



ELSEVIER

Journal of Organometallic Chemistry 685 (2003) 283–286

Journal  
of Organo  
metallic  
Chemistry

www.elsevier.com/locate/jorganchem

## Subject Index of Volume 685

- Acylpolysilanes  
Silicon–carbon unsaturated compounds. 68. Reactions of silenes produced thermally and photochemically from acylpolysilanes with diketones, 162
- Addition  
Stereoselective accesses to enantioenriched allyl-, allenyl-, and propargyl-silanes via Si–Si bond activation by palladium–isocyanide catalysts, 218
- Alkyl silane  
Dehydrogenative coupling of primary alkyl silanes using Wilkinson's catalyst, 107
- Aminosilanes  
Tailor-made synthesis of functional substituted oligo- and polysilanes from silyl triflates and (aminosilyl)lithium compounds, 70
- Anionic polymerization  
Functional transformation of poly(dialkylaminotrimethyldisilene) prepared by anionic polymerization of the masked disilenes. The preparation of a true polysilastyrene, 65
- Atomic force microscope  
Nanostructured polysilane–titania hybrids and their application to porous titania thin films, 230
- Avoided crossing  
Recent experimental and theoretical aspects of the conformational dependence of UV absorption of short chain peralkylated oligosilanes, 9
- Backbiting  
The role of oligomers in the synthesis of polysilanes by the Wurtz reductive coupling reaction, 60
- Bicyclo[2.2.2]octane  
2,3,5,6,7,8-Hexasilabicyclo[2.2.2]octane-1-carboxylic acids and esters: preparation and structure, 138
- Bicyclosilanes  
Route Si<sub>6</sub> revisited, 79
- Bis(salicylidene)ethylenediamine  
Synthesis of polysilane–bis(salicylidene)ethylenediamine Ni(II) complex, 202
- Branched polysilane  
Optical properties of polysilanes with various silicon skeletons, 122
- C<sub>60</sub>  
Silylation of fullerenes with active species in photolysis of polysilane, 177
- Cage acid  
2,3,5,6,7,8-Hexasilabicyclo[2.2.2]octane-1-carboxylic acids and esters: preparation and structure, 138
- Cage compound  
2,3,5,6,7,8-Hexasilabicyclo[2.2.2]octane-1-carboxylic acids and esters: preparation and structure, 138
- Cage ester  
2,3,5,6,7,8-Hexasilabicyclo[2.2.2]octane-1-carboxylic acids and esters: preparation and structure, 138
- Catalyst  
One-pot synthesis of poly(alkoxysilane)s by Si–Si/Si–O dehydrocoupling of silanes with alcohols using Group IV and VIII metallocene complexes, 93
- CD exciton chirality  
Synthesis, stereochemistry and chiroptical properties of naphthyl-phenyl-substituted optically active oligosilanes with  $\alpha,\omega$ -chiral silicon centers, 35
- Charge carrier transport  
Polysilylenes: charge carrier transport and photogeneration, 269
- Chiral  
The first optically active polygermanes: preferential screw sense helicity of enantiopure chiral-substituted aryl polygermanes and comparison with analogous polysilanes, 44
- Chiral silicon  
Synthesis, stereochemistry and chiroptical properties of naphthyl-phenyl-substituted optically active oligosilanes with  $\alpha,\omega$ -chiral silicon centers, 35
- Chromophore  
Polysilanes with NLO chromophores as pendant groups by utilizing different synthetic strategies, 258
- Circular dichroism  
Switching handedness in optically active polysilanes, 15  
The first optically active polygermanes: preferential screw sense helicity of enantiopure chiral-substituted aryl polygermanes and comparison with analogous polysilanes, 44
- Conformational control  
Unusual behavior of silicon oligomers and polymers having functional groups, 207
- Conformation dependence  
Recent experimental and theoretical aspects of the conformational dependence of UV absorption of short chain peralkylated oligosilanes, 9
- $\sigma$ -Conjugation  
Recent experimental and theoretical aspects of the conformational dependence of UV absorption of short chain peralkylated oligosilanes, 9  
Unusual behavior of silicon oligomers and polymers having functional groups, 207
- Conjugation  
Excitation dependence of Raman spectra of various polydialkylsilane conformations and  $\sigma$ – $\sigma$  conjugation, 51
- $\sigma$ -Conjugation  
Dendritic polysilanes, 113
- Coordination polymer  
Synthesis of polysilane–bis(salicylidene)ethylenediamine Ni(II) complex, 202
- Copolymers  
Switching handedness in optically active polysilanes, 15
- Crosslinking  
Synthesis, catalytic Si–Si dehydrocoupling, and thermolysis of polyvinylsilanes [CH<sub>2</sub>CH(SiH<sub>2</sub>X)]<sub>n</sub> (X=H, Ph), 99
- Crystal structure  
Structure and oxidation of octakis(*tert*-butyldimethylsilyl)octasilacubane, 156

- Cyclic-carbotetrasilane  
Photochemical transformation of a cyclic polysilane to a cyclic carbosilane via  $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2\text{CH}_2^-$ ,  $\text{FpCH}_2^-$ , substitution, 189
- Cyclic-pentasilane  
Photochemical transformation of a cyclic polysilane to a cyclic carbosilane via  $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2\text{CH}_2^-$ ,  $\text{FpCH}_2^-$ , substitution, 189
- Cyclic silanes  
Electrochemical oxidation of cyclic polysilanes, 145
- Cyclic siloxanes  
Electrochemical oxidation of cyclic polysilanes, 145
- Cycloaddition  
Disilagermirenes: heavy cyclopropenes of Si and Ge atoms, 168  
(Cyclopentadienyl)dicarbonyliron  
Photochemical transformation of a cyclic polysilane to a cyclic carbosilane via  $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2\text{CH}_2^-$ ,  $\text{FpCH}_2^-$ , substitution, 189
- Cyclosilanes  
Route  $\text{Si}_6$  revisited, 79
- Cyclotrimetallene  
Disilagermirenes: heavy cyclopropenes of Si and Ge atoms, 168
- Dehydrocoupling  
One-pot synthesis of poly(alkoxysilane)s by Si–Si/Si–O dehydrocoupling of silanes with alcohols using Group IV and VIII metallocene complexes, 93  
Synthesis, catalytic Si–Si dehydrocoupling, and thermolysis of polyvinylsilanes  $[\text{CH}_2\text{CH}(\text{SiH}_2\text{X})]_n$  (X=H, Ph), 99
- Dehydrogenative coupling  
Dehydrogenative coupling of primary alkyl silanes using Wilkinson's catalyst, 107
- Dendrimers  
Dendritic polysilanes, 113  
Structure and UV spectroscopic properties of a novel dendritic oligosilane, 134
- Difluorosilanes  
Electrochemical oxidation of cyclic polysilanes, 145
- Diketones  
Silicon–carbon unsaturated compounds. 68. Reactions of silenes produced thermally and photochemically from acylpolysilanes with diketones, 162
- Disilane  
Silylation of fullerenes with active species in photolysis of polysilane, 177
- Disilene  
Disilagermirenes: heavy cyclopropenes of Si and Ge atoms, 168
- Drift mobility  
Photoconduction of (silicon nanocrystals)–(organic polysilane) composites, 243
- Electrochemical oxidation  
Electrochemical oxidation of cyclic polysilanes, 145
- Electrolyte, anode and ring-size effects  
Electrochemical oxidation of cyclic polysilanes, 145
- Elimination  
Stereoselective accesses to enantioenriched allyl-, allenyl-, and propargyl-silanes via Si–Si bond activation by palladium–isocyanide catalysts, 218
- Emission  
Optical properties of polysilanes with various silicon skeletons, 122
- Endbiting  
The role of oligomers in the synthesis of polysilanes by the Wurtz reductive coupling reaction, 60
- Energy transfer  
Efficient energy transfer from polysilane molecules and its application to electroluminescence, 235
- Excited state  
Optical properties of polysilanes with various silicon skeletons, 122
- Fluorescence  
Plasma synthesized polysilanes — organic nanostructural materials, 249
- Fluorescence spectra  
Efficient energy transfer from polysilane molecules and its application to electroluminescence, 235  
Switching handedness in optically active polysilanes, 15
- Fullerene  
Silylation of fullerenes with active species in photolysis of polysilane, 177
- Germanium  
Disilagermirenes: heavy cyclopropenes of Si and Ge atoms, 168
- Germasilene  
Disilagermirenes: heavy cyclopropenes of Si and Ge atoms, 168
- GPC/LS  
Photoreaction of poly(ferrocenylmethylsilane-co-phenylmethylsilane) in solution, 196
- Heavy cyclopropene  
Disilagermirenes: heavy cyclopropenes of Si and Ge atoms, 168
- Helix  
Switching handedness in optically active polysilanes, 15  
The first optically active polygermanes: preferential screw sense helicity of enantiopure chiral-substituted aryl polygermanes and comparison with analogous polysilanes, 44
- Hydrosilanes  
One-pot synthesis of poly(alkoxysilane)s by Si–Si/Si–O dehydrocoupling of silanes with alcohols using Group IV and VIII metallocene complexes, 93
- $\pi$ – $\pi$  interaction  
Synthesis, stereochemistry and chiroptical properties of naphthyl-phenyl-substituted optically active oligosilanes with  $\alpha,\omega$ -chiral silicon centers, 35
- Isocyanide  
Stereoselective accesses to enantioenriched allyl-, allenyl-, and propargyl-silanes via Si–Si bond activation by palladium–isocyanide catalysts, 218
- Masked disilene  
Functional transformation of poly(dialkylaminotrimethylidisilene) prepared by anionic polymerization of the masked disilenes. The preparation of a true polysilastyrene, 65
- Metallocene  
One-pot synthesis of poly(alkoxysilane)s by Si–Si/Si–O dehydrocoupling of silanes with alcohols using Group IV and VIII metallocene complexes, 93  
Synthesis, catalytic Si–Si dehydrocoupling, and thermolysis of polyvinylsilanes  $[\text{CH}_2\text{CH}(\text{SiH}_2\text{X})]_n$  (X=H, Ph), 99
- Mitsunobu reaction  
2,3,5,6,7,8-Hexasilabicyclo[2.2.2]octane-1-carboxylic acids and esters: preparation and structure, 138
- Molecular conformation  
Photoreaction of poly(ferrocenylmethylsilane-co-phenylmethylsilane) in solution, 196
- Molecular switch  
Polysilylenes: charge carrier transport and photogeneration, 269
- Mono- and dihydroxysilanes  
Electrochemical oxidation of cyclic polysilanes, 145
- Mono- and dihydroxysiloxanes  
Electrochemical oxidation of cyclic polysilanes, 145
- Nanostructures  
Nanostructured polysilane–titania hybrids and their application to porous titania thin films, 230
- Network polysilane  
Optical properties of polysilanes with various silicon skeletons, 122

- Ni(II) complex  
 Synthesis of polysilane–bis(salicyliden)ethylenediamine Ni(II) complex, 202
- Nonlinear optic properties  
 Polysilanes with NLO chromophores as pendant groups by utilizing different synthetic strategies, 258
- Octasilacubane  
 Structure and oxidation of octakis(*tert*-butyldimethylsilyl)octasilacubane, 156
- Octasilane  
 Structure and UV spectroscopic properties of a novel dendritic oligosilane, 134
- Octasilsesquioxane  
 Structure and oxidation of octakis(*tert*-butyldimethylsilyl)octasilacubane, 156
- Oligosilane  
 Dehydrogenative coupling of primary alkyl silanes using Wilkinson's catalyst, 107  
 Recent experimental and theoretical aspects of the conformational dependence of UV absorption of short chain peralkylated oligosilanes, 9
- Oligosilanes  
 Structure and UV spectroscopic properties of a novel dendritic oligosilane, 134  
 Tailor-made synthesis of functional substituted oligo- and polysilanes from silyl triflates and (aminosilyl)lithium compounds, 70  
 The role of oligomers in the synthesis of polysilanes by the Wurtz reductive coupling reaction, 60
- Optically active  
 Switching handedness in optically active polysilanes, 15
- Optically active oligosilanes  
 Synthesis, stereochemistry and chiroptical properties of naphthylphenyl-substituted optically active oligosilanes with  $\alpha,\omega$ -chiral silicon centers, 35
- Optical property  
 Optical properties of polysilanes with various silicon skeletons, 122
- Organic electroluminescence  
 Efficient energy transfer from polysilane molecules and its application to electroluminescence, 235
- Organic–inorganic hybrid  
 Nanostructured polysilane–titania hybrids and their application to porous titania thin films, 230
- Orthogonal conformations  
 Dendritic polysilanes, 113
- Oxasiletane  
 Stereoselective accesses to enantioenriched allyl-, allenyl-, and propargyl-silanes via Si–Si bond activation by palladium–isocyanide catalysts, 218
- Oxidation of polysilane  
 Structure and oxidation of octakis(*tert*-butyldimethylsilyl)octasilacubane, 156
- Pentacoordinate silicon  
 Unusual behavior of silicon oligomers and polymers having functional groups, 207
- Photobleaching  
 Photoreaction of poly(ferrocenylmethylsilane-co-phenylmethylsilane) in solution, 196
- Photochemistry  
 Photochemical transformation of a cyclic polysilane to a cyclic carbosilane via  $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2\text{CH}_2^-$ ,  $\text{FpCH}_2^-$ , substitution, 189
- Photoconduction  
 Photoconduction of (silicon nanocrystals)–(organic polysilane) composites, 243
- Photogeneration  
 Polysilylenes: charge carrier transport and photogeneration, 269
- Photolysis  
 Silicon–carbon unsaturated compounds. 68. Reactions of silenes produced thermally and photochemically from acylpolysilanes with diketones, 162
- Plasma polymerization  
 Plasma synthesized polysilanes — organic nanostructural materials, 249
- Polaron  
 Polysilylenes: charge carrier transport and photogeneration, 269
- Poly(alkoxysilane)  
 One-pot synthesis of poly(alkoxysilane)s by Si–Si/Si–O dehydrocoupling of silanes with alcohols using Group IV and VIII metallocene complexes, 93
- Polycondensation  
 Synthesis of polysilane–bis(salicyliden)ethylenediamine Ni(II) complex, 202
- Polydialkylsilane  
 Excitation dependence of Raman spectra of various polydialkylsilane conformations and  $\sigma$ – $\sigma$  conjugation, 51
- Polydispersity  
 Photoreaction of poly(ferrocenylmethylsilane-co-phenylmethylsilane) in solution, 196
- Poly(ferrocenylmethylsilane-co-phenylmethylsilane)  
 Photoreaction of poly(ferrocenylmethylsilane-co-phenylmethylsilane) in solution, 196
- Polygermane  
 The first optically active polygermanes: preferential screw sense helicity of enantiopure chiral-substituted aryl polygermanes and comparison with analogous polysilanes, 44
- Polymer–metal complex  
 Synthesis of polysilane–bis(salicyliden)ethylenediamine Ni(II) complex, 202
- Polymers  
 A new theory for rotational isomeric states: polysilanes lead the way, 6
- Polysilane  
 Efficient energy transfer from polysilane molecules and its application to electroluminescence, 235  
 Functional transformation of poly(dialkylaminotrimethylsilene) prepared by anionic polymerization of the masked disilenes. The preparation of a true polysilastyrene, 65  
 Nanostructured polysilane–titania hybrids and their application to porous titania thin films, 230  
 Optical properties of polysilanes with various silicon skeletons, 122  
 Photoconduction of (silicon nanocrystals)–(organic polysilane) composites, 243  
 Silylation of fullerenes with active species in photolysis of polysilane, 177  
 Structure and oxidation of octakis(*tert*-butyldimethylsilyl)octasilacubane, 156  
 Synthesis of polysilane–bis(salicyliden)ethylenediamine Ni(II) complex, 202  
 The first optically active polygermanes: preferential screw sense helicity of enantiopure chiral-substituted aryl polygermanes and comparison with analogous polysilanes, 44  
 Unusual behavior of silicon oligomers and polymers having functional groups, 207
- Polysilane dendrimer  
 Optical properties of polysilanes with various silicon skeletons, 122
- Polysilane films  
 Plasma synthesized polysilanes — organic nanostructural materials, 249

## Polysilanes

- A new theory for rotational isomeric states: polysilanes lead the way, 6
- Dendritic polysilanes, 113
- Photoreaction of poly(ferrocenylmethylsilane-co-phenylmethylsilane) in solution, 196
- Polysilanes with NLO chromophores as pendant groups by utilizing different synthetic strategies, 258
- Switching handedness in optically active polysilanes, 15
- The role of oligomers in the synthesis of polysilanes by the Wurtz reductive coupling reaction, 60

## Polysilylenes

- Polysilylenes: charge carrier transport and photogeneration, 269

## Polyvinylsilane

- Synthesis, catalytic Si–Si dehydrocoupling, and thermolysis of polyvinylsilanes  $[\text{CH}_2\text{CH}(\text{SiH}_2\text{X})]_n$  (X=H, Ph), 99

## Post-functionalization

- Polysilanes with NLO chromophores as pendant groups by utilizing different synthetic strategies, 258

## Potassium

- Route  $\text{Si}_6$  revisited, 79

## Preferential screw sense

- The first optically active polygermanes: preferential screw sense helicity of enantiopure chiral-substituted aryl polygermanes and comparison with analogous polysilanes, 44

## Quantum size effect

- Optical properties of polysilanes with various silicon skeletons, 122

## Raman intensity

- Excitation dependence of Raman spectra of various polydialkylsilane conformations and  $\sigma$ – $\sigma$  conjugation, 51

## Rearrangement

- Stereoselective accesses to enantioenriched allyl-, allenyl-, and propargyl-silanes via Si–Si bond activation by palladium–isocyanide catalysts, 218

## Rhodium catalyst

- Dehydrogenative coupling of primary alkyl silanes using Wilkinson's catalyst, 107

## Rotational isomerism

- A new theory for rotational isomeric states: polysilanes lead the way, 6

## Silanes

- Structure and UV spectroscopic properties of a novel dendritic oligosilane, 134

## Silenes

- Silicon–carbon unsaturated compounds. 68. Reactions of silenes produced thermally and photochemically from acylpolysilanes with diketones, 162

## Silicon

- Disilagermirenes: heavy cyclopropenes of Si and Ge atoms, 168
- 2,3,5,6,7,8-Hexasilabicyclo[2.2.2]octane-1-carboxylic acids and esters: preparation and structure, 138

## Silicon stereochemistry

- Synthesis, stereochemistry and chiroptical properties of naphthylphenyl-substituted optically active oligosilanes with  $\alpha,\omega$ -chiral silicon centers, 35

## Silylanions

- Route  $\text{Si}_6$  revisited, 79

## Silylation

- Silylation of fullerenes with active species in photolysis of polysilane, 177
- Stereoselective accesses to enantioenriched allyl-, allenyl-, and propargyl-silanes via Si–Si bond activation by palladium–isocyanide catalysts, 218

## Silylene

- Silylation of fullerenes with active species in photolysis of polysilane, 177

## Silyl triflates

- Tailor-made synthesis of functional substituted oligo- and polysilanes from silyl triflates and (aminosilyl)lithium compounds, 70

## Si nanocrystals

- Photoconduction of (silicon nanocrystals)–(organic polysilane) composites, 243

## Small ring

- Disilagermirenes: heavy cyclopropenes of Si and Ge atoms, 168

## Sol–gel glass

- Efficient energy transfer from polysilane molecules and its application to electroluminescence, 235

## Solvatochromism

- Unusual behavior of silicon oligomers and polymers having functional groups, 207

## Synthesis and characterization

- Polysilanes with NLO chromophores as pendant groups by utilizing different synthetic strategies, 258

## Theoretical and experimental studies

- Recent experimental and theoretical aspects of the conformational dependence of UV absorption of short chain peralkylated oligosilanes, 9

## Thermochromism

- Unusual behavior of silicon oligomers and polymers having functional groups, 207

## Thermolysis

- Silicon–carbon unsaturated compounds. 68. Reactions of silenes produced thermally and photochemically from acylpolysilanes with diketones, 162
- Synthesis, catalytic Si–Si dehydrocoupling, and thermolysis of polyvinylsilanes  $[\text{CH}_2\text{CH}(\text{SiH}_2\text{X})]_n$  (X=H, Ph), 99

## Titanium oxide

- Nanostructured polysilane–titania hybrids and their application to porous titania thin films, 230

## UV absorption

- Recent experimental and theoretical aspects of the conformational dependence of UV absorption of short chain peralkylated oligosilanes, 9

## UV spectroscopy

- Structure and UV spectroscopic properties of a novel dendritic oligosilane, 134

## Wet process

- Efficient energy transfer from polysilane molecules and its application to electroluminescence, 235

## Wurtz reductive coupling

- The role of oligomers in the synthesis of polysilanes by the Wurtz reductive coupling reaction, 60

## X-ray crystallographic analysis

- Disilagermirenes: heavy cyclopropenes of Si and Ge atoms, 168