

- | | | |
|--------------------------------|-----------------------|----------------------|
| Setkina, V.N., 161 | Trembovler, V.N., 161 | Wasserman, H.J., 365 |
| Shklover, V.E., 309 | Tsiryapkin, V.A., 73 | Wehrli, A., 85 |
| Shteinshneider, A.Ya., 161 | Tumanov, An.A., 17 | Wigley, D.E., 321 |
| Smith, A.K., C29 | | |
| Struchkov, Yu.T., 73, 101, 309 | Umani-Ronchi, A., 225 | Yates, J.B., C21 |
| Süss-Fink, G., 171 | Vyazankin, N.S., 51 | Yavorskii, B.M., 161 |
| Sutherland, R.G., 357 | Vyazankina, O.A., 51 | Yur'ev, V.P., 375 |
| | | Yusupova, F.G., 375 |
| Tam, S.W., 221 | Walton, R.A., 321 | |
| Thewalt, U., 171 | Wang, L.F., 189 | Zimmer, R., 61 |

JOURNAL OF ORGANOMETALLIC CHEMISTRY, VOL. 248 (1983)

SUBJECT INDEX
Aluminium

[(C₅H₅)₂TiCl]₂/LiAlH₄ catalytic system in aromatic solvents, ESR study of formation of titanocene hydride complexes (K. Mach, H. Antropiusová), 287

Antimony

Pentacarbonyl-manganese and -rhenium radicals, paramagnetic adducts trapped by *N,N'*-di-*t*-butyl-1,4-diaza-1,3-butadiene from; characterisation by ESR spectroscopy of (A. Alberti, A. Hudson), 199

Arsenic

1,1-Dichloro-1-*R*-λ⁵-arsole-1-chloroarsoles and 2,2',5,5'-tetraphenyldiarsolyl, chemistry of (G. Märkl, H. Hauptmann), 269

Pentacarbonyl-manganese and -rhenium radicals, paramagnetic adducts trapped by *N,N'*-di-*t*-butyl-1,4-diaza-1,3-butadiene from; characterisation by ESR spectroscopy of (A. Alberti, A. Hudson), 199

Bismuth

Pentacarbonyl-manganese and -rhenium radicals, paramagnetic adducts trapped by *N,N'*-di-*t*-butyl-1,4-diaza-1,3-

butadiene from; characterisation by ESR spectroscopy of (A. Alberti, A. Hudson), 199

Boron

2,4-Dibora-1,3-diazarobenzene and related borazine, ¹³C NMR spectral study of heterocyclic derivatives of (S. Allaoud, H. Bitar, M. El Mouhtadi, B. Frange), 123

Caesium

Alkalimetal derivatives of octamethyl-trisiladiazane, short Na—C contacts in the molecular structure of the disodium salt (D.J. Brauer, H. Bürger, W. Geschwandtner, G.R. Liewald, C. Krüger), 1

Chromium

Arenetricarbonylchromium complexes, study of photolysis by IR, UV and ¹H and ¹³C NMR spectroscopy of (E.A. Domogatskaya, V.N. Setkina, N.K. Baranetskaya, V.N. Trembovler, B.M. Yavorskii, A.Ya. Shteinshneider, P.V. Petrovskii), 161

Isocyanide-chromium complexes derived from ethanolic solutions of chromium(II), formation of (F.R. Lemke, D.E. Wigley, R.A. Walton), 321

Methylcyclopentadienylchromium(III) sulphide diamagnetic tetramer and antiferromagnetic copper(II) bromide adduct of the tetranuclear cluster (MeC_5H_4)₄Cr₄(μ_3 -O)(μ_3 -S)₃, synthesis and molecular structures of (A.A. Pasynskii, I.L. Eremenko, Yu.V. Rakitin, V.M. Novotortsev, O.G. Ellert, V.T. Kalinnikov, V.E. Shklover, Yu.T. Struchkov, S.V. Lindeman, T.Kh. Kurbanov, G.Sh. Gasanov), 309

Cobalt

Dicyclopentadienyl-molybdenum and -tungsten dihydrides, reactions with octacarbonyldicobalt and nonacarbonyldiiron forming ionic heteronuclear complexes of (Y. Mugnier, C. Moise), C33

Tetracarbonyl cobaltate ion supported anion exchangers as a heterogenized homogeneous catalyst; synthesis of acids and esters from organic halides (M. Foà, F. Francalanci, A. Gardano, G. Cainelli, A. Umani-Rochi), 225

Copper

Copper(I) borohydride, reduction of CO₂, CS₂ and COS by; X-ray crystal structure of [(triphos)Cu(O₂CH)] (C. Bianchini, C.A. Ghilardi, A. Meli, S. Midollini, A. Orlandini), C13

Methylcyclopentadienylchromium(III) sulphide diamagnetic tetramer and antiferromagnetic copper(II) bromide adduct of the tetranuclear cluster (MeC_5H_4)₄Cr₄(μ_3 -O)(μ_3 -S)₃, synthesis and molecular structures of (A.A. Pasynskii, I.L. Eremenko, Yu.V. Rakitin, V.M. Novotortsev, O.G. Ellert, V.T. Kalinnikov, V.E. Shklover, Yu.T. Struchkov, S.V. Lindeman, T.Kh. Kurbanov, G.Sh. Gasanov), 309

Germanium

Methylphenyltriphenylgermylsilanes, cleavage of the Si-Ge bond in (R.J.P. Corriu, S. Ould-Kada, G.F. Lanneau), 39

—, **synthesis and stereochemistry of** (R.J.P. Corriu, S. Ould-Kada, G. Lanneau), 23

Triethylgermyllithium, reactions with N,N-dialkylated carboxamides of

(D.A. Bravo-Zhivotovskii, S.D. Pigarev, I.D. Kalikhman, O.A. Vyazankina, N.S. Vyazankin), 51

Iridium

Multidentate ligand stabilised metal carbonyl cluster complexes, reactions with phosphines and immobilisation on silica or organic polymers of (D.F. Foster, J. Harrison, B.S. Nicholls, A.K. Smith), C29

Tri- μ_3 -carbonyl- μ -carbonylheptacarbonylpentakis(trimethylphosphite)-octahedrohexairidium, synthesis and X-ray characterisation of (F. Demartin, M. Manassero, M. Sansoni, L. Garlaschelli, M.C. Malatesta, U. Sartorelli), C17

Iron

π -Allyl- σ -carbamoyliron complex (OC)₃FeC(O)N(CH₂Ph)(η^3 -CMe⁺-CH⁻-CHPh), X-ray crystal structure of (A.S. Batsanov, Yu.T. Struchkov), 101

3-Aryl- and 3-alkyl-[5]ferrocenophane-1,5-diones, stereochemistry of the reaction with Grignard reagents of (J. Mirek, S. Rachwal, R. Kawalek), 107

Bis- and tris-acetonitrile-iron(II) complexes (D. Catheline, D. Astruc), C9

(η^5 -C₅H₅)Fe(CO)(PPh₃)(COCH₂R), stereoselective elaboration of the acyl ligand in (G.J. Baird, S.G. Davies), C1

2-Cyano-2-triphenylphosphoranylidene dithioacetic acid and its alkyl esters, coordination chemistry, IR and NMR spectroscopic investigations of (U. Kunze, R. Merkel, M. Moll), 205

Dicyclopentadienyl-molybdenum and -tungsten dihydrides, reactions with octacarbonyldicobalt and nonacarbonyldiiron forming ionic heteronuclear complexes of (Y. Mugnier, C. Moise), C33

Fe_x(CO)_y(C₂R₂)₂ (x = 1, 2, 3; y = 6, 8), fragmentation patterns of mass spectra of (N. Bild, E.R.F. Gering, C. Quiquerez, A. Wehrli), 85

Ferrocene, mono- and di-cations from ligand exchange reactions with heterocyclic systems of (C.C. Lee, A. Piórko, R.G. Sutherland), 357

Pentacarbonyliron-promoted reductive coupling of benzoyl chloride in halo-benzenes (T.-Y. Luh, K.S. Lee, S.W. Tam), 221

Lead

2,6-Dimethoxybenzoquinone and substituted pyrazines, ESR study of regioselective addition of Group IVB organometallic radicals to (A. Alberti, G.F. Pedulli), 261

Lithium

Alkalimetal derivatives of octamethyltrisiladiazane, short Na—C contacts in the molecular structure of the disodium salt (D.J. Brauer, H. Bürger, W. Geschwandtner, G.R. Liewald, C. Krüger), 1

Magnesium

3-Aryl- and 3-alkyl-[5]ferrocenophane-1,5-diones, stereochemistry of the reaction with Grignard reagents of (J. Mirek, S. Rachwal, R. Kawalek), 107

Manganese

η^3 -Allylcyanomethyltricarbonylmanganese, crystal structure of (G. Liehr, H.-J. Seibold, H. Behrens), 351

η^3 -Allylmonocyanotricarbonyl metalate and η^3 -allylmononitrilettricarbonylmanganese and -rhenium, formation of (M. Moll, H. Behrens, H.-J. Seibold, P. Merbach), 329

2-Cyano-2-triphenylphosphoranylidene dithioacetic acid and its alkyl esters, coordination chemistry, IR and NMR spectroscopic investigations of (U. Kunze, R. Merkel, M. Moll), 205

(-)_{5,7,8}-1-[α -(*N,N*-Dimethylamino)ethyl]-2-formylcymantrene, molecular structure and absolute configuration of (N.M. Loim, M.V. Laryukova, V.G. Andrianov, V.A. Tsiryapkin, Z.N. Parnes, Yu.T. Struchkov), 73

Manganese and rhenium η^3 -allyl complexes, ¹³C NMR spectra of (M. Moll, H.-J. Seibold), 343

Pentacarbonylmanganese and -rhenium radicals, paramagnetic adducts trapped by *N,N'*-di-*t*-butyl-1,4-diaza-1,3-butadiene from; characterisation by ESR spectroscopy of (A. Alberti, A. Hudson), 199

Mercury

Tin and mercury thiophenolate charge

transfer complexes with tetracyanoethylene, electron absorption spectroscopy of (P.G. Sennikov, A.A. Tumanov, A.N. Egorochkin, D.N. Kravtsov, L.S. Golovchenko, S.I. Pombrik), 17

Metalloenes

3-Aryl- and 3-alkyl-[5]ferrocenophane-1,5-diones, stereochemistry of the reaction with Grignard reagents of (J. Mirek, S. Rachwał, R. Kawalek), 107

[(C₅H₅)₂TiCl]₂/LiAlH₄ catalytic system in aromatic solvents, ESR study of formation of titanocene hydride complexes (K. Mach, H. Antropiusová), 287

Ferrocene, mono- and di-cations from ligand exchange reactions with heterocyclic systems of (C.C. Lee, A. Piórko, R.G. Sutherland), 357

Molybdenum

Dicyclopentadienyl-molybdenum and -tungsten dihydrides, reactions with octacarbonyldicobalt and nonacarbonyl-diiron forming ionic heteronuclear complexes of (Y. Mugnier, C. Moise), C33

Nickel

Nickel complexes with vinylsilanes, preparation of (L.S. Isaeva, T.A. Peganova, P.V. Petrovskii, F.F. Kayumov, F.G. Yusupova, V.P. Yur'ev), 375

NiNi'CC' tetrahedral clusters, configurational stability of (H. Brunner, M. Muschiol), 233

Niobium

[Nb(η^5 -C₅H₅)₂{PS₂(OR)₂}]₂, EPR study of the electronic structure of; formation of derivatives by cleavage of S—S bonds in (J. Sala-Pala, J.-L. Migot, J.E. Guerschais, L. Le Gall, F. Grosjean), 299

Osmium

t-Bu₂PN=S=NP-*t*-Bu₂, fragmentation in addition reactions to osmium clusters of; synthesis, solid state structure and dynamic properties of Os₃(CO)₁₁[P-*t*-

- Bu₂(NH₂)] and HO₃(CO)₉[P-t-Bu₂N(H)S] (W. Ehrenreich, M. Herberhold, G. Süß-Fink, H.-P. Klein, U. Thewalt), 171
- Methylene-triosmium cluster, Os₃(CO)₁₀⁻(μ-CO)(μ-CHSiMe₃), crystal structure of (M.R. Churchill, H.J. Wasserman), 365

Phosphorus

- t-Bu₂PN=S=NP-t-Bu₂, fragmentation in addition reactions to osmium clusters of; synthesis, solid state structure and dynamic properties of Os₃(CO)₁₁[P-t-Bu₂(NH₂)] and HO₃(CO)₉[P-t-Bu₂N(H)S] (W. Ehrenreich, M. Herberhold, G. Süß-Fink, H.-P. Klein, U. Thewalt), 171
- 2-Cyano-2-triphenylphosphoranylidene dithioacetic acid and its alkyl esters, coordination chemistry, IR and NMR spectroscopic investigations of (U. Kunze, R. Merkel, M. Moll), 205
- Decacarbonyldirhenium, photochemical reaction with triphenylphosphine of (S.W. Lee, L.F. Wang, C.P. Cheng), 189
- Multidentate ligand stabilised metal carbonyl cluster complexes, reactions with phosphines and immobilisation on silica or organic polymers of (D.F. Foster, J. Harrison, B.S. Nicholls, A.K. Smith), C29
- [Nb(η⁵-C₅H₅)₂{PS₂(OR)₂}]₂, EPR study of the electronic structure of; formation of derivatives by cleavage of S—S bonds in (J. Sala-Pala, J.-L. Migot, J.E. Guerschais, L. Le Gall, F. Grosjean), 299
- [ReCl(Ph₂PCH₂CH₂PPh₂)₂], preparation and X-ray structure of (D.L. Hughes, A.J.L. Pombeiro, C.J. Pickett, R.L. Richards), C26
- Tri-μ₃-carbonyl-μ-carbonylheptacarbonylpentakis(trimethylphosphite)-octahedro-hexairidium, synthesis and X-ray characterisation of (F. Demartin, M. Manassero, M. Sansoni, L. Garlaschelli, M.C. Malatesta, U. Sartorelli), C17

Potassium

- Alkali metal derivatives of octamethyltrisiladiazane, short Na—C contacts in the molecular structure of the disodium salt (D.J. Brauer, H. Bürger, W. Geschwandtner, G.R. Liewald, C. Krüger), 1

Rhenium

- η³-Allylmonocyanotricarbonyl metalate and η³-allylmononitriletetricarbonylmanganese and -rhenium, formation of (M. Moll, H. Behrens, H.-J. Seibold, P. Merbach), 329
- 2-Cyano-2-triphenylphosphoranylidene dithioacetic acid and its alkyl esters, coordination chemistry, IR and NMR spectroscopic investigations of (U. Kunze, R. Merkel, M. Moll), 205
- Decacarbonyldirhenium, photochemical reaction with triphenylphosphine of (S.W. Lee, L.F. Wang, C.P. Cheng), 189
- Manganese and rhenium η³-allyl complexes, ¹³C NMR spectra of (M. Moll, H.-J. Seibold), 343
- Pentacarbonyl-manganese and -rhenium radicals, paramagnetic adducts trapped by *N,N'*-di-*t*-butyl-1,4-diaza-1,3-butadiene from; characterisation by ESR spectroscopy of (A. Alberti, A. Hudson), 199
- [ReCl(Ph₂PCH₂CH₂PPh₂)₂], preparation and X-ray structure of (D.L. Hughes, A.J.L. Pombeiro, C.J. Pickett, R.L. Richards), C26

Rhodium

- Multidentate ligand stabilised metal carbonyl cluster complexes, reactions with phosphines and immobilisation on silica or organic polymers of (D.F. Foster, J. Harrison, B.S. Nicholls, A.K. Smith), C29

Rubidium

- Alkali metal derivatives of octamethyltrisiladiazane, short Na—C contacts in the molecular structure of the disodium salt (D.J. Brauer, H. Bürger, W. Geschwandtner, G.R. Liewald, C. Krüger), 1

Ruthenium

- Multidentate ligand stabilised metal carbonyl cluster complexes, reactions with phosphines and immobilisation on silica or organic polymers of (D.F. Foster, J. Harrison, B.S. Nicholls, A.K. Smith), C29

Selenium

- 2,6-Dimethoxybenzoquinone and substi-

tuted pyrazines, ESR study of regioselective addition of Group IVB organometallic radicals to (A. Alberti, G.F. Pedulli), 261

Octa-t-butyltetrastannachalcogen cyclic compounds, preparation and structure of (H. Puff, A. Bongartz, W. Schuh, R. Zimmer), 61

Silicon

Alkali metal derivatives of octamethyltrisiladiazane, short Na—C contacts in the molecular structure of the disodium salt (D.J. Brauer, H. Bürger, W. Geschwandtner, G.R. Liewald, C. Krüger), 1

η^3 -Allylmonocyanotricarbonyl metalate and η^3 -allylmononitritetricarbonylmanganese and -rhenium, formation of (M. Moll, H. Behrens, H.-J. Seibold, P. Merbach), 329

2,6-Dimethoxybenzoquinone and substituted pyrazines, ESR study of regioselective addition of Group IVB organometallic radicals to (A. Alberti, G.F. Pedulli), 261

1,3-Dioxa-6-aza-2-silacyclooctanes, conformational properties of 8-membered heterocycle and trigonal bipyramid of five-coordinated silicon in (E. Kupče, E. Liepinš, E. Lukevics), 131

Hydrogen-containing cyclosiloxanes, dehydrocondensation of (T.N. Martynova, V.P. Korchkov), 241

Methylene-triosmium cluster, $\text{Os}_3(\text{CO})_{10}(\mu\text{-CO})(\mu\text{-CHSiMe}_3)$, crystal structure of (M.R. Churchill, H.J. Wasserman), 365

Methylphenyltriphenylgermysilanes, cleavage of the Si—Ge bond in (R.J.P. Corriu, S. Ould-Kada, G.F. Lanneau), 39

—, synthesis and stereochemistry of (R.J.P. Corriu, S. Ould-Kada, G. Lanneau), 23

Nickel complexes with vinylsilanes, preparation of (L.S. Isaeva, T.A. Peganova, P.V. Petrovskii, F.F. Kayumov, F.G. Yusupova, V.P. Yur'ev), 375

Silylenes, photolysis with allyl ethyl ether of (M. Ishikawa, S. Katayama, M. Kumada), 251

Sodium

Alkali metal derivatives of octamethyltrisiladiazane, short Na—C contacts in the

molecular structure of the disodium salt (D.J. Brauer, H. Bürger, W. Geschwandtner, G.R. Liewald, C. Krüger), 1

Sulphur

t-Bu₂PN=S=NP-t-Bu₂, fragmentation in addition reactions to osmium clusters of; synthesis, solid state structure and dynamic properties of $\text{Os}_3(\text{CO})_{11}$ -[P-t-Bu₂(NH₂)] and $\text{HOs}_3(\text{CO})_9$ [P-t-Bu₂N(H)S] (W. Ehrenreich, M. Herberhold, G. Süß-Fink, H.-P. Klein, U. Thewalt), 171

Copper(I) borohydride, reduction of CO_2 , CS_2 and COS by; X-ray crystal structure of [(triphos)Cu(O₂CH)] (C. Bianchini, C.A. Ghilardi, A. Meli, S. Midollini, A. Orlandini), C13

Methylcyclopentadienylchromium(III) sulphide diamagnetic tetramer and anti-ferromagnetic copper(II) bromide adduct of the tetranuclear cluster $(\text{MeC}_5\text{H}_4)_4\text{Cr}_4(\mu_3\text{-O})(\mu_3\text{-S})_3$, synthesis and molecular structures of (A.A. Pasynskii, I.L. Eremenko, Yu.V. Rakitin, V.M. Novotortsev, O.G. Ellert, V.T. Kalinnikov, V.E. Shklover, Yu.T. Struchkov, S.V. Lindeman, T.Kh. Kurbanov, G.Sh. Gasanov), 309

Multidentate ligand stabilised metal carbonyl cluster complexes, reactions with phosphines and immobilisation on silica or organic polymers of (D.F. Foster, J. Harrison, B.S. Nicholls, A.K. Smith), C29

[Nb($\eta^5\text{-C}_5\text{H}_5$)₂{PS₂(OR)₂}₂], EPR study of the electronic structure of; formation of derivatives by cleavage of S—S bonds in (J. Sala-Pala, J.-L. Migot, J.E. Guerschais, L. Le Gall, F. Grosjean), 299

Octa-t-butyltetrastannachalcogen cyclic compounds, preparation and structure of (H. Puff, A. Bongartz, W. Schuh, R. Zimmer), 61

Tin and mercury thiophenolate charge transfer complexes with tetracyanoethylene, electron absorption spectroscopy of (P.G. Sennikov, A.A. Tumanov, A.N. Egorochkin, D.N. Kravtsov, L.S. Golovchenko, S.I. Pombrik), 17

Tellurium

Octa-t-butyltetrastannachalcogen cyclic compounds, preparation and structure of (H. Puff, A. Bongartz, W. Schuh, R. Zimmer), 61

Tin

- η^3 -Allylmonocyanotricarbonyl metalate and η^3 -allylmononitriletricarbonyl-manganese and -rhenium, formation of (M. Moll, H. Behrens, H.-J. Seibold, P. Merbach), 329
- Crotyltri-n-butylstannane, hydrogen transfer to carbon radicals from (G.E. Keck, J.B. Yates), C21
- 2,6-Dimethoxybenzoquinone and substituted pyrazines, ESR study of regioselective addition of Group IVB organometallic radicals to (A. Alberti, G.F. Pedulli), 261
- Manganese and rhenium η^3 -allyl complexes, ^{13}C NMR spectra of (M. Moll, H.-J. Seibold), 343
- Methyltin chlorides in carbon tetrachloride and water, UV degradation of (S.J. Blunden), 149
- Octa-t-butyltetrastannachalcogen cyclic compounds, preparation and structure of (H. Puff, A. Bongartz, W. Schuh, R. Zimmer), 61
- Tin and mercury thiophenolate charge transfer complexes with tetracyanoethylene, electron absorption spectroscopy of (P.G. Sennikov, A.A. Tumanov, A.N. Egorochkin, D.N. Kravtsov, L.S. Golovchenko, S.I. Pombrik), 17

Titanium

- $[(\text{C}_5\text{H}_5)_2\text{TiCl}]_2/\text{LiAlH}_4$ catalytic system in aromatic solvents, ESR study of formation of titanocene hydride complexes (K. Mach, H. Antropiusová), 287

Tungsten

- 2-Cyano-2-triphenylphosphoranylidene dithioacetic acid and its alkyl esters, coordination chemistry, IR and NMR spectroscopic investigations of (U. Kunze, R. Merkel, M. Moll), 205
- Dicyclopentadienyl-molybdenum and -tungsten dihydrides, reactions with octacarbonyldicobalt and nonacarbonyl-diiron forming ionic heteronuclear complexes of (Y. Mugnier, C. Moise), C33

Book reviews

- Extended linear chain compounds, Vol. 3; edited by J.S. Miller (K.R. Seddon), C5
- Gas chromatography of organometallic compounds; by T.R. Crompton (C.F. Simpson), C6
- Organotransition metal chemistry: Application to organic synthesis; by S.G. Davies (J.W. Cornforth), C36
- Transition metal chemistry; edited by G.A. Melson and B.N. Figgis (M.F. Lappert), C4