Hieronim Maciejewski

List of Publications by Year
in descending order

124	2,502	236612	288905
papers	citations	25 h-index	40 g-index

129	129	129	2312
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silylenenickel(0) or Silyl(silylene)platinum(II) Complexes by Reaction of Si[(NCH2But)2C6H4-1,2] with [NiCl2(PPh3)2], [Ni(cod)2], or [PtCl2(PPh3)2]. Organometallics, 1998, 17, 5599-5601.	1.1	135
2	Transition metal-siloxide complexes; synthesis, structure and application to catalysis. Coordination Chemistry Reviews, 2001, 223, 301-335.	9.5	105
3	Synthesis and characterisation of bis(amino)silyleneâ€“nickel(0), â€“palladium(II), â€“platinum(0), â€“platinum(II) and copper(I) complexes. Journal of Organometallic Chemistry, 2003, 686, 321-331.	0.8	100
4	New, Effective Method of Synthesis and Structural Characterization of Octakis(3-chloropropyl)octasilsesquioxane. Organometallics, 2008, 27, 793-794.	1.1	74
5	Fabrication of superhydrophobic cotton fabrics by a simple chemical modification. Cellulose, 2016, 23, 2185-2197.	2.4	74
6	Chitin-Lignin Material as a Novel Matrix for Enzyme Immobilization. Marine Drugs, 2015, 13, 2424-2446.	2.2	70
7	Multifunctional, strongly hydrophobic and flame-retarded cotton fabrics modified with flame retardant agents and silicon compounds. Polymer Degradation and Stability, 2016, 128, 55-64.	2.7	57
8	Epoxy resins modified with reactive low molecular weight siloxanes. European Polymer Journal, 2012, 48, 769-773.	2.6	54
9	Metathesis of silicon containing olefins. Journal of Organometallic Chemistry, 1989, 362, 273-279.	0.8	52
10	Catalysis of hydrosilylation. Journal of Organometallic Chemistry, 2000, 597, 175-181.	0.8	51
11	Silicone waxesâ€”synthesis via hydrosilylation in homo- and heterogeneous systems. Journal of Molecular Catalysis A, 2006, 257, 141-148.	4.8	43
12	Heterogeneous Catalysis with the Participation of Ionic Liquids. Catalysts, 2020, 10, 1227.	1.6	43
13	Hydrosilylation of functionalised olefins catalysed by rhodium siloxide complexes in ionic liquids. Green Chemistry, 2009, 11, 1045.	4.6	42
14	New Fluorocarbofunctional Spherosilicates: Synthesis and Characterization. Organometallics, 2011, 30, 2149-2153.	1.1	39
15	Highly Effective Supported Ionic Liquid-Phase (SILP) Catalysts: Characterization and Application to the Hydrosilylation Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 4699-4706.	3.2	39
16	Synthesis and flame retardant efficacy of hexakis(3-(triethoxysilyl)propyloxy)cyclotriphosphazene/silica coatings for cotton fabrics. Polymer Degradation and Stability, 2018, 148, 10-18.	2.7	38
17	Solvothermal synthesis of hydrophobic chitinâ€“polyhedral oligomeric silsesquioxane (POSS) nanocomposites. International Journal of Biological Macromolecules, 2015, 78, 224-229.	3.6	37
18	Inorganometallics (Transition Metalâ€“Metalloid Complexes) and Catalysis. Chemical Reviews, 2022, 122, 3996-4090.	23.0	36

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19	Hydrophobic Materials Based on Fluorocarbofunctional Spherosilicates. Silicon, 2015, 7, 201-209.	1.8	33
20	Preparation of highly hydrophobic cotton fabrics by modification with bifunctional silsesquioxanes in the sol-gel process. Applied Surface Science, 2016, 387, 163-174.	3.1	33
21	Catalysis of hydrosilylation: Part XXXI. Functionalization of poly(methylhydro)siloxanes via hydrosilylation of allyl derivatives. Applied Organometallic Chemistry, 1997, 11, 843-849.	1.7	30
22	Application of click chemistry to the production of DNA microarrays. Lab on A Chip, 2012, 12, 1151.	3.1	29
23	Organosilicons of different molecular size and chemical structure as consolidants for waterlogged archaeological wood â€“ a new reversible and retreatable method. Scientific Reports, 2020, 10, 2188.	1.6	29
24	Ionic Liquids as Solvents for Rhodium and Platinum Catalysts Used in Hydrosilylation Reaction. Molecules, 2016, 21, 1115.	1.7	27
25	Metathesis of vinylsubstituted silanes in the presence of ruthenium complexes. Journal of Molecular Catalysis, 1994, 90, 213-224.	1.2	26
26	Kinetics and mechanism of the reaction of allyl chloride with trichlorosilane catalyzed by carbon-supported platinum. Applied Organometallic Chemistry, 2003, 17, 127-134.	1.7	26
27	Catalysis of hydrosilylation. Journal of Organometallic Chemistry, 1991, 418, 61-67.	0.8	25
28	Synthesis of phenyleneâ€“silyleneâ€“ethylene polymers via transition metal complex catalyzed hydrosilylation polymerization. Applied Organometallic Chemistry, 2005, 19, 49-54.	1.7	25
29	Modification of (Poly)Siloxanes via Hydrosilylation Catalyzed by Rhodium Complex in Ionic Liquids. Monatshefte FÃ¼r Chemie, 2006, 137, 605-611.	0.9	24
30	Characterization of Langmuir monolayer, Langmuirâ€“Blodgett and Langmuirâ€“Schaefer films formed by POSS compounds. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 464, 110-120.	2.3	24
31	Multifunctional durable properties of textile materials modified by biocidal agents in the sol-gel process. Surface and Coatings Technology, 2016, 304, 160-166.	2.2	24
32	Catalysis of hydrosilylation. Journal of Organometallic Chemistry, 1993, 454, 45-50.	0.8	23
33	Synthesis of an Openâ€Cage Structure POSS Containing Various Functional Groups and Their Effect on the Formation and Properties of Langmuir Monolayers. Chemistry - A European Journal, 2016, 22, 13275-13286.	1.7	23
34	Catalysis of Hydrosilylation by Wellâ€Defined Surface Rhodium Siloxide Phosphine Complexes. ChemCatChem, 2009, 1, 304-310.	1.8	22
35	Diallyldimethylammonium and trimethylvinylammonium ionic liquidsâ€”Synthesis and application to catalysis. Applied Catalysis A: General, 2013, 451, 168-175.	2.2	22
36	Synthesis and properties of high-solids hybrid materials obtained from epoxy functional urethanes and siloxanes. Progress in Organic Coatings, 2015, 84, 59-69.	1.9	22

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37	An efficient catalytic and solvent-free method for the synthesis of mono-organofunctionalized 1,1,3,3-tetramethyldisiloxane derivatives. Journal of Organometallic Chemistry, 2017, 846, 263-268.	0.8	22
38	New approach to synthesis of functionalised silsesquioxanes via hydrosilylation. Catalysis Communications, 2012, 24, 1-4.	1.6	21
39	Thermal degradation kinetics of semi-interpenetrating polymer network based on polyurethane and siloxane. Thermochimica Acta, 2013, 560, 55-62.	1.2	21
40	Fluoroalkylsilane versus Alkylsilane as Hydrophobic Agents for Silica and Silicates. Journal of Nanomaterials, 2013, 2013, 1-13.	1.5	21
41	Interfacial Properties of Fully Condensed Functional Silsesquioxane: A Langmuir Monolayer Study. Journal of Physical Chemistry C, 2014, 118, 24548-24555.	1.5	21
42	Development of multifunctional cotton fabrics using difunctional polysiloxanes. Cellulose, 2018, 25, 1483-1497.	2.4	21
43	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. Journal of Molecular Catalysis A, 1998, 135, 223-231.	4.8	20
44	Pyrylium sulfonate based ionic liquids. Tetrahedron Letters, 2011, 52, 4342-4345.	0.7	20
45	Catalysis of hydrosilylation Part XXV. Effect of nickel(O) and nickel(II) complex catalysts on dehydrogenative silylation, hydrosilylation and dimerization of vinyltriethoxysilane. Journal of Organometallic Chemistry, 1994, 484, 147-151.	0.8	19
46	A quantitative approach to dynamic and isothermal curing of an epoxy resin modified with oligomeric siloxanes. Journal of Thermal Analysis and Calorimetry, 2015, 122, 215-226.	2.0	19
47	An Efficient Catalytic Route for the Synthesis of Silane Coupling Agents Based on the 1,1,3,3â€Tetramethyldisiloxane Core. European Journal of Inorganic Chemistry, 2017, 2017, 851-856.	1.0	19
48	An Effective Catalytic Hydroboration of Alkynes in Supercritical CO₂ under Repetitive Batch Mode. ChemCatChem, 2018, 10, 531-539.	1.8	19
49	Recyclable Hydroboration of Alkynes Using RuH@IL and RuH@IL/scCO₂ Catalytic Systems. ACS Sustainable Chemistry and Engineering, 2018, 6, 10980-10988.	3.2	19
50	Intermediates in nickel(0)â€“phosphine complex catalyzed dehydrogenative silylation of olefins. Inorganica Chimica Acta, 2006, 359, 2989-2997.	1.2	18
51	Hydrosilylation of n-alkenes and allyl chloride over platinum supported on styreneâ€“divinylbenzene copolymer. Catalysis Today, 2011, 169, 69-74.	2.2	18
52	Synthesis and properties of polysiloxanes containing mixed functional groups. Reactive and Functional Polymers, 2014, 83, 144-154.	2.0	18
53	Functionalization of Polyhedral Oligomeric Silsesquioxane (POSS) via Nucleophilic Substitution. Synthesis, 2009, 2009, 2019-2024.	1.2	17
54	Thermal stability of hybrid materials based on epoxy functional (poly)siloxanes. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1415-1424.	2.0	17

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55	Functionalization of spherosilicates via hydrosilylation catalyzed by well-defined rhodium siloxide complexes immobilized on silica. Journal of Molecular Catalysis A, 2014, 391, 150-157.	4.8	17
56	Thermal degradation studies of poly(urethaneâ€“siloxane) thermosets based on co-poly(dimethyl)(methyl, hydroxypolyoxyethylenepropyl) siloxane. Thermochimica Acta, 2014, 589, 252-261.	1.2	16
57	Transition metal-catalyzed hydrosilylation of polybutadiene â€“ The effect of substituents at silicon on efficiency of silylfunctionalization process. Journal of Catalysis, 2019, 371, 27-34.	3.1	16
58	Durable, highly hydrophobic modification of cotton fabric with fluorine-free polysiloxanes obtained via hydrosilylation and hydrothiolation reactions. Cellulose, 2020, 27, 8351-8367.	2.4	16
59	Ionic Liquids in Catalysis. Catalysts, 2021, 11, 367.	1.6	16
60	Catalytic reactions of hydrosiloxanes with allyl chloride. Journal of Organometallic Chemistry, 2005, 690, 4478-4487.	0.8	15
61	Platinum and rhodium complexes ligated by imidazolium-substituted phosphine as efficient and recyclable catalysts for hydrosilylation. RSC Advances, 2019, 9, 29396-29404.	1.7	14
62	Alkyl- and fluoroalkyltrialkoxysilanes for wettability modification. Applied Surface Science, 2013, 283, 453-459.	3.1	13
63	Candida antarctica Lipase B Immobilized onto Chitin Conjugated with POSSÂ® Compounds: Useful Tool for Rapeseed Oil Conversion. International Journal of Molecular Sciences, 2016, 17, 1581.	1.8	13
64	Synthesis and characterization of new (dimethylsilyl)phenoxy and (dimethyl(vinyl)silyl)phenoxy substituted cyclotriphosphazenes. Journal of Organometallic Chemistry, 2017, 853, 64-67.	0.8	13
65	A convenient route to vinylsiloxane-tertiary phosphine-nickel(0) complexes; the molecular structure of [(Ni{P(C6H4Me-4)3})2{Î¼-(Lâ€²â€²Lâ€²â€²)2}] {(Lâ€²â€²Lâ€²â€²)2=[CH2ĩ…CH(Me)Si(Î¼-O)]4}. Journal of Organometallic Chemistry, 2000, 605, 221-225.	0.8	12
66	Immobilization of biomolecules via ruthenium-catalyzed functionalization of the surface of silica with a vinylsilane. Tetrahedron Letters, 2013, 54, 3605-3608.	0.7	12
67	Synthesis, Characterization, and Thermal Properties of Organicâ€“Inorganic Hybrids Based on Gelatin and Organomodified Silicones. Advances in Polymer Technology, 2014, 33, .	0.8	11
68	Interaction of polyhedral oligomeric silsesquioxane containing epoxycyclohexyl groups with cholesterol at the air/water interface. Colloids and Surfaces B: Biointerfaces, 2016, 140, 135-141.	2.5	11
69	Highly efficient hydrosilylation catalysts based on chloroplatinate â€œionic liquidsâ€• Journal of Catalysis, 2019, 374, 266-275.	3.1	11
70	Silane-modified surfaces in specific antibody-mediated cell recognition. Folia Histochemica Et Cytobiologica, 2014, 52, 250-255.	0.6	11
71	Competitive dehydrogenative silylation and hydrogenative dimerization of vinyltriethoxysilane catalyzed by the [Ni(acac)2] + PPh3 system, intermediate and mechanistic implications. Journal of Organometallic Chemistry, 1996, 521, 245-251.	0.8	10
72	The synthesis and characterisation of some nickel(0) complexes with Ï€-bounded vinylsilicon ligands; the molecular structure of [Ni{P(C6H5)3}2{Î·2-CH2CHSi(CH3)3}]. Journal of Organometallic Chemistry, 2004, 689, 3075-3081.	0.8	10

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73	New type of repeated Siâ€“C-podand catalysts for solidâ€“liquid phase transfer reactions. Catalysis Communications, 2008, 9, 821-825.	1.6	10
74	A new method for the synthesis of mixed orthoesters from O-allyl acetals. Tetrahedron Letters, 2009, 50, 1193-1195.	0.7	10
75	Hydrosilylation of Carbonâ€“Carbon Multiple Bondsâ€”Application in Synthesis and Materials Science. , 2017, , 169-217.		10
76	The effect of the morpholinium ionic liquid anion on the catalytic activity of Rh (or Pt) complexâ€“ionic liquid systems in hydrosilylation processes. RSC Advances, 2018, 8, 26922-26927.	1.7	10
77	Wood protective coatings based on fluorocarbosilane. Cellulose, 2019, 26, 9853-9861.	2.4	10
78	Corrosion-protective coatings based on fluorocarbosilane. Progress in Organic Coatings, 2018, 123, 374-383.	1.9	9
79	A library of multisubstituted cyclotriphosphazenes â€“ molecular scaffolds for hybrid materials. New Journal of Chemistry, 2018, 42, 15552-15555.	1.4	9
80	Piperidinium and Pyrrolidinium Ionic Liquids as Precursors in the Synthesis of New Platinum Catalysts for Hydrosilylation. Catalysts, 2020, 10, 919.	1.6	9
81	Highly Efficient and Reusable Alkyne Hydrosilylation Catalysts Based on Rhodium Complexes Ligated by Imidazolium-Substituted Phosphine. Catalysts, 2020, 10, 608.	1.6	9
82	Multifunctional Cotton Fabrics Obtained by Modification with Silanes Containing Esters of Phosphoric Acid as Substituents. Materials, 2021, 14, 1542.	1.3	9
83	Synergistic Effect of Modified Natural Fibres with Halogen-Free Fire Retardants in Reducing Flammability of Composites. Journal of Biobased Materials and Bioenergy, 2015, 9, 115-127.	0.1	9
84	Effective synthesis of fluorofunctional (poly)siloxanes. Polimery, 2012, 57, 449-455.	0.4	9
85	Phosphine nickel(0) Ï€-complexes with vinylcyclosilazaneâ€”synthesis and structure. Polyhedron, 2002, 21, 1261-1265.	1.0	8
86	Synthesis and structure of the dinuclear chloro-rhodium Ï€-complexes with vinylsilanes. Inorganica Chimica Acta, 2003, 350, 603-608.	1.2	8
87	Anisotropic Epoxy Networks. Macromolecular Symposia, 2010, 291-292, 127-136.	0.4	8
88	Synthesis of Azido-, Hydroxy- and Nitro-, Hydroxy-Functionalized Spherosilicates via Oxirane Ring-Opening Reactions. Synthesis, 2012, 44, 881-884.	1.2	8
89	Efficient synthesis of E-1,2-bis(silyl)ethenes via ruthenium-catalyzed homocoupling of vinylsilanes carried out in ionic liquids. Applied Catalysis A: General, 2012, 445-446, 261-268.	2.2	8
90	Versatile Method for the Simultaneous Synthesis of Two Ionic Liquids, Otherwise Difficult to Obtain, with High Atom Economy. ChemistryOpen, 2019, 8, 972-983.	0.9	8

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91	Synthesis and characterization of nitrogen-based ionic liquids bearing allyl groups and examples of their application. New Journal of Chemistry, 2020, 44, 12274-12288.	1.4	8
92	Synthesis of organofunctional silanes with sterically hindered substituents at silicon atoms. Applied Organometallic Chemistry, 2001, 15, 649-657.	1.7	7
93	From isothiocyanatoâ€“ to silylâ€“nickel complexes. Inorganic Chemistry Communication, 2002, 5, 464-467.	1.8	7
94	Thermal and surface properties of hybrid materials obtained from epoxy-functional urethane and siloxane. Polymer Bulletin, 2016, 73, 1247-1265.	1.7	7
95	Optimization and intensification of hydrosilylation reactions using a microreactor system. New Journal of Chemistry, 2018, 42, 15332-15339.	1.4	7
96	New anionic rhodium complexes as catalysts for the reduction of acetophenone and its derivatives. RSC Advances, 2019, 9, 711-720.	1.7	7
97	Mono N-Alkylated DABCO-Based Ionic Liquids and Their Application as Latent Curing Agents for Epoxy Resins. ACS Applied Polymer Materials, 2021, 3, 5481-5493.	2.0	7
98	POSS compounds as modifiers and additives for elastomeric composites. Polimery, 2013, 58, 772-782.	0.4	7
99	Thiol-ene chemistry as an effective tool for hydrophobization of cotton fabrics. Cellulose, 2022, 29, 1231-1247.	2.4	7
100	Stereoelectronic effects of substituents at silicon on the hydrosilylation of 1-hexene catalysed by [RhCl(cod)(1-hexene)]. Transition Metal Chemistry, 1995, 20, 435-439.	0.7	6
101	The reaction of [Ni(acac)2] with triethoxysilane in the presence of PPh3: a new method for synthesis of [Ni(acac)Et(PPh3)]. Journal of the Chemical Society Chemical Communications, 1995, , 717-718.	2.0	6
102	The effect of epoxyurethane modification on surface and thermal properties of fluorinated epoxyfunctional siloxane highâ€”solid coatings. Progress in Organic Coatings, 2017, 112, 118-126.	1.9	6
103	Synthesis of reactive siloxane-silsesquioxane resins. Polimery, 2013, 58, 766-771.	0.4	6
104	Preparation and characterisation of monolayers and Langmuirâ€“Blodgett films of liquid crystal mixed with cubic silsesquioxanes. Liquid Crystals, 2018, 45, 351-361.	0.9	5
105	Silica Surface Modification and Its Application in Permanent Link with Nucleic Acids. ACS Omega, 2018, 3, 5931-5937.	1.6	5
106	The Rapeseed Oil Based Organofunctional Silane for Stainless Steel Protective Coatings. Materials, 2020, 13, 2212.	1.3	5
107	Gelatinâ€“Siloxane Hybrid Monoliths as Novel Heavy Metal Adsorbents. Applied Sciences (Switzerland), 2022, 12, 1258.	1.3	5
108	Antimicrobial activity of organicâ€“inorganic hybrid films based on gelatin and organomodified silicones. Advances in Polymer Technology, 2018, 37, 2958-2970.	0.8	4

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109	SILP Materials as Effective Catalysts in Selective Monofunctionalization of 1,1,3,3-Tetramethyldisiloxane. Catalysts, 2020, 10, 1414.	1.6	4
110	SILP materials based on TiO₂â€“SiO₂ and TiO₂â€“SiO₂/lignin supports as new catalytic materials for hydrosilylation reaction â€“ synthesis, physicochemical characterization and catalysis. RSC Advances, 2021, 11, 23355-23364.	1.7	4
111	Preparation of functionalised SiO2/F-SF poss hybrid fillers and their application in gel polymer electrolytes. Polimery, 2013, 58, 748-758.	0.4	4
112	Novel organosilicon dendrons as effective linkers for biomolecules binding on a glass surface. Applied Organometallic Chemistry, 2015, 29, 216-220.	1.7	3
113	Synthesis, characterization and catalytic activity of new SILPs based on MgO-SiO2 and MgO-SiO2/lignin supports. Molecular Catalysis, 2021, 509, 111615.	1.0	3
114	Application of silsesquioxanes for modification of epoxy resins. Polimery, 2013, 58, 759-765.	0.4	3
115	Amino-functional Silsesquioxanes (POSS)-Effective Glass Surface Modifiers in Solidphase Nucleic Acid Synthesis. Current Organic Chemistry, 2017, 21, .	0.9	3
116	Research paper Application of epoxy functional silanes in the preparation of DNA microarrays. Biotechnologia, 2014, 1, 5-16.	0.3	3
117	Polyamide 6 modified with silsesquioxane prepared via anionic polymerization of e-caprolactam. Polimery, 2012, 57, 697-704.	0.4	2
118	Curing of epoxy resin epidian 6 containing reactive organosilicon filler â€” a differential scanning calorimetry study. Polimery, 2013, 58, 212-218.	0.4	2
119	Synthesis and characterization of silsesquioxanes with structure of incompletely condensed cages. Polimery, 2013, 58, 741-747.	0.4	2
120	Isocyanatopropyltrimethoxysilaneâ€” Key Intermediate of New Silane Coupling Agents. , 0, , 536-540.		0
121	Structure and Oligonucleotide Binding Efficiency of Differently Prepared Click Chemistry-Type DNA Microarray Slides Based on 3-Azidopropyltrimethoxysilane. Materials, 2021, 14, 2855.	1.3	0
122	A study on thermal stability of glycidylsiloxane resins cured with aliphatic amines. Polimery, 2015, 60, 448-456.	0.4	0
123	Polycarbosilanes as Precursors of Novel Membrane Materials. , 0, , 641-644.		0
124	Isocyanatopropyltrimethoxysilaneâ€” Key Intermediate of New Silane Coupling Agents. , 0, , 536-540.		0