivity in Cp <sub>2</sub> ZrCl <sub>2</sub> -catalyzed alkene cycloalumination by AlEt <sub>3</sub> . <i>Journal of Organometallic Chemistry</i> , 2016, 822, 135-143.	0.8	10
27	Mechanism of Cp <sub>2</sub> ZrCl <sub>2</sub> -Catalyzed Olefin Cycloalumination with AlEt <sub>3</sub> : Quantum Chemical Approach. <i>Organometallics</i> , 2018, 37, 2406-2418.	1.1	10
28	Synthesis and cytotoxic activity of 3-amino substituted fusidane triterpenoids. <i>Medicinal Chemistry Research</i> , 2019, 28, 2171-2183.	1.1	10
29	One-pot Synthesis of Betulin Triterpenoid Quaternized Pyridine Derivatives and their Antimicrobial Activity. <i>Letters in Drug Design and Discovery</i> , 2019, 17, 79-84.	0.4	10
30	Bimetallic Zr,Zr-Hydride Complexes in Zirconocene Catalyzed Alkene Dimerization. <i>Molecules</i> , 2020, 25, 2216.	1.7	10
31	New quaternized pyridinium derivatives of betulin: Synthesis and evaluation of membranotropic properties on liposomes, pro- and eukaryotic cells, and isolated mitochondria. <i>Chemico-Biological Interactions</i> , 2021, 349, 109678.	1.7	9
32	Catalytic Systems Based on Cp <sub>2</sub> ZrX <sub>2</sub> (X = Cl, H), Organoaluminum Compounds and Perfluorophenylboranes: Role of Zr,Zr- and Zr,Al-Hydride Intermediates in Alkene Dimerization and Oligomerization. <i>Catalysts</i> , 2021, 11, 39.	1.6	9
33	Catalytic cyclometallation of allylbenzenes by EtAlCl <sub>2</sub> and Mg as new route to synthesis of dibenzyl butane lignans. <i>Journal of Organometallic Chemistry</i> , 2014, 772-773, 292-298.	0.8	8
34	Synthesis and antimicrobial activity of quinopimaric and maleopimaric acids. <i>Russian Journal of Bioorganic Chemistry</i> , 2017, 43, 317-322.	0.3	8
35	A new route of the reaction of EtAlCl <sub>2</sub> with 1-olefins catalyzed by Ti complexes. <i>Russian Chemical Bulletin</i> , 2001, 50, 292-296.	0.4	7
36	An effect of application of chiral aluminium alkoxides and amides as adducts to zirconium catalyzed carbo- and cycloalumination of olefins. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 444-453.	0.8	7

#	ARTICLE	IF	CITATIONS
37	Intramolecular mobility of $\eta^5$ -ligands in chiral zirconocene complexes and the enantioselectivity of alkene functionalization by organoaluminum compounds. Dalton Transactions, 2016, 45, 12814-12826.	1.6	7
38	Ligand exchange processes in zirconocene dichloride-trimethylaluminum bimetallic systems and their catalytic properties in reaction with alkenes. Dalton Transactions, 2018, 47, 16918-16937.	1.6	7
39	One-pot synthesis of quaternary pyridinium salts and tetrahydropyridine derivatives of fusidane triterpenoids. Chemistry of Heterocyclic Compounds, 2019, 55, 1204-1210.	0.6	7
40	Ti Group Metallocene-Catalyzed Synthesis of 1-Hexene Dimers and Tetramers. Molecules, 2021, 26, 2775.	1.7	7
41	Hyaluronic acid bisphosphonates as antifouling antimicrobial coatings for PEO-modified titanium implants. Surfaces and Interfaces, 2022, 28, 101678.	1.5	7
42	Title is missing!. Russian Chemical Bulletin, 2001, 50, 2336-2345.	0.4	6
43	Effect of dicyclopentadiene- and diindenylzirconocene dichlorides on free-radical polymerization of methyl methacrylate. Polymer Science - Series A, 2006, 48, 712-716.	0.4	6
44	Stereocontrolled monoalkylation of mixed-ring complex CpCp <sup>2</sup> ZrCl <sub>2</sub> (Cp <sup>2</sup> =1-neomenthyl-4,5,6,7-tetrahydroindenyl) by lithium, magnesium and aluminum alkyls. Journal of Organometallic Chemistry, 2013, 726, 37-45.	0.8	6
45	Synthesis and modifications of alkyne derivatives of dihydroquinopimaric, maleopimaric, and fumaropimaric acids. Russian Journal of Organic Chemistry, 2016, 52, 1496-1502.	0.3	6
46	Sonochemically assisted 2,3-dideoxygenation and skeletal rearrangement of ecdysteroid derivatives. Ultrasonics Sonochemistry, 2019, 52, 505-511.	3.8	6
47	Diastereoselective synthesis of functionally substituted alkene dimers and oligomers, catalysed by chiral zirconocenes. Catalysis Communications, 2019, 119, 144-152.	1.6	6
48	Synthesis of N-Heterocyclic Analogues of 28-O-Methyl Betulinic Acid, and Their Antibacterial and Antifungal Properties. MolBank, 2020, 2020, M1100.	0.2	6
49	Chain and cluster models of methylaluminumoxane as activators of zirconocene hydride, alkyl and metallacyclopropane intermediates in alkene transformations. Molecular Catalysis, 2021, 512, 111768.	1.0	6
50	Reductive amination of fusidane triterpenoid ketones. Mediterranean Journal of Chemistry, 2018, 7, 198-203.	0.3	6
51	Synthesis of novel $\beta$ -aminoecdysteroids via regio- and stereoselective oximation/hydrogenation of 20-hydroxyecdysone derivatives. Canadian Journal of Chemistry, 2017, 95, 130-133.	0.6	5
52	Synthesis and Biological Activity of Nitrilic Derivatives of the Methyl Ester of Maleopimaric Acid. Russian Journal of Bioorganic Chemistry, 2018, 44, 547-552.	0.3	5
53	The Nenitzescu Reaction in the Synthesis of New Abietane Diterpene Indoles. Chemistry of Heterocyclic Compounds, 2020, 56, 1366-1369.	0.6	5
54	Beckmann Rearrangement of Oximes of the Fusidane Series. Russian Journal of Organic Chemistry, 2020, 56, 11-19.	0.3	5

#	ARTICLE	IF	CITATIONS
55	In vitro adjuvant antitumor activity of various classes of semi-synthetic poststerone derivatives. <i>Biorganic Chemistry</i> , 2021, 106, 104485.	2.0	5
56	Hydroxy Derivatives of Poststerone and Its Nontrivial 13(14 $\alpha$ )-Abeo-analogues: Synthesis, Crystal Packing, and Intermolecular Hydrogen Bonds. <i>Journal of Molecular Structure</i> , 2021, 1227, 129509.	1.8	5
57	Photoluminescence and mechanoluminescence of solid-state zirconocene dichlorides. <i>Luminescence</i> , 2021, 36, 943-950.	1.5	5
58	Synthesis and Biological Activity of Oximes, Amines, and Lactams of Fusidane Triterpenoids. <i>ChemistrySelect</i> , 2021, 6, 8848-8854.	0.7	5
59	Superior properties and behaviour of coatings produced on nanostructured titanium by PEO coupled with the EPD process. <i>Surface Topography: Metrology and Properties</i> , 2022, 10, 015020.	0.9	5
60	Investigation of Biocompatible PEO Coating Growth on cp-Ti with In Situ Spectroscopic Methods. <i>Materials</i> , 2022, 15, 9.	1.3	5
61	Title is missing!. <i>Russian Chemical Bulletin</i> , 2001, 50, 1465-1468.	0.4	4
62	Molecular rearrangements of poststerone derivative steroid core with formation of unique D-homostructures of pregnane and androstane series. <i>Steroids</i> , 2019, 148, 28-35.	0.8	4
63	Synthesis of N-Substituted Thiazacycloalkanes by Cyclothiomethylation of Primary Aliphatic Amines and Amino Derivatives of Maleopimaric Acid. <i>Russian Journal of General Chemistry</i> , 2019, 89, 25-31.	0.3	4
64	Synthesis and Antimicrobial and Antifungal Activity of Resin Acid Acetylene Derivatives. <i>Russian Journal of Biorganic Chemistry</i> , 2019, 45, 545-551.	0.3	4
65	A Commercial Extract of <i>Cyanotis arachnoidea</i> Roots as a Source of Unusual Ecdysteroid Derivatives with Insect Hormone Receptor Binding Activity. <i>Journal of Natural Products</i> , 2021, 84, 1870-1881.	1.5	4
66	Cycloaluminum of allylbenzenes with triethylaluminum in the presence of Cp <sub>2</sub> ZrCl <sub>2</sub> . One-pot synthesis of 2-benzylbutane-1,4-diols as precursors of dibenzylbutane lignans. <i>Russian Journal of Organic Chemistry</i> , 2016, 52, 1750-1755.	0.3	3
67	One-pot synthesis of 1,2,3-triazole derivatives of maleopimaric and dihydroquinopimaric acids. <i>Russian Journal of Organic Chemistry</i> , 2017, 53, 1701-1704.	0.3	3
68	Self-association processes of substituted alumolanes in non-polar solvents. <i>Journal of Organometallic Chemistry</i> , 2018, 867, 170-182.	0.8	3
69	Fischer Reaction in the Synthesis of New Triterpene Indoles of the Fusidane Series. <i>Russian Journal of Organic Chemistry</i> , 2022, 58, 25-37.	0.3	3
70	Triboluminescence of zirconium $\eta^5$ -complexes. <i>Russian Chemical Bulletin</i> , 2015, 64, 2776-2779.	0.4	1
71	Oxo-analogues of 20-hydroxyecdysone in the synthesis of novel fluorinated ecdysteroid derivatives. <i>Canadian Journal of Chemistry</i> , 2018, 96, 471-476.	0.6	1
72	Semi-Synthetic Ecdysteroids and Their Impact on Reproduction in the Domestic Fly <i>Musca domestica</i> Strains. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2018, 54, 434-441.	0.2	1

#	ARTICLE	IF	CITATIONS
73	Alkene and Olefin Functionalization by Organoaluminum Compounds, Catalyzed with Zirconocenes: Mechanisms and Prospects. , 2018, , .		1
74	Zirconocene dichlorides as catalysts in alkene carbo- and cyclometalation by AlEt <sub>3</sub> : intermediate structures and dynamics. Dalton Transactions, 2021, 50, 15802-15820.	1.6	1
75	Synthesis of conjugates of hyaluronic acid with amino acid bisphosphonates as antimicrobial organic coatings for PEO-modified titanium implants. AIP Conference Proceedings, 2022, , .	0.3	1
76	Synthesis of 4-Aminodihydroquinopimaric Acid Derivatives. Russian Journal of Organic Chemistry, 2021, 57, 1448-1454.	0.3	0
77	Diastereoselective synthesis of novel 20-hydroxyecdysone dioxolane derivatives. AIP Conference Proceedings, 2022, , .	0.3	0
78	Organic tribromides - Effective reagents for one-pot synthesis of pyridinium analogues of lupane triterpenoids. AIP Conference Proceedings, 2022, , .	0.3	0
79	Fischer reaction in the synthesis of indole derivatives of fusidic acid benzyl ester. AIP Conference Proceedings, 2022, , .	0.3	0
80	Three-component synthesis of aminophosphonates based on phenylenediamines. AIP Conference Proceedings, 2022, , .	0.3	0
81	Synthesis of 7-formyl methyl abietate via Vilsmeier-Haack reaction and cytotoxic activity of abietane diterpene derivatives. AIP Conference Proceedings, 2022, , .	0.3	0
82	Modification of 1-Hexene Vinylidene Dimer into Primary and Tertiary Alkanethiols. MolBank, 2022, 2022, M1379.	0.2	0
83	Synthesis of Dibenzylbutane and 9,8-Neo-Lignans via Cyclometalation of Allylbenzene by EtAlCl <sub>2</sub> and Mg in the Presence of Zr ansa-Complexes. , 0, , .		0