

Subject Index of Volume 529

- Ab initio calculations**
Experimental and molecular orbital calculational study of the stereoselective Horner–Wittig reaction with phosphine oxides: control of stereoselectivity by lithium (D.R. Armstrong, D. Barr, M.G. Davidson, G. Hutton, P. O'Brien, R. Snaith and S. Warren), 29
- Ab initio**
Cycloaddition reactions between 2*H*-phosphole and phosphaketene: ab initio examination of [2 + 2] and [4 + 2] pathways (U. Salzner and S.M. Bachrach), 15
- Acetals**
New chiral phosphetanes: synthesis and use in the palladium-catalyzed allylic alkylation (A. Marinetti, V. Kruger and L. Ricard), 465
- Acylphosphane**
Synthesis and reactivity of *P*-ferrocenylalkylidenephosphanes and related iminophosphanes and diphosphenes (R. Pietschnig, E. Niecke, M. Nieger and K. Airola), 127
- Aldehyde**
Synthesis of bowl-shaped dendrimers from generation 1 to generation 8 (N. Launay, A.-M. Caminade and J.P. Majoral), 51
- Alkene**
Facile syntheses and interconversions between simple phosphiranium and phosphirenium salts (D.C.R. Hockless, M.A. McDonald, M. Pabel and S.B. Wild), 189
- Alkenylphosphines**
Synthesis and structure of cyclic phosphine–boranes (H. Schmidbaur, M. Sigl and A. Schier), 323
- Alkylidenephosphane**
Synthesis and reactivity of *P*-ferrocenylalkylidenephosphanes and related iminophosphanes and diphosphenes (R. Pietschnig, E. Niecke, M. Nieger and K. Airola), 127
- Alkyne**
Facile syntheses and interconversions between simple phosphiranium and phosphirenium salts (D.C.R. Hockless, M.A. McDonald, M. Pabel and S.B. Wild), 189
- Amidines**
A stereoselective process for the preparation of novel phosphoalkylphosphinates (F.H. Ebetino and J.D. Berk), 135
- Aminocarbene complex**
Synthese und Strukturen von *N*-Bis(diisopropylamino)phosphanyl-substituierten Aminocarbenkomplexen der Metalle Chrom, Molybdän und Wolfram (R. Streubel, M. Hobbold, J. Jeske, F. Ruthe und P.G. Jones), 351
- Arsenide**
New examples of lanthanide(II) phosphides and arsenides with planar coordination at the heteroatom: crystal structures of [(Mesityl)₂P]₂Sm(THF)₄ and of [(Mesityl)₂As]₂Sm(THF)₄ (F. Nief and L. Ricard), 357
- Asymmetric synthesis**
Asymmetric synthesis of (*S,S*)-(+)-1,1'-bis-(methyl-phenyl-phosphino) ferrocene (E.B. Kaloun, R. Merdès, J.-P. Genêt, J. Uziel and S. Jugé), 455
- Aza-allyl**
The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry (P.B. Hitchcock, M.F. Lappert and M. Layh), 243
- Azaphosphoranes**
Synthesis of nickel phenyl complexes with new chelating κ²-*P,N* ligands derived from α-iminoazatriphenylphosphoranes (P. Braunstein, J. Pietsch, Y. Chauvin, A. DeCian and J. Fischer), 387
- Bis(azides)**
An efficient preparation of macrocycles containing two tetra-coordinate phosphorus atoms (P. Molina, M. Alajarín, A. Arques, P. Sánchez-Andrada, A. Vidal and M.V. Vinader), 121
- Biscycloalkylenephosphites**
Resorcinol bis(cyclophosphites) (E.E. Nifantsev, E.N. Rasadkina, L.K. Vasyanina, V.K. Belsky and A.I. Stash), 171
- Bis(phosphines)**
An efficient preparation of macrocycles containing two tetra-coordinate phosphorus atoms (P. Molina, M. Alajarín, A. Arques, P. Sánchez-Andrada, A. Vidal and M.V. Vinader), 121
- Bisphosphinic acids**
A stereoselective process for the preparation of novel phosphoalkylphosphinates (F.H. Ebetino and J.D. Berk), 135
- Bisphosphonates**
A stereoselective process for the preparation of novel phosphoalkylphosphinates (F.H. Ebetino and J.D. Berk), 135
- Bone affinity**
A stereoselective process for the preparation of novel phosphoalkylphosphinates (F.H. Ebetino and J.D. Berk), 135
- Borabicyclononane**
Synthesis and structure of cyclic phosphine–boranes (H. Schmidbaur, M. Sigl and A. Schier), 323
- Borane**
Use of new chiral tricoordinated phosphorus borane complexes in enantioselective borane reduction of ketones: complexes structure and mechanistic studies (J.-M. Brunel, O. Chiodi, B. Faure, F. Fotiadu and G. Buono), 285
- 1,2-Boraphosphacycloalkanes**
Synthesis and structure of cyclic phosphine–boranes (H. Schmidbaur, M. Sigl and A. Schier), 323
- Bromodifluorophosphonate**
A useful magnesium reagent for the preparation of 1,1-difluoro-2-hydroxyphosphonates from diethyl bromodifluoromethylphosphonate via a metal–halogen exchange reaction (R. Waschbüsch, M. Samadi and P. Savignac), 267
- Bromophosphoalkene**
Palladium(0) mediated coupling of bromophosphoalkenes with Grignard reagents (M. Van der Sluis, A. Klootwijk, J.B.M. Wit, F. Bickelhaupt, N. Veldman, A.L. Spek and P.W. Jolly), 107
- tert-Butylphosphoacetylene**
Homo-Diels–Alder reactions of 2,4,6-tri-*tert*-butyl-1,3,5-triphosphadewar-benzene (P. Binger, S. Leininger, M. Regitz, U. Bergsträßer, J. Bruckmann and C. Krüger), 215

Cage compound

Cleavage of an acyclic P_5 ligand into P_4P_1 and P_3P_2 molecular building blocks (O.J. Scherer, T. Mohr and G. Wolmershäuser), 379

Carbene

The fluorine effect on the stability of phosphalkenes, phosphasilenes, oxophosphane, thioxophosphane and their rearranged isomers (M.T. Nguyen, A. Van Keer and L.G. Vanquickenborne), 3

Carbonyls

N-(*N'*,*N'*,*N''*,*N''*-tetramethyl)guanidine-substituted phosphines as monodentate, bidentate or tridentate ligands in transition metal chemistry (J. Münchenberg, A.K. Fischer, H. Thönnessen, P.G. Jones and R. Schmutzler), 361

Cascade molecule

Synthesis of bowl-shaped dendrimers from generation 1 to generation 8 (N. Launay, A.-M. Caminade and J.P. Majoral), 51

Catalysis

Chiral atropisomeric five-membered biheteroaromatic diphosphines: new ligands of the bibenzimidazole and biindole series (T. Benincori, E. Brenna, F. Sannicolò, L. Trimarco, P. Antognazza, E. Cesarotti, F. Demartin, T. Pilati and G. Zotti), 445

New chiral phosphetanes: synthesis and use in the palladium-catalyzed allylic alkylation (A. Marinetti, V. Kruger and L. Ricard), 465

Chalcogenoxophosphonium halides

Bis(ylide)-substituted phosphonium and phosphonium halides (A. Schmidpeter, G. Jochem, C. Klinger, C. Robl and H. Nöth), 87

(P, N)-chelates

Synthesis of nickel phenyl complexes with new chelating κ^2 -*P, N* ligands derived from α -iminoazatriphenylphosphoranes (P. Braunstein, J. Pietsch, Y. Chauvin, A. DeCian and J. Fischer), 387

Chirality

Nucleophilic displacement routes to *P*-chiral phosphines; the introduction of sterically encumbered groups (J.M. Brown and J.C.P. Laing), 435

Chiral ligands

Asymmetric synthesis of (*S,S*)-(+)-1,1'-bis-(methyl-phenyl-phosphino) ferrocene (E.B. Kaloun, R. Merdès, J.-P. Genêt, J. Uziel and S. Jugé), 455

Chlorophosphine

Asymmetric synthesis of (*S,S*)-(+)-1,1'-bis-(methyl-phenyl-phosphino) ferrocene (E.B. Kaloun, R. Merdès, J.-P. Genêt, J. Uziel and S. Jugé), 455

Cluster

Cleavage of an acyclic P_5 ligand into P_4P_1 and P_3P_2 molecular building blocks (O.J. Scherer, T. Mohr and G. Wolmershäuser), 379

Conformation

Conformational diastereoisomerism in *tris*-(2-alkylimino) triphenylphosphines (M.R. Whitnall, K.K. Hii, M. Thornton-Pett and T.P. Kee), 35

Coordination chemistry

Transition metal-substituted phosphalkenes and acylphosphanes. XXIX. Metallophosphalkene (η^5 - C_5Me_5) $(CO)_2FeP=C(NMe_2)_2$, a versatile molecule in coordination chemistry (L. Weber, O. Kaminski, B. Quasdorff, H.-G. Stammer and B. Neumann), 329

Coordination geometry

N-(*N'*,*N'*,*N''*,*N''*-tetramethyl)guanidine-substituted phosphines as monodentate, bidentate or tridentate ligands in transition metal chemistry (J. Münchenberg, A.K. Fischer, H. Thönnessen, P.G. Jones and R. Schmutzler), 361

Crystal structure

Bis- and tetrakis-(diphenylphosphino)tetrathiafulvalenes as precursors of redox-active organic-inorganic polymeric networks (M. Four-

migué, C.E. Uzelmeier, K. Boubekur, S.L. Bartley and K.R. Dunbar), 343

Chiral atropisomeric five-membered biheteroaromatic diphosphines: new ligands of the bibenzimidazole and biindole series (T. Benincori, E. Brenna, F. Sannicolò, L. Trimarco, P. Antognazza, E. Cesarotti, F. Demartin, T. Pilati and G. Zotti), 445

Diphosphabenzenes V. 5,5'-(1, ω -Alkanediyl)-bis(λ^5 -[1,3]diphosphinines). A new ethynyl- λ^5 -[1,3]diphosphinine (E. Fluck, G. Heckmann, E. Gorbunowa, M. Westerhausen and F. Weller), 223

Facile syntheses and interconversions between simple phosphiranium and phosphirenium salts (D.C.R. Hockless, M.A. McDonald, M. Pabel and S.B. Wild), 189

Phosphalkene derivatives of furane and thiophene: synthesis, crystal structure, electrochemistry and EPR study of their radical anions (A. Jouaiti, A. Al Badri, M. Geoffroy and G. Bernardinelli), 143

Synthese und Strukturen von *N*-Bis(diisopropylamino)phosphanyl-substituierten Aminocarbenkomplexen der Metalle Chrom, Molybdän und Wolfram (D.C.R. Streubel, M. Hobbold, J. Jeske, F. Ruthe und P.G. Jones), 351

The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry (P.B. Hitchcock, M.F. Lappert and M. Layh), 243

Cuprate addition

Facile and stereoselective synthesis of vinylphosphonates (H.-J. Cristau, X. Yangkou Mbianda, Y. Beziat and M.-B. Gasc), 301

[5 + 2] Cycloaddition

Reactivity of dihydrodiazaphosphinines towards unsaturated substrates: addition, [5 + 2] cycloaddition and rearrangement processes (J. Barluenga, M. Tomás, K. Bieger, S. García-Granda and R. Santiago-García), 233

Cycloaddition

Synthesis, structure and isomerization of fluorine-containing 1,2-dihydro-1,3-diphosphetes (J. Grobe, D. Le Van, B. Broschek, M. Hege-mann, B. Lüth, G. Becker, M. Böhringer and E.-U. Würthwein), 177

Cyclopentadienyl

Cleavage of an acyclic P_5 ligand into P_4P_1 and P_3P_2 molecular building blocks (O.J. Scherer, T. Mohr and G. Wolmershäuser), 379

Cyclotriphosphazene

Synthesis of bowl-shaped dendrimers from generation 1 to generation 8 (N. Launay, A.-M. Caminade and J.P. Majoral), 51

Dendrimer

Synthesis of bowl-shaped dendrimers from generation 1 to generation 8 (N. Launay, A.-M. Caminade and J.P. Majoral), 51

Deuterium

Kinetic and isotope effect studies on the intermediacy of ethyl metathio-phosphate in ethanolysis of *O*-ethyl *N*-1-adamantyl phosphoramidothioate (S. Jankowski, L.D. Quin, P. Paneth and M.H. O'Leary), 23

Diazaphosphinines

Reactivity of dihydrodiazaphosphinines towards unsaturated substrates: addition, [5 + 2] cycloaddition and rearrangement processes (J. Barluenga, M. Tomás, K. Bieger, S. García-Granda and R. Santiago-García), 233

Diels-Alder reaction

Cycloaddition reactions between 2*H*-phosphole and phosphaketene: ab initio examination of [2 + 2] and [4 + 2] pathways (U. Salzner and S.M. Bachrach), 15

1,1-Difluoro-2-hydroxyphosphonate

A useful magnesium reagent for the preparation of 1,1-difluoro-2-hydroxyphosphonates from diethyl bromodifluoromethylphosphonate via a metal-halogen exchange reaction (R. Waschbüsch, M. Samadi and P. Savignac), 267

- 1,2-Dihydro-1,3-diphosphetes
 Synthesis, structure and isomerization of fluorine-containing 1,2-dihydro-1,3-diphosphetes (J. Grobe, D. Le Van, B. Broschk, M. Hegemann, B. Lüth, G. Becker, M. Böhringer and E.-U. Würthwein), 177
- 1,2-Dihydro-1,2-diphosphetes
 Synthesis, structure and isomerization of fluorine-containing 1,2-dihydro-1,3-diphosphetes (J. Grobe, D. Le Van, B. Broschk, M. Hegemann, B. Lüth, G. Becker, M. Böhringer and E.-U. Würthwein), 177
- 2-Diphenylphosphino-1,3-diphospholide ions
 2-Diphenylphosphino-1,3-diphospholide anions (C. Charrier, N. Maigrot and F. Mathey), 69
- 1,3-Diphosphacyclopent-4-ene
 2-Diphenylphosphino-1,3-diphospholide anions (C. Charrier, N. Maigrot and F. Mathey), 69
- 1,3-Diphospha-ferrocene
 2-Diphenylphosphino-1,3-diphospholide anions (C. Charrier, N. Maigrot and F. Mathey), 69
- Diphosphane
 Synthesis and reactivity of *P*-ferrocenylalkylidenephosphanes and related iminophosphanes and diphosphenes (R. Pietschnig, E. Niecke, M. Nieger and K. Airola), 127
 Synthesis of 1-phosphinophospholes and their tungstenpentacarbonyl complexes (D. Schmidt, S. Krill, B. Wang, F.R. Fronczek and K. Lammertsma), 197
- Diphosphane tungsten complex
 Synthesis of 1-phosphinophospholes and their tungstenpentacarbonyl complexes (D. Schmidt, S. Krill, B. Wang, F.R. Fronczek and K. Lammertsma), 197
- Diphosphene
 Synthesis and reactivity of *P*-ferrocenylalkylidenephosphanes and related iminophosphanes and diphosphenes (R. Pietschnig, E. Niecke, M. Nieger and K. Airola), 127
- Diphosphete
 Diphosphabenzenes V. 5,5'-(1,ω-Alkanediyl)-bis{λ⁵-[1,3]diphosphinines}. A new ethynyl-λ⁵-[1,3]diphosphinine (E. Fluck, G. Heckmann, E. Gorbunowa, M. Westerhausen and F. Weller), 223
- Diphosphine
 Molybdenum carbonyl complexes of di- and triphosphines: hydrophosphination reactions of (HC≡CCH₂PPh₂)Mo(CO)₅ (K. Maitra, V.J. Catalano and J.H. Nelson), 409
- Diphosphines
 Chiral atropisomeric five-membered biheteroaromatic diphosphines: new ligands of the bibenzimidazole and biindole series (T. Benincori, E. Brenna, F. Sannicolò, L. Trimarco, P. Antognazza, E. Cesarotti, F. Demartin, T. Pilati and G. Zotti), 445
- Diphosphinines
 Diphosphabenzenes V. 5,5'-(1,ω-Alkanediyl)-bis{λ⁵-[1,3]diphosphinines}. A new ethynyl-λ⁵-[1,3]diphosphinine (E. Fluck, G. Heckmann, E. Gorbunowa, M. Westerhausen and F. Weller), 223
- 1,3-Diphospholide anions
 2-Diphenylphosphino-1,3-diphospholide anions (C. Charrier, N. Maigrot and F. Mathey), 69
- Dynamics
 Conformational diastereoisomerism in *tris*-(2-alkylimino) triphenylphosphines (M.R. Whitnall, K.K. Hii, M. Thornton-Pett and T.P. Kee), 35
- Electrochemistry
 Electrochemical investigations on phospho ferrocenes (R. Bartsch, S. Datsenko, N.V. Ignatiev, C. Müller, J.F. Nixon and C.J. Pickett), 375
- Phosphaalkene derivatives of furane and thiophene: synthesis, crystal structure, electrochemistry and EPR study of their radical anions (A. Jouaiti, A. Al Badri, M. Geoffroy and G. Bernardinelli), 143
- Electron spin resonance
 Phosphaalkene derivatives of furane and thiophene: synthesis, crystal structure, electrochemistry and EPR study of their radical anions (A. Jouaiti, A. Al Badri, M. Geoffroy and G. Bernardinelli), 143
- Enantioselective
 Use of new chiral tricoordinated phosphorus borane complexes in enantioselective borane reduction of ketones: complexes structure and mechanistic studies (J.-M. Brunel, O. Chiodi, B. Faure, F. Fotiadu and G. Buono), 285
- Ethylene insertion
 Synthesis of nickel phenyl complexes with new chelating κ²-*P,N* ligands derived from α-aminoazatriphenylphosphoranes (P. Braunstein, J. Pietsch, Y. Chauvin, A. DeCian and J. Fischer), 387
- Ferrocene
 Asymmetric synthesis of (*S,S*)-(+)-1,1'-bis-(methyl-phenyl-phosphino) ferrocene (E.B. Kaloun, R. Merdès, J.-P. Genêt, J. Uziel and S. Jugé), 455
 Synthesis and reactivity of *P*-ferrocenylalkylidenephosphanes and related iminophosphanes and diphosphenes (R. Pietschnig, E. Niecke, M. Nieger and K. Airola), 127
- Fizaphosphirene
 Synthese und Strukturen von *N*-Bis(diisopropylamino)phosphanyl-substituierten Aminocarbenkomplexen der Metalle Chrom, Molybdän und Wolfram (R. Streubel, M. Hobbold, J. Jeske, F. Ruthe und P.G. Jones), 351
- Fluorine
 The fluorine effect on the stability of phosphaalkenes, phosphasilenes, oxophosphane, thioxophosphane and their rearranged isomers (M.T. Nguyen, A. Van Keer and L.G. Vanquickenborne), 3
- Fluorophosphaalkene
 Synthesis, structure and isomerization of fluorine-containing 1,2-dihydro-1,3-diphosphetes (J. Grobe, D. Le Van, B. Broschk, M. Hegemann, B. Lüth, G. Becker, M. Böhringer and E.-U. Würthwein), 177
- Functionalised triphenylphosphines
 Conformational diastereoisomerism in *tris*-(2-alkylimino) triphenylphosphines (M.R. Whitnall, K.K. Hii, M. Thornton-Pett and T.P. Kee), 35
- Grignard reagent
 Palladium(0) mediated coupling of bromophosphaalkenes with Grignard reagents (M. Van der Sluis, A. Klootwijk, J.B.M. Wit, F. Bickelhaupt, N. Veldman, A.L. Spek and P.W. Jolly), 107
- Group 15
 Phosphinomethanides and Group 15 element halides: redox reactions, rearrangements and novel heterocycles (H.H. Karsch and E. Witt), 151
 Synthesis of bowl-shaped dendrimers from generation 1 to generation 8 (N. Launay, A.-M. Caminade and J.P. Majoral), 51
- Group 6
 Synthese und Strukturen von *N*-Bis(diisopropylamino)phosphanyl-substituierten Aminocarbenkomplexen der Metalle Chrom, Molybdän und Wolfram (R. Streubel, M. Hobbold, J. Jeske, F. Ruthe und P.G. Jones), 351
- Group 6 transition metal
 Migratory insertion reaction of a phosphonium ligand into Mo- and W-alkyl bonds (H. Nakazawa, M. Kishishita, S. Yoshinaga, Y. Yamaguchi, T. Mizuta and K. Miyoshi), 423
- Halogen
 A useful magnesium reagent for the preparation of 1,1-difluoro-2-hydroxyphosphonates from diethyl bromodifluoromethylphospho-

- nate via a metal-halogen exchange reaction (R. Waschbüsch, M. Samadi and P. Savignac), 267
- Helical chirality**
Conformational diastereoisomerism in *tris*-(2-alkylimino) triphenylphosphines (M.R. Whitnall, K.K. Hii, M. Thornton-Pett and T.P. Kee), 35
- Heterocycles**
Phosphinomethanides and Group 15 element halides: redox reactions, rearrangements and novel heterocycles (H.H. Karsch and E. Witt), 151
The versatile behavior of a 1,2λ⁵-azaphosphete towards protic nucleophiles (G. Bouhadir, K. Bieger, P. Livotto, R. Réau, H. Gornitzka, F. Dahan and G. Bertrand), 79
- Heterocyclic phosphines**
Chiral atropisomeric five-membered biheteroaromatic diphosphines: new ligands of the bibenzimidazole and biindole series (T. Benincori, E. Brenna, F. Sannicolò, L. Trimarco, P. Antognazza, E. Cesarotti, F. Demartin, T. Pilati and G. Zotti), 445
- Heteropolycycles**
Reactivity of dihydrodiazaphosphinines towards unsaturated substrates: addition, [5 + 2] cycloaddition and rearrangement processes (J. Barluenga, M. Tomás, K. Bieger, S. García-Granda and R. Santiago-García), 233
- Hexacoordinated phosphonium salt**
N → P intramolecular stabilization of phosphonium ions and preparation of hypercoordinated phosphanes with unusual properties (F. Carré, C. Chuit, R.J.P. Corriu, A. Mehdi and C. Reyé), 59
- Homo-Diels-Alder reaction**
Homo-Diels-Alder reactions of 2,4,6-tri-*tert*-butyl-1,3,5-triphosphadewar-benzene (P. Binger, S. Leininger, M. Regitz, U. Bergsträßer, J. Bruckmann and C. Krüger), 215
- Horner-Wittig reaction**
Experimental and molecular orbital calculational study of the stereoselective Horner-Wittig reaction with phosphine oxides: control of stereoselectivity by lithium (D.R. Armstrong, D. Barr, M.G. Davidson, G. Hutton, P. O'Brien, R. Snaith and S. Warren), 29
- Hydriodic acid**
Regenerative role of the red phosphorus in the couple 'HI_{aq}/P_{red}' (D. Albouy, G. Etemad-Moghadam, M. Vinatoru and M. Koenig), 295
- Hydroboration**
P-H bond activation of primary phosphine-boranes: access to α-hydroxy and α,α'-dihydroxyphosphine-borane adducts by uncatalyzed hydrophosphination of carbonyl derivatives (K. Bourmeau, A.-C. Gaumont and J.-M. Denis), 205
Synthesis and structure of cyclic phosphine-boranes (H. Schmidbaur, M. Sigl and A. Schier), 323
- Hydrogenation**
Facile and stereoselective synthesis of vinylphosphonates (H.-J. Cristau, X. Yangkou Mbianda, Y. Beziat and M.-B. Gasc), 301
Regenerative role of the red phosphorus in the couple 'HI_{aq}/P_{red}' (D. Albouy, G. Etemad-Moghadam, M. Vinatoru and M. Koenig), 295
- Hydrophosphination**
Molybdenum carbonyl complexes of di- and triphosphines: hydrophosphination reactions of (HC≡CCH₂PPh₂)Mo(CO)₅ (K. Maitra, V.J. Catalano and J.H. Nelson), 409
P-H bond activation of primary phosphine-boranes: access to α-hydroxy and α,α'-dihydroxyphosphine-borane adducts by uncatalyzed hydrophosphination of carbonyl derivatives (K. Bourmeau, A.-C. Gaumont and J.-M. Denis), 205
- α-Hydroxyalkylphosphine-boranes**
P-H bond activation of primary phosphine-boranes: access to α-hydroxy and α,α'-dihydroxyphosphine-borane adducts by uncatalyzed hydrophosphination of carbonyl derivatives (K. Bourmeau, A.-C. Gaumont and J.-M. Denis), 205
- Hypercoordinated phosphane**
N → P intramolecular stabilization of phosphonium ions and preparation of hypercoordinated phosphanes with unusual properties (F. Carré, C. Chuit, R.J.P. Corriu, A. Mehdi and C. Reyé), 59
- Iminophosphane**
Synthesis and reactivity of *P*-ferrocenylalkylidene phosphanes and related iminophosphanes and diphosphenes (R. Pietschnig, E. Niecke, M. Nieger and K. Airola), 127
- Iminophosphoranes**
Reactivity of dihydrodiazaphosphinines towards unsaturated substrates: addition, [5 + 2] cycloaddition and rearrangement processes (J. Barluenga, M. Tomás, K. Bieger, S. García-Granda and R. Santiago-García), 233
- Iron**
Cleavage of an acyclic P₅ ligand into P₄P₁ and P₃P₂ molecular building blocks (O.J. Scherer, T. Mohr and G. Wolmershäuser), 379
Electrochemical investigations on phospho ferrocenes (R. Bartsch, S. Datsenko, N.V. Ignatiev, C. Müller, J.F. Nixon and C.J. Pickett), 375
- Isocyanides**
Transition metal-substituted phosphalkenes and acylphosphanes. XXIX. Metallophosphaalkene (η⁵-C₅Me₅)(CO)₂FeP=C(NMe₂)₂, a versatile molecule in coordination chemistry (L. Weber, O. Kaminski, B. Quasdorff, H.-G. Stammer and B. Neumann), 329
- Isomerism**
Synthese und Strukturen von *N*-Bis(diisopropylamino)phosphanyl-substituierten Aminocarbenkomplexen der Metalle Chrom, Molybdän und Wolfram (R. Streubel, M. Hobbold, J. Jeske, F. Ruthe und P.G. Jones), 351
- Isomerization**
Synthesis, structure and isomerization of fluorine-containing 1,2-dihydro-1,3-diphosphetes (J. Grobe, D. Le Van, B. Broschk, M. Hege mann, B. Lüth, G. Becker, M. Böhringer and E.-U. Würthwein), 177
- Isopropylmagnesium chloride**
A useful magnesium reagent for the preparation of 1,1-difluoro-2-hydroxyphosphonates from diethyl bromodifluoromethylphosphonate via a metal-halogen exchange reaction (R. Waschbüsch, M. Samadi and P. Savignac), 267
- Isotope effect**
Kinetic and isotope effect studies on the intermediacy of ethyl metathio phosphate in ethanolysis of *O*-ethyl *N*-1-adamantyl phosphoramidothioate (S. Jankowski, L.D. Quin, P. Paneth and M.H. O'Leary), 23
- Ketones**
Use of new chiral tricoordinated phosphorus borane complexes in enantioselective borane reduction of ketones: complexes structure and mechanistic studies (J.-M. Brunel, O. Chiodi, B. Faure, F. Fotiadu and G. Buono), 285
- Kinetic trap**
Cyclobutanone as an electrophile for lithiated phosphine oxides: 'internal quench' conditions (C. Guéguen, P. O'Brien, S. Warren and P. Wyatt), 279
- Lithiated phosphine oxides**
Experimental and molecular orbital calculational study of the stereoselective Horner-Wittig reaction with phosphine oxides: control of stereoselectivity by lithium (D.R. Armstrong, D. Barr, M.G. Davidson, G. Hutton, P. O'Brien, R. Snaith and S. Warren), 29

Lithium

- Cyclobutanone as an electrophile for lithiated phosphine oxides: 'internal quench' conditions (C. Guéguen, P. O'Brien, S. Warren and P. Wyatt), 279
- The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry (P.B. Hitchcock, M.F. Lappert and M. Layh), 243

Macrocyclic bis(iminophosphoranes)

- An efficient preparation of macrocycles containing two tetra-coordinate phosphorus atoms (P. Molina, M. Alajarín, A. Arques, P. Sánchez-Andrada, A. Vidal and M.V. Vinader), 121

Metal carbonyls

- Transition metal-substituted phosphalkenes and acylphosphanes. XXIX. Metallaphosphaalkene ($\eta^5\text{-C}_5\text{Me}_5$)(CO)₂FeP=C(NMe₂)₂, a versatile molecule in coordination chemistry (L. Weber, O. Kaminski, B. Quasdorff, H.-G. Stammer and B. Neumann), 329

Metal-halogen exchange

- A useful magnesium reagent for the preparation of 1,1-difluoro-2-hydroxyphosphonates from diethyl bromodifluoromethylphosphonate via a metal-halogen exchange reaction (R. Waschbüsch, M. Samadi and P. Savignac), 267

Metallocenes

- Electrochemical investigations on phospho ferrocenes (R. Bartsch, S. Datsenko, N.V. Ignatiev, C. Müller, J.F. Nixon and C.J. Pickett), 375

Metallocomplexes

- Resorcinol bis(cyclophosphites) (E.E. Nifantsev, E.N. Rasadkina, L.K. Vasyanina, V.K. Belsky and A.I. Stash), 171

Metallaphosphaalkene

- Transition metal-substituted phosphalkenes and acylphosphanes. XXIX. Metallaphosphaalkene ($\eta^5\text{-C}_5\text{Me}_5$)(CO)₂FeP=C(NMe₂)₂, a versatile molecule in coordination chemistry (L. Weber, O. Kaminski, B. Quasdorff, H.-G. Stammer and B. Neumann), 329

Metal phosphides

- Synthesis of (fluorosilyl)phosphido iron and nickel complexes and ferrosilyl-substituted (fluorosilyl)phosphanes and evidence for the formation of a metallo phosphasilene of the type [M]-P=SiR₂ (M. Driess, H. Pritzkow and U. Winkler), 313

Metathiophosphate

- Kinetic and isotope effect studies on the intermediacy of ethyl metathiophosphate in ethanolysis of O-ethyl N-1-adamantyl phosphoramidothioate (S. Jankowski, L.D. Quin, P. Paneth and M.H. O'Leary), 23

Microwave heating

- Regenerative role of the red phosphorus in the couple 'HI_{aq}/P_{red}' (D. Albouy, G. Etemad-Moghadam, M. Vinatoru and M. Koenig), 295

Migratory insertion reaction

- Migratory insertion reaction of a phosphonium ligand into Mo- and W-alkyl bonds (H. Nakazawa, M. Kishishita, S. Yoshinaga, Y. Yamaguchi, T. Mizuta and K. Miyoshi), 423

Molecular orbital calculations

- The fluorine effect on the stability of phosphalkenes, phosphasilenes, oxophosphane, thioxophosphane and their rearranged isomers (M.T. Nguyen, A. Van Keer and L.G. Vanquickenborne), 3

Molybdenum

- Molybdenum carbonyl complexes of di- and triphosphines: hydrophosphination reactions of (HC≡CCH₂PPh₂)Mo(CO)₅ (K. Maitra, V.J. Catalano and J.H. Nelson), 409

Multiple bonds

- Synthesis of (fluorosilyl)phosphido iron and nickel complexes and ferrosilyl-substituted (fluorosilyl)phosphanes and evidence for the formation of a metallo phosphasilene of the type [M]-P=SiR₂ (M. Driess, H. Pritzkow and U. Winkler), 313

N-15

- Kinetic and isotope effect studies on the intermediacy of ethyl metathiophosphate in ethanolysis of O-ethyl N-1-adamantyl phosphoramidothioate (S. Jankowski, L.D. Quin, P. Paneth and M.H. O'Leary), 23

N-cyanophosphinimines

- Synthesis of phosphinyl, thiophosphinyl and phosphonio guanidines (N. Inguibert, L. Jäger, M. Taillefer and H.-J. Cristau), 257

Ni(II) phenyl complexes

- Synthesis of nickel phenyl complexes with new chelating $\kappa^2\text{-P,N}$ ligands derived from α -iminoazatriphenylphosphoranes (P. Braunschtein, J. Pietsch, Y. Chauvin, A. DeCian and J. Fischer), 387

NMR

- Diphosphabenzene V. 5,5'-(1, ω -Alkanediyl)-bis(λ^5 -[1,3]diphosphinines). A new ethynyl- λ^5 -[1,3]diphosphinine (E. Fluck, G. Heckmann, E. Gorbunowa, M. Westerhausen and F. Weller), 223

- Neue Silicium- und Phosphor-haltige Käfigverbindungen mit Bicyclo[2.2.2]octan-Gerüst (O. Walter, M. Büchner and G. Hütner), 103

Nuclear magnetic resonance

- Molybdenum carbonyl complexes of di- and triphosphines: hydrophosphination reactions of (HC≡CCH₂PPh₂)Mo(CO)₅ (K. Maitra, V.J. Catalano and J.H. Nelson), 409

Organophosphorus-borane complexes

- Use of new chiral tricoordinated phosphorus borane complexes in enantioselective borane reduction of ketones: complexes structure and mechanistic studies (J.-M. Brunel, O. Chiodi, B. Faure, F. Fotiadu and G. Buono), 285

Oxazaphospholidine

- Nucleophilic displacement routes to P-chiral phosphines: the introduction of sterically encumbered groups (J.M. Brown and J.C.P. Laing), 435

Oxazaphospholidines

- Use of new chiral tricoordinated phosphorus borane complexes in enantioselective borane reduction of ketones: complexes structure and mechanistic studies (J.-M. Brunel, O. Chiodi, B. Faure, F. Fotiadu and G. Buono), 285

P-alkylation

- P-H bond activation of primary phosphine-boranes: access to α -hydroxy and α,α' -dihydroxyphosphine-borane adducts by uncatalyzed hydrophosphination of carbonyl derivatives (K. Bourumeau, A.-C. Gaumont and J.-M. Denis), 205

Palladium

- New chiral phosphinates: synthesis and use in the palladium-catalyzed allylic alkylation (A. Marinetti, V. Kruger and L. Ricard), 465

Palladium catalysis

- Palladium(0) mediated coupling of bromophosphalkenes with Grignard reagents (M. Van der Sluis, A. Klootwijk, J.B.M. Wit, F. Bickelhaupt, N. Veldman, A.L. Spek and P.W. Jolly), 107

Palladium complexes

- Chiral atropisomeric five-membered biheteroaromatic diphosphines: new ligands of the bibenzimidazole and biindole series (T. Benincori, E. Brenna, F. Sannicolò, L. Trimarco, P. Antognazza, E. Cesarotti, F. Demartin, T. Pilati and G. Zotti), 445

P-P bond formation

- Phosphinomethanides and Group 15 element halides: redox reactions, rearrangements and novel heterocycles (H.H. Karsch and E. Witt), 151

P-C bond activation

- Synthesis of nickel phenyl complexes with new chelating $\kappa^2\text{-P,N}$ ligands derived from α -iminoazatriphenylphosphoranes (P. Braunschtein, J. Pietsch, Y. Chauvin, A. DeCian and J. Fischer), 387

Phosphaalkene

Phosphaalkene derivatives of furane and thiophene: synthesis, crystal structure, electrochemistry and EPR study of their radical anions (A. Jouaiti, A. Al Badri, M. Geoffroy and G. Bernardinelli), 143

Phosphaalkenes

Palladium(0) mediated coupling of bromophosphaalkenes with Grignard reagents (M. Van der Sluis, A. Klootwijk, J.B.M. Wit, F. Bickelhaupt, N. Veldman, A.L. Spek and P.W. Jolly), 107

Phosphaalkynes

Synthesis, structure and isomerization of fluorine-containing 1,2-dihydro-1,3-diphosphetes (J. Grobe, D. Le Van, B. Broschk, M. Hegemann, B. Lüth, G. Becker, M. Böhringer and E.-U. Würthwein), 177

Phosphaketene

Cycloaddition reactions between 2*H*-phosphole and phosphaketene: ab initio examination of [2 + 2] and [4 + 2] pathways (U. Salzner and S.M. Bachrach), 15

Phosphazenes

The versatile behavior of a 1,2λ⁵-azaphosphete towards protic nucleophiles (G. Bouhadir, K. Bieger, P. Livotto, R. Réau, H. Gornitzka, F. Dahan and G. Bertrand), 79

Phosphonium halides

Bis(ylide)-substituted phosphonium and phosphonium halides (A. Schmidpeter, G. Jochem, C. Klinger, C. Robl and H. Nöth), 87

Phosphonium ligand

Migratory insertion reaction of a phosphonium ligand into Mo- and W-alkyl bonds (H. Nakazawa, M. Kishishita, S. Yoshinaga, Y. Yamaguchi, T. Mizuta and K. Miyoshi), 423

Phosphetane

New chiral phosphetanes: synthesis and use in the palladium-catalyzed allylic alkylation (A. Marinetti, V. Kruger and L. Ricard), 465

Phosphetidine

The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry (P.B. Hitchcock, M.F. Lappert and M. Layh), 243

Phosphide

New examples of lanthanide(II) phosphides and arsenides with planar coordination at the heteroatom: crystal structures of [(Mesityl)₂P]₂Sm(THF)₄ and of [(Mesityl)₂As]₂Sm(THF)₄ (F. Nief and L. Ricard), 357

Phosphine

Synthese und Strukturen von *N*-Bis(diisopropylamino)phosphanyl-substituierten Aminocarbenkomplexen der Metalle Chrom, Molybdän und Wolfram (R. Streubel, M. Hobbold, J. Jeske, F. Ruthe und P.G. Jones), 351

Phosphine boranes

Asymmetric synthesis of (*S,S*)-(+)-1,1'-bis-(methyl-phenyl)-phosphino ferrocene (E.B. Kaloun, R. Merdès, J.-P. Genêt, J. Uziel and S. Jugé), 455

Phosphine-boranes

Synthesis and structure of cyclic phosphine-boranes (H. Schmidbaur, M. Sigl and A. Schier), 323

Phosphines

Bis- and tetrakis-(diphenylphosphino)tetrathiafulvalenes as precursors of redox-active organic-inorganic polymeric networks (M. Fourmigué, C.E. Uzelmeier, K. Boubekeur, S.L. Bartley and K.R. Dunbar), 343

Phosphinidene

The fluorine effect on the stability of phosphaalkenes, phosphasilenes, oxophosphane, thioxophosphane and their rearranged isomers (M.T. Nguyen, A. Van Keer and L.G. Vanquickenborne), 3

Phosphinocarbene complex

Transition metal-substituted phosphaalkenes and acylphosphanes. XXIX. Metallophosphaalkene (η⁵-C₅Me₅)(CO)₂FeP=C(NMe₂)₂,

a versatile molecule in coordination chemistry (L. Weber, O. Kaminski, B. Quasdorff, H.-G. Stammer and B. Neumann), 329

bis-(Phosphino)methanide ion

2-Diphenylphosphino-1,3-diphospholide anions (C. Charrier, N. Maigrot and F. Mathey), 69

Phosphinomethanides

Phosphinomethanides and Group 15 element halides: redox reactions, rearrangements and novel heterocycles (H.H. Karsch and E. Witt), 151

Phosphinophosphole

Synthesis of 1-phosphinophospholes and their tungstenpentacarbonyl complexes (D. Schmidt, S. Krill, B. Wang, F.R. Fronczek and K. Lammertsma), 197

Phosphinophosphole tungsten complex

Synthesis of 1-phosphinophospholes and their tungstenpentacarbonyl complexes (D. Schmidt, S. Krill, B. Wang, F.R. Fronczek and K. Lammertsma), 197

Phosphinyl guanidines

Synthesis of phosphinyl, thiophosphinyl and phosphonio guanidines (N. Inguimbert, L. Jäger, M. Taillefer and H.-J. Cristau), 257

Phosphiranium

Facile syntheses and interconversions between simple phosphiranium and phosphirenium salts (D.C.R. Hockless, M.A. McDonald, M. Pabel and S.B. Wild), 189

Phosphirenium

Facile syntheses and interconversions between simple phosphiranium and phosphirenium salts (D.C.R. Hockless, M.A. McDonald, M. Pabel and S.B. Wild), 189

Phosphole

[2 + 2] Photocycloadditions of [(η⁵-C₅H₅)Ru(DMPP)₂L]PF₆ complexes (H.-I. Ji, J.H. Nelson, A. DeCian, J. Fischer, B. Li, C. Wang, B. McCarty, Y. Aoki, J.W. Kenney III, L. Solujic' and E.B. Milosavljevic'), 395

Cycloaddition reactions between 2*H*-phosphole and phosphaketene: ab initio examination of [2 + 2] and [4 + 2] pathways (U. Salzner and S.M. Bachrach), 15

Phospholyl

A triphospholyl-substituted phosphine (A.H. Cowley, S.M. Dennis, S. Kamepalli, C.J. Carrano and M.R. Bond), 75

Phosphonates

Facile and stereoselective synthesis of vinylphosphonates (H.-J. Cristau, X. Yangkou Mbianda, Y. Beziat and M.-B. Gasc), 301

Phosphonio guanidines

Synthesis of phosphinyl, thiophosphinyl and phosphonio guanidines (N. Inguimbert, L. Jäger, M. Taillefer and H.-J. Cristau), 257

Phosphonium salt

The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry (P.B. Hitchcock, M.F. Lappert and M. Layh), 243

Phosphonium ylides

Bis(ylide)-substituted phosphonium and phosphonium halides (A. Schmidpeter, G. Jochem, C. Klinger, C. Robl and H. Nöth), 87

Phosphonoalkylphosphinates

A stereoselective process for the preparation of novel phosphonoalkylphosphinates (F.H. Ebetino and J.D. Berk), 135

Phosphorhydrazide

Synthesis of bowl-shaped dendrimers from generation 1 to generation 8 (N. Launay, A.-M. Caminade and J.P. Majoral), 51

Phosphoric acid

A useful magnesium reagent for the preparation of 1,1-difluoro-2-hydroxyphosphonates from diethyl bromodifluoromethylphosphonate via a metal-halogen exchange reaction (R. Waschbüsch, M. Samadi and P. Savignac), 267

Phosphorus

Cleavage of an acyclic P₅ ligand into P₄IP₁ and P₃IP₂ molecular

- building blocks (O.J. Scherer, T. Mohr and G. Wolmershäuser), 379
- Cyclobutanone as an electrophile for lithiated phosphine oxides: 'internal quench' conditions (C. Guéguen, P. O'Brien, S. Warren and P. Wyatt), 279
- Electrochemical investigations on phospho ferrocenes (R. Bartsch, S. Datsenko, N.V. Ignatiev, C. Müller, J.F. Nixon and C.J. Pickett), 375
- Nucleophilic displacement routes to P-chiral phosphines; the introduction of sterically encumbered groups (J.M. Brown and J.C.P. Laing), 435
- The fluorine effect on the stability of phosphalkenes, phosphasilenes, oxophosphane, thioxophosphane and their rearranged isomers (M.T. Nguyen, A. Van Keer and L.G. Vanquickenborne), 3
- The role of lithium 1,3-bis(trimethylsilyl)-1-aza-allyls in phosphorus chemistry (P.B. Hitchcock, M.F. Lappert and M. Layh), 243
- The versatile behavior of a 1,2λ⁵-azaphosphete towards protic nucleophiles (G. Bouhadir, K. Bieger, P. Livotto, R. Réau, H. Gornitzka, F. Dahan and G. Bertrand), 79
- Phosphorus chemistry
- Synthesis of 1-phosphinophospholes and their tungstenpentacarbonyl complexes (D. Schmidt, S. Krill, B. Wang, F.R. Fronczek and K. Lammertsma), 197
- Phosphorus (red)
- Regenerative role of the red phosphorus in the couple 'HI_{aq}/P_{red}' (D. Albouy, G. Etemad-Moghadam, M. Vinatoru and M. Koenig), 295
- Phosphorus stereochemistry
- Asymmetric synthesis of (S,S)-(+)-1,1'-bis-(methyl-phenyl-phosphino) ferrocene (E.B. Kaloun, R. Merdès, J.-P. Genêt, J. Uziel and S. Jugé), 455
- Phosphorus ylides
- Phosphinomethanides and Group 15 element halides: redox reactions, rearrangements and novel heterocycles (H.H. Karsch and E. Witt), 151
- Synthesis of nickel phenyl complexes with new chelating κ²-P,N ligands derived from α-iminoazatriphenylphosphoranes (P. Braunstein, J. Pietsch, Y. Chauvin, A. DeCian and J. Fischer), 387
- Phosphorylation
- Resorcinol bis(cyclophosphites) (E.E. Nifantsev, E.N. Rasadkina, L.K. Vasyanina, V.K. Belsky and A.I. Stash), 171
- [2 + 2] Photocycloaddition
- [2 + 2] Photocycloadditions of [(η⁵-C₅H₅)Ru(DMPP)₂L]PF₆ complexes (H.-I. Ji, J.H. Nelson, A. DeCian, J. Fischer, B. Li, C. Wang, B. McCarty, Y. Aoki, J.W. Kenney III, L. Solujic' and E.B. Milosavljevic'), 395
- Pincer ligand
- N → P intramolecular stabilization of phosphonium ions and preparation of hypercoordinated phosphanes with unusual properties (F. Carré, C. Chuit, R.J.P. Corriu, A. Mehdi and C. Reyé), 59
- Polycyclic phosphorus-carbon compounds
- Homo-Diels-Alder reactions of 2,4,6-tri-*tert*-butyl-1,3,5-triphosphadewar-benzene (P. Binger, S. Leininger, M. Regitz, U. Bergsträßer, J. Bruckmann and C. Krüger), 215
- Polymers
- Bis- and tetrakis-(diphenylphosphino)tetrathiafulvalenes as precursors of redox-active organic-inorganic polymeric networks (M. Fourmigué, C.E. Uzelmeier, K. Boubekeur, S.L. Bartley and K.R. Dunbar), 343
- Primary phosphine-boranes
- P-H bond activation of primary phosphine-boranes: access to α-hydroxy and α,α'-dihydroxyphosphine-borane adducts by uncatalyzed hydrophosphination of carbonyl derivatives (K. Bourmeau, A.-C. Gaumont and J.-M. Denis), 205
- Radical anion
- Phosphaalkene derivatives of furane and thiophene: synthesis, crystal structure, electrochemistry and EPR study of their radical anions (A. Jouaiti, A. Al Badri, M. Geoffroy and G. Bernardinelli), 143
- Rearrangement
- Reactivity of dihydrodiazaphosphinines towards unsaturated substrates: addition, [5 + 2] cycloaddition and rearrangement processes (J. Barluenga, M. Tomás, K. Bieger, S. García-Granda and R. Santiago-García), 233
- Rearrangements
- The versatile behavior of a 1,2λ⁵-azaphosphete towards protic nucleophiles (G. Bouhadir, K. Bieger, P. Livotto, R. Réau, H. Gornitzka, F. Dahan and G. Bertrand), 79
- Redox reactions
- Phosphinomethanides and Group 15 element halides: redox reactions, rearrangements and novel heterocycles (H.H. Karsch and E. Witt), 151
- Reduction
- Use of new chiral tricoordinated phosphorus borane complexes in enantioselective borane reduction of ketones: complexes structure and mechanistic studies (J.-M. Brunel, O. Chiodi, B. Faure, F. Fotiadu and G. Buono), 285
- Resorcinol
- Resorcinol bis(cyclophosphites) (E.E. Nifantsev, E.N. Rasadkina, L.K. Vasyanina, V.K. Belsky and A.I. Stash), 171
- Rhodium
- Bis- and tetrakis-(diphenylphosphino)tetrathiafulvalenes as precursors of redox-active organic-inorganic polymeric networks (M. Fourmigué, C.E. Uzelmeier, K. Boubekeur, S.L. Bartley and K.R. Dunbar), 343
- Samarium
- New examples of lanthanide(II) phosphides and arsenides with planar coordination at the heteroatom: crystal structures of [(Mesityl)₂P]₂Sm(THF)₄ and of [(Mesityl)₂As]₂Sm(THF)₄ (F. Nief and L. Ricard), 357
- Silicon
- Cyclobutanone as an electrophile for lithiated phosphine oxides: 'internal quench' conditions (C. Guéguen, P. O'Brien, S. Warren and P. Wyatt), 279
- Silicon-phosphorus compounds
- Synthesis of (fluorosilyl)phosphido iron and nickel complexes and ferrosilyl-substituted (fluorosilyl)phosphanes and evidence for the formation of a metallo phosphasilene of the type [M]-P=SiR₂ (M. Driess, H. Pritzkow and U. Winkler), 313
- Silylene
- The fluorine effect on the stability of phosphalkenes, phosphasilenes, oxophosphane, thioxophosphane and their rearranged isomers (M.T. Nguyen, A. Van Keer and L.G. Vanquickenborne), 3
- Small ring
- Facile syntheses and interconversions between simple phosphiranium and phosphirenium salts (D.C.R. Hockless, M.A. McDonald, M. Pabel and S.B. Wild), 189
- Sodium diphenylcyanamidophosphinates
- Synthesis of phosphinyl, thiophosphinyl and phosphonio guanidines (N. Inguibert, L. Jäger, M. Taillefer and H.-J. Cristau), 257
- Solid supported reactions
- Regenerative role of the red phosphorus in the couple 'HI_{aq}/P_{red}' (D. Albouy, G. Etemad-Moghadam, M. Vinatoru and M. Koenig), 295
- Solvent effects on ³¹P NMR
- Bis(ylide)-substituted phosphonium and phosphonium halides (A. Schmidpeter, G. Jochem, C. Klinger, C. Robl and H. Nöth), 87

Stabilized phosphonium ions

N → P intramolecular stabilization of phosphonium ions and preparation of hypercoordinated phosphanes with unusual properties (F. Carré, C. Chuit, R.J.P. Corriu, A. Mehdi and C. Reyé), 59

Staudinger reaction

An efficient preparation of macrocycles containing two tetra-coordinated phosphorus atoms (P. Molina, M. Alajarín, A. Arques, P. Sánchez-Andrada, A. Vidal and M.V. Vinader), 121

Cycloaddition reactions between 2*H*-phosphole and phosphaketene: ab initio examination of [2 + 2] and [4 + 2] pathways (U. Salzner and S.M. Bachrach), 15

Stereochemistry

Cyclobutanone as an electrophile for lithiated phosphine oxides: 'internal quench' conditions (C. Guéguen, P. O'Brien, S. Warren and P. Wyatt), 279

Stereoselectivity

Experimental and molecular orbital calculational study of the stereoselective Horner–Wittig reaction with phosphine oxides: control of stereoselectivity by lithium (D.R. Armstrong, D. Barr, M.G. Davidson, G. Hutton, P. O'Brien, R. Snaith and S. Warren), 29

Stereoselective synthesis

Facile and stereoselective synthesis of vinylphosphonates (H.-J. Cristau, X. Yangkou Mbianda, Y. Beziat and M.-B. Gasc), 301

Stereoselectivity

Nucleophilic displacement routes to P-chiral phosphines; the introduction of sterically encumbered groups (J.M. Brown and J.C.P. Laing), 435

Stille-coupling

Palladium(0) mediated coupling of bromophosphaalkenes with Grignard reagents (M. Van der Sluis, A. Klootwijk, J.B.M. Wit, F. Bickelhaupt, N. Veldman, A.L. Spek and P.W. Jolly), 107

Tantalum

Cleavage of an acyclic P₅ ligand into P₄|P₁ and P₃|P₂ molecular building blocks (O.J. Scherer, T. Mohr and G. Wolmershäuser), 379

Tetraphosphine

A triphospholyl-substituted phosphine (A.H. Cowley, S.M. Dennis, S. Kamepalli, C.J. Carrano and M.R. Bond), 75

Tetrathiafulvalene

Bis- and tetrakis-(diphenylphosphino)tetrathiafulvalenes as precursors of redox-active organic–inorganic polymeric networks (M. Fourmigué, C.E. Uzelmeier, K. Boubekeur, S.L. Bartley and K.R. Dunbar), 343

Thiophosphinyl guanidines

Synthesis of phosphinyl, thiophosphinyl and phosphonio guanidines (N. Inguibert, L. Jäger, M. Taillefer and H.-J. Cristau), 257

Tin–phosphorus compounds

Synthesis of (fluorosilyl)phosphido iron and nickel complexes and ferrosilyl-substituted (fluorosilyl)phosphanes and evidence for the formation of a metallo phosphasilene of the type [M]–P=SiR₂ (M. Driess, H. Pritzkow and U. Winkler), 313

Transition metal chemistry

N-(*N'*,*N'*,*N''*,*N''*-tetramethyl)guanidine-substituted phosphines as monodentate, bidentate or tridentate ligands in transition metal chemistry (J. Münchenberg, A.K. Fischer, H. Thönnessen, P.G. Jones and R. Schmutzler), 361

1,3,5-Triphospha-Dewar-benzene

Homo-Diels–Alder reactions of 2,4,6-tri-*tert*-butyl-1,3,5-triphospha-Dewar-benzene (P. Binger, S. Leininger, M. Regitz, U. Bergsträßer, J. Bruckmann and C. Krüger), 215

Triphosphinosilane

Neue Silicium- und Phosphor-haltige Käfigverbindungen mit Bicyclo[2.2.2]octan-Gerüst (O. Walter, M. Büchner und G. Huttner), 103

Tripodal

Neue Silicium- und Phosphor-haltige Käfigverbindungen mit Bicyclo[2.2.2]octan-Gerüst (O. Walter, M. Büchner und G. Huttner), 103

Tri-*tert*-butylazete

Homo-Diels–Alder reactions of 2,4,6-tri-*tert*-butyl-1,3,5-triphospha-Dewar-benzene (P. Binger, S. Leininger, M. Regitz, U. Bergsträßer, J. Bruckmann and C. Krüger), 215

Vinylphosphonates

Facile and stereoselective synthesis of vinylphosphonates (H.-J. Cristau, X. Yangkou Mbianda, Y. Beziat and M.-B. Gasc), 301

X-ray

Nucleophilic displacement routes to P-chiral phosphines; the introduction of sterically encumbered groups (J.M. Brown and J.C.P. Laing), 435

Synthesis of 1-phosphinophospholes and their tungstenpentacarbonyl complexes (D. Schmidt, S. Krill, B. Wang, F.R. Fronczek and K. Lammertsma), 197

X-ray diffraction analysis

Resorcinol bis(cyclophosphites) (E.E. Nifant'ev, E.N. Rasadkina, L.K. Vasyanina, V.K. Belsky and A.I. Stash), 171

X-ray structure

A triphospholyl-substituted phosphine (A.H. Cowley, S.M. Dennis, S. Kamepalli, C.J. Carrano and M.R. Bond), 75

X-ray structure investigations

Bis(ylide)-substituted phosphonium and phosphonium halides (A. Schmidpeter, G. Jochem, C. Klinger, C. Robl and H. Nöth), 87