

分析センター機器使用研究業績(1995.10~1996.9)

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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H.Narasaki and J.Y.Cao

Determination of Arsenic and Selenium in River Water by Hydride Generation ICP-AES

At.Spectrosc.,**17**,77-82(1996)

H.Narasaki and J.Y.Cao

Determination of Arsenic and Selenium in River Water by Hydride Generation Inductively Coupled Plasma-Mass Spectrometry

Anal.Sci.,**12**,623-627(1996)

J.Nakayama,A.Mizumura,Y.Yokomori,A.Krebs and K.Schutz

m-Chloroperbenzoic Acid Oxidation of 1,2-Dithietes:First Synthesis and Characterization of 1,2-Dithiete *S*-Oxides and Ethane-1,2-dithione *S,S'*-Dioxides (α -Disulfines)

Tetrahedron Lett.,1995,**36**,8583-8586

K.Masaki,K.Akimoto,A.Ishii,S.Kumakura and J.Nakayama

Reaction of 1,1-Bis(diethylamino)-2-chloroethylene with Carbon Disulfide:Formation of Bis[3,3-bis(diethylamino)thioacryloyl]Disulfide

Sulfur Lett.,1995,**19**,73-83

J.Nakayama,H.Dong,K.Sawada,A.Ishii and S.Kumakura

Synthesis and Characterization of Dimers,Trimers,and Tetramers of 3,6-Dimethylthieno[3,2-*b*]thiophene and 3,6-Dimethylseleno[3,2-*b*]selenophene

Tetrahedron,1996,**52**,471-488

J.Nakayama,T.Matsui,Y.Sugihara,A.Ishii and S.Kumakura

First Synthesis of Selenophene 1,1-Dioxides

Chem.,Lett.,**1996**,269-270

J.Nakayama,A.Kimata,H.Taniguchi and F.Takahashi

Reactions of 1,3-Benzodithiole-2-thione and Related Compounds with Benzyne Generated from 2-Carboxybenzenediazonium Chloride:Preparation of Novel Bicyclic Sulfonium Salts by Trapping 1,3-Dipolar Cycloaddition Intermediates

J.Chem.,Soc.,Chem.Commun.,**1996**,205-206

A.Ishii,K.Maeda,M.Kodachi,N.Aoyagi,K.Kato,T.Maruta,M.Hoshino and J.Nakayama
Syntheses and Chemical and Physical Properties of Thiophenetnptycenes
J.Chem.Soc.,Perkin Trans.1,1996,1277–1286

J.Nakayama,A.Kimata,H.Taniguchi and F.Takahashi
Reactions of Benzyne with 1,3-Benzodithiole-2-thione and Related
Compounds:Formation of Novel Bicyclic Sulfonium Salts and Reactions Leading to
Dibenzo-1,3,5-trithiocin Derivatives
Bull.Chem.Soc.Jpn.,1996,69,2349–2354

A.Ishii,M.Hoshino and J.Nakayama
Recent Advances in Chemistry of Dithiirane and Small Ring Compounds Containing
Two Chalcogen Atoms
Pure Appl.Chem.,1996,68,869–874

T.Aida,A.Nagasawa and J.Tsunetsugu
o-Pleiadienequinones.Part 5. 1,3-Dipolar Cycloaddition of o-Pleiadienequinone and
Acenaphthylene-1,2-quinone with Benzonitrile Sulfide: Formation of a
Bi(pleiadienyldiene)dione and a Bi(acenaphthylidene)dione
J.Chem.Research(S),1996,8–9
J.Chem.Research(M),1996,169–196

T.Abe,T.Yoshida,S.Tokita,F.Taguchi,H.Imaya and M.Kaneko
Factors Affecting Electrocatalytic CO₂ Reduction with Cobalt Phthalocyanine
Incorporated into Poly(4-vinylpyridine) Coated on Graphite Electrode
J.Electroanal.Chem.,412,125(1996)

T.Abe,F.Taguchi,T.Yoshida,S.Tokita,D.Schelettwein,D.Wohrle and M.Kaneko
Electrocatalytic CO₂ Reduction by Cobalt Octabutoxyphthalocyanine Coated on
Graphite Electrode
J.Mol.Catal.A:Chemistry,in press(1996)

T.Abe,H.Imaya,S.Tokita,D.Wohrle and M.Kaneko
Photoelectrochemical Proton Reduction with Coated Zinc Tetraphenylporphyrine
Dispersed Poly(4-vinylpyridine) Membrane
J.Porphyrines and Phthalocyanines,in press(1996)

時田澄男, 蛭田公広

Precise Pariser-Parr-Pople molecular orbital calculations using new- γ -A novel
guiding principle for the design of functional materials
Macromolecular Symposia,105,257(1996)

時田澄男, 蛭田公広

Molecular design of polycyclic aromatic hydrocarbons based on precise PPP
molecular orbital calculations

Journal of Photopolymer Science and Technology,**9**,73(1996)

時田澄男, 蛭田公広

Precise PPP molecular orbital calculations of excitation energies of polycyclic
aromatic hydrocarbons.Part 2.Evaluation of the spectrochemical softness parameter
based on the spectroactive partial structure of a molecule

Dyes and Pigments,**31**,309(1996)

M.Yamamoto,Y.Takayanagi,S.Nihashi,Y.Nomura and H.Nohira

Bevantolol hydrochloride(NC-1400):Absolute configuration and direct separation of
the enantiomers

Chirality,**7**,572(1995)

Y.Aoki and H.Nohira

Novel antiferroelectric liquid crystals with a trifluoromethyl group at the chiral center

Ferroelectrics,**178**,213(1996)

H.Liu and H.Nohira

Synthesis and mesomorphic properties of fluorinated liquid crystals obtained from
optically active 2-fluoro-octanol

Liquid Crystals,**20**,581(1996)

T.Machiguchi,Y.Wada,T.Hasegawa,S.Yamabe,T.Minato and T. Nozoe

A Novel Synthesis of Trienes by Nucleophilic Ring Cleavage of Tropone Oxime
Tosylate

J.Am.Chem.Soc.,**117**,1258-1264(1995)

T.Machiguchi

Synthesis and Isolation of Trophothione:A Comparative Study of Spectral Property
with Tropone

Tetrahedron,**51**,1133-1142(1995)

T.Minato,S.Yamabe,T.Hasegawa and T.Machiguchi

Trophothione versus Tropone:A Comparison of the Charge Separation in the Ground
State

Tetrahedron,**51**,2507-2514(1995)

K.Okuma,K.Ikari,H.Ohta and T.Machiguchi

Reaction of Vinylphosphonium Salts with Sulfoxonium Ylides. Synthesis of
Cyclopropylphosphonium Salts

Bull.Chem.Soc.Jpn.,**68**,2313-2317(1995)

S.Yamabe,T.Dai,T.Minato,T.Machiguchi and T.Hasegawa

Ketene Is a Dienophile for[4+2](Diels–Alder)Reactions across Its C=O Bond

J.Am.Chem.Soc.,**118**,6518–6519(1996)

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Why Are the Troponoid Rings of the Mesylate and Tosylate of Tropone Oxime Cleaved Easilyby Nucleophiles?

Tetrahedron,**52**,8439–8450(1996)

B. 磁気共鳴分析分野 超伝導核磁気共鳴装置(AM400,AC300P,AC200)
核磁気共鳴装置(FX-90Q)

I.Shibuya,M.Goto,A.Oishi,T.Tsuchiya,Y.Taniguchi and J.Nakayama

Preparation of 2,4-Dialkylidene-1,3-dithietanes from Ynamines and Carbon Disulfide

Heterocycles,1995,**41**,1935–1938

J.Nakayama,A.Mizumura,Y.Yokomori,A.Krebs and K.Schutz

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K.Akimoto,K.Masaki and J.Nakayama

Cycloaddition of Bis[3,3-bis(diethylamino)thioacryloyl]Disulfide with Alkynic
Dienophiles;A New Access to Thiopyran-2-thione

Bull.Chem.Soc.Jpn.,1996,**69**,2091–2094

J.Nakayama,A.Kimata,H.Taniguchi and F.Takahashi

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Bull.Chem.Soc.Jpn.,1996,**69**,2349–2354

N.Yokonuma,Y.Furukawa,M.Tatsumi,M.Kuroda and J.Nakayama

Electronic Absorption and Raman Studies of BF_4^- -doped Polythiophenes Based on
the Spectra of the Radical Cation and Dication of α -Sexithiophene

Chem.Phys.Lett.,1996,**255**,431–436

A.Ishii,M.Hoshino and J.Nakayama

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M.Sato,E.Mogi and M.Katada

Synthesis and Oxidation of Platinum(II) Ferrocenylacetylide
Complexes,trans-[Pt(C \equiv CFc)(Ar)(Ph₃P)₂]

Organometallics,**14**,4837–4843(1995)

M.Sato and M.Asai

Synthetic Studies of Permethylcyclopentadienyl Ruthenium (II) Complexes Involving
Dppf, (\pm)-BINAP,and(\pm)DIOP Ligands

J.Organomet.Chem.,**508**,121–122(1996)

M.Sato and M.Mogi

Preparation and some Properties of Pt(II) Ruthenocenylic-acetylide Complexes

J. Organomet. Chem., **508**, 159–167 (1996)

M.Sato, Y.Hayashi, S.Kumakura, N.Shimizu, M.Kawada and S.Kawata
Synthesis and Oxidation of Iron(II) Ferrocenylacetylide Diphosphine Complexes. A
Novel Type of Mixed-Valence Complex
Organometallics, **15**, 721–728 (1996)

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Preparation and some Properties of Mn(I) Metallocenylacetylide and the Related
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J. Organomet. Chem., **517**, 1–7 (1996)

M.Sato, A.Kubo, Y.Kawata and H.Saitoh
A Structural Rearrangement on the Oxidation of 1,2-bis(ruthenocenyl)ethylene
Derivatives Leads to Unprecedented ($\mu - \eta^6, \eta^6$ -Pentafulvadiene)diruthenium
Complexes
J. Chem. Soc. Chem. Commun., 25–26 (1996)

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Factors Affecting Electrocatalytic CO₂ Reduction with Cobalt Phthalocyanine
Incorporated into Poly(4-vinylpyridine) Coated on Graphite Electrode
J. Electroanal. Chem., **412**, 125 (1996)

T.Abe, F.Taguchi, T.Yoshida, S.Tokita, D.Schelettwein, D.Wohrle and M.Kaneko
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Graphite Electrode
J. Mol. Catal. A: Chem., in press (1996)

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Photoelectrochemical Proton Reduction with Coated Zinc Tetraphenylporphyrine
Dispersed Poly(4-vinylpyridine) Membrane
J. PorphyTines and Phthalocyanines, in press (1996)

時田澄男, 蛭田公広
Precise Pariser-Parr-Pople molecular orbital calculations using new- γ -A novel
guiding principle for the design of functional materials
Macromolecular Symposia, **105**.257 (1996)

時田澄男, 蛭田公広
Molecular design of polycyclic aromatic hydrocarbons based on precise PPP
molecular orbital calculations
Journal of Photopolymer Science and Technology, **9**, 73 (1996)

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Precise PPP molecular orbital calculations of excitation energies of polycyclic aromatic hydrocarbons. Part 2. Evaluation of the spectrochemical softness parameter based on the spectroactive partial structure of a molecule
Dyes and Pigments, **31**, 309 (1996)

M. Yamamoto, Y. Takayanagi, S. Nishashi, Y. Nomura and H. Nohira
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Synthesis and structure of bis(dialkylamino)carbeniumdithiocarboxylates

Heteroatom Chem.,**6**,45–49(1995)

H.Nakazawa,Y.Yamaguchi,K.Miyoshi and A.Nagasawa

⁹⁵Mo NMR studies on cationic phosphonium complexes of molybdenum

Organometallics,**15**,2517–2522(1996)

C. X線解析分野

X線回折装置(RAD-B)、
4軸型単結晶X線構造解析装置

Y.Shibasaki,Z.Zhu and K.Fukuda

Formation of Thin Films of Comb-like Polymers Containing Fluorocarbon Chains in the Side Chains by the LB and Lift-up Methods

J.Nanjing Univ.(Natural Science Edition),**31**(Special issue)335–340(1995)

Y.Shibasaki,R.Horie,T.Takahashi and Y.Ichimura

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J.Chem.Soc.Chem.Comm.,25–26(1996)

平塚信之, 野澤雅之, 柿崎浩一

コバルトフェライト垂直磁化膜の磁気特性

日本応用磁気学会誌,Vol.19,Supplement,No.S2,pp.75–78,1995

平塚信之, 南山芳彦, 柿崎浩一

針状微粒子から作製した配向性マンガン亜鉛フェライト

粉体粉末冶金協会論文誌,Vol.43,No.1,pp.36–40,1996

平塚信之, 宮村猛史, 柿崎浩一

マンガン亜鉛フェライト膜の作製および磁気特性

粉体粉末冶金協会論文誌, Vol.43, No.1 pp.41-45, 1996

小林秀彦, 池田貴志, 三田村孝, 柿崎浩一, 平塚信之

各種雰囲気下での熱分解によるシュウ酸鉄からの磁性粉末の調製

粉体粉末冶金協会論文誌, Vol.43, No.1, pp.89-94, 1996

平塚信之, 野澤雅之, 柿崎浩一

垂直磁気記録用 $(\text{CoFe}_2\text{O}_4)$ - (Co-CoO) 複合膜の作製および磁気特性

日本応用磁気学会誌, Vol.20, No.2, pp.53-56, 1996

平塚信之, 柿崎浩一

rf スパッタ成膜後熱処理による Ba フェライト薄膜の作製と磁気特性

日本応用磁気学会誌, Vol.20, No.2, pp.313-316, 1996

D. 表面複合分析分野

表面複合分析装置(ESCA/AES)、分析走査電子顕微鏡

(S-4100, S-24000)、走査電子顕微鏡(T-100)、走査プローブ顕微鏡(SPM/AFM)

柿崎浩一, 平塚信之, 並河建

針状 $\text{BaCo}_x\text{Ti}_x\text{Fe}_{12-2x}\text{O}_{19}$ 微粒子の微細構造および磁気特性

日本応用磁気学会誌, Vol.19, Supplement, No.S2, pp.67-70, 1995

平塚信之, 野澤雅之, 柿崎浩一

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平塚信之, 鈴木聡, 柿崎浩一, 杉本光男

針状コバルトフェライト磁気テープの電磁変換特性
粉体粉末冶金協会論文誌,Vol.43,No,8,pp.951-954,1996

E. 分光分析分野

フーリエ変換赤外分光光度計(FT-IR)、走査顕微鏡 FT-IR(アイリス)、FT-IR ラマン

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