

Contents of Volume 670

Special Issue: Recent Developments in Metal Alkynyl Organometallic Chemistry

Preface	1
Review	
Cluster compounds containing a linear carbon chain derived from polyynediyl and polyynyl complexes, $Fp^*-(C\equiv C)_n-X$ [$X = Fp^*, H; Fp^* = Fe(\eta^5-C_5Me_5)(CO)_2$] M. Akita, A. Sakurai, M.-C. Chung, Y. Moro-oka	2
Regular Papers	
Luminescent properties of carbon-rich starburst gold(I) acetylide complexes. Crystal structure of $[TEE][Au(PCy_3)]_4$ ($[TEE]H_4 =$ tetraethynylethene) W. Lu, N. Zhu, C.-M. Che	11
New ferrocenyl heterometallic complexes of 2,7-diethynylfluoren-9-one W.-Y. Wong, K.-Y. Ho, K.-H. Choi	17
Macrocyclic gold(I) complexes and [2]catenanes containing carbonyl functionalized diacetylide ligands F. Mohr, D.J. Eisler, C.P. McArdle, K. Atieh, M.C. Jennings, R.J. Puddephatt	27
Synthesis of ruthenium acetylides: new building blocks for molecular electronics S. Rigaut, J. Perruchon, L. Le Pichon, D. Touchard, P.H. Dixneuf	37
Heterobimetallic platinum–copper and platinum–silver transition metal complexes based on <i>cis</i> - $[Pt](C\equiv CPh)_2$: an overview H. Lang, A. del Villar	45
Organometallic complexes for nonlinear optics: Part 31. Cubic hyperpolarizabilities of ferrocenyl-linked gold and ruthenium complexes S.K. Hurst, M.G. Humphrey, J.P. Morrall, M.P. Cifuentes, M. Samoc, B. Luther-Davies, G.A. Heath, A.C. Willis	56
η^1 -Alkynyl and vinylidene transition metal complexes: 10. Reaction of the metal-acetylide $[(\eta^5-C_5H_5)(CO)(NO)W-C\equiv C-C(CH_3)_3]Li$ with 1,2-diiodoethane as electrophile and with various nucleophiles J. Ipaktschi, K. Reimann, M. Serafin, A. Dülmer	66
Synthesis of indenyl-ruthenium(II) σ -alkynyl complexes via nucleophilic addition of (1 <i>R</i>)-(+)- and (1 <i>S</i>)-(–)-camphor enolates on the allenylidene group of $[Ru(=C=C=CPh_2)(\eta^5-C_9H_7)(PPh_3)_2][PF_6]$: Efficient synthesis of novel optically pure vinylidene derivatives V. Cadierno, M. Pilar Gamasa, J. Gimeno, E. Pérez-Carreño, S. García-Granda	75
Titanocene and zirconocene σ -alkynyl complexes in C–C single bond coupling and cleavage reactions U. Rosenthal, P. Arndt, W. Baumann, V.V. Burlakov, A. Spannenberg	84
Et_2SiH_2 assisted the selective dimerization of terminal alkynes catalyzed by $Cp_2^*UMe_2$ J.Q. Wang, M.S. Eisen	97
Versatile reactions of a <i>para</i> -bromophenylacetylide iron(II) derivative and X-ray structure of the fluoro analogue. Synthesis of new redox-active organoiron(II) synthons J. Courmarcel, G. Le Gland, L. Toupet, F. Paul, C. Lapinte	108
Synthesis and reactivity of alkynyl niobocene complexes A. Antiñolo, C. García-Yebra, M. Fajardo, I. del Hierro, C. López-Mardomingo, I. López-Solera, A. Otero, Y. Pérez, S. Prashar	123
Palladium–iminophosphine-catalyzed homocoupling of alkynylstannanes and other organostannanes using allyl acetate or air as an oxidant E. Shirakawa, Y. Nakao, Y. Murota, T. Hiyama	132

Long-lived higher excited state luminescence from new ruthenium(II)–allenylidene complexes J. van Slageren, R.F. Winter, A. Klein, S. Hartmann	137
Reactivity of metal acetylides with chalcogen-bridged metal carbonyl cluster in presence of free alkyne molecule: synthesis and characterisation of $[(\eta^5\text{-C}_5\text{Me}_5)\text{MFe}_3(\mu_3\text{-S})\{\mu_3\text{-C(H)=C(R)S}\}(\text{CO})_6(\mu_3\text{-CCPh})]$ (R = Ph, <i>n</i> -Bu and M = W, Mo) and $[(\eta^5\text{-C}_5\text{Me}_5)\text{MFe}_3(\mu_3\text{-S})\{\mu_3\text{-C(Fc)=C(H)S}\}(\text{CO})_7(\mu_3\text{-CCPh})]$ (M = W, Mo) P. Mathur, A.K. Bhunia, C. Srinivasu, S.M. Mobin	144
1,4-Diynes from alkynyl–propargyl coupling reactions C. Tedeschi, C. Saccavini, L. Maurette, M. Soleilhavoup, R. Chauvin	151
A new approach to the synthesis of carbon chains capped by metal clusters M.I. Bruce, M.E. Smith, N.N. Zaitseva, B.W. Skelton, A.H. White	170
A simple synthesis of tetraethynylethenes and representative molecular structures of some dicobalt derivatives O.F. Koentjoro, P. Zuber, H. Puschmann, A.E. Goeta, J.A.K. Howard, P.J. Low	178
Homo-dinuclear σ -alkynyl complexes: past, present and opportunities S.K. Hurst, T. Ren	188
Reactions of metalloalkynes VII. Protonation of ruthenium ethyne-1,2-diyl complexes C.S. Griffith, G.A. Koutsantonis, B.W. Skelton, A.H. White	198
Synthesis, electrochemistry and structural characterization of luminescent rhenium(I) monoynyl complexes and their homo- and hetero-metallic binuclear complexes V.W.-W. Yam, K.M.-C. Wong, S.H.-F. Chong, V.C.-Y. Lau, S.C.-F. Lam, L. Zhang, K.-K. Cheung	205
Synthesis, structures and photophysics of novel luminescent platinum–copper complexes I. Ara, J.R. Berenguer, E. Eguizábal, J. Forniés, J. Gómez, E. Lalinde	221
Structural varieties in double salts of silver acetylide containing ancillary anions and terminal ligands Q.-M. Wang, G.-C. Guo, T.C.W. Mak	235
Synthesis and characterization of trimetallic complexes with a borazine core Q. Hu, M.F. Lo, I.D. Williams, N. Koda, Y. Uchamaru, G. Jia	243
Organometallic complexes for nonlinear optics: Part 32: Synthesis, optical spectroscopy and theoretical studies of some osmium alkynyl complexes J.P. Morrall, C.E. Powell, R. Stranger, M.P. Cifuentes, M.G. Humphrey, G.A. Heath	248
Author Index of Volume 670	257
Subject Index of Volume 670	259
Contents of Volume 670	263