

Ireneusz Kownacki

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5003115/publications.pdf>

Version: 2024-02-01

63
papers

1,161
citations

361413

20
h-index

454955

30
g-index

69
all docs

69
docs citations

69
times ranked

963
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, structure and catalytic activity of the first iridium(I) siloxide versus chloride complexes with 1,3-mesitylimidazolin-2-ylidene ligand. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 321-328.	1.8	72
2	Catalysis of hydrosilylation. <i>Journal of Organometallic Chemistry</i> , 2000, 597, 175-181.	1.8	51
3	Hydroformylation and related reactions of vinylsilanes catalyzed by siloxide complexes of rhodium(I) and iridium(I). <i>Journal of Molecular Catalysis A</i> , 2005, 237, 246-253.	4.8	50
4	Synthesis, Structure, and Reactivity of $[\text{Ir}(\text{cod})(\text{O}^i\text{SiMe}_3)_2]$ with Styrene and Vinylsilanes: σ -Catalytic Activation of the Vinyl C-H Bond. <i>Organometallics</i> , 2002, 21, 3263-3270.	2.3	47
5	Synthesis of Functionalized Vinylgermanes through a New Ruthenium-Catalyzed Coupling Reaction. <i>Chemistry - A European Journal</i> , 2006, 12, 244-250.	3.3	44
6	A New Catalytic Route for the Activation of sp^2 -Hybridized Carbon-Hydrogen Bonds. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 8180-8184.	13.8	40
7	Synthesis, Characterization, and Catalytic Activity of a Well-Defined Rhodium Siloxide Complex Immobilized on Silica. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 541-544.	13.8	38
8	Silylcarbonylation of Vinylsilanes Catalyzed by Iridium(I) Siloxide Complexes. <i>Organometallics</i> , 2005, 24, 6179-6183.	2.3	37
9	Pt-Catalyzed Hydrosilylation of 1,3-Diynes with Triorganosilanes: Regio- and Stereoselective Synthesis of Mono- or Bis-silylated Adducts. <i>Journal of Organic Chemistry</i> , 2019, 84, 2358-2365.	3.2	36
10	Catalytic activity of iridium siloxide complexes in cross-linking of silicones by hydrosilylation. <i>Applied Catalysis A: General</i> , 2007, 317, 53-57.	4.3	32
11	Hydrosilylation cross-linking of silicon fluids by a novel class of iron(0) catalysts. <i>Applied Catalysis A: General</i> , 2014, 486, 230-238.	4.3	32
12	Effect of triorganophosphites on platinum catalyzed curing of silicon rubber. <i>Applied Catalysis A: General</i> , 2009, 362, 106-114.	4.3	31
13	Hydrosilylation vs. dehydrogenative silylation of styrene catalysed by iron(0) carbonyl complexes with multivinylsilicon ligands σ -Mechanistic implications. <i>Journal of Organometallic Chemistry</i> , 2015, 791, 58-65.	1.8	30
14	Silylative Coupling of Terminal Alkynes with Iodosilanes: New Catalytic Activation of sp^2 -Hybridized Carbon-Hydrogen Bonds. <i>Organometallics</i> , 2011, 30, 2539-2545.	2.3	27
15	Catalysis of hydrosilylation by well-defined rhodium siloxide complexes immobilized on silica. <i>Journal of Molecular Catalysis A</i> , 2009, 310, 9-16.	4.8	26
16	Synthesis of phenylene-silylene-ethylene polymers via transition metal complex catalyzed hydrosilylation polymerization. <i>Applied Organometallic Chemistry</i> , 2005, 19, 49-54.	3.5	25
17	Application of HS-SPME in the determination of potentially toxic organic compounds emitted from resin-based dental materials. <i>Journal of Environmental Monitoring</i> , 2006, 8, 377.	2.1	23
18	Photochemically induced insertion of an olefin into the Co-Si bond; the key step for silylative coupling with vinylsubstituted organosilicon compounds. <i>Inorganic Chemistry Communication</i> , 1999, 2, 581-583.	3.9	22

#	ARTICLE	IF	CITATIONS
19	Catalysis of Hydrosilylation by Well-Defined Surface Rhodium Siloxide Phosphine Complexes. <i>ChemCatChem</i> , 2009, 1, 304-310.	3.7	22
20	Tris(triorganosilyl)phosphites—New ligands controlling catalytic activity of Pt(0) complex in curing of silicone rubber. <i>Applied Catalysis A: General</i> , 2010, 380, 105-112.	4.3	22
21	An efficient catalytic and solvent-free method for the synthesis of mono-organofunctionalized 1,1,3,3-tetramethyldisiloxane derivatives. <i>Journal of Organometallic Chemistry</i> , 2017, 846, 263-268.	1.8	22
22	Synthesis of new styrylarenes via Suzuki–Miyaura coupling catalysed by highly active, well-defined palladium catalysts. <i>Dalton Transactions</i> , 2013, 42, 15535.	3.3	21
23	Dehydrogenative coupling of styrene with trisubstituted silanes catalyzed by nickel complexes1Part XXXII in the series 'Catalysis of Hydrosilylation', for Part XXXI see Ref. [1].1. <i>Journal of Molecular Catalysis A</i> , 1998, 135, 223-231.	4.8	20
24	Synthesis and structure of the first monomeric iridium–siloxide complexes. <i>Inorganica Chimica Acta</i> , 2002, 334, 301-307.	2.4	19
25	New Bis(dialkynyl)disiloxane triplatinum(0) Cluster: Synthesis, Structure, and Catalytic Activity in Olefin–Hydrosilylation Reactions. <i>ChemCatChem</i> , 2012, 4, 1935-1937.	3.7	19
26	An Efficient Catalytic Route for the Synthesis of Silane Coupling Agents Based on the 1,1,3,3-tetramethyldisiloxane Core. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 851-856.	2.0	19
27	Highly efficient microwave synthesis of rhodanine and 2-thiohydantoin derivatives and determination of relationships between their chemical structures and antibacterial activity. <i>RSC Advances</i> , 2019, 9, 39367-39380.	3.6	19
28	Synthesis and structure of the first cobalt(I)–siloxide complex. <i>Polyhedron</i> , 2001, 20, 3015-3018.	2.2	18
29	Vinyl- and Arylsilicon, germanium, and boron Compounds. , 2005, , 941-1023.		17
30	A new and efficient route for the synthesis of alkynyl functionalized silicon derivatives. <i>Tetrahedron Letters</i> , 2014, 55, 548-550.	1.4	16
31	Transition metal-catalyzed hydrosilylation of polybutadiene – The effect of substituents at silicon on efficiency of silylfunctionalization process. <i>Journal of Catalysis</i> , 2019, 371, 27-34.	6.2	16
32	Synthesis and Properties of Epoxy Resin Modified with Novel Reactive Liquid Rubber-Based Systems. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 2178-2186.	3.7	16
33	Silsesquioxyl rhodium(i) complexes - synthesis, structure and catalytic activity. <i>Dalton Transactions</i> , 2011, 40, 5073.	3.3	15
34	2-Thiohydantoin Moiety as a Novel Acceptor/Anchoring Group of Photosensitizers for Dye-Sensitized Solar Cells. <i>Materials</i> , 2020, 13, 2065.	2.9	15
35	Synthesis of bifunctional disiloxanes via subsequent hydrosilylation of alkenes and alkynes. <i>Chemical Communications</i> , 2021, 57, 4504-4507.	4.1	15
36	Microwave-assisted one-pot synthesis of new ionic iridium complexes of [Ir(bzq) ₂ (N ^N)] ⁺ A ⁺ type and their selected electroluminescent properties. <i>Dalton Transactions</i> , 2017, 46, 9210-9226.	3.3	14

#	ARTICLE	IF	CITATIONS
37	An efficient method for synthesizing monofunctionalized derivatives of 1,1,3,3-tetramethyldisiloxane in ionic liquids as recoverable solvents for rhodium catalyst. <i>Catalysis Communications</i> , 2018, 108, 59-63.	3.3	13
38	Iridium-Promoted Conversion of Chlorosilanes to Alkynyl Derivatives in a One-Pot Reaction Sequence. <i>Organometallics</i> , 2014, 33, 3051-3059.	2.3	12
39	Microwave-Accelerated C,N-Cyclometalation as a Route to Chloro-Bridged Iridium(III) Binuclear Precursors of Phosphorescent Materials: Optimization, Synthesis, and Studies of the Iridium(III) Dimer Behavior in Coordinating Solvents. <i>Inorganic Chemistry</i> , 2020, 59, 9163-9176.	4.0	12
40	Synthesis and structure of well-defined tricarbonyl iron(0) complexes with multivinylsilicon ligands. <i>Journal of Organometallic Chemistry</i> , 2014, 750, 132-139.	1.8	11
41	Iridium complex catalyzed germylative coupling reaction between alkynes and iodogermanes – a new route to alkynylgermanium and alkynylgermasilicon compounds. <i>Dalton Transactions</i> , 2014, 43, 16795-16799.	3.3	10
42	Alkoxy/siloxy group exchange in the system vinyltrialkoxysilane–iridium(i) siloxide complex. <i>Chemical Communications</i> , 2003, , 76-77.	4.1	9
43	Synthesis of 5-Substituted Benzo[<i>h</i>]quinoline Derivatives via Reactions Involving C(sp ²)–Br Bond Activation. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3331-3344.	4.3	8
44	Effect of fluorine substitution of the η^2 -ketoiminate ancillary ligand on photophysical properties and electroluminescence ability of new iridium(III) complexes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8688-8708.	5.5	8
45	Effect of η^2 -Ketoiminato Ancillary Ligand Modification on Emissive Properties of New Iridium Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 15671-15686.	4.0	8
46	A Simple Catalytic Route for Alkynylgermanes. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 339-346.	2.0	7
47	Quantum-chemical studies of homoleptic iridium(III) complexes in OLEDs: fac versus mer isomers. <i>Journal of Molecular Modeling</i> , 2019, 25, 154.	1.8	7
48	Iridium-catalysed desilylative acylation of 1-alkenylsilanes. <i>Journal of Molecular Catalysis A</i> , 2017, 426, 75-78.	4.8	6
49	Synthesis and properties of hybrid materials obtained via additive cross-linking of liquid polybutadiene rubber with H-Si containing reagents. <i>Polymer Testing</i> , 2020, 87, 106516.	4.8	6
50	Late transition metal (Co, Rh, Ir)-siloxide complexes- synthesis, structure and application to catalysis. <i>Special Publication - Royal Society of Chemistry</i> , 2007, , 253-264.	0.0	6
51	Simple catalytic approach to highly regioselective synthesis of monofunctionalized disiloxanes decorated with metalloids. <i>Journal of Catalysis</i> , 2020, 390, 103-108.	6.2	5
52	The effect of organosilicon modifier structure on the efficiency of the polybutadiene hydrosilylation process. <i>Catalysis Science and Technology</i> , 2020, 10, 7240-7248.	4.1	5
53	Assessment of Concentration of Mineral Oil in Synthetic Ester Based on the Density of the Mixture and the Capacitance of the Capacitor Immersed in It. <i>Energies</i> , 2021, 14, 1839.	3.1	4
54	An efficient methodology for the synthesis of unique functional polyolefins. <i>Materials and Design</i> , 2021, 206, 109801.	7.0	4

#	ARTICLE	IF	CITATIONS
55	Silylcarbonylation of styrenes catalyzed by iridium(I) siloxide complexes. <i>Applied Catalysis A: General</i> , 2010, 390, 94-101.	4.3	3
56	New protocol for one-pot synthesis of functionalized symmetrical 1,4-dialkyl- or 1,4-diaryl-1,3-diyne. <i>Journal of Organometallic Chemistry</i> , 2015, 775, 20-26.	1.8	3
57	Pt(0)-Catalysed synthesis of new bifunctional silanes. <i>Dalton Transactions</i> , 2020, 49, 7697-7700.	3.3	3
58	Well-Defined Surface Rhodium Siloxide Complexes and Their Application to Catalysis. , 0, , 293-312.		3
59	Synthesis and crystal structures of binuclear iridium and rhodium complexes with symmetrical and unsymmetrical bulky siloxide bridges. <i>Polyhedron</i> , 2013, 53, 26-31.	2.2	2
60	A substituent-induced post-assembly modification cascade of a metallosupramolecular imine-type Co-complex. <i>Dalton Transactions</i> , 2020, 49, 12793-12797.	3.3	2
61	Transformations of (Organo)silicon Compounds Catalyzed by Iridium Complexes. , 0, , 345-367.		1
62	A library of new bifunctional alkenes obtained by a highly regiodivergent silylation of 1,5-hexadiene. <i>RSC Advances</i> , 2021, 11, 38956-38960.	3.6	1
63	Polycarbosilanes as Precursors of Novel Membrane Materials. , 0, , 641-644.		0