

分析センター機器使用研究業績 (1998.10～1999.9)

A. 元素・質量分析分野

質量分析装置(GC/MS,Q-MS)、示差熱分析装置 (TG/DTA) 高分解能 ICP 質量分析装置、ICP 発光分光装置
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K.Okuma,S.Kuge,Y.Koga,K.Shioji,H.Wakita,and T.Machiguchi

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Heterocycles,**48**,1519-1522(1998)

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Ketene Recognizes 1,3-Dienes in Their s-Cis Forms through [4+2](Diels-Alder)and [2+2]
(Staudinger)Reactions.An Innovation of Ketene Chemistry
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S.Inagaki,H.Shitara,T.Hirose and H.Nohira

Optical resolution of 3-hydroxy-4-butanolide and in application

Enantiomer,**3**,187–189(1998).

S.Ohshima,T.Matsumoto,Y.Aoki,T.Hirose,A.Miyashita and H.Nohira

Synthesis of optically active 2,2'-bis(dicyclopentylphosphino)-6,6'-dimethylbiphenyl

(BICPEP) and its application to asymmetric hydrogenation

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Resolution of sclareolide as a key intermediate for the synthesis of Ambrox

Tetrahedron:Asymmetry,**9**,3819–3823(1998).

Y.Aoki and H.Nohira

Anovel liquid crystal showing antiferroelectric C* and twist grain bundary phases
Liquid Crystals,26(1),97–100(1999).

S.Yoshida,M.Yamamoto,Y.Aoki and H.Nohira

Therapeutic agent treating Dysuria(NC–1800):absolute configuration of the enantionmers
Chirality,11,256–260(1999).

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Chromogenic Receptors:Versatility of the Colorimetric Recognizing Behavior
J.Inclusion Phenom.Mol.Recognit.Chem.,1998,**32**,235–249

Yuji Kubo

Binaphthyl–appended Chromogenic Receptors:Sythesis and Application to their
ColorimetricRecognition of Amines
Synlett,1999,161–174

Yuji Kubo,Yasuaki Murai,Jun–ichi Yamanaka,Sumio Tokita,and Yoshihiro Isimaru

A New Biphenyl–20–crown–6–derived Zinc(II)Porphyein Dimer with Potentially Heterotropic
Allostery
Tetrahedron Lett.,1999,**40**,6019–6023

I. Miyashita, K. Matsumoto, M. Kobayashi, Akira Nagasawa, J. Nakayama

Synthesis and crystal structure of a dinuclear platinum(II) bis(N,
N–diethylamino)carbenium–dithiocarboxylate complex $\text{Pt}_2\{\text{a}-(\text{Et}_2\text{N})_2\text{C}_2\text{S}_2\}_2\text{Cl}_4 \cdot 0.5\text{CH}_2\text{Cl}_2$:
Structural study of the coordinated inner–salt
Inorg. Chim. Acta, **283**, 256–259 (1998).

M. Watanabe, M. Sato, A. Nagasawa, M. Kai, I. Motoyama, T. Takayama

A better synthesis of biruthenocene and molecular structures of
 $[\text{Ru}^{\text{II}}\text{Cp}(\text{C}_5\text{H}_4\text{C}_5\text{H}_4)\text{CpRu}^{\text{IV}}\text{NCC}_2\text{H}_5](\text{BF}_4)(\text{B}_2\text{F}_7)\text{CH}_3\text{NO}_2$,
 $[\text{Ru}^{\text{II}}\text{Cp}(2,2\text{-bipyridine})(\text{p-benzoquinone})]\text{BF}_4$ and related salts.
Bull. Chem. Soc. Jpn., **72**, 715–723 (1999).

S. Koner, S. Iijima, F. Mizutani, K. Harata, M. Watanabe, A. Nagasawa, M. Sato

Fe(III)–azido complex with tetragonally compressed octahedral FeN_6 geometry:Synthesis,
spectroscopic and X–ray single crystal analysis of $[\text{Fe}(\text{cyclam})(\text{N}_3)_2](\text{ClO}_4)$.
Polyhedron, **18**, 2201–2204 (1999).

B. 磁気共鳴分析分野

超伝導核磁気共鳴装置

(AM400,ARX400,AC300P,AC200)

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C. X線解析分野

X線回折装置(18K(縦型、横型)、RAD-B)、蛍光X線分析
4軸型単結晶X線構造解析装置(3K、18K、18K 迅速型)

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Cyanoglycosylation products of 17-O-acetyltestosterone.

Carbohydrate Research, **310**, 239-252 (1998)

M.Watanabe,M.Sato,A.Nagasawa,M.Kai,I.Motoyama,T.Takayama

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$[\text{Ru}^{\text{II}}\text{Cp}(\text{C}_5\text{H}_4\text{C}_5\text{H}_4)\text{CpRu}^{\text{IV}}\text{NCC}_2\text{H}_5](\text{BF}_4)(\text{B}_2\text{F}_7)\text{CH}_3\text{NO}_2$,

$[\text{Ru}^{\text{II}}\text{Cp}(2,2\text{-bipyridine})(p\text{-benzoquinone})]\text{BF}_4$ and related salts.

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