Irina Beletskaya

List of Publications by Citations

814 papers	22,586 citations	58 h-index	137 g-index
1,022 ext. papers	24,357 ext. citations	3.6 avg, IF	7.32 L-index

#	Paper	IF	Citations
814	The heck reaction as a sharpening stone of palladium catalysis. *Chemical Reviews*, **2000**, 100, 3009-66	68.1	3255
813	Transition-metal-catalyzed addition of heteroatom-hydrogen bonds to alkynes. *Chemical Reviews*, **2004**, 104, 3079-159	68.1	1402
812	Copper in cross-coupling reactions. *Coordination Chemistry Reviews*, **2004**, 248, 2337-2364	23.2	1334
811	Transition-metal-catalyzed C-S, C-Se, and C-Te bond formation via cross-coupling and atom-economic addition reactions. *Chemical Reviews*, **2011**, 111, 1596-636	68.1	1226
810	Metal-mediated reductive hydrodehalogenation of organic halides. *Chemical Reviews*, **2002**, 102, 4009-91	68.1	699
809	Supramolecular chemistry of metalloporphyrins. *Chemical Reviews*, **2009**, 109, 1659-713	68.1	569
808	Non-conventional methodologies for transition-metal catalysed carbon–carbon coupling: a critical overview. Part 2: The Suzuki reaction. *Tetrahedron*, **2008**, 64, 3047-3101	2.4	499
807	Hydroborations catalysed by transition metal complexes. *Tetrahedron*, **1997**, 53, 4957-5026	2.4	494
806	Element-element additions to unsaturated carbon-carbon bonds catalyzed by transition metal complexes. *Chemical Reviews*, **2006**, 106, 2320-54	68.1	459
805	Palladacycles in catalysis – a critical survey. *Journal of Organometallic Chemistry*, **2004**, 689, 4055-4082	2.3	449
804	Non-conventional methodologies for transition-metal catalysed carbon–carbon coupling: a critical overview. Part 1: The Heck reaction. *Tetrahedron*, **2005**, 61, 11771-11835	2.4	389
803	Elementminus signElement Addition to Alkynes Catalyzed by the Group 10 Metals. *Chemical Reviews*, **1999**, 99, 3435-3462	68.1	341
802	The Complementary Competitors: Palladium and Copper in C–N Cross-Coupling Reactions. *Organometallics*, **2012**, 31, 7753-7808	3.8	335
801	Toward the Ideal Catalyst: From Atomic Centers to a "Cocktail" of Catalysts. *Organometallics*, **2012**, 31, 1595-1604	3.8	209
800	Stereodivergent Catalysis. *Chemical Reviews*, **2018**, 118, 5080-5200	68.1	202
799	Unusual Influence of the Structures of Transition Metal Complexes on Catalytic C–S and C–Se Bond Formation Under Homogeneous and Heterogeneous Conditions. *European Journal of Organic Chemistry*, **2007**, 2007, 3431-3444	3.2	177
798	Some aspects of anionic .sigma.-complexes. *Chemical Reviews*, **1982**, 82, 427-459	68.1	163

797	The Suzuki-Miyaura reaction after the Nobel prize. *Coordination Chemistry Reviews*, **2019**, 385, 137-173	23.2	158
796	Homogeneous Nickel Catalysts for the Selective Transfer of a Single Arylthio Group in the Catalytic Hydrothiolation of Alkynes. *Organometallics*, **2006**, 25, 4462-4470	3.8	149
795	Novel versatile synthesis of substituted tetrabenzoporphyrins. *Journal of Organic Chemistry*, **2004**, 69, 522-35	4.2	140
794	Bimetallic lanthanide complexes with lanthanide-transition metal bonds. Molecular structure of (C4H8O)(C5H5)2LuRu(CO)2(C5H5). The use of 139La NMR spectroscopy. *Journal of the American Chemical Society*, **1993**, 115, 3156-3166	16.4	126
793	New approach for size- and shape-controlled preparation of Pd nanoparticles with organic ligands. Synthesis and application in catalysis. *Journal of the American Chemical Society*, **2007**, 129, 7252-3	16.4	123
792	Catalytic hydrophosphination of styrenes. *Organic Letters*, **2002**, 4, 761-3	6.2	122
791	NC-palladacycles as highly effective cheap precursors for the phosphine-free Heck reactions. *Journal of Organometallic Chemistry*, **2001**, 622, 89-96	2.3	113
790	Catalytic Methods for Building up Phosphorus-Carbon Bond. *Russian Journal of Organic Chemistry*, **2002**, 38, 1391-1430	0.7	112
789	Organoelement chemistry: promising growth areas and challenges. *Russian Chemical Reviews*, **2018**, 87, 393-507	6.8	111
788	Palladium-catalyzed stereocontrolled vinylation of azoles and phenothiazine. *Organic Letters*, **2002**, 4, 623-6	6.2	109
787	Metal-catalyzed regiodivergent organic reactions. *Chemical Society Reviews*, **2019**, 48, 4515-4618	58.5	102
786	Efficient and Convenient Synthesis of β-Vinyl Sulfides in Nickel-Catalyzed Regioselective Addition of Thiols to Terminal Alkynes under Solvent-Free Conditions. *Organometallics*, **2006**, 25, 1970-1977	3.8	101
785	Organocatalysis of asymmetric aldol reaction. Catalysts and reagents. *Russian Chemical Reviews*, **2009**, 78, 737-784	6.8	96
784	The nickel-catalyzed Sonogashira–Hagihara reaction. *Tetrahedron Letters*, **2003**, 44, 5011-5013	2	95
783	Catalytic Sandmeyer cyanation as a synthetic pathway to aryl nitriles. *Journal of Organometallic Chemistry*, **2004**, 689, 3810-3812	2.3	91
782	Mechanistic Investigation and New Catalyst Design in Palladium- and Platinum-Catalyzed Se–Se Bond Addition to Alkynes. *Organometallics*, **2003**, 22, 1414-1421	3.8	91
781	PEG as an alternative reaction medium in metal-mediated transformations. *Coordination Chemistry Reviews*, **2012**, 256, 2893-2920	23.2	86
780	Catalytic adaptive recognition of thiol (SH) and selenol (SeH) groups toward synthesis of functionalized vinyl monomers. *Journal of the American Chemical Society*, **2012**, 134, 6637-49	16.4	84

779	Palladium-catalyzed cross-coupling reaction of organostannoates with aryl halides in aqueous medium. *Tetrahedron Letters*, **1995**, 36, 125-128	2	82
778	New Catalytic System for S–H and Se–e Bond Addition to Alkynes Based on Phosphite Ligands. *Organometallics*, **2005**, 24, 1275-1283	3.8	79
777	Palladium-catalyzed reaction of aryl halides with ureas. *Tetrahedron Letters*, **2001**, 42, 4381-4384	2	79
776	Reactivity of Lanthanide and Yttrium Hydrides and Hydrocarbyls toward Organosilicon Hydrides and Related Compounds. *Organometallics*, **1997**, 16, 4041-4055	3.8	77
775	New approaches to the synthesis of unsymmetrical diaryl selenides. *Journal of Organometallic Chemistry*, **2000**, 605, 96-101	2.3	75
774	Diaminoanthraquinone-linked polyazamacrocycles: efficient and simple colorimetric sensor for lead ion in aqueous solution. *Organic Letters*, **2009**, 11, 987-90	6.2	74
773	Synthesis of Mono-, Di-, and Trisilyl-Substituted Alkenes via the Hydrosilylation of Methylenecyclopropanes Catalyzed by Rh(I) Complexes. *Journal of Organic Chemistry*, **1997**, 62, 6069-6076	4.2	74
772	Palladium Colloid Stabilized by Block Copolymer Micelles as an Efficient Catalyst for Reactions of C–C and C–Heteroatom Bond Formation. *Organometallics*, **2006**, 25, 154-158	3.8	73
771	Asymmetric hydrogenation of alpha,beta-unsaturated phosphonates with Rh-BisP* and Rh-MiniPHOS catalysts: scope and mechanism of the reaction. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 5385-90	11.5	72
770	Addition reactions of E-E and E-H bonds to triple bond of alkynes catalyzed by Pd, Pt, and Ni complexes (E=S, Se). *Pure and Applied Chemistry*, **2007**, 79, 1041-1056	2.1	69
769	Catalytic coupling of terminal acetylenes with iodoarenes and diaryliodonium salts in water. *Tetrahedron Letters*, **1996**, 37, 897-900	2	67
768	Remarkable ligand effect in Ni- and Pd-catalyzed bisthiolation and bisselenation of terminal alkynes: solving the problem of stereoselective dialkyldichalcogenide addition to the C triple chemical bond C Bond. *Chemistry - A European Journal*, **2008**, 14, 2420-34	4.8	66
767	Variation of xanthene-based bidentate ligands in the palladium-catalyzed arylation of ureas. *Tetrahedron Letters*, **2003**, 44, 4719-4723	2	66
766	Mechanistic study of palladium catalyzed S–H and Se–e bonds addition to alkynes. *Journal of Organometallic Chemistry*, **2003**, 687, 451-461	2.3	66
765	A practical synthetic approach to chiral -aryl substituted ethylphosphonates. *Tetrahedron: Asymmetry*, **2001**, 12, 319-327		65
764	Efficient and Recyclable Catalyst of Palladium Nanoparticles Stabilized by Polymer Micelles Soluble in Water for Suzuki-Miyaura Reaction, Ostwald Ripening Process with Palladium Nanoparticles. *Synlett*, **2008**, 2008, 1547-1552	2.2	63
763	Highly Efficient Nickel-Based Heterogeneous Catalytic System with Nanosized Structural Organization for Selective Se–H Bond Addition to Terminal and Internal Alkynes. *Organometallics*, **2007**, 26, 740-750	3.8	63
762	Modern Trends of Organic Chemistry in Russian Universities. *Russian Journal of Organic Chemistry*, **2018**, 54, 157-371	0.7	62

761	Acid-Free Nickel Catalyst for Stereo- and Regioselective Hydrophosphorylation of Alkynes: Synthetic Procedure and Combined Experimental and Theoretical Mechanistic Study. *Advanced Synthesis and Catalysis*, **2010**, 352, 2979-2992	5.6	62
760	Catalysis as an important tool of green chemistry. *Russian Chemical Reviews*, **2010**, 79, 441-461	6.8	59
759	Two distinct mechanisms of alkyne insertion into the metal-sulfur bond: combined experimental and theoretical study and application in catalysis. *Chemistry - A European Journal*, **2010**, 16, 2063-71	4.8	59
758	New Approach to Vinylphosphines Based on Pd- and Ni-Catalyzed Diphenylphosphine Addition to Alkynes. *Synlett*, **2001**, 2001, 0497-0500	2.2	59
757	Chiral Ionic Liquids Bearing O-Silylated □,□-Diphenyl (S)- or (R)-Prolinol Units: Recoverable Organocatalysts for Asymmetric Michael Addition of Nitroalkanes to □,#Enals. *European Journal of Organic Chemistry*, **2010**, 2010, 2927-2933	3.2	58
756	Celebrating 20 Years of SYNLETT - Special Essay: General Procedure for the Palladium-Catalyzed Selective Hydrophosphorylation of Alkynes. *Synlett*, **2009**, 2009, 2375-2381	2.2	56
755	Asymmetric Hydrogenation of □-Keto Phosphonates with Chiral Palladium Catalysts. *European Journal of Organic Chemistry*, **2009**, 2009, 510-515	3.2	56
754	Palladium and platinum catalyzed hydroselenation of alkynes: Se?H vs Se?Se addition to C?C bond. *Journal of Organometallic Chemistry*, **2003**, 679, 162-172	2.3	56
753	Palladium-catalyzed addition of disulfides and diselenides to alkynes under solvent free conditions. *Organic and Biomolecular Chemistry*, **2004**, 2, 284-7	3.9	54
752	Stereodefined Synthesis of a New Type of 1,3-Dienes by Ligand-Controlled Carbon□Carbon and Carbon□Heteroatom Bond Formation in Nickel-Catalyzed Reaction of Diaryldichalcogenides with Alkynes. *Organometallics*, **2008**, 27, 4056-4061	3.8	52
751	Highly enantioselective hydrogenation of □,#unsaturated phosphonates with iridium□phosphinooxazoline complex: synthesis of a phosphorus analogue of naproxen. *Tetrahedron: Asymmetry*, **2003**, 14, 1397-1401		52
750	Palladium-catalyzed synthesis of aryl-substituted polyamine compounds from aryl halides. *Tetrahedron Letters*, **1997**, 38, 2287-2290	2	51
749	Palladium-catalyzed arylation of sulfonyl CH-acids. *Tetrahedron Letters*, **2002**, 43, 2539-2542	2	51
748	Catalyst-Free Microwave-Assisted Synthesis of □-Aminophosphonates in a Three-Component System: R1C(O)R2-(EtO)2P(O)H-RNH2. *Synlett*, **2005**, 2005, 1393-1396	2.2	51
747	Formation of C□, C□ and C□ bonds catalysed by supported copper nanoparticles. *Catalysis Science and Technology*, **2017**, 7, 4401-4412	5.5	50
746	An expedient synthesis of substituted tetraaryltetrabenzoporphyrins. *Chemical Communications*, **2001**, 261-262	5.8	50
745	1-Octene Hydrosilylation Catalyzed by Lanthanide and Yttrium Hydrides and Hydrocarbyls: A Mechanistic Study and the Role of Catalyst Association. *Organometallics*, **2001**, 20, 2794-2801	3.8	50
744	Copper(I)-catalyzed arylselenylation of aryl bromides and iodides. *Tetrahedron Letters*, **2003**, 44, 7039-7041	2	49

743	Organocatalytic Michael and Friedel–Crafts reactions in enantioselective synthesis of biologically active compounds. *Russian Chemical Reviews*, **2011**, 80, 1067-1113	6.8	48
742	Recyclable nanostructured catalytic systems in modern environmentally friendly organic synthesis. *Molecules*, **2010**, 15, 4792-814	4.8	48
741	Palladium-Catalyzed Amination of 2-Iodo-para-carborane. *Organometallics*, **2007**, 26, 2340-2347	3.8	48
740	New approach to phosphinoalkynes based on Pd- and Ni-catalyzed cross-coupling of terminal alkynes with chlorophosphanes. *Organic Letters*, **2003**, 5, 4309-11	6.2	48
739	Palladium Complexes with Metallocene-Bridged Bidentate Diphosphine Ligands: Synthesis, Structure, and Catalytic Activity in Amination and Cross-Coupling Reactions. *Organometallics*, **2006**, 25, 2750-2760	3.8	47
738	The Palladium Slow-Release Pre-Catalysts and Nanoparticles in the Phosphine-Free Mizoroki–Heck and Suzuki–Miyaura Reactions. *Advanced Synthesis and Catalysis*, **2015**, 357, 417-429	5.6	46
737	Synthesis and biological evaluation of polymethoxylated 4-heteroarylcoumarins as tubulin assembly inhibitor. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 8806-12	3.4	46
736	Ni(acac)2/Phosphine as an Excellent Precursor of Nickel(0) for Catalytic Systems. *Organometallics*, **2010**, 29, 5098-5102	3.8	45
735	A Facile and Reliable Method for the Synthesis of Tetrabenzoporphyrin from 4,7-Dihydroisoindole. *European Journal of Organic Chemistry*, **2007**, 2007, 3468-3475	3.2	45
734	Regioselective arylation of N-tributylstannylated 5-substituted tetrazoles by diaryliodonium salts in the presence of Cu(OAc)2. *Tetrahedron Letters*, **2002**, 43, 6217-6219	2	45
733	The First Example of Polymer-Supported Palladium Catalyst for Stereoselective S-S Bond Addition to Terminal Alkynes. *Synlett*, **2005**, 2005, 1015-1017	2.2	45
732	Nickel- and palladium-catalyzed cross-coupling as a route to 1- and 2-alkoxy- or dialkylaminovinylphosphonates. *Tetrahedron Letters*, **1999**, 40, 569-572	2	45
731	Organic chemistry. History and mutual relations of universities of Russia. *Russian Journal of Organic Chemistry*, **2017**, 53, 1275-1437	0.7	44
730	Solvent-free synthesis of cyclic carbonates from CO2 and epoxides catalyzed by reusable alumina-supported zinc dichloride. *Applied Catalysis B: Environmental*, **2019**, 254, 380-390	21.8	42
729	Gold as a catalyst. Part I. Nucleophilic addition to the triple bond. *Russian Chemical Reviews*, **2017**, 86, 689-749	6.8	41
728	Coumarinyl(thienyl)thiazoles: novel photochromes with modulated fluorescence. *Organic Letters*, **2008**, 10, 1319-22	6.2	41
727	Palladium- and copper-catalyzed selective arylation of 5-aryltetrazoles by diaryliodonium salts. *Tetrahedron Letters*, **2002**, 43, 6221-6223	2	41
726	Pd- and Cu-catalyzed selective arylation of benzotriazole. *Tetrahedron Letters*, **1998**, 39, 5617-5620	2	40

725	New B-substituted derivatives of m-carborane, p-carborane, and cobalt bis(1,2-dicarbollide) anion. *Journal of Organometallic Chemistry*, **2004**, 689, 2920-2929	2.3	40
724	A Convenient Synthesis of Substituted Propargyl Alcohols and Terminal Acetylenes. *Synthesis*, **1984**, 1984, 728-729	2.9	40
723	Copper (II)-catalyzed regio- and stereoselective addition of H/P(O)R2 to alkynes. *Tetrahedron*, **2014**, 70, 2556-2562	2.4	39
722	Alkyne insertion into the M-P and M-H bonds (M=Pd, Ni, Pt, and Rh): a theoretical mechanistic study of the C-P and C-H bond-formation steps. *Chemistry - an Asian Journal*, **2011**, 6, 1423-30	4.5	39
721	Unprecedented Control of Selectivity in Nickel-Catalyzed Hydrophosphorylation of Alkynes: Efficient Route to Mono- and Bisphosphonates. *Advanced Synthesis and Catalysis*, **2014**, 356, 771-780	5.6	38
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719	Catalytic Amidation of 9-Iodo-m-carborane and 2-Iodo-p-carborane at a Boron Atom. *Organometallics*, **2008**, 27, 5937-5942	3.8	37
718	Colchicine Alkaloids and Synthetic Analogues: Current Progress and Perspectives. *Journal of Medicinal Chemistry*, **2020**, 63, 10618-10651	8.3	36
717	Palladium catalyzed C-C and C-heteroatom bond formation reactions. *Pure and Applied Chemistry*, **1997**, 69, 471-476	2.1	36
716	Preparation of metal "nanosalts" and their application in catalysis: heterogeneous and homogeneous pathways. *Dalton Transactions*, **2011**, 40, 4011-23	4.3	35
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714	Palladium supported on poly(N-vinylimidazole) or poly(N-vinylimidazole-co-N-vinylcaprolactam) as a new recyclable catalyst for the Mizoroki–Heck reaction. *Journal of Organometallic Chemistry*, **2007**, 692, 4402-4406	2.3	35
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711	Nucleophilic substitution at the halogen atom (halogenophilic reactions). *Russian Chemical Reviews*, **2012**, 81, 317-335	6.8	33
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706	Chemodivergent reactions. *Chemical Society Reviews*, **2020**, 49, 7101-7166	58.5	33
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702	Catalyst Leaching as an Efficient Tool for Constructing New Catalytic Reactions: Application to the Synthesis of Cyclic Vinyl Sulfides and Vinyl Selenides. *European Journal of Inorganic Chemistry*, **2009**, 2009, 1149-1161	2.3	31
701	Palladium-catalyzed activation of E-E and C-E bonds in diaryl dichalcogenides (E = S, Se) under microwave irradiation conditions. *Russian Chemical Bulletin*, **2005**, 54, 576-587	1.7	31
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699	Palladium catalyzed carbonylation of iodoarenes in aqueous solubilized systems. *Journal of Organometallic Chemistry*, **1995**, 486, 297-300	2.3	31
698	Synthesis and X-ray crystal structures of rac- and meso-2,2?-propylidene-bis(1-indenyl) zirconium dichlorides. *Journal of Organometallic Chemistry*, **1997**, 530, 75-82	2.3	29
697	Synthesis of a New Family of Adamantylpyridin-2-amines by Palladium-Catalyzed□Amination. *Synthesis*, **2007**, 2007, 2215-2221	2.9	29
696	Catalytic hydrofunctionalization of alkynes through P-H bond addition: the unique role of orientation and properties of the phosphorus group in the insertion step. *Chemistry - A European Journal*, **2011**, 17, 12623-30	4.8	28
695	Synthesis of nitrogen- and oxygen-containing macrocycles--derivatives of lithocholic Acid. *Chemistry - A European Journal*, **2005**, 11, 7030-9	4.8	28
694	Oxidation of Alkyl Derivatives of Aromatic Hydrocarbons by Transition Metal Salts. *Russian Chemical Reviews*, **1981**, 50, 534-552	6.8	28
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692	Palladium-catalyzed P-arylation of hydrophosphoryl derivatives of protected monosaccharides. *Russian Journal of Organic Chemistry*, **2006**, 42, 1780-1785	0.7	27
691	Transition-metal-catalyzed reactions of carbon-heteroatom bond formation by substitution and addition processes. *Pure and Applied Chemistry*, **2005**, 77, 2021-2027	2.1	27
690	Palladium-Catalyzed Asymmetric Hydrogenation of N-Hydroxy-□-imino Phosphonates Using Br□sted Acid as Activator: The First Catalytic Enantioselective Approach to Chiral N-Hydroxy-□-amino Phosphonates. *Advanced Synthesis and Catalysis*, **2012**, 354, 2727-2733	5.6	26

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688	Catalytic thiocyanation of aryldiazonium salts in the presence of copper salts. *Mendeleev Communications*, **2006**, 16, 250-251	1.9	26
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686	Hydrophosphorylation of Terminal Alkynes Catalyzed by Palladium. *Russian Journal of Organic Chemistry*, **2003**, 39, 797-807	0.7	26
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676	The successive substitution of halogens in 4-chloro-6-iodoquinoline by aryl groups in cross-coupling reactions with arylboronic acids. *Tetrahedron Letters*, **2002**, 43, 7267-7270	2	24
675	Palladium-catalyzed arylation of linear and cyclic polyamines. *Pure and Applied Chemistry*, **2004**, 76, 1605-1619	2.1	24
674	Copper(0) Nanoparticles Supported on Al2O3 as Catalyst for Carboxylation of Terminal Alkynes. *Catalysis Letters*, **2017**, 147, 2570-2580	2.8	23
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672	The comparison of addition of molecules possessing P(V)-H bond to alkynes catalyzed with Pd and Ni complexes. *Russian Journal of Organic Chemistry*, **2010**, 46, 1269-1276	0.7	23

671	Catalytic synthesis and transformations of organophosphorus compounds. *Mendeleev Communications*, **2008**, 18, 113-120	1.9	23
670	Palladium-Catalyzed Amination in the Synthesis of Polyazamacrocycles Containing a 1,3-Disubstituted Benzene Moiety. *Synthesis*, **2007**, 2007, 2995-3012	2.9	23
669	Conjugated G0 metallo-dendrimers, functionalized with tridentate [pincer]-type ligands. *Tetrahedron Letters*, **2000**, 41, 1081-1085	2	23
668	Halo-Substituted Aminobenzenes Prepared by Pd-Catalyzed Amination. *Synlett*, **1999**, 1999, 1459-1461	2.2	23
667	Unusual Control of Reaction Selectivity through a Subtle Change in the Ligand: Proof of Concept and Application in Pd-Catalyzed C–P Bond Formation. *European Journal of Organic Chemistry*, **2012**, 2012, 3830-3840	3.2	22
666	NMR approach for the identification of dinuclear and mononuclear complexes: The first detection of [Pd(SPh)2(PPh3)2] and [Pd2(SPh)4(PPh3)2] – The intermediate complexes in the catalytic carbon–sulfur bond formation reaction. *Journal of Organometallic Chemistry*, **2011**, 696, 400-405	2.3	22
665	Zirconium Complexes Involving 2-Phosphorus-Substituted Indenyl Fragments. *Organometallics*, **2005**, 24, 3024-3035	3.8	22
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