

生体高分子学講座

- Synthesis of binuclear copper (II) complexes with μ -oxamido, μ -oxamato, and μ -oxalato-bridge: Inorg. Chim. Acta, 41, 155-159 (1980); K. Nonoyama, H. Ojima, Kohsuke Ohki and M. Nonoyama
- 絹フィブロイン模型の機械的変性: (続) 絹糸の構造 (北条舒正編), 447-462 (1980); 近藤慶之, 早川忠男, 呉祐吉
- 家蚕絹フィブロイン結晶部分モデルの合成とその構造: (続) 絹糸の構造 (北条舒正編), 417-434 (1980); 早川忠男, 近藤慶之, 山本浩之, 野口順蔵
- 脳内 TRH 受容体の生化学的性質: ホルモンと臨床, 29, 49-53 (1981); 小川紀雄, 山脇泰秀, 黒田広生, 大藤真, 大木幸介
- ポリグルタミン酸液晶の円偏光二色性: 高分子論文集, 38, 493-496 (1981); 大木幸介, 近藤慶之, 藤井敏弘, 飯塚英策
- Feeding and hyperglycemia induced by 1,5-anhydroglucitol in the rat: Physiology & Behavior, 27, 401-405 (1981); T. Sakata, K. Tsutsui, M. Fukushima, K. Arase, H. Kita, Y. Oomura, Kohsuke Ohki and S. Nicolaidis
- Effects of tubulin-myosin interaction of guanosine-5'-triphosphate hydrolysis by myosin: Chem. Pharm. Bull., 29, 2639-2645 (1981); Toshihiro Fujii, Michiyo Kumasaka, Yoshiyuki Kondo, Akira Hachimori and Kohsuke Ohki
- ミオシンとチューブリンの相互作用における ATP の影響: 薬学雑誌, 101, 848-851 (1981); 大木幸介, 熊坂実千代, 近藤慶之, 藤井敏弘
- 分子情報からみた生理と薬理: 南江堂 (1981); 大木幸介
- 心を分子レベルから考える: 化学, 36, 904-909 (1981); 大木幸介, 近藤慶之, 藤井敏弘
- Excitatory effects of the suprachiasmatic nucleus on the ventromedial nucleus in the rat hypothalamic slice: Brain Res., 235, 137-141 (1982); H. Kita, S. Shibata, Y. Oomura and Kohsuke Ohki
- Stimulation of tubulin-dependent ATPase activity in microtubule proteins from porcine brain by vinblastine: J. Neurochem., 39, 1587-1593 (1982); Toshihiro Fujii, Yoshiyuki Kondo, Michiyo Kumasaka and Kohsuke Ohki
- Inhibition of acto-heavy meromyosin and actomyosin Mg^{2+} -dependent adenosine-5'-triphosphatase from rabbit skeletal muscle by tubulin from rat brain: Nagoya Med. J., 27, 53-63 (1982); Toshihiro Fujii and Ryo Tanaka
- Interaction of tubulin with myosin IV; inhibition of actomyosin adenosine-5'-triphosphatase activity by heat-treated tubulin: Chem. Pharm. Bull., 30, 4134-4139 (1982); Toshihiro Fujii, Yoshiyuki Kondo, Michiyo Kumasaka, Akira Hachimori and Kohsuke Ohki
- 心の分子メカニズム: 紀伊国屋書店 (1982); 大木幸介
- ケミカルメッセンジャーと脳の働き: 現代化学, 132, 46-50 (1982); 大木幸介, 藤井敏弘
- Stimulation of tubulin-dependent ATPase activity in microtubule proteins from porcine brain by taxol: J. Neurochem., 41, 716-722 (1983); Toshihiro Fujii, Yoshiyuki Kondo, Michiyo Kumasaka, Tatsuo Suzuki and Kohsuke Ohki
- 感情はいかにしてつくられるか: 講談社現代新書 (1983); 大木幸介
- 脳内麻薬物質と快感のメカニズム: 実業之日本社 (1983); 大木幸介
- 分子レベルで脳を追う人, 覚醒剤: 現代化学, 147, 61-65 (1983); 大木幸介
- 高分子液晶: 高分子錯体—機能と応用シリーズ No.5 高分子集合体 (土田英俊, 他編), 58-72 (1983);

近藤慶之

脳の快感と麻薬，覚醒剤：化学，38，648-653 (1983)；大木幸介，近藤慶之，藤井敏弘

Inhibition of adenosine-5'-triphosphatase activity in microtubule protein preparation by PSK: Chem. Pharm. Bull., 32, 2460-2463 (1984); Toshihiro Fujii, Yasuhiro Akabane, Michiyo Fujii, Yoshiyuki Kondo and Kohsuke Ohki

P S Kと微小管蛋白との相互作用：医学のあゆみ，130，19-20 (1984)；藤井敏弘，赤羽康宏，小島佐登美，藤井実千代，近藤慶之，大木幸介

Effect of taxol on the interaction of tubulin with myosin filaments: Can. J. Biochem. and Cell Biol., 62, 878-884 (1984); Toshihiro Fujii, Tatsuo Suzuki, Akira Hachimori, Michiyo Fujii, Yoshiyuki Kondo and Kohsuke Ohki

Visualization of lactoperoxidase binding to microtubule and tubulin: Biochem. Med., 31, 211-216 (1984); Tatsuo Suzuki, Toshihiro Fujii and Ryo Tanaka

Synaptosomal cytoskeleton visualized by whole mount electron microscopy: Neurochem. Int., 6, 573-587 (1984); Tatsuo Suzuki, Toshihiro Fujii and Ryo Tanaka

Effect of protein-bound polysaccharide (PSK) on microtubule proteins III; some properties of PSK inhibition of microtubule polymerization and the site of its action: Chem. Pharm. Bull., 32, 4518-4524 (1984); Toshihiro Fujii, Yasuhiro Akabane, Satomi Odori, Michiyo Fujii, Yoshiyuki Kondo and Kohsuke Ohki

心と量子状態について：化学，39，249-255 (1984)；大木幸介，近藤慶之，藤井敏弘

猛毒の分子メカニズム：現代化学，157，43-47 (1984)；大木幸介，近藤慶之

Interaction of protein-bound polysaccharide (PSK) with microtubule proteins V; influence on tubulin-dependent adenosine triphosphatase (ATPase) activity: Chem. Pharm. Bull., 33, 1537-1543 (1985); Toshihiro Fujii, Yasuhiro Akabane, Michiyo Fujii, Yoshiyuki Kondo and Kohsuke Ohki

Interaction of protein-bound polysaccharide (PSK) with rabbit skeletal muscle actomyosin: Chem. Pharm. Bull., 33, 3408-3414 (1985); Toshihiro Fujii, Yasuhiro Akabane, Yumiko Tateishi, Michiyo Fujii, Yoshiyuki Kondo and Kohsuke Ohki

ブタ脳微小管タンパクに含まれるホスファターゼ活性について：薬学雑誌，105，464-469 (1985)；藤井実千代，藤井敏弘，木下瑞恵，近藤慶之，大木幸介

ブタ脳カルモデュリンの界面活性剤によって誘起されたコンホメーション変化：高分子論文集，42，467-471 (1985)；近藤慶之，直井正俊，小山勝宏，藤井敏弘，大木幸介

ブタ脳カルモデュリンとペプチド及びタンパク質の相互作用：高分子論文集，42，495-500 (1985)；近藤慶之，小駒喜郎，藤井敏弘，大木幸介

蛋白多糖体クレスチンとブタ脳微小管蛋白との相互作用：PSK Excerpta Medica 18-19 (1985)；藤井敏弘，赤羽康宏，藤井実千代，近藤慶之，大木幸介

P S Kとアクトミオシン間の相互作用に関して：生化学，57，1023 (1985)；赤羽康宏，藤井敏弘，藤井実千代，八森章，近藤慶之，大木幸介，鈴木龍雄

Interaction of protein-bound polysaccharide (PSK) with porcine brain microtubule proteins: Recent Ad. in Chemotherapy (Univ. Tokyo Press) 832-833 (1985); Toshihiro Fujii, Yasuhiro Akabane, Michiyo Fujii, Yoshiyuki Kondo and Kohsuke Ohki

Molecular aspects of mind; I. volition and feeling: Neurosciences, 11, 275-281 (1985); Yoshiyuki Kondo, Toshihiro Fujii and Kohsuke Ohki

Molecular aspects of mind; II. intelligence and mind: Neurosciences, 11, 283-288 (1985); Yoshiyuki

Kondo, Toshihiro Fujii and Kohsuke Ohki

Effect of calcium ions on the interaction of S-100 protein with microtubule proteins: Chem. Pharm. Bull., **34**, 2261-2264 (1986); Toshihiro Fujii, Naoto Gocho, Yasuhiro Akabane, Yoshiyuki Kondo, Tatsuo Suzuki and Kohsuke Ohki

Inhibition of microtubule assembly by poly-L-glutamic acid and the site of its action: Can. J. Biochem. and Cell Biol., **64**, 615-621 (1986); Toshihiro Fujii, Tatsuo Suzuki, Michiyo Fujii, Yoshiyuki Kondo, Akira Hachimori and Kohsuke Ohki

Effect of zinc ions on the interaction of S100 protein with brain microtubule proteins: Chem. Pharm. Bull., **34**, 5040-5044 (1986); Toshihiro Fujii, Naoto Gocho, Yasuhiro Akabane, Michiyo Fujii, Yoshiyuki Kondo, Tatsuo Suzuki and Kohsuke Ohki

Domain mapping of chicken gizzard caldesmon: J. Cell. Biol., **103**, 537a (1986); Toshihiro Fujii, Michiyo Imai, Gary C. Rosenfeld and Joseph Bryan

Calcium/calmodulin-dependent inhibition of microtubule assembly by brain synaptic junction: Neurochem. Res., **11**, 543-555 (1986); Tatsuo Suzuki, Toshihiro Fujii and Ryo Tanaka

Cytoskeletal changes of glioblasts after morphological differentiation induced by glia maturation factor: Neurochem. Int., **9**, 305-313 (1986); Tatsuo Suzuki, T. Kato, Toshihiro Fujii and Ryo Tanaka

Microtubule regulation in the rat cerebral postsynaptic region: Neurosci. Res. Suppl., **3**, S57 (1986); Tatsuo Suzuki, Toshihiro Fujii and Ryo Tanaka

Expression of cytochrome P-450d by *Saccaromyces cerevisiae*: FEBS Lett., **207**, 217-221 (1986) Toru Shimizu, Kazuhiro Sogawa, Yoshiaki Fujii-Kuriyama, Masae Takahashi, Yoshiro Ogoma and Masahiro Hatano

序論：バイオテクノロジー入門（篠原昭，田中一行，白井汪芳，編），1-27 (1986)；岡崎光雄，安田斎，八森章，近藤慶之

Preparation of mono- and multi-layer films of calmodulin using Langmuir-Blodgett technique: Chem. Lett., **1987**, 1117-1120 (1987); Yoshiyuki Kondo, Tetsuya Miwa, Hiroshi Ikegami, Masatoshi Naoi, Yoshiro Ogoma, Toshihiro Fujii, Kohsuke Ohki and Toshihiro Akaike

Conformation and the properties of porcine brain calmodulin incorporated in liposomes: Polym. J., **19**, 1359-1364 (1987); Yoshiyuki Kondo, Masatoshi Naoi, Toshihiro Fujii, Hirotada Fujii and Kohsuke Ohki

Interaction of trifluoperazine with S100 protein; a ^{19}F NMR Study: Inorg. Chim. Acta, **138**, 145-148 (1987); Yoshiro Ogoma, Tetsuya Miwa, Toshihiro Fujii, Akira Hachimori, Yoshiyuki Kondo, Toru Shimizu and Masahiro Hatano

Interaction of trifluoperazine with S100 protein; an induced CD study: Polym. Commun., **28**, 318-320 (1987); Yoshiro Ogoma, Akira Nakamura, Tetsuya Miwa, Toshihiro Fujii, Akira Hachimori, Yoshiyuki Kondo, Toru Shimizu and Masahiro Hatano

Interaction of fluoroaniline with a heme-octapeptide of cytochrome c; a ^{19}F NMR study: Inorg. Chim. Acta, **135**, 203-205 (1987); A. MD. Sadeque, Toru Shimizu, Yoshiro Ogoma and Masahiro Hatano

Inhibition of adenosine triphosphatase activity in brain microtubule proteins by S100 protein; Chem. Pharm. Bull., **35**, 4324-4327 (1987); Toshihiro Fujii, Haruo Asai, Yukihiko Miyasaka, Tatsuo Suzuki and Yoshiyuki Kondo

Interaction between a protein-bound polysaccharide (PSK) and myosin filaments: Biomed. Res., **8**,

- 445-452 (1987); Toshihiro Fujii, Tatsuo Suzuki, Hirotada Akashi, Tetsu Hozumi, Yoshiro Ogoma, Michio Fujii and Yoshiyuki Kondo
- Domain mapping of chicken gizzard caldesmon: J. Biol. Chem., **262**, 2757-2763(1987); Toshihiro Fujii, Michio Imai, Gary C. Rosenfeld and Joseph Bryan
- Specific interaction of synaptic junction with cytoskeletal proteins in brain cytosol: Biomed. Res., **8**, 31-38 (1987); Tatsuo Suzuki, Toshihiro Fujii and Ryo Tanaka
- Independent protein kinases associated with the rat cerebral synaptic junction; comparison with cyclic AMP-dependent and Ca^{2+} /calmodulin-dependent protein kinases in the synaptic junction: J. Neurochem., **48**, 1716-1724 (1987); Tatsuo Suzuki, Toshihiro Fujii and Ryo Tanaka
- ^{43}Ca nuclear magnetic resonance spectra of Ca^{2+} -S100 protein solutions: Inorg. Chem., **27**, 1853-1855 (1988); Yoshiro Ogoma, Toru Shimizu, Masahiro Hatano, Toshihiro Fujii, Akira Hachimori and Yoshiyuki Kondo
- Conformation of the porcine brain glutamic acid-rich protein: Polym. Commun., **29**, 149-151 (1988); Yoshiro Ogoma, Hokushi Kobayashi, Katsuhiko Bando, Toshihiro Fujii, Akira Hachimori, Yoshiyuki Kondo, Kohsuke Ohki and Masahiro Hatano
- Interaction between chicken gizzard caldesmon and tropomyosin: J. Biochem., **104**, 734-737 (1988); Toshihiro Fujii, Jun Ozawa, Yoshiro Ogoma and Yoshiyuki Kondo
- Inhibition of tubulin-dependent ATPase activity in microtubule proteins from porcine brain by S100 protein: Neurochem. Int., **13**, 509-516 (1988); Haruo Asai, Yukihiro Miyasaka, Yoshiyuki Kondo and Toshihiro Fujii
- Interaction of protein-bound polysaccharide (PSK) with myosin subfragment-1(S-1); identification of PSK-binding region in the S-1 molecule: Biomed. Res., **9**, 443-450 (1988); Hirotada Akashi, Osamu Tezuka, Yoshiro Ogoma, Yoshiyuki Kondo, Tetsu Hozumi and Toshihiro Fujii
- 生体の感覚にまなぶ：センサ工学入門（清野次郎，近藤昭治，編），51-68，森北出版（1988）；近藤慶之，白井汪芳
- 生体高分子のLB膜(1)タンパク質：高分子加工，**37**，608-613（1988）；近藤慶之
- Effects of Ca^{2+} and Zn^{2+} on trifluoperazine-S100 proteins interactions; induced circular dichroism and fluorescence spectra: Biochim. Biophys. Acta, **997**, 188-192 (1989); Yoshiro Ogoma, Toru Shimizu, Hokushi Kobayashi, Toshihiro Fujii, Akira Hachimori, Yoshiyuki Kondo and Masahiro Hatano
- Inhibitory effects of poly(L-aspartic acid) on the assembly of brain microtubules and the interaction of microtubule-associated protein 2 with F-actin *in vitro*: J. Biochem., **106**, 93-97 (1989); Akira Nakamura, Takao Arai, Yoshiyuki Kondo and Toshihiro Fujii
- Purification and characterization of Ca^{2+} /calmodulin-dependent actin-binding proteins from squid retina: FEBS Lett., **247**, 377-380 (1989); Haruo Asai, Takao Arai, Toshihiro Fujii and Gen Matsumoto
- 生体高分子のLB膜(2)ポリアミノ酸：高分子加工，**38**，35-40（1989）；近藤慶之
- ポリ-L-アスパラギン酸を利用した微小管付随タンパク質の新しい分離・精製法：生体の科学，**41**，219-224（1989）；藤井敏弘，新井孝夫
- Conformation of polyamino acids containing fluorine: Polymer, **31**, 344-347 (1990); Koichi Ikeda, Yoshiro Ogoma, Toshihiro Fujii, Akira Hachimori, Yoshiyuki Kondo, Tadao Hayakawa, Makoto Iwatsuki and Toshihiro Akaike
- ^{19}F NMR study of trifluoperazine-S100 protein interaction; effects of Ca^{2+} and Zn^{2+} : Int. J. Biol.

- Macromol., 12, 185-188 (1990); Yoshiro Ogoma, Hokushi Kobayashi, Toshihiro Fujii, Yoshiyuki Kondo, Akira Hachimori, Toru Shimizu and Masahiro Hatano
- Selective purification of microtubule-associated proteins 1 and 2 from rat brain using poly(aspartic acid): Anal. Biochem., 184, 68-73 (1990); Toshihiro Fujii, Akira Nakamura, Yoshiro Ogoma, Yoshiyuki Kondo and Takao Arai
- Calcium-dependent control of caldesmon-actin interaction by S100 protein: J. Biochem., 107, 133-137 (1990) Toshihiro Fujii, Keiko Machino, Hiroshi Ando and Yoshiyuki Kondo
- 生命を拓く：ニュー・ファイバー・サイエンス（篠原昭，白井汪芳，近田淳雄，編），147-163，培風館（1990）；近藤慶之，福井準之助
- 微小管付随タンパク質（MAPs）：生体の科学，41，313-315（1990）；新井孝夫，藤井敏弘
- Conformational change of poly-N5-(2-hydroxyethyl)-L-glutamine in solution with solvent and temperature studied by small angle X-ray scattering: Photon Factory Activity Report, 8, 220 (1990); Yoshio Muroga, Hiroyuki Tagawa, Yoshiyuki Kondo and Tadao Hayakawa
- Structural and functional characterization of calelectrins from bovine liver: Chem. Pharm. Bull., 39, 421-424 (1991); Toshihiro Fujii, Hirotada Akashi, Yoshiro Ogoma and Yoshiyuki Kondo
- Purification and characterization of an actin-calmodulin- and tropomyosin-binding protein from chicken gizzard smooth muscle: Chem. Pharm. Bull., 39, 2622-2626 (1991); Toshihiro Fujii
- Binding study of metal ions to S100 protein; ^{43}Ca , ^{25}Mg , ^{67}Zn and ^{39}K NMR: Int. J. Biol. Macromol., 14, 279-286 (1992); Yoshiro Ogoma, Hokushi Kobayashi, Toshihiro Fujii, Yoshiyuki Kondo, Akira Hachimori, Toru Shimizu and Masahiro Hatano
- 両性電解質型ポリアミノ酸と初代培養肝細胞との相互作用：人工臓器，21，212-216（1992）；藤本幸之進，近藤慶之，武井由香，戸辺成四郎，赤池敏宏
- Interaction of a protein-bound polysaccharide (PSK) with chicken gizzard caldesmon: Biol. Pharm. Bull., 16, 544-547 (1993); Toshihiro Fujii, Takayuki Hisanaka, Yoshiro Ogoma and Yoshiyuki Kondo
- Electron mean free path in Ingmuir-Blodgett films of polypeptides: Chemistry Express, 8, 133-136 (1993); Kohei Kugo, Tadayuki Sakobe, Yoshiro Ogoma, Toshihiro Fujii, Yoshiyuki Kondo, Tadao Hayakawa and Jun Nishino
- Microtubule-associated proteins, MAP1A and MAP1B, interact with F-actin *in vitro*: J. Biochem., 114, 827-829 (1993); Toshihiro Fujii, Masatomo Watanabe, Yoshiro Ogoma, Yoshiyuki Kondo and Takao Arai
- Calcium-dependent regulation of smooth muscle calponin by S100: J. Biochem., 116, 121-127 (1994); Toshihiro Fujii, Akihiro Oomatsuzawa, Noriyuki Kuzumaki and Yoshiyuki Kondo
- Effects of calcium-binding proteins on histamine release from permeabilized rat peritoneal mast cells: Biol. Pharm. Bull., 17, 581-585 (1994); Toshihiro Fujii, Noriyuki Kuzumaki, Yoshiro Ogoma and Yoshiyuki Kondo
- 哺乳類脳微小管付随タンパク質の構造と機能：薬学雑誌，114，435-447（1994）；藤井敏宏
- Morphology of a cytochrome c-adsorbed stearic acid monolayer on Brewster angle microscopy: J. Biochem., 117, 1151-1155 (1995); Hideaki Tanaka, Ken-ichi Hayashi, Takahisa Akatsuka, Jiro Toyama, Kazuyuki Noda, Tatsunori Kida, Yoshiro Ogoma, Toshihiro Fujii and Yoshiyuki Kondo
- Interaction of calponin with phospholipids: J. Biochem., 117, 1787-1791 (1995); Toshihiro Fujii, Kei Yamana, Yoshiro Ogoma and Yoshiyuki Kondo
- Evaluating the temperature and humidity and characteristics of a solar energy absorbing and retaining

fabric: Textile Res. J., 66, 123-130 (1996); Tsunekatsu Furuta, Yoshio Shimizu and Yoshiyuki Kondo

カルモジュリン固定化膜の機能：新タンパク質応用工学（簾野昌弘監修），334-343，フジテクノシステム（1996）；近藤慶之，小駒喜郎

Fluorine-containing poly(amino acid)s (conformation and gas permeability) Polymeric Materials Encyclopedia (J.C. Salamone eds.), 4, 2476-2478, CRC Press, Florida (1996); Yoshiyuki Kondo and Yoshiro Ogoma

Monolayer and Langmuir-Blodgett films (of protein): Polymeric Materials Encyclopedia (J.C. Salamone eds.), 6, 4529-4532, CRC Press, Florida (1996); Yoshiyuki Kondo and Yoshiro Ogoma

In situ observation of bovine serum albumine-adsorbed stearic acid monolayer by Brewster angle microscopy: J. Biochem., 121, 206-211 (1997); Hideaki Tanaka, Takahisa Akatsuka, Takashi Murakami, Yoshiro Ogoma, Koji Abe and Yoshiyuki Kondo

In situ observation of protein-adsorbed stearic acid monolayer by Brewster angle microscopy and fluorescence microscopy: Polym. Adv. Technol. (*in press*); Hideaki Tanaka, Takahisa Akatsuka, Toru Ohe, Yoshiro Ogoma, Koji Abe and Yoshiyuki Kondo

反応性高分子学講座

- 銅(II) および鉄(III)-ポリビニルアルコール混合錯体の生成と過酸化水素の分解作用 : 日本化学会誌, 1, 117-123 (1978) 白井汪芳、仁尾 豊、黒瀬彰男、林 貞男、北條舒正
- Catalytic activity of Cu(II)-poly(vinyl alcohol) complex for decomposition of hydrogen peroxide : J. Polym. Sci., Polym. Chem. Ed., 16, 447-455 (1978) Nobumasa Hojo, Hirofusa Shirai, Yoshiki Chujo and Sadao Hayashi
- Synthesis and properties of polyamideimides containing a bicyclooctene ring : Angew. Makromol. Chem., 1008, 55-65 (1978) Akira Suzuki, Kesayoshi Kobayashi, Hirofusa Shirai and Nobumasa Hojo
- Synthesis and properties of polyesterimides containing a bicyclo-octene ring : Angew. Makromol. Chem., 66 181-191 (1978) Akira Suzuki, Kesayoshi Kobayashi, Koji Yamamoto, Hirofusa Shirai and Nobumasa Hojo
- Molar absorption coefficient of the iodine molecule in the blue complex between partially formalized poly(vinyl alcohol) and iodine-iodide : Makromol. Chem., 179, 1397-1401 (1978) Sadao Hayashi, Mineko Kobayashi, Hirofusa Shirai and Nobumasa Hojo
- Synthesis of novel polyimides containing metal-phthalocyanine ring : J. Polym. Sci., Polym. Lett. Ed., 17, 343-346 (1979) Hirofusa Shirai, Kesayoshi Kobayashi, Yoshitaka Takemae and Nobumasa Hojo
- Synthesis and Properties of the Polymers Containing Metal-porphyrizine : Div. Polym. Chem., Inc. Amer. Chem. Soc., 20, 482-485 (1979) Hirofusa Shirai, Kesayoshi Kobayashi, Yoshitaka Takemae and Nobumasa Hojo
- Functional metal-porphyrizine derivatives and their polymers, 2. Synthesis and properties of Polyimides containing metal-phthalocyanines : Makromol. Chem., 180, 2073-2084 (1979) Hirofusa Shirai, Kesayoshi Kobayashi, Yoshitaka Takemae, Akira Suzuki, Okikazu Hirabaru and Nobumasa Hojo
- 銅フタロシアニン蒸着薄膜の熱的挙動 : 真空, 22(7), 273-278 (1979) 平原洋和, 中島忠夫, 白井汪芳
- Synthesis and catalaselike activity of polystyrene-bonded Fe(III)-phthalocyanine : J. Polym. Sci., Polym. Lett. Ed., 17, 661-666 (1979) Hirofusa Shirai, Akio Maruyama, Kesayoshi Kobayashi, Nobumasa Hojo and Kunio Urushido
- Temperature effect of color complex of poly(vinyl acetate) with iodine-iodide : J. Polym. Sci., Polym. Lett. Ed., 17, 91 (1979) Sadao Hayashi, M. Kobayashi, Hirofusa Shirai and Nobumasa Hojo
- 銅(II)-ビニルアルコール - 酢酸 (またはプロピオン酸) ビニル-コポリマー錯体の生成に及ぼす非配位アシル基の影響 : 高分子論文集, 37(10), 665-669 (1980) 北條舒正, 白井汪芳, 中嶋和彦, 林 貞男
- 部分リン酸化ポリビニルアルコール-銅 (II) 錯体の生成と性質 : 高分子論文集, 37(10), 657-663 (1980) 黒瀬彰男, 杉山勝雪, 白井汪芳、林 貞男、北條舒正
- 主鎖にビシクロ[2.2.2]オクテン環を有するポリアミドイミド : 日本化学雑誌, 1980, 1929-1932 小林今朝良, 鈴木 彰, 清水正基, 白井汪芳, 北條舒正
- Functional metal-porphyrizine derivatives and their polymers, 3. Catalytic activity of Fe(III)-3,4,3',4',3'',4'',3''',4'''-octacarboxyphthalocyanine for decomposition of hydrogen peroxide : Makromol. Chem., 181, 565-573 (1980) Hirofusa Shirai, Akio Maruyama, Junji Takano, Kesayoshi Kobayashi, Nobumasa Hojo and Kunio Urushido
- Functional metal-porphyrizine derivatives and their polymers, 4. Synthesis of poly(styrene) bonded

- Fe(III)- as well as Co(II)-4,4',4''-tetracarboxyphthalocyanine and their catalase-like activity : Makromol. Chem., **181**, 575-584 (1980) Hirofusa Shirai, Akio Maruyama, Kesayoshi Kobayashi, Nobumasa Hojo and Kunio Urushido
- Functional metal-porphyrzine derivatives and their polymers, 5. Peroxidatic oxidation of guaiacol by Fe(III)-3,4,3',4',3'',4'',3''',4'''-octacarboxyphthlocyanine (Fe(III)-oaPc) and Fe(III)-oaPc / polyelectrolyte systems : Makromol. Chem., **181**, 1003-1012 (1980) Hirofusa Shirai, Akio Maruyama, Mitsugu Konishi and Nobumasa Hojo
- Functional metal-porphyrzine derivatives and their polymers, 6. Free radical polymerization initiated by Fe(III)-phthalocyanine-2,9,16-23-tetracarboxylic acid : Makromol. Chem., **182**, 2429-2438 (1981) Hirofusa Shirai, Akio Ishimoto, Naotaka Kamiya, Kenji Hanabusa, Kosuke Ohki and Nobumasa Hojo
- ビシクロオクテン環を有するポリアミドイミド : 日本化学雑誌, **1981**, 1008-1012 鈴木 彰, 小林今朝良, 小田中公利, 白井汪芳, 北條舒正
- Cu(II)-家蚕絹セリシン (Bombyx mori) 錯体の生成 : 高分子論文集, **39(11)**, 745-749 (1982) 高橋重造, 白井汪芳, 黒瀬彰男, 清水 滉, 北條舒正
- Cu(II)-家蚕絹セリシン (Bombyx mori) 錯体の生成 : 高分子論文集, **39(11)**, 745-749 (1982) 高橋重造, 白井汪芳, 黒瀬彰男, 清水 滉, 北條舒正
- Synthesis of poly(β -alanine) in the functional reversed micelle : Makromol. Chem., **183**, 1101-1111 (1982) Kenji Hanabusa, Hirofusa Shirai, Nobumasa Hojo, Koichi Kondo and Kiichi Takemoto
- Kinetics of ligand exchange reaction of Cu(II)-amine complex with poly(vinyl alcohol) in aqueous solution : Polymer, **24(3)**, 335-338 (1983) Tsuneo Suzuki, Hirofusa Shirai, S. Tokutake and Nobumasa Hojo
- Kinetics of ligand exchange reaction of Cu(II)-poly(vinyl alcohol) complex with ethylenediamine N,N,N',N'-tetraacetic Acid : Polymer J., **15(6)**, 409-414 (1983) Tsuneo Suzuki, Hirofusa Shirai, Fukashi Shimizu and Nobumasa Hojo
- New type of secondary fuel cell using cobalt(II)-2,9,16,23-tetracarboxyphthalocyanine covalently bound to poly(2-vinylpyridine-co-styrene) as a cathodic catalyst : J. Chem. Soc., Chem. Commun., **1983**, 481-482 Okikazu Hirabaru, T. Nakase, Kenji Hanabusa, Hirofusa Shirai, Kiichi Takemoto and Nobumasa Hojo
- Highly conducting doped metal-phthalocyanines bound to a polymer : J. Chem. Soc., Chem. Commun., **1983**, 751-752 Hirofusa Shirai, Seigo Higaki, Kenji Hanabusa, Nobumasa Hojo and Okikazu Hirabaru
- A mononuclear high-spin iron(III) phthalocyanine : J. Chem. Soc., Chem. Commun., **1983**, 913-914 Nagao Kobayashi, M. Koshiyama, K. Funayama, Tetsuo Osa, Hirofusa Shirai and Kenji Hanabusa
- Complex formation constants between mononuclear high-spin iron(III) phthalocyanine and imidazole : J. Chem. Soc., Chem. Commun., **1983**, 915-916 Nagao Kobayashi, K. Funayama, M. Koshiyama, Tetuo Osa, Hirofusa Shirai and Kenji Hanabusa
- Functional metal-porphyrzine derivatives and their Polymers, 7. Synthesis and properties of metal-2,9,1,6,23-tetracarboxyphthalocyanine covalently bound to poly(2- or 4-vinylpyridine-co-styrene) : Makromol. Chem., **184**, 691-699 (1983) Seigo Higaki, Kenji Hanabusa, Hirofusa Shirai and Nobumasa Hojo
- 金属フタロシアニンを結合したポリ-(2-ビニルピリジン, スチレン) 共重合体フィルムの導電機構 : 応用物理, **52**, 1051-1057 (1983) 平原洋和, 砺波範之, 松垣誠吾, 英 謙二, 白井汪芳, 竹本喜一, 北條舒

正

- Synthesis and catalase-like activity of Fe(III)-phthalocyanine covalently bonded on poly(2-vinylpyridine-co-styrene) : J. Polym. Sci., Polym. Lett. Ed., **21**, 157-162 (1983) Hirofusa Shirai, Seigo Higaki, Kenji Hanabusa and Nobumasa Hojo
- Thermal stabilities of Ni(II) partially phosphorylated polyvinyl alcohol complexes : Textile Research J., **54**(4), 277-278 (1984) Akio Kurose, Hirofusa Shirai, Fukashi Shimizu and Nobumasa Hojo
- 部分リン酸化ポリビニルアルコール-Ni(II) 錯体の難燃性 : 高分子論文集, **41**, 267-272 (1984) 黒瀬彰男, 白井汪芳, 清水 滉, 北條舒正
- Functional metal-porphyrazine derivatives and their polymers, VIII. Catalase-like activity of Fe(III)- and Co(II)-2,9,16,23-tetracarboxyphthalocyanine supported on poly(2-vinylpyridine-co-styrene) : J. Polym. Sci., Polym. Chem. Ed., **22**, 1309-1318 (1984) Hirofusa Shirai, Seigo Higaki, Kenji Hanabusa, Yoshiyuki Kondo and Nobumasa Hojo
- Functional metal-porphyrazine derivatives and their polymers, 10. Secondary fuel cells based on oxygen reduction on platinum electrode modified by polymers and metal-phthalocyanines : Angew. Makromol. Chem., **121**, 59-68 (1984) Okikazu Hirabaru, Tomohiro Nakase, Kenji Hanabusa, Hirofusa Shirai, Kiichi Takemoto and Nobumasa Hojo
- Functional metal-porphyrazine derivatives and their polymers, 12. Synthesis and properties of polyimides containing a metal-phthalocyanine ring and a pyridyl group : Makromol. Chem., **185**, 1395-1401 (1984) Hirofusa Shirai, Yoshitaka Takemae, Kesayoshi Kobayashi, Yoshiyuki Kondo, Okikazu Hirabaru and Nobumasa Hojo
- Functional metal-porphyrazine derivatives and their polymers, 11. Secondary fuel cells based on oxygen reduction at a platinum electrode modified by metal-2,9,16,23-tetracarboxyphthalocyanine covalently bound to poly(2-vinylpyridine-co-styrene) : J. Chem. Soc., Dalton Trans., **1984**, 1485-1489 Okikazu Hirabaru, Tomohiro Nakase, Kenji Hanabusa, Hirofusa Shirai, Kiichi Takemoto and Nobumasa Hojo
- Functional metal-porphyrazine derivatives and their polymers, 13. Secondary cells using metal-phthalocyanine bound to poly(2-vinylpyridine-co-styrene) as positive electrodes : Polym. Commun., **1984**, 284-286 (1984) Okikazu Hirabaru, Tomohiro Nakase, Kenji Hanabusa, Hirofusa Shirai, Kiichi Takemoto and Nobumasa Hojo
- Electrolyte-induced spin-state transition on iron in iron(III) phthalocyanine : Chem. Lett., **1984**, 1633-1636 Nagao Kobayashi, M. Koshiyama, Y. Ishikawa, Tetsuo Osa, Hirofusa Shirai and Nobumasa Hojo
- Iron(III) phthalocyanines : Oxidation and spin states of iron in iron phthalocyanines with carboxyl groups : J. Chem. Soc., Dalton Trans., **1984**, 2107-2110 Nagao Kobayashi, Hirofusa Shirai and Nobumasa Hojo
- Functional metal-porphyrazine derivatives and their polymers, 14. Synthesis and properties of [bis- or tetrakis(decyloxy carbonyl)phthalocyaninato]metal complexes : Makromol. Chem., **185**, 2537-2542 (1984) Hirofusa Shirai, Kenji Hanabusa, Mitsutoshi Kitamura, Etsuko Masuda, Okikazu Hirabaru and Nobumasa Hojo
- Formation of complexes of deoxyribonucleic acid (DNA) with copper(II) and other bivalent metal ions : Polymer J., **16**, 207-215 (1984) Hirofusa Shirai, Yukinori Itoh, Akio Kurose, Kenji Hanabusa, Koji Abe and Nobumasa Hojo
- Liquid crystalline poly(4-substituted γ -benzyl-L-glutamate) : J. Polym. Sci., Polym. Lett. Ed., **22**,

- 559-564 (1984) Kenji Hanabusa, Masaki Sato, Hirofusa Shirai, Kiichi Takemoto and Eisaku Iizuka
逆平行 β -構造を含むフィブロインと銅(II)イオンの錯体生成：繊維学会誌, 41, 353-354 (1985) 仲村安善,
黒瀬彰男, 清水 滉, 白井汪芳, 北條舒正
- Flame retardation of Fe(III)-poly(vinyl alcohol) films : Textile Research J., 55, 258-259 (1985) Akio Kurose, Kazuko Miyagawa, Mutsuko Otsuki, Etsuko Masuda, Hirofusa Shirai, Fukashi Shimizu and Nobumasa Hojo
- Flame retardation of poly(vinyl alcohol) and poly(vinyl chloride) films containing dispersed metal-ethylenediamine complexes : Textile Research J., 55(6), 377-379 (1985) Akio Kurose, Kazuko Miyagawa, Mutsuko Otsuki, Etsuko Masuda, Hirofusa Shirai, Fukashi Shimizu and Nobumasa Hojo
- 銅(II)-ポリ(ビニルアルコール)フィルムの熱分解：繊維学会誌, 41(6), 260-262 (1985) 黒瀬彰男, 中條芳樹, 増田悦子, 白井汪芳, 北條舒正
- 金属エチレンジアミン錯体を分散したポリ塩化ビニルで処理した綿布の燃焼試験：繊維学会誌, 42(5), 313-314 (1986) 黒瀬彰男, 大木幸介, 白井汪芳, 北條舒正
- Multinuclear macromolecular metal complexes. 5. Synthesis of a binuclear copper Schiff's base complex covalently bound to poly(vinylamine) : Makromol. Chem., 187, 763-769 (1986) Toshiki Koyama, Akio Kurose, Etsuko Masuda, Kenji Hanabusa, Hirofusa Shirai, Tadao Hayakawa and Nobumasa Hojo
- Flammability test of poly(vinyl alcohol) containing dispersed metal-ethylenediamine complexes : Textile Res. J., 56, 218 (1986) Akio Kurose, Hirofusa Shirai and Nobumasa Hojo
- フェロセンを結合したポリ(ビニルアミン)-銅(II) 混合金属錯体の合成：高分子論文集, 43(1), 15-18 (1986) 黒瀬彰男, 楠 幹夫, 英 謙二, 増田悦子, 白井汪芳, 北條舒正
- Functional metal-porphyrine derivatives and their polymers, 15. Synthesis and properties of poly(γ -benzyl-L-glutamate)s containing covalently bound metalphthalocyanine moieties in the side chains : Makromol. Chem., 187, 753-761 (1986) Kenji Hanabusa, Chihiro Kobayashi, Toshiki Koyama, Etsuko Masuda, Hirofusa Shirai, Yoshiyuki Kondo, Kiichi Takemoto, Eisaku Iizuka and Nobumasa Hojo
- Functional metallo-macrocyclic derivatives and their polymers, 16. Synthesis of a vinyl monomer containing a covalently bound cobaltphthalocyanine and its copolymerization with 9-vinylcarbazole : Makromol. Chem., Rapid Commun., 7, 585-589 (1986) Hiroshi Itoh, Sun-ichi Kondo, Etsuko Masuda, Kenji Hanabusa, Hirofusa Shirai and Nobumasa Hojo
- Synthesis of poly(α -amino acid) on the surface of functional reversed micelle : J. Polym. Sci., Polym. Lett. Ed., 24, 311-317 (1986) Kenji Hanabusa, Kazumasa Kato, Hirofusa Shirai and Nobumasa Hojo
- 微生物包含マイクロカプセルの合成とその性質(I)-パン酵母包含マイクロカプセル：信州大学繊維学部紀要, 14, 27-36 (1986) 英謙二, 窪田茂男, 白井汪芳, 北條舒正
- Multinuclear macromolecular metal complexes 2. Preparation and characterization of prussian blue and its analogs bonded to poly(vinylamine hydrochloride) : Colloid & Polymer Sci., 265, 786-790 (1987) Toshiki Koyama, Riichiro Hayashi, Toshimi Yamane, Etsuko Masuda, Akio Kurose, Kenji Hanabusa, Hirofusa Shirai, Tadao Hayakawa and Nobumasa Hojo
- Functional metal-porphyrine derivatives and their polymers, 19. Functional metallomacrocyclic derivatives and formaldehyde condensation with methylurea : J. Polym. Sci., Polym. Lett. Ed., 25, 413-416 (1987) Hiroshi Itoh, Kenji Hanabusa, Etsuko Masuda, Hirofusa Shirai and Nobumasa Hojo

- 金属フタロシアニンを結合したポリ(2-ビニルピリジン, スチレン) 共重合体フィルムの交流導電機構 : 高分子論文集, 44, 291-296 (1987) 平原洋和, 中原祐典, 白井汪芳, 塩川二郎
- 金属フタロシアニンポリマーで修飾した電極を用いたヨウ素二次電池 : 高分子論文集, 44, 287-290 (1987) 福沢孝久, 伊藤 弘, 小山俊樹, 増田悦子, 英 謙二, 白井汪芳, 平原洋和
- On the induced circular dichroism of d-d transitions of a 14-membered macrocyclic tetraamine nickel(II) complex in β -cyclodextrin : J. Chem. Soc., Dalton Trans., 1987, 1801-1803 Nagao Kobayashi, X. Zao, Tetsuo Osa, Kazumasa Kato, Kenji Hanabusa, T. Imoto and Hirofusa Shirai
- Interaction between thermotropic liquid-crystalline polypeptides having long alkyl side-chains and n-alkanes : Mol. Cryst. Liq. Cryst., 149, 61-77 (1987) Eisaku Iizuka, Soichi Inoue, Kenji Hanabusa and Hirofusa Shirai
- Synthesis of poly(β -alanine) on the surface of the functional lamella : J. Polym. Sci., Polym. Lett. Ed., 25, 345-350 (1987) Kenji Hanabusa, Kiyoko Higashida, Hiromori Tsutsumi, Hirofusa Shirai, Tadao Hayakawa and Nobumasa Hojo
- N,N'-7-ジサリチリデン-2-ヘキサデシル-1,3-プロパンジアミナト金属 (II) 錯体の LB 膜 : 日化, 2138 (1987) 福田晃峰, 小山俊樹, 英 謙二, 白井汪芳, 北條舒正, 中原弘雄, 福田清成
- 微生物包含マイクロカプセルの合成とその性質(II)ー根粒菌包含マイクロカプセルー : 信州大学繊維学部紀要, 15, 15-22 (1987) 窪田茂男, 英謙二, 白井汪芳, 北條舒正
- Multinuclear macromolecular metal complexes III. Preparation and properties of poly(vinyl-amine)copper(II) complex coordinately bonded with hexacyanoferrate(II) : Polymer J., 20, 207-211 (1988) Toshiki Koyama, Akio Kurose, Kenji Hanabusa, Etsuko Masuda, Hirofusa Shirai, Tadao Hayakawa and Nobumasa Hojo
- Multinuclear macromolecule metal complexes 4. Modified electrode by mixed valence complex of prussian blue attached with polycation and its electrochromic behavior : Polymer Communications, 29, 38-40 (1988) Toshiki Koyama, Riichiro Hayashi, Etsuko Masuda, Akio Kurose, Kenji Hanabusa, Hirofusa Shirai, Tadao Hayakawa and Nobumasa Hojo
- 金属イオンの存在下におけるフィブロイン水溶液からのゲル化 : 高分子論文集, 45(11), 889-894 (1988) 仲村安善, 白井汪芳, 北條舒正
- ウラシルおよびウラシル誘導体 - 銅(II)アミン混合配位子錯体の合成と機能 : 高分子論文集, 45(9), 727-732 (1988) 白井汪芳, 黒瀬彰男, 中島正人, 増田悦子, 北條舒正
- 断端湿疹に対する消臭ストッキネットの効果 : 日本義肢装具学会誌, 4, 29-32 (1988) 古川 宏, 渡辺 信, 白川 卓, 谷合義旦, 松田美穂, 小田邦彦, 北山一郎, 雨森邦夫, 中島咲哉, 沢村誠志, 二宮秀治郎, 白井汪芳
- Mossbauer and ESR spectroscopy of tetranitro- and tetraaminophthalocyaninatoiron : Makromol. Chem., Rapid Commun., 10, 1-4 (1989) Nagao Kobayashi, H. Konami, Tetsuo Ohya, M. Sato and Hirofusa Shirai
- Functional metallomacrocycles and their polymers. XXII. Thermally stable metallophthalocyanine formaldehyde condensation resins : J. Polym. Sci., Part A, Polym. Chem. Ed., 27, 2531-2537 (1989) Hiroshi Itoh, Etsuko Masuda, Toshiki Koyama, Kenji Hanabusa, Hirofusa Shirai, Akio Kurose and Kiichi Takemoto
- Synthesis and estimation of poly[γ -(4-alkoxyphenyl)-benzyl-L-glutamate] : Polym. J., 20, 861-868 (1989) Kenji Hanabusa, Osamu Tanaka, Toshiki Koyama, Akio Kurose, Hirofusa Shirai, Tadao Hayakawa and Nobumasa Hojo
- Synthesis and properties of thermotropic liquid-crystalline polymers containing transition metals :

- Makromol. Chem., **190**, 1-8 (1989) Kenji Hanabusa, Jun-ichi Higashi, Toshiki Koyama, Hirofusa Shirai, Nobumasa Hojo and Akio Kurose
- Synthesis and properties of poly(L-glutamate acid)s containing covalently bound 4-hydroxyphenylporphyrin moieties : Makromol. Chem., **190**, 819-825 (1989) Kenji Hanabusa, Seiji Sogabe, Toshiki Koyama, Hirofusa Shirai, Tadao Hayakawa, Nobumasa Hojo and Akio Kurose
- Synthesis of poly(amino acid)s on molecular assemblies formed by functional active esters of amino acids : J. Polym. Sci., Polym. Chem. Ed., **27**, 1665-1673 (1989) Kenji Hanabusa, Seiji Sogabe, Toshiki Koyama, Hiromori Tsutsumi, Akio Kurose, Hirofusa Shirai, Tadao Hayakawa and Nobumasa Hojo
- Synthesis of poly(dipeptide)s on the surface of functional micelle and reversed micelle: J. Polym. Sci., Polym. Chem. Ed., **27**, 4191-4204 (1989) Kenji Hanabusa, Xuanjing Ye, Akio Kurose, Hirofusa Shirai, Tadao Hayakawa and Nobumasa Hojo
- Synthesis of substituted phenyl esters of amino acid and polycondensation in Langmuir-Blodgett films: J. Macromol. Sci.-Chem., **A26**, 1397-1413 (1989) Kenji Hanabusa, Takekazu Oumi, Toshiki Koyama, Hirofusa Shirai, Tadao Hayakawa and Akio Kurose
- Synthesis of L-lysine and L-glutamic acid derivatives with long alkyl chains and polycondensation of Langmuir-Blodgett films: J. Macromol. Sci.-Chem., **A26**, 1571-1584 (1989) Kenji Hanabusa, Jun-ichi Yamasaki, Toshiki Koyama, Hirofusa Shirai, Tadao Hayakawa and Akio Kurose
- γ -ベンジル-L-グルタメート-N-カルボン酸無水物の重合に及ぼす磁場の影響 : 高分子論文集, **46**, 269-272 (1989) 英 謙二, 鴨川由美, 黒瀬彰男, 白井汪芳, 近藤慶之
- Virtues of a poly-cyclodextrin for the de-aggregation of organic molecules in water : J. Polym. Sci., Polym. Lett. Ed., **27**, 191-195 (1989) Nagao Kobayashi, Hirofusa Shirai and Nobumasa Hojo
- Lid-type supramolecular complex formation realized between 2,6-dimethyl- β -cyclodextrin and sodium pyrene-1-carboxylate in water : Makromol. Chem., Rapid Commun., **10**, 447-451 (1989) Nagao Kobayashi and Hirofusa Shirai
- Synthesis and properties of poly(peptide)-wrapped unsubstituted metalophthalocyanines by polycondensation of micellar or reversed micellar aggregates : Makromol. Chem., **190**, 1663-1669 (1989) Kenji Hanabusa, Xuanjing Ye, Toshiki Koyama, Akio Kurose, Hirofusa Shirai and Tadao Hayakawa
- Synthesis and properties of polymeric iron(II)-complexes containing terpyridinyl groups : Makromol. Chem., **191**(2), 391-396 (1990) Kenji Hanabusa, Kunihiro Nakano, Toshiki Koyama, Hirofusa Shirai and Nobumasa Hojo
- Photochemical hole burning of tetraphenylporphyrin bound to a side-chain of a liquid crystalline polymer : J. Molecular Electronics, **6**, 123-128 (1990) Akira Furusawa, Kazuyuki Horie, Kazuo Kuroki, Itaru Mita, Shigeo Kubota, Toshiki Koyama, Kenji Hanabusa and Hirofusa Shirai
- A newly designed deodorant pad for urinary incontinence : Amer. Geriatrics Soc., **38**, 889-892 (1990) Junnosuke Fukui, Y. Sakai, K. Hosaka, T. Yamashita, A. Ogawa and Hirofusa Shirai
- 金属フタロシアニン処理断端袋 (KOBESTUMP SOCKS) の抗菌作用 : 神戸大学医療技術短大紀要, **6**, 63-68 (1990) 白川 卓, 古川 宏, 渡辺 信, 西山 肇, 野田和恵, 田中路子, 金井恵美子, 南出直樹, 白井汪芳
- Catalytic activity of iron and cobalt phthalocyanines wrapped in poly(peptide) for autoxidation of thiol : J. Mol. Catal., **60**(1), 127-134 (1990) Kenji Hanabusa, Xuanjing Ye, Toshiki Koyama, Akio Kurose, Hirofusa Shirai and Nobumasa Hojo

- Effect of Pt(II) coordination on the thermotropic liquid-crystalline behavior of poly(acrylic ester)s containing 4'-cyano-4-biphenyloxy mesogenic groups : Makromol. Chem., 191(3), 489-496 (1990) Kenji Hanabusa, Takashi Suzuki, Toshiki Koyama, Hirofusa Shirai, Nobumasa Hojo and Akio Kurose
- Thermotropic liquid crystalline poly(L-glutamate) esters with long alkyl chain containing aromatic segment at terminal position : J. Polym. Sci., Polym. Chem. Ed., 28(4), 825-835 (1990) Kenji Hanabusa, Kuniko Yanagisawa, Jun-ichi Higashi, Hirofusa Shirai, Tadao Hayakawa and Nobumasa Hojo
- Synthesis and properties of thermotropic liquid crystalline polymers containing copper bis(β -diketonate) : Polymer J., 22(2), 183-186 (1990) Kenji Hanabusa, Takashi Suzuki, Toshiki Koyama, Hirofusa Shirai and Akio Kurose
- Effect of metal complexation on behavior of liquid crystalline polymer : J. Macromol. Sci.-Chem., A27(9-11), 1379-1387 (1990) Kenji Hanabusa, Takashi Suzuki, Toshiki Koyama, Hirofusa Shirai and Nobumasa Hojo
- Formation of bivalent metal complexes of quaternary pyridine and poly(4-vinylpyridine) containing uracil : Polymer J., 22(1), 56-62 (1990) Akio Kurose, Yasuhiro Hayashi, Toshiki Koyama, Kenji Hanabusa, Hirofusa Shirai and Kiichi Takemoto
- Functional metallomacrocycles and their Polymers. 25. Kinetics and mechanism of the biomimetic oxidation of thiol by oxygen catalyzed by homogeneous (polycarboxyphthalocyaninato) metals : J. Phys. Chem., 95(1), 417-423 (1991) Hirofusa Shirai, Hisanaga Tsuiki, Etsuko Masuda, Toshiki Koyama, Kenji Hanabusa and Nagao Kobayashi
- New thermotropic liquid-crystalline polyesters with a metal-chelated 1,3-diphenyl-1,3-propanedione segment : Makromol. Chem., 192(2), 233-244 (1991) Kenji Hanabusa, Yoei Tanimura, Takashi Suzuki, Toshiki Koyama and Hirofusa Shirai
- Kinetic of metal exchange reaction Cu(II)-poly(vinyl alcohol) complex with Ca(II) ethylenediamine-N,N,N',N'-tetraacetic acid in aqueous solution : Makromol. Chem. Makromol. Symp., 59, 247-256 (1992) Tsuneo Suzuki, Hirofusa Shirai and Nobumasa Hojo
- Biomimetic oxidation of thiol and application to odor-removing fiber : Makromol. Chem., Makromol. Symp., 59, 155-161 (1992) Hirofusa Shirai, Kenji Hanabusa, Toshiki Koyama, Hisanaga Tsuiki and Etsuko Masuda
- KOBE STUMP SOCKS (KSS) の研究過程と今後の展開 : 作業療法ジャーナル, 26, 651-659 (1992) 古川 宏, 白川 卓, 渡辺 信, 野田和恵, 白井汪芳, 南出直樹
- Catalytic electroreduction of dioxygen and hydrogen peroxide on graphite electrode modified by iron phthalocyanine-wrapping poly(peptide) : Polymer J., 24, 485-489 (1992) Kenji Hanabusa, Xuanjing Ye, Toshiki Koyama, Akio Kurose and Hirofusa Shirai
- Synthesis, polymerization, copolymerization, and transition-metal coordination of 4-(2,2' : 6',2''-terpyridin-4'-yl)styrene and its polymers and copolymers : Makromol. Chem., 193, 1309-1319 (1992) Kenji Hanabusa, Atsushi Nakamura, Toshiki Koyama and Hirofusa Shirai
- Synthesis and properties of liquid-crystalline side-chain polymers containing β -diketonato transition metal complexes : Makromol. Chem., 193, 2149-2161 (1992) Kenji Hanabusa, Takashi Suzuki, Toshiki Koyama and Hirofusa Shirai
- A small molecular gelling agent for organic liquids : N-Benzylloxycarbonyl-L-alanine 4-hexadecanoyl-2-nitrophenyl ester : J. Chem. Soc., Chem. Commun., 1992, 1371-1373 Kenji

- Hanabusa, Kazuyuki Okui, Kazutaka Karaki, Toshiki Koyama and Hirofusa Shirai
 Small molecular gelling agents to harden organic liquids : J. Chem. Soc., Chem. Commun., 1993, 390-392 Kenji Hanabusa, Junko Tange, Yoshikazu Taguchi, Toshiki Koyama and Hirofusa Shirai
 Two-component, small molecule gelling agents : J. Chem. Soc., Chem. Commun., 1993, 1382-1384
 Kenji Hanabusa, Toru Miki, Yoshikazu Taguchi, Toshiki Koyama and Hirofusa Shirai
 Synthesis and properties of thermotropic liquid-crystalline polymers linked through bis(β -diketonato)copper(II) complex : Makromol. Chem., 194, 197-210 (1993) Kenji Hanabusa, Tadashi Isogai, Toshiki Koyama and Hirofusa Shirai
 Kinetics of the metal exchange reaction of a Cu(II)-poly(vinyl alcohol) complex with Zn(II)-ethylenediamine-N,N',N'-tetraacetic acid in aqueous solution : J. Inorg. Organometal. Polym., 4, 251-260 (1994) Tsuneo Suzuki, Hirofusa Shirai and Nobumasa Hojo
 Electropolymerization and characterization of terpyridinyl iron(II) and ruthenium(II) complexes : Polymer International, 35(3), 231-238 (1994) Kenji Hanabusa, Atsushi Nakamura, Toshiki Koyama and Hirofusa Shirai
 Ni(II)-家蚕セリシン錯体の生成と二次構造 : 高分子論文集, 51(3), 167-171 (1994) 陳 文興, 小山俊樹, 英 謙二, 白井汪芳
 Functional metallomacrocycles and their polymers. 26. Synthesis of 2-acryloylamino-9,16,23-tri-tert-buthylphthalocyanine and autoxidation of thiol with water-soluble polymers containing cobalt(II) phthalocyaninate complex : Makromol. Chem. Phys., 195, 2423-2433 (1994) Mutsumi Kimura, Tomohiro Dakeno, Etsuko Adachi, Toshiki Koyama, Kenji Hanabusa and Hirofusa Shirai
 Functional metallomacrocycles and their polymers. 27. Catalase-like activity of water-soluble polymer containing phthalocyanine-manganese complex : Makromol. Chem. Phys., 195, 3499-3508 (1994) Mutsumi Kimura, Tadayoshi Nishigaki, Toshiki Koyama, Kenji Hanabusa and Hirofusa Shirai
 Biomimetic oxidation of β -OH lignin model compound with tert-buthylhydroperoxide and Fe(III)-octacarboxy phthalocyanine : Wood Reserch, 81, 11-13 (1994) Y. Tanihara, T. Hattori, Hirofusa Shirai and M. Shimada
 Functional metallomacrocycles and their polymers. 31. Autoxidation of thiol by temperature-sensitive polymer catalyst containing cobalt(II)phthalocyanine complex : Reactive Polymers, 23, 195-200 (1994) Mutsumi Kimura, Tadayoshi Nishigaki, Toshiki Koyama, Kenji Hanabusa and Hirofusa Shirai
 Synthesis, spectroscopy, electrochemistry, spectroelectrochemistry, Langmuir-Blodgett film formation, and molecular orbital calculations of planar binuclear phthalocyanines : J. Am. Chem. Soc., 116, 879-890 (1994) Nagao Kobayashi, H. Lam, W. A. Nevin, P. Janda, C. C. Leznoff, Toshiki Koyama, Astushi Monden and Hirofusa Shirai
 A comparison of the loop-current effect of silicon phthalocyanine and silicon naphthalocyanine rings on their axial ligands : Inorg. Chim. Acta, 218, 41-45 (1994) Toshiki Koyama, Takahiko Suzuki, Kenji Hanabusa, Hirofusa Shirai and Nagao Kobayashi
 Functional metallomacrocycles derivatives and their polymers. 31. Preparation and electrochromic properties of novel cobaltophthalocyanine thin films on electrodes : J. Inorg. Organometal. Polym., 4, 261-271 (1994) Takahisa Fukuzawa, Toshiki Koyama, Gerhard Schneider, Kenji Hanabusa and Hirofusa Shirai
 金属フタロシアニン環を含む熱可塑性ポリウレタンの合成と物性 : 高分子論文集, 51, 345-352 (1994) 八木貞文, 井上 之, 小山俊樹, 英 謙二, 白井汪芳

- 機能性金属ポルフィラジン誘導体とそのポリマー XXVIII. コバルトフタロシアニン修飾電極を用いたマルチカラーエレクトロクロミックディスプレイの試作；電気化学, 62, 614-619 (1994) 福沢孝久, 小山俊樹, 円茂浩昌, 水寄康史, 筒井徳久, 英 謙二, 白井汪芳
- 電子線硬化型磁性塗膜に用いられるバインダー樹脂の硬化特性と力学的挙動：高分子論文集, 51, 185-191 (1994) 久保田悠一, 古賀啓二, 白井汪芳
- 高耐久性磁性塗膜に用いられる電子線硬化型バインダー樹脂システム：高分子論文集, 51, 353-360 (1994) 久保田悠一, 古賀啓二, 三瓶良雄, 白井汪芳
- Gelling agents to harden organic fluids; Oligomers of α -amino acids : J. Chem. Soc., Chem. Commun., 1994, 2683-2684 Kenji Hanabusa, Yoshinori Naka, Toshiki Koyama and Hirofusa Shirai
- Cyclo(dipeptide)s as low-molecular-mass gelling agents to harden organic fluids : J. Chem. Soc., Chem. Commun., 1994, 1401-1402 Kenji Hanabusa, Mitsuyoshi Matsumoto, Toru Miki, Toshiki Koyama and Hirofusa Shirai
- 架橋部分リン酸化ポリ(ビニルアルコール)系陽イオン交換樹脂の合成とその金属イオンに対する選択分離能：高分子論文集, 52, 294-298 (1995) 安 英, 小山俊樹, 英 謙二, 山田 瑛, 白井汪芳, 池田順一, 米野 肇
- Preparation and properties of highly phosphorylated poly(vinyl alcohol) hydrogels chemically crosslinked by glutaraldehyde : Polymer, 36, 2297-2230 (1995) Ying An, Toshiki Koyama, Kenji Hanabusa, Hirofusa Shirai, Jun-ichi Ikeda, Hajime Yoneno, Takeshi Itoh
- Kinetics of intra-polymer electron-transfer reactions in macromolecule-metal complexes : J. Chem. Soc., Faraday Trans., 91, 2877-2880 (1995) Masahiro Suzuki, Satoshi Kobayashi, Toshiki Koyama, Kenji Hanabusa, Hirofusa Shirai, Fernando L. Oliveira, Shigeru Maruoka and Yoshimi Kurimura
- Conformational transition of poly(methacrylic acid-co-styrenesulfonic acid) in aqueous solution : Polymer, 36, 4479-4484 (1995) Masahiro Suzuki, Toshiki Koyama, Kenji Hanabusa, Hirofusa Shirai and Yoshimi Kurimura
- 金属錯体化フィブロン繊維の調製と抗菌性：繊維学会誌, 51, 176-180 (1995) 陳 文興, 小山俊樹, 英 謙二, 白井汪芳
- 金属フタロシアニン誘導体を含むポリウレタンの合成と性質：日本ゴム協会誌, 68, 178-184 (1995) 八木貞文, 増田直巳, 堤 信寿, 本宮達也, 小山俊樹, 英 謙二, 白井汪芳
- Functional metallomacrocycles and their polymers. 30. Biomimetic oxidation of thiol with oxygen catalyzed by octacarboxyphthalocyaninatoiron(III) and -cobalt(II) fixed on amorphous part-enriched rayon staple fibers : SEN-I GAKKAISHI, 51, 220-224 (1995) Hisanaga Tsuiki, Etsuko Masuda, Toshiki Koyama, Kenji Hanabusa, Hirofusa Shirai, Naoki Minamide, Yoshito Komatsu and Tokuji Yokozeki
- Functional metallomacrocycles and their Polymers. XXXIII. Autoxidation of thiol catalyzed by thermoelastic polyurethane resin containing a cobalt(II) phthalocyanine : Polymer J., 27, 1139-1143 (1995) Sadafumi Yagi, Mutsumi Kimura, Toshiki Koyama, Kenji Hanabusa and Hirofusa Shirai
- オイルゲル化剤の開発とゲル化機構の解明：高分子論文集, 52(12), 773-784 (1995) 英 謙二, 白井汪芳
- Effect of changing the charge of an iron(II) chelate of electron transfer to a cobalt(III) complex-containing poly(methacrylic acid-co-styrene-sulfonic acid) in aqueous solution : J. Chem. Soc., Faraday Trans., 92, 409-412 (1996) Masahiro Suzuki, Mutsumi Kimura, Kenji Hanabusa, Hirofusa Shirai and Yoshimi Kurimura
- 金属フタロシアニンの抗ヒスタミン, 抗セロトニン作用：薬理と治療, 24, 811-813 (1996) 横関徳二,

岩本洋明, 小山俊樹, 水野克俊, 木村 睦, 上甲恭平, 山原條二, 松田久司, 下田博司, 植村俊明, 白井汪芳

- Metal complexes of partially phosphorylated poly(vinyl alcohol) functions and applications : Macromolecule Symposia Macromolecule Metal Complexes, **105**, 217-222 (1996) Hirofusa Shirai, Toshiki Koyama, Ying An and Kenji Hanabusa
- Functional metallomacrocycles and their polymers, Part 34. Catalytic oxygenation of cyclohexene by water-soluble polymer containing manganese phthalocyanine complex : Reactive Polymers, **29**, 85-90 (1996) Mutsumi Kimura, Tadayoshi Nishigaki, Toshiki Koyama, Kenji Hanabusa and Hirofusa Shirai.
- Molecular orientation of paramagnetic metal complex by melt-drawing thermotropic liquid crystalline polymers : Macromol. Symposia, **105**, 145-147 (1996) Kenji Hanabusa, Toshiki Koyama and Hirofusa Shirai
- Molecular orientation of paramagnetic metal complexes in melt-drawn fibers of thermotropic liquid crystalline polymers : Macromol. Chem. Phys., **197**(6), 1853-1864 (1996) Kenji Hanabusa, Masami Hashimoto, Mutsumi Kimura, Toshiki Koyama and Hirofusa Shirai
- Hevorragende gelbildung durch und chirale aggregate aus alkylamiden, die aus *trans*-1,2-diaminocyclohexan erhalten wurden: Angew. Chem., **108**(17), 2086-2088 (1996) Kenji Hanabusa, Mamabu Yamada, Mutsumi Kimura and Hirofusa Shirai
- Prominent gelation and chiral aggregation of alkylamides derived from *trans*-1,2-diaminocyclohexane : Angew. Chem. Int. Ed. Engl., **35**, 1949-1951 (1996) Kenji Hanabusa, Mamabu Yamada, Mutsumi Kimura and Hirofusa Shirai
- Formation of organogels by intermolecular hydrogen bonding between ureylene segment : Chem. Lett., **1996**, 885-886 (1996) Kenji Hanabusa, Kouji Shimura, Kazunori Hirose, Mutsumi Kimura and Hirofusa Shirai
- 分子間水素結合により機能する二成分型オイルゲル化剤 : 繊維学会誌, **52**, 129-136 (1996) 英 謙二、渡邊幸路、木村 睦、小山俊樹、白井汪芳
- Neuroprotective effect of 4'-(4-methylphenyl)-2,2':6',2'-terpyridine, a novel inducer of nerve growth factor : Life Science, **59**, 2139-2446(1996) Kyoko Yamamoto, Ryoko Yoshikawa, Shigeru Okuyama, Yuki Takahashi, Yasuko Karasawa, Noriko Hino, Toshio Miyoshi, Hiroaki Araki, Kenji Hanabusa, Hirofusa Shirai and Kazuyuki Tomisawa
- Intra-complex electron transfer in a self-assembling phthalocyanine [2]pseudorotaxane : Chem. Commun., **1996**, 2785-2786(1996) Mutsumi Kimura, Yoshinobu Misawa, Yuji Yamaguchi, Kenji Hanabusa and Hirofusa Shirai
- Small molecular gelling agents to harden organic liquids: Trialkyl *cis*-1,3,5-cyclohexane-carboxamides : Chem. Lett., **1996**, (3), 191-192(1996) Kenji Hanabusa, Atsushi Kawakami, Mutsumi Kimura, and Hirofusa Shirai
- Remarkable viscoelasticity of organic solvents containing trialkyl-1,3,5-benzenetricarboxamide and their intermolecular hydrogen bonding : Chem. Lett., **1996**, (5), 429-430 (1996) Kenji Hanabusa, Chiemi Koto, Mutsumi Kimura, Hirofusa Shirai and Akikazu Kakehi
- Electrochromic polymer derived from oxidized tetrakis(2-hydroxyphenoxy)phthalocyaninato-cobalt(II) complex : Chem. Lett., **1997**, 653-654(1997) Mutsumi Kimura, Takashi Horai, Kenji Hanabusa and Hirofusa Shirai
- Dendric metallophthalocyanine: synthesis and characterization of a zinc(II)phthalocyanine [8]-

- arborol : Chem. Commun., 1997, 1215-1216(1997) Mutsumi Kimura, Kazuaki Nakada, Yuji Yamaguchi, Kenji Hanabusa, Hirofusa Shirai and Nagao Kobayashi
- 高分子錯体による酸化反応：高分子金属錯体(三枝, 土田, 平井編), 化学同人 (1978) 白井汪芳
- 絹タンパク質の金属錯体：続絹糸の構造(北條編), 信教印刷, 長野 (1980) 北條舒正, 白井汪芳
- 高分子金属錯体による酸化反応：高分子錯体触媒(平井, 戸嶋編), 学会出版センター, 東京 (1982) 白井汪芳
- バイオテクノロジー入門：バイオテクノロジー入門(篠原 昭, 田中一行, 白井汪芳編), 培風館 (1986) 白井汪芳
- 桑の紙：桑の文化誌(千曲会館編), 郷土出版 (1986) 白井汪芳
- Properties of thermotropic liquid crystalline poly(4-substituted γ -benzyl L-glutamate)s : Current Topics in Polymer Science Vol. 1 (R. M. Ottenbrite, L. A. Utracki, S. Inoue eds.), Munich Vienna, New York, 236-248 (1987) Eisaku Iizuka, Koji Abe, Kenji Hanabusa, and Hirofusa Shirai
- Polymeric catalysts : Functional Monomer and Polymers (K. Takemoto, Y. Inaki, R. M. Ottenbrite Ed.), Mercel Deckkers, Inc. New York, P. 49- (1987) Hirofusa Shirai and Nobumasa Hojo
- バイオミメティックな消臭法とその応用：新しい消臭剤の商品展開(大阪マーケティングセンター編), 大阪 CMC, 32 (1987) 白井汪芳
- キレート樹脂：最新高分子材料技術総覧, 産業サービスセンター, 315-322 (1988) 白井汪芳, 北條舒正
- ポリアミノ酸金属錯体とその機能：ポリアミノ酸ポリマー - 合成と応用-, シーエムシー, 294 - 310 (1988) 白井汪芳
- イオン交換樹脂：最新高分子材料技術総覧, 産業技術サービスセンタ, 301-310 (1988) 英 謙二, 北條舒正
- 新版高分子辞典(高分子学会高分子辞典編集委員会編)(分担執筆), 朝倉書店 (1988) 白井汪芳
- 金属フタロシアニンポリマー MATERIAL DATA BSE - 新素材(マテリアルデータベース編集委員会編), 日刊工業新聞社, 732 (1988) 白井汪芳
- 生体の感覚に学ぶ：センサ工学入門(清野次郎, 近藤昭治編), 森北出版, 51- 68 (1988) 白井汪芳, 近藤慶之
- 金属フタロシアニンポリマーの合成とその機能無機物質とポリマーとの相互作用：無機物質の界面とポリマーの複合化(村上謙吉編), 工学情報センター出版部, 311 - 349 (1988) 白井汪芳
- バイオミメティック消臭法：最新の消臭剤と消臭技術, 工業技術会, 106 - 124 (1989) 白井汪芳
- 最近の人工酵素による消臭：新しい消臭剤・工業用事消臭剤の開発と新製品化へのアプローチ(猪狩俣将監修), 技術情報協会, 227 - 244 (1989) 白井汪芳
- 金属フタロシアニンをもつ高分子の機能デザイン：バイオ・高分子機能デザインと高分子化学(高分子学会バイオ・高分子研究会編), 学会出版センター, 91 - 119 (1989) 白井汪芳
- 選択配位と物質分離：高分子金属錯体の基礎(栗村芳実, 土田英俊編), 学会出版センター, 180-186 (1989) 白井汪芳
- 錯体カラムの形成と電子輸送：高分子金属錯体の基礎(栗村芳実, 土田英俊編), 学会出版センター, 186 - 192 (1989) 白井汪芳
- 高分子合成反応-重合系：色材工学ハンドブック, (社)色材協会, 15-24 (1989) 英 謙二
- 五感に訴える-新感性繊維：；ニューファイバーサイエンス(篠原 昭, 白井汪芳, 近田淳雄編), 培風館, 131- 146 (1990) 白井汪芳, 小笠原真治, 本宮達也
- 情報を伝える糸：ニューファイバーサイエンス(篠原 昭, 白井汪芳, 近田淳雄編), 培風館, 164 - 182 (1990) 白井汪芳, 鳥羽栄治

酵素法：消・脱臭技術の進歩と実務(西田耕之助監修)，総合技術センター，365-378(1991)白井汪芳
 高分子金属錯体の分子設計と応用：新しい機能性高分子の分子設計（遠藤 剛監修），日本接着学会編，
 シーエムシー，107-128(1991)白井汪芳
 金属イオンとペプチドの配位化学：生体と金属イオン(北條舒正，白井汪芳，金子正夫編)，学会出版セン
 ター，34 - 41 (1991)白井汪芳
 多糖と金属イオン；生体と金属イオン(北條舒正，白井汪芳，金子正夫編)，学会出版センター，115 - 136 (1991)
 白井汪芳
 人工膜の金属イオンによる伸縮：生体と金属イオン(北條舒正，白井汪芳，金子正夫編)，学会出版センタ
 ー，256-260 (1991)白井汪芳
 人工酵素：触媒利用技術集成(新山浩雄監修)，新山社サイテック，410-416 (1991)白井汪芳
 抗菌・消臭繊維の開発：感性の快適性と新素材，シーエムシー，96-106 (1992)白井汪芳
 Catalytic Functions and Application of Metallophthalocyanine Polymers : Phthalocyanine
 Volume 2(C. C. Leznoff, A. B. P. Lever Eds.), VCH, 201-222 (1993)Kenji Hanabusa and
 Hirofusa Shirai
 バイオメディカル特性：第 2 版繊維便覧(繊維学会編)，丸善，227-230 (1994)白井汪芳
 人工酵素繊維：新繊維科学—ニューフロンティアへの挑戦，次世代繊維科学の調査研究会編，(財)通商産
 業調査会，376-380 (1995) 白井汪芳
 夢の繊維を実現する繊維原料への提言：新繊維科学—ニューフロンティアへの挑戦，次世代繊維科学の調
 査研究会編，(財)通商産業調査会，623-625 (1995) 白井汪芳
 次世代繊維科学のあり方：新繊維科学—ニューフロンティアへの挑戦，次世代繊維科学の調査研究会編，
 (財)通商産業調査会，676-682 (1995) 白井汪芳
 Metallophthalocyanines, polymeric(types of structures): Polymeric materials encyclopedia(J.
 C. Salamone eds.), CRC Press, 4232-4236(1996) Hirofusa Shirai and Mutsumi Kimura
 一次元ポリマー：フタロシアニン—化学と機能（白井汪芳，小林長夫編），アイピーシー，44-47 (1997)
 木村 睦，白井汪芳
 フタロシアニンポリマー：フタロシアニン—化学と機能（白井汪芳，小林長夫編），アイピーシー，47-
 55 (1997) 白井汪芳，木村 睦
 LB膜：フタロシアニン—化学と機能（白井汪芳，小林長夫編），アイピーシー，108-119 (1997) 小山俊
 樹，白井汪芳，小林長夫
 電子伝導性：フタロシアニン—化学と機能（白井汪芳，小林長夫編），アイピーシー，196-209 (1997)
 白井汪芳
 エレクトロクロミズム素子：フタロシアニン—化学と機能(白井汪芳，小林長夫編)，アイピーシー，207-213
 (1997) 小山俊樹，白井汪芳
 電池：フタロシアニン—化学と機能（白井汪芳，小林長夫編），アイピーシー，213-218 (1997) 小山俊
 樹，白井汪芳
 センサ素子：フタロシアニン—化学と機能（白井汪芳，小林長夫編），アイピーシー，218-224 (1997)
 白井汪芳，工藤晃久
 触媒機能：フタロシアニン—化学と機能（白井汪芳，小林長夫編），アイピーシー，281-290 (1997) 白
 井汪芳，木村 睦
 消臭繊維：フタロシアニン—化学と機能（白井汪芳，小林長夫編），アイピーシー，309-316 (1997) 白
 井汪芳，英 謙二
 殺菌機能：フタロシアニン—化学と機能（白井汪芳，小林長夫編），アイピーシー，317-320 (1997) 白
 井汪芳，一戸 節

ゲル材料，性質，機能：現代界面コロイド化学の基礎—講義と測定マニュアル，丸善，81-108（1997）
英 謙二

高分子錯体による酸化反応：化学増刊，77，131(1978)白井汪芳

積層型金属フタロシアニンポリマーの導電性：高分子錯体アニュアルレビュー，4（1980）白井汪芳，北
條舒正

分子集合体と高分子合成（1）：化学，38，626-630（1983）英 謙二

分子集合体と高分子合成（2）：化学，38，720-725（1983）英 謙二

悪臭とその防止に関する研究：日本医事新報，3203，25-29（1985）横関徳二，白井汪芳

消臭繊維の作用と効果：Fragrance J.，72，83-87（1985）白井汪芳，横関徳二

においを消す繊維：繊維学会誌，41(8)，267-274（1985）白井汪芳

高分子金属錯体の電子機能と応用：機能材料，5(12)，5-19（1985）白井汪芳，平原洋和

高分子金属錯体の機能と応用：工業材料，33(11)，15-18（1985）白井汪芳

金属フタロシアニンポリマー：高分子錯体レビュー，14（1985）白井汪芳

においを消す繊維：トリガー，85(11)，62（1985）白井汪芳

人工酵素による消臭とその効果：病院設備，27(6)，571-577（1985）白井汪芳，横関徳二

高分子錯体の分離機能 [2]：共栄，24，1-4（1985）白井汪芳

消臭機能をもつ繊維：千曲会報，220，2-4（1985）白井汪芳

プルシアンブルーを表示素子電極に成形できる新製法：テックグラム・ジャパン，2(12)，23（1985）白井汪
芳

Method of having prussian blue from shapes on a display：テックグラム・ジャパン，2(12)，33（1985）

Hirofusa Shirai

新しい高分子液晶の話題：ポリマーダイジェスト，37，2-19（1985）英 謙二

キレート樹脂による光学分割：分離技術，16(6)，11-16（1986）白井汪芳，英 謙二

高分子錯体の分離機能：高分子加工，35(5)，221-232（1986）白井汪芳，英 謙二

においを消す消臭：トリガー別冊，最新技術 100 選，56-57（1986）白井汪芳

人工酵素による消臭：染色工業，34(10)，482-488（1986）白井汪芳

消臭繊維：高分子，35(8)，775-776（1986）白井汪芳

繊維の進化論 - 機能する繊維へのアプローチ：Clotho，2，4（1986）白井汪芳，石川喬司

人工酵素による消臭：建築設備と配管工事，24(8)，71-76（1986）白井汪芳

これからどうなる - 90 年代材料の近未来：工業材料，34(1)，56（1986）白井汪芳

人工酵素による消臭：加工技術，21(6)，367-372（1986）白井汪芳

高分子錯体の分子機能 [完]：共栄，81，1-5（1986）白井汪芳

機能する高分子の開発にけるバイオミメティクス（紹介）：Savemation，1986(12)，12（1986）白井汪芳

キャンパス情報 信州大学繊維学部：Quark，1986(1)，133（1986）白井汪芳

消臭繊維の機能とその効果：長野県工業試験場研究報告，5(6)，30-38（1986）伊東 健，西村哲夫，小林今
朝良，柳沢邦子，築城寿長，白井汪芳

消臭繊維はバイオミメティクスが生んだ未来の繊維（インタビュー）：はちじゅうに，No. 444(6)，14-15
（1986）白井汪芳

人工酵素で消臭ふとん：科学朝日，1986(7)，73（1986）白井汪芳

注目される液晶ポリマーとその加工性：プラスチック成型技術，3，31-41（1986）英 謙二
 制御できる機能高分子：Sevematron, 1987(4), 1（1987）白井汪芳
 酵素類似機能による消臭繊維：繊維機械学会誌，40，P125（1987）白井汪芳
 人工酵素による消臭繊維とその応用：Nagoya, Text, Res. Assoc., 20，56（1987）白井汪芳
 金属フタロシアニン機能の進歩：化学工業，38，332（1987）白井汪芳，英 謙二
 消臭繊維：近代企業リサーチ，8(10)，72（1987）白井汪芳
 臭いを消す繊維ができた：化学，42，307（1987）白井汪芳
 金属フタロシアニンポリマーの合成とその機能 白井汪芳，英 謙二；表面，25，422-（1987）
 人工酵素を利用した消臭繊維：テックグラム・ジャパン，4(33)，31（1987）白井汪芳
 Smell Decomposing Fiber Using an Artificial Enzyme：テックグラム・ジャパン，4(33)，38（1987）H. Shirai
 信州大学放送公開講座 生物工学—バイオテクノロジーの展開：北信越工業教育協会長野県支部により，
8，2-8（1987）白井汪芳
 最近のバイオミメティック消臭法：Fragrance J., 86，75（1988）白井汪芳
 バイオミメティック消臭繊維と実用化：洗濯の科学，33(4)，8-14（1988）白井汪芳
 高分子金属錯体を用いるエレクトロクロミック素子：電子情報通信学会技術研究報告，88(266)，43-47
 （1988）白井汪芳
 機能をもった高分子のいろいろ：化学技術誌 MOL，88(3)，21-28（1988）白井汪芳
 機能高分子：繊維情報，132(7)，1-3（1988）白井汪芳
 機能高分子：豊田繊維機技報，18(10)，84-87（1988）白井汪芳
 バイオミメティック消臭法：共栄，85，1-7（1988）白井汪芳
 臨床結果でも好評消臭繊維：The Daiwabo，7(2)，（1988）白井汪芳
 老人用消臭・抗菌オムツの試作：朝日新聞，（1988）白井汪芳
 人工酵素から消臭繊維の開発：科学と工業，63(4)，8-16（1989）白井汪芳
 高分子金属錯体の合成と応用：日本接着協会誌，25(2)，72-83（1989）白井汪芳
 バイオミメティック消臭法：臭気の研究，29(1)，36-45（1989）白井汪芳
 私の授業：高分子，38(1)，59（1989）白井汪芳
 高分子金属錯体の応用分野：化学工業，40(1)，74-84（1989）白井汪芳
 高分子金属錯体の電子移動：高分子，38，436-439（1989）白井汪芳，平原洋和
 フタロシアニン LB 薄膜：高分子錯体アニュアルレビュー，8-10（1989）小山俊樹，白井汪芳
 抗菌防臭加工，消臭加工布団：たしかな目，48(1)，52-54（1989）白井汪芳
 電圧の質により 3 色に変色する有機エレクトロクロミック素子：テックグラム・ジャパン，2（1989）白
 井汪芳
 衣および住空間における匂い：繊維学会誌，46，23（1990）白井汪芳
 人工酸化酵素を用いる新しい消臭法：表面科学，11(2)，138-144（1990）白井汪芳
 21 世紀へのキーマテリアルとして期待される高分子錯体：高分子錯体アニュアルレビュー，1（1990）白井
 汪芳
 金属錯体と液晶性高分子：高分子錯体アニュアルレビュー，15-17（1990）英 謙二，白井汪芳
 金属フタロシアニンを含むバイオミメティック消臭剤とその応用：化学工業，41，835-841（1990）白井汪芳

金属フタロシアニンを含むバイオミメティック消臭剤と作用：油化学，39，825-830 (1990)白井汪芳
 機能加工の複合化：The Daiwabo，7(6)，(1990)白井汪芳
 抗菌・消臭繊維の開発：機能材料，12，45-53 (1991)白井汪芳
 刺激応答機能および制御機能をもつ高分子材料の現状と展望—一次世代ロボティクスセンサ材料をめざして—：ロボティクスおよびメカトロニクスにおけるセンサ技術調査研究分科会成果報告書，日本機械学会，161-170 (1991) 白井汪芳
 暮らしの中の匂いと消臭繊維の応用：ニューフレイバー，230，4-9 (1991) 白井汪芳
 高分子エレクトロクロミックデバイスに係わる新市場探索調査報告書：財団法人テクノポリス開発機構 1-71 (1991) 白井汪芳，小山俊樹，福沢孝久，筒井徳久，小林敏宏，藤森照尚
 消臭繊維：The Daiwabo，No. 9(1)，(1992)白井汪芳
 新素材を用いた悪臭除去法 白井汪芳；新素材，3(4)，75-81 (1992)
 ポルフィリン・フタロシアニンマンガン錯体によるアニオンの上り坂輸送：高分子錯体アニュアルレビュー，15-16 (1992) 木村 睦，白井汪芳，角 克宏，国府田悦男
 研究開発の夢を語る：ポリファイル，30，21-35 (1993) 赤池敏宏，尾崎史彦，白井汪芳，宮田清蔵，本宮達也
 重要技術研究開発事業：テクハイ信州，9，8 (1993)白井汪芳
 主鎖型高分子金属錯体：高分子，42，576-580 (1993)白井汪芳，英 謙二
 酵素の機能に学ぶ消臭繊維の開発：日本化学会誌，1-11 (1994) 白井汪芳
 防臭・消臭：繊維と工業，50，388-391 (1994) 白井汪芳
 アミノ酸誘導体の低分子系オイルゲル化剤とその分子集合体：高分子，43，628-629 (1994) 英 謙二，白井汪芳
 消臭抗菌繊維と表面処理：表面技術，46(11)，977-982 (1995) 白井汪芳
 金属フタロシアニン誘導体の消臭効果とその応用：臭気の研究，26(6)，343-352 (1995) 白井汪芳，横関徳二
 防臭・消臭繊維：Polyfile，32(381)(11)，36-37 (1995)白井汪芳
 オイルゲル化剤：高分子加工，45(1)，21-26 (1996) 英 謙二，白井汪芳
 繊維科学技術の研究教育拠点形成の時機：SEN'I GAKKAISHI (繊維と工業)，52(10)，396-397 (1996)白井汪芳
 消臭抗菌繊維と表面処理：化学工業，47(12)，19-25 (1996)白井汪芳
 キーワードで占う材料技術の将来—環境—：Polyfile，34(395)，19 (1997)白井汪芳
 繊維系科学技術に関する高等教育の現状と再構築に向けての繊維学会の活動：繊維と工業，53，178-180 (1997) 白井汪芳
 低分子化合物のオイルゲル化剤・・・油や溶剤を固めることができる化合物・・・：共栄，103，26-31 (1997) 英 謙二・白井汪芳
 機能性 dendrimer：高分子錯体アニュアルレビュー，15-17 (1997) 木村 睦
 水溶性高分子金属錯体による触媒作用：環境調和型水溶性錯体触媒の合成・反応の調査，新エネルギー・産業技術総合開発機構，59-64 (1997) 木村 睦

高分子加工崩壊学講座

- Synthesis of an Electron-Acceptor Polymer and its Charge Transfer Complex with an Electron-Donor Polymer: Makromol. Chem., 186, 1505-1512 (1985) Koji Abe, Susumu Haibara, Yoshihiro Itoh and Saburo Senoh
- Solution and Membrane Properties of Zwitterionic Polymers: Makromol. Chem., 187, 1691-1697 (1986) Yoshihiro Itoh, Koji Abe and Saburo Senoh
- Effect of Water-Soluble Polymers on Fusion of Egg Yolk and Soybean Phospholipid Liposomes: J. Polym. Sci., Polym. Chem. Ed., 24, 3433-3446 (1986) Koji Abe, Hidehiko Sakamoto, Yoshihiro Itoh and Saburo Senoh
- Complex Formation of Polyampholyte with Proton-accepting Polymers through Hydrogen Bonding: Makromol. Chem., 187, 967-975 (1986) Koji Abe, Mutsuko Hasegawa, Saburo Senoh
- Association of Copolymers of Methacrylic Acid and 4-Vinylpyridine in Comparison with an Intermacromolecular Complex of Poly(methacrylic acid) with Poly(4-vinylpyridine); J. Polym. Sci., Polym. Chem. Ed., 24, 3461-3474 (1986) Koji Abe and Saburo Senoh
- Polyelectrolytes Containing Dihydronicotinamide I. Electrostatic Effect on the Reduction in Aqueous Solution: J. Polym. Sci., Polym. Chem. Ed., 25, 745-752 (1987) Yoshihiro Itoh, Kazuyoshi Wakisaka, Yu Matsuda, Koji Abe and Saburo Senoh
- Polyelectrolytes Containing Dihydronicotinamide II. Interaction of Polymer and Substrate: J. Polym. Sci., Polym. Chem. Ed., 25, 1383-1394 (1987) Yoshihiro Itoh, Kazuyoshi Wakisaka, Koji Abe and Saburo Senoh
- Polyelectrolytes Containing Dihydronicotinamide III. Fluorescence Quenching by Nicotinamide-Containing Polymers in Aqueous Solution: J. Polym. Sci., Polym. Chem. Ed., 25, 2871-2880 (1987) Yoshihiro Itoh, Koji Abe and Saburo Senoh
- Photon Harvesting Vinylphenanthrene-Methacrylic Acid Polymers: Singlet-State Migration and Trapping: Macromolecules, 22, 2766-2775 (1989) Yoshihiro Itoh, Stephen E. Webber and M. A. J. Rodgers
- On the Limitation of Comparative Quenching as a Measure of Electronic Energy Transfer in Polymer: Macromolecules, 22, 2851-2852 (1989) Yoshihiro Itoh, Keiko Kamioka and Stephen E. Webber
- 培養インスリノーマ (RINr) 細胞の形態および機能に及ぼす高分子電解質錯体の影響-基質親疎水性の検討- : 糖尿病, 32, 635-639 (1989) 市場康子、小野順子、桶田俊光、高木良三郎、阿部康次、妹尾三郎
- Fluorescence Study of Polyelectrolyte Complex Formation I: Complexation of Anthracene-Loaded Poly(methacrylic Acid) with Polycations: Polym. Adv. Tech., 1, 225-230 (1990) Yoshihiro Itoh, Kazuhiko Negishi, Eisaku Iizuka and Koji Abe
- Photon Harvesting Vinylphenanthrene-Methacrylic Acid Polymers: Triplet-State Migration and Trapping in Rigid Solution: Macromolecules, 23, 5065-5070 (1990) Yoshihiro Itoh and Stephen E. Webber
- 生体繊維 (組織) 形成と液晶性 : 繊維学会誌, 46, 528-533 (1990) 飯塚英策
- Molecular sidechain motion and its free volume in thermotropic liquid crystalline poly(γ -alkoxybenzyl L-glutamate)s using spin probe electron paramagnetic resonance: Makromol. Chem., Rapid Commun., 11, 293-298 (1990) Ryota Yamamoto, Kazuo Araki, Yoshio Imamura, Kazuyoshi Imura, Tetsuo Asakura and Eisaku Iizuka

- ¹³NMR studies of thermotropic-liquid crystalline poly(-alkylaryl L-glutamate)s: Makromol. Chem., 191, 345-354 (1990) Ryota Yamamoto, Kazuo Araki, Yoshio Imamura, Tetsuo Asakura, Eisaku Iizuka and Shuji Iida
- Finding of columnar phases of a thermotropic-liquid crystalline polypeptide: Polymer J., 22, 628-630 (1990) Eisaku Iizuka and Shuji Iida
- Fluorescence Study of Polyelectrolyte Complex Formation III: Mobility of Probes in Microdomains: Polym. Adv. Tech., 2, 63-67 (1991) Yoshihiro Itoh, Akira Hachimori and Koji Abe
- Electric and Magnetic Orientation of a Thermotropic-Liquid Crystalline Polypeptide: Polym.J., 23, 1507-1510 (1991) Eisaku Iizuka, Tsuyoshi Kiriki and Koji Abe
- 中国蚕品種「錦陵」における繭糸の物理的性質の雌雄差：日本蚕糸学雑誌, 60, 425-431 (1991) 飯塚英策, 李 秋蓮
- サクサン糸の物理的性質について：日本蚕糸学雑誌, 60, 495-500 (1991) 飯塚英策, 岡地康文, 大林伸吉, 佐藤恭裕, 清水 実, 福田明夫
- Fluorescence Study of Polyelectrolyte Complex Formation II: Effect of Acidity of Polyanions on Complexation: Polymer, 33, 3016-3023 (1992) Yoshihiro Itoh, Kazuhiko Negishi, Eisaku Iizuka, Koji Abe and Masao Kaneko
- 限性品種「黄白」における繭糸の物理的性質：日本蚕糸学雑誌, 62, 495-500 (1993) 飯塚英策, 楊 林祥
- 日本種と比較した中国サクサン品種（青6号）繭糸の物理的性質：日本蚕糸学雑誌, 62, 243-245 (1993) 飯塚英策, 岡地康文, 木谷康臣, 清水 実, 福田明夫, 孫 雲高
- Studies on the physical properties of Indian non-mulberry silks I. *Antheraea proylei* J.: Indian J. Seric., 32, 27-36 (1993) Eisaku Iizuka, Ryouji Kawano, Yasuomi Kitani, Yasufumi Okachi, Minoru Shimizu and Akio Fukuda
- Studies on the physical properties of Indian non-mulberry silks II. *Antheraea assama* Westw.: J. Seric. India, 1, 1-8 (1993) Eisaku Iizuka, Yasufumi Okachi, Shinkichi Ohbayashi, Akio Fukuda, and Minoru Shimizu
- Interaction of Polyelectrolytes with Albumin Using Fluorescence Measurement : J. Macromol. Sci., Pure Appl. Chem., A31, 53-64 (1994) Akira Teramoto, Mitsuru Watanabe, Eisaku Iizuka and Koji Abe
- Studies on the physical properties of Indian non-mulberry silks III. *Antheraea mylitta* D.: Indian J. Seric., 32, 175-183 (1994) Eisaku Iizuka, Yasufumi Okachi, Minoru Shimizu, Akio Fukuda and Mieko Hashizume
- Studies on the physical properties of silk thread from cocoons of Thai local varieties of silkworms, *Bombyx mori* L. : J. Seric. Sci. Jpn., 63, 64-71 (1994) Eisaku Iizuka, Kentaro Uegaki, Hiromasa Takamatsu, Yasufumi Okachi and Eiichi Kawai
- 日本在来品種群繭糸の物理的性質とその雌雄差：日本蚕糸学雑誌, 63, 475-480 (1994) 呂 群, 飯塚英策
- Physical properties of *Antheraea* silks: Int. J. Wild Silkmoth & Silk, 1, 143-146 (1994) Eisaku Iizuka
- 在来品種群繭糸と比較した日本改良品種群繭糸の物理的性質に関する研究：日本蚕糸学雑誌, 64, 214-218 (1995) 呂 群, 飯塚英策
- 絹セリシンとシンディオタクチック・ポリビニールアルコール混合皮膜の物理的性質とその酵素固定化能に関する研究：日本蚕糸学雑誌, 64, 427-434 (1995) 岩元 淳, 野口隆志, 寺本 彰, 飯塚英策
- Studies on the physical properties of *Antheraea yamamai* silks : Int. J. Wild Silkmoth & Silk, 2, 5-10 (1995) Eisaku Iizuka, Shin Sekiguchi, Yasufumi Okachi and Shinkichi Ohbayashi
- Size dependency of the physical properties of *Bombyx* silk : J. Seric. Sci. Jpn., 65, 102-108 (1996) Eisaku Iizuka

Effect of Coil Collapse on Photon-Harvesting Polymers with Carbazole Chromophores:

Macromolecules, **29**, 7847-7852 (1996) Douglas J. Kiserow, Yoshihiro Itoh and Stephen E. Webber

高分子電解質錯体を用いたマイクロカプセル化上皮小体：今日の移植、**9**、125-130(1996)小林信や、春日好雄、菅谷昭、天野純、武本宗樹、岩崎剛史、寺本彰、阿部康次、山田喜紹

Comparative studies on the physical properties of extrathick and extrafine silk thread produced by different varieties of *Bombyx mori*: J. Seric. Sci., Jpn., **65**, 134-136 (1996) Eisaku Iizuka, Akira Teramoto, Qun Lu, Si-Sia Min, Osamu Shimizu

Alternating Copolymers Consisting of Arylalkyl Methacrylates. III. Phosphorescence of Poly(arylalkyl methacrylate-alt-styrene) in a Rigid Solution: Polym. Adv. Tech., **8**, 35-38 (1997) Yoshihiro Itoh, Masamitsu Inoue, Akira Hachimori and Koji Abe

Syntheses and spectroscopic pH titrations of naphthol-labeled poly(methacrylic acid)s: Acta Polym., **48**, 164-168 (1997) Yoshihiro Itoh, Kazuyoshi Ogura, Takeshi Hirota, Akira Hachimori and Koji Abe

Effect of Coil Collapse on Photon-Harvesting Polymers with Phenanthrene Chromophores:

Macromolecules, **30**, 2934-2940 (1997) Douglas J. Kiserow, Yoshihiro Itoh and Stephen E. Webber

N-イソプロピルアクリルアミドを含む高分子電解質錯体の感熱特性：高分子論文集、**54**、477-482 (1997) 寺本彰、河野通人、阿部康次

Photodissociation of 2-Naphthol-labeled Polyelectrolytes in Aqueous Solution: Europ. Polym. J., in press (1997) Yoshihiro Itoh, Kazuyoshi Ogura, Akira Hachimori and Koji Abe

温度、湿度のフィブロインの溶解性と分解性に対する影響：日本蚕糸学雑誌、**66**、印刷中 (1997) 関思佳、甲斐豊健、寺本彰、阿部康次

Functional culture of human periodontal ligament fibroblast(HPLF) on polyelectrolyte complex(PEO): J. Macromol. Sci., Pure and Appl. Chem., in press (1997) Takaichi Hamano, Hanako Suzuki, Akira Teramoto, Eisaku Iizuka and Koji Abe

Physical properties of eri silks: Int. J. Wild Silkmoth & Silk, **3** (in press) Eisaku Iizuka and Hidenori Itoh

Physical properties of cynthia silk as compared with those of eri silk: Int. J. Wild Silkmoth & Silk, **3** (in press) Eisaku Iizuka, Haruki Kamiya, Hiroshi Hayashi and Masashi Fukumoto

Interactions between macromolecules in Solution and Intermacromolecular Complexes: Eishun Tsuchida and Koji Abe (Springer-Verlag Berlin) (1982)

高分子集合体：(分担執筆および編集) 阿部康次 (学会出版センター) (1983)

Polyelectrolyte Complexes: Eishun Tsuchida and Koji Abe (Developments in Ionic Polymers-2), 191-266 (1986)

新版高分子辞典：(部分執筆)、阿部康次 (朝倉書店) (1988)

SILK (Physico-Chemical Properties): Eisaku Iizuka (The Polymeric Materials Encyclopedia - Synthesis, Properties and Applications) (CRC Press, Inc.) pp. 7721-7728 (1991)

連続ポテンシャル場と分子間相互作用：阿部康次 (高分子錯体・動的相互作用と電子過程) **315-332** (学会出版センター) (1991)

高分子と細胞膜の相互作用：阿部康次、土田英俊、(共立出版) (1992)

Spinning Process and Physical Properties of Silk Thread : Eisaku Iizuka (Chemical Processing of Silk) (M.L. Gulrajani, ed.,) 27-45 (1993)

第2版繊維便覧：(化粧品と繊維、分担執筆) 阿部康次、(丸善) (1994)

高分子コンプレックス：阿部康次 (共立出版) (1994)

- 新繊維科学—ニューフロンティアへの挑戦—（自己成長・修復・複製機能を持つ繊維：（分担執筆）、阿部康次（通商産業調査会）（1995）
- Effects of Magnetic Fields :Eisaku Iizuka (Polymer Liquid Crystals 4. Electrical, Magnetic and Optical Effects on PLCs and their uses in Opto Electronics) (Chapman & Hall) (inpress)
- Culture of RINr Cells on Polyelectrolyte Complex(PEC) Coated Dish: The 39th Annual Meeting of the Tissue Culture Association, (1988) Yasuko Ichiba, Koji Abe, Toru Noguchi, Junko Ono, Saburo Senoh and Ryouzaburou Takaki
- Adhesion of Hepatocyte on Polyelectrolyte Complex with Hydrophilic and Hydrophobic Microdomain: The Third World Biomaterials Congress, (1988) Kaori Yasuda, Koji Abe, Saburo Senoh, Akira Kobayashi and Toshihiro Akaike
- Complex Formation of Amphoteric and Bipilic Polyelectrolytes and Application for Biomedical Materials: The 1989 International Congress of Pacific Basin Societies, (1989) Koji Abe
- Comparative studies on the physical properties of silk thread in terms of the sex of silkworm: The 1st Int'l Silk Conf., China (Suzhou, 1991) Qiulian LI and Eisaku Iizuka
- Comparative studies on the physical property of silk thread from cocoons of Thai local varieties, *Bombyx mori* L :The 2nd Int'l Silk Conf., China (Suzhou, China, 1993) Eisaku Iizuka, Qun Lu, Lin Xiang Yang and Eiichi Kawai
- Interaction of Albumin with Polysaccharides--Effects of Ionic Groups in Polysaccharides on the Interaction: American Chemical Society Meetings, Symposium on "Protein Separations in Polymeric Media", (1994) Koji Abe
- Storage of Purified Water and Ozone Treatment in Distribution Pipe Sterilization with Ozone and Degradation of LPS :PDA Asian Symposium & Exhibit, (1994) Takakazu Satsuka, Koji Abe, Ryouichi Tamura, Hideyuki Nakamura, Takeo Kuwahara, and Yoshiyuki Kondo
- Dependence of the thread size on the physical properties of silk thread :The 16th Congress of the Int'l Seric. Commission (Bandung, Indonesia, 1995) Eisaku Iizuka,
- Magnetic-field orientation of polymer liquid crystals and its Applications :Int'l Symp. on High-Tech Polymers & Polymeric Complexes (Lanzhou, China, 1996) Eisaku Iizuka,
- Xenotransplantation of microencapsulated parathyroid tissue: 32 congress of the European society for surgical pesearch (1997) Shinya Kobayashi, Yoshio Kasuga, Minoru Hujimori, Kiyoshi Shingu, Yoshihisa Hama, Kenichi Itoh, Jun Amano, Takeshi Iwasaki, Humihiro Kawakami, Akira Teramoto and Koji Abe
- Studies on the physical properties of eri silk :The 17th Congress of the Int'l Seric. Commision (Londrina, Brazil, 1997) Eisaku Iizuka,

資源開発化学講座

- Chloro(phenylthio)methyltrimethylsilane: Preparation and some synthetic reactions: J. Chem. Soc. Perkin Trans. 1, 435-438 (1984); Iwao Yamamoto, Kazuhide Okuda, Shigemasa Nagai, Jiro Motoyoshiya, Haruo Gotoh and Kei Matsuzaki
- Discotic liquid crystals of organocopper complexes: The substituent effects: J. Chem. Soc., Chem. Commun., 1099-1100 (1984); Kazuchika Ohta, Akinori Ishii, Iwao Yamamoto and Kei Matsuzaki
- Synthesis of water-soluble branched polysaccharides and their antitumor activity, 1 Branched polysaccharides from cellulose acetate: Makromolekulare Chemie, 186, 449-456 (1985); Kei Matsuzaki, Iwao Yamamoto and Takaya Sato
- Synthesis of 5,6-dihydro-2-thiouracils: Synthesis, 686-688 (1985); Iwao Yamamoto, Ken-ichi Fukui, Sadao Yamamoto, Kazuchika Ohta and Kei Matsuzaki
- Synthesis of chlorovinyl phenyl sulfides and sulfones from diethyl chloro-(phenylthio)-methylphosphonate: Synthesis, 676-677 (1985); Iwao Yamamoto, Toshito Sakai, Sigeto Yamamoto, Kazuchika Ohta and Kei Matsuzaki
- Synthesis of cyclopropanes and dihydrofurans from α -chlorovinyl sulfones: J. Chem. Soc. Perkin Trans. 1, 2785-2787 (1985); Iwao Yamamoto, Toshito Sakai, Kazuchika Ohta, Kei Matsuzaki and Keiichi Fukuyama
- Discotic liquid crystals of transition metal complexes, 1: Bis[1,3-di(p-n-octylphenyl)-propane-1,3-dionato]-copper(II) and bis[1,3-di(p-n-octyloxyphenyl)propane-1,3-dionato]-copper(II): Mol. Cryst. Liq. Cryst., 116, 299-307 (1985); Kazuchika Ohta, Akinori Ishii, Hiromitsu Muroki, Iwao Yamamoto and Kei Matsuzaki
- Double melting behavior of disk-like complexes substituted by long chains, 1: The substituent effect: Mol. Cryst. Liq. Cryst., 130, 249-263 (1985); Kazuchika Ohta, Hiromitsu Muroki, Koh-ichi Hatada, Iwao Yamamoto and Kei Matsuzaki
- Synthesis of water-soluble branched polysaccharides and their antitumor activity, 2 Branched polysaccharides from curdlan and curdlan acetate: Makromolekulare Chemie, 187, 317-324 (1986); Kei Matsuzaki, Iwao Yamamoto, Takaya Sato and Ryuichi Ohshima
- Synthesis of water-soluble branched polysaccharides and their antitumor activity, 2 Branched polysaccharides from ivorynut mannan, ivorynut mannan acetate and konjak gulcomannan: Makromolekulare Chemie, 187, 325-331 (1986); Kei Matsuzaki, Iwao Yamamoto, Takaya Sato and Ryuichi Ohshima
- ¹³C NMR investigations of synthetic branched polysaccharides: Carbohydrate Polymers, 6, 155-163 (1986); Kei Matsuzaki, Iwao Yamamoto, Takaya Sato, Koji Enomoto, Tokiji Kawamura and Hidefumi Hirai
- Synthesis of water-soluble, branched polysaccharides having D-mannopyranose, D-arabinofuranose, or oligo-D-arabinofuranose side-chains and their antitumor activity: Carbohydrate Res., 157, 171-182 (1986); Kei Matsuzaki, Takaya Sato, Koji Enomoto, Iwao Yamamoto, Ryuichi Ohshima, Ken-ichi Hatanaka, Toshiyuki Uryu, Hanae Kaku, Yoshiaki Sone and Akira Misaki
- Discotic liquid crystals of transition metal complexes, 2: The effect of chain length on discotic mesomorphism in bis[1,3-di(p-n-alkylphenyl)propane-1,3-dionato]copper(II): Mol. Cryst. Liq. Cryst., 135, 247-264 (1986); Kazuchika Ohta, Hiromitsu Muroki, Akira Takagi, Iwao Yamamoto and Kei Matsuzaki

- Novel discotic liquid crystals obtained from substituted bis(dithiolene)nickel complexes: J. Chem. Soc., Chem. Commun., 883-884 (1986); Kazuchika Ohta, Akira Takagi, Hiromitsu Muroki, Iwao Yamamoto, Kei Matsuzaki, Tamotsu Inabe and Yusei Maruyama
- First examples exhibiting both double melting behavior and mesomorphism in a series of long chain substituted compounds: 1,3-di(p-n-alkoxyphenyl)propane-1,3-dione: Mol. Cryst. Liq. Cryst., 140, 163-177 (1986); Kazuchika Ohta, Hiromitsu Muroki, Koh-ichi Hatada, Akira Takagi, Hiroshi Ema, Iwao Yamamoto and Kei Matsuzaki
- Discotic liquid crystals of transition metal complexes, 3: The first-established discotic lamellar phase in bis[1,3-di(p-n-alkoxyphenyl)propane-1,3-dionato]copper(II): Mol. Cryst. Liq. Cryst., 140, 131-152 (1986); Kazuchika Ohta, Hiromitsu Muroki, Akira Takagi, Koh-ichi Hatada, Hiroshi Ema, Iwao Yamamoto and Kei Matsuzaki
- Tandem Wittig reactions of 1,1-diphenylphosphorinanium salt: J. Chem. Soc. Perkin Trans. 1, 1537-1539 (1987); Iwao Yamamoto, Tetsuya Fujimoto, Kazuchika Ohta and Kei Matsuzaki
- 環状ホスホニウム塩を用いる Douglas Fir Tussock Moth 性フェロモンの合成: 日本化学会誌, 1227-1230 (1987); 山本 巖, 田中 聰, 藤本哲也, 太田和親, 松崎 啓
- Discotic liquid crystals of transition metal complexes, 4: Novel discotic liquid crystals obtained from substituted bis(dithiolene)nickel complexes by a new method: Mol. Cryst. Liq. Cryst., 147, 15-24 (1987); Kazuchika Ohta, Akira Takagi, Hiromitsu Muroki, Iwao Yamamoto, Kei Matsuzaki, Tamotsu Inabe and Yusei Maruyama
- Discotic liquid crystals of transition metal complexes, 5: Double melting behavior and double clearing behavior of discogens: Mol. Cryst. Liq. Cryst., 147, 61-78 (1987); Kazuchika Ohta, Hiroshi Ema, Hiromitsu Muroki, Iwao Yamamoto and K. Matsuzaki
- Sulfation of the immunodulating polysaccharide lentinan: A novel strategy for antivirals to human immunodeficiency virus (HIV): Biochem. Pharmacol., 37, 2887-2891 (1988); Osamu Yoshida, Hideki Nakashima, Takashi Yoshida, Yutaro Kaneko, Iwao Yamamoto, Kei Matsuzaki, Toshiyuki Uryu and Naoki Yamamoto
- Electrical properties of condensed phases of the mesogen bis(octadecyloxymethyl-phthalocyaninato)lutetium: Chem. Phys. Lett., 143, 400-403 (1988); Zoulikha Belarbi, Monique Maitrot, Kazuchika Ohta, Jacques Simon and Jean-Jacques Andre
- Laser induced triplet excitons in the columnar phases of an octasubstituted metal free phthalocyanine: J. Am. Chem. Soc., 110, 2001-2002 (1988); Dimitra Markovitsi, Thu-Hoa Tran-Thi, Valerie Briois, Jacques Simon and Kazuchika Ohta
- Influence of the nature of the side chains on the mesomorphic properties of octasubstituted phthalocyanine derivatives. Annelides XXIX: Nouv. J. Chim., 12, 751-754 (1988); Kazuchika Ohta, Laurent Jacquemin, Claude Sirlin, Louis Bosio and Jacques Simon
- X-ray diffraction studies on discotic lamellar phase in bis[1,3-di(p-n-alkoxy-phenyl)propane-1,3-dionato]copper(II): Mol. Cryst. Liq. Cryst., 163, 211-219 (1988); Hirofumi Sakashita, Akira Nishitani, Y. Sumiya, Hikaru Terauchi, Kazuchika Ohta and Iwao Yamamoto
- Discotic liquid crystals of transition metal complexes, 6: Monotropic lamella mesomorphism of tetrakis-(n-alkyldithiolato)dinickel(II) and bis(n-alkylxanthato)nickel(II) complexes: Liq. Cryst., 3, 1671-1687 (1988); Kazuchika Ohta, Hiroshi Ema, Iwao Yamamoto and Kei Matsuzaki
- Chemistry of cyclic phosphorus compounds. 3. Synthesis of pheromones having an γ , δ -unsaturated ketone system from 1,1-diphenylphospholanium perchlorate: J. Org. Chem., 54, 747-750 (1989);

- Iwao Yamamoto, Satoshi Tanaka, Tetsuya Fujimoto and Kazuchika Ohta
 π -Acceptors in discotic columnar liquid crystals; An octa-substituted bis(diphenylethane-1,2-dithiol)nickel complex: *J. Chem. Soc., Chem. Commun.*, 1610-1611 (1989); Kazuchika Ohta, Hiroshi Hasebe, Hiroshi Ema, Tetsuya Fujimoto and Iwao Yamamoto
- Synthesis and columnar mesomorphism of octa(dodecyl)tetrapyrazinoporphyrazine and its copper(II) complex: *J. Chem. Soc., Chem. Commun.*, 1611-1613 (1989); Kazuchika Ohta, Takuya Watanabe, Tetsuya Fujimoto and Iwao Yamamoto
- Synthesis, structure and antiviral activity of sulfates of curdlan and its branched derivatives: *British Polym. J.*, 23, 245-250 (1990); Iwao Yamamoto, Kesayo Takayama, Ken Honma, Takashi Gonda, Kei Matsuzaki, Ken-ichi Hatanaka, Takashi Yoshida, Toshiyuki Uryu, Osamu Yoshida, Hideki Nakashima, Naoki Yamamoto, Yutaro Kaneko and Tohru Mimura
- Rod-like liquid crystals of organic transition metal complexes I. Reversible transformation between blue smectogen and red nematogen: *Liq. Cryst.*, 8, 311-330 (1990); Kazuchika Ohta, Hiroshi Ema, Yasue Morizumi, Takuya Watanabe, Tetsuya Fujimoto and Iwao Yamamoto
- Synthesis, structure and antiviral activity of sulfates of cellulose and branched derivatives: *Carbohydr. Polym.*, 14, 53-63 (1991); Iwao Yamamoto, Kesayo Takayama, Ken Honma, Takashi Gonda, Kei Matsuzaki, Ken-ichi Hatanaka, Toshiyuki Uryu, Osamu Yoshida, Hideki Nakashima, Naoki Yamamoto, Yutaro Kaneko and Tohru Mimura
- Mesomorphism and unusual multiple melting behavior via smectic E phase in p-n-alkoxybiphenylbutane-1,3-dione: *Mol. Cryst. Liq. Cryst.*, 195, 103-121 (1991); Kazuchika Ohta, Osamu Takenaka, Hiroshi Hasebe, Yasue Morizumi, Tetsuya Fujimoto and Iwao Yamamoto
- Discotic liquid crystals of transition metal complexes 7: Dimer discotic rectangular ordered mesophase in bis(p-n-alkoxybiphenylbutane-1,3-dionato)copper(II) complexes: *Mol. Cryst. Liq. Cryst.*, 195, 135-148 (1991); Kazuchika Ohta, Osamu Takenaka, Hiroshi Hasebe, Yasue Morizumi, Tetsuya Fujimoto and Iwao Yamamoto
- Discotic liquid crystals of transition metal complexes 8: Enantiotropic nematic mesomorphism and helical formation of bis[1-(p-n-alkoxybiphenyl)-3-alkylpropane-1,3-dionato]copper(II) complexes: *Mol. Cryst. Liq. Cryst.*, 195, 123-133 (1991); Kazuchika Ohta, Osamu Takenaka, Hiroshi Hasebe, Yasue Morizumi, Tetsuya Fujimoto and Iwao Yamamoto
- Discotic liquid crystals of transition metal complexes 9: Synthesis and properties of discotic liquid crystals of tetrapyrazinoporphyrazine derivatives: *Mol. Cryst. Liq. Cryst.*, 196, 13-26 (1991); Kazuchika Ohta, Takuya Watanabe, Hiroshi Hasebe, Yasue Morizumi, Tetsuya Fujimoto, Iwao Yamamoto, Dominique Lelievre and Jacques Simon
- Mesomorphic phase transitions of 5,10,15,20-tetrakis(4-n-dodecylphenyl)porphyrin: *Chem. Lett.*, 25-28 (1991); Yo Shimizu, Masaru Miya, Akira Nagata, Kazuchika Ohta, Ayao Matsumura, Iwao Yamamoto and Shigekazu Kusabayashi
- Synthesis and mesomorphic properties of 4,4'-di(n-alkyl)stilbenes: *Mol. Cryst. Liq. Cryst.*, 201, 147-160 (1991); Zoulikha Belarbi-Massouras, Akira Takagi, Hiroshi Ema, Hiroshi Hasebe, Kazuchika Ohta, George Massouras, Tetsuya Fujimoto and Iwao Yamamoto
- Discotic liquid crystals of transition metal complexes 10: Phthalocyanine derivatives substituted with n-alkoxyphenyl side chains: *Liq. Cryst.*, 10, 357-368 (1991); Kazuchika Ohta, Takuya Watanabe, Satoshi Tanaka, Tetsuya Fujimoto, Iwao Yamamoto, Pierre Bassoul, Nathalie Kucharczyk and Jacques Simon

- Discotic liquid crystals of transition metal complexes 11: The first π -acceptor in discotic columnar liquid crystals obtained from octasubstituted bis(diphenylethane-1,2-dithiolene)nickel complexes: *Mol. Cryst. Liq. Cryst.*, **208**, 21-32 (1991); Kazuchika Ohta, Hiroshi Hasebe, Hiroshi Ema, Mitsuo Moriya, Tetsuya Fujimoto and Iwao Yamamoto
- Discotic liquid crystals of transition metal complexes 12: The effect of the alkoxy chain length on the mesomorphism of bis[1,2-di(3',4'-di-n-alkoxyphenyl)ethane-1,2-dithiolene]nickel complexes: *Mol. Cryst. Liq. Cryst.*, **208**, 33-41(1991); Kazuchika Ohta, Hiroshi Hasebe, Mitsuo Moriya, Tetsuya Fujimoto and Iwao Yamamoto
- Discotic liquid crystals of transition metal complexes 13: Synthesis and discotic columnar mesomorphism of π -donor bis[1,2-di(3',4'-di-n-alkoxyphenyl)ethane-1,2-dioximato]nickel(II) complexes: *Mol. Cryst. Liq. Cryst.*, **208**, 43-54 (1991); Kazuchika Ohta, Hiroshi Hasebe, Mitsuo Moriya, Tetsuya Fujimoto and Iwao Yamamoto
- Discotic liquid crystals of transition metal complexes 14: The columnar mesomorphism of the branched-chain- substituted tetrakis(dithioacetato)dinickel(II) complex: *Mol. Cryst. Liq. Cryst.*, **208**, 55-63 (1991); Kazuchika Ohta, Yasue Morizumi, Hiroshi Ema, Tetsuya Fujimoto and Iwao Yamamoto
- Thermochromism and solvatochromism of bis[1,2-di-(3,4-di-n-alkoxyphenyl)- ethanedione dioximato]nickel(II) complexes: *J. Mater. Chem.*, **1**, 831-834 (1991); Kazuchika Ohta, Hiroshi Hasebe, Mitsuo Moriya, Tetsuya Fujimoto and Iwao Yamamoto
- Chemistry of cyclic phosphorous compounds 4. Syntheses of the sex pheromone from the pedal gland of bontebok and some 1,4-diketones by use of 1,1-diphenylphosphonium perchlorate: *J. Org. Chem.*, **56**, 4799-4802 (1991); Tetsuya Fujimoto, Yukihiro Hotei, Hisashi Takeuchi, Satoshi Tanaka, Kazuchika Ohta and Iwao Yamamoto
- Halogenovinyl sulfones Part 3. Synthesis of polyfunctional cyclopropanes and dihydrofurans from α -bromovinyl sulfones: *J. Chem. Res. (S)*, **84** (1992); *J. Chem. Res. (M)*, 0656-0671 (1992); Iwao Yamamoto, Naofumi Saiuchi, Norio Futaesaku, Katsutoshi Fujimoto, Tetsuya Fujimoto and Kazuchika Ohta
- Halogenovinyl sulfones 4. Synthesis and some reactions of 2-phenylsulfonyl-2-propenyl isothiocyanate: *J. Heterocycl. Chem.*, **29**, 515-518 (1992); Iwao Yamamoto, Koji Kajiwara, Tetsuya Fujimoto and Kazuchika Ohta
- Discotic liquid crystals of transition metal complexes 15: Dimer discotic rectangular ordered columnar mesophase in bis(p-n-hexadecylbiphenylbutane-1,3- dionato)copper(II) complex: *Mol. Cryst. Liq. Cryst.*, **214**, 143-149 (1992); Kazuchika Ohta, Yasue Morizumi, Hajime Akimoto, Osamu Takenaka, Tetsuya Fujimoto and Iwao Yamamoto
- Rod-like liquid crystals of organic transition metal complexes 2: The effect of the introduction of branched alkyl chains to bis(dithiobenzoato)nickel(II) on the mesomorphism: *Mol. Cryst. Liq. Cryst.*, **214**, 151-159 (1992); Kazuchika Ohta, Yasue Morizumi, Hiroshi Ema, Tetsuya Fujimoto, Iwao Yamamoto and Tosio Sakurai
- Rod-like Liquid Crystals of Organic Transition Metal Complexes 3: A Reversible Transition between Dimer Smectic E Phase and Monomer Smectic A Phase in the [N,N'-(5-alkylsalicylidene)enhylenediaminato]nickel(II) Complexes: *Mol. Cryst. Liq. Cryst.*, **214**, 161-169 (1992); Kazuchika Ohta, Yasue Morizumi, Tetsuya Fujimoto, Iwao Yamamoto, Kazuo Miyamura and Yohichi Gohshi

- Synthesis of cycloheptenyldiphenylphosphine oxides from the reactions of a cyclic phosphonium salt with α , β -unsaturated carbonyl compounds: *J. Chem. Soc., Chem. Commun.*, 1263-1264 (1992); Tetsuya Fujimoto, Yukiharu Takeuchi, Koh-ichi Kai, Yukihiko Hotei, Kazuchika Ohta and Iwao Yamamoto
- Mesomorphic phase transitions of tetraphenylporphyrins with four long aliphatic chains: *Liq. Cryst.*, 14, 795-805 (1993); Yo Shimizu, Masaru Miya, Akira Nagata, Kazuchika Ohta, Iwao Yamamoto and Shigekazu Kusabayashi
- Discotic liquid crystals of transition metal complexes. XVI. Discotic mesomorphism and unique chromism of bis[1,2-bis(3,4-dialkoxyphenyl)ethanedione dioximato]palladium(II) complexes: *Bull. Chem. Soc., Jpn.*, 66, 3553-3558 (1993); Kazuchika Ohta, Mitsuo Moriya, Mayumi Ikejima, Hiroshi Hasebe, Tetsuya Fujimoto and Iwao Yamamoto
- Discotic liquid crystals of transition metal complexes. XVII. The mechanism of "mesomorphic thermochromism" in bis(octasubstituted diphenylglyoximato)-palladium(II) complexes established by their temperature-dependent electronic spectra: *Bull. Chem. Soc., Jpn.*, 66, 3559-3564 (1993); Kazuchika Ohta, Mitsuo Moriya, Mayumi Ikejima, Hiroshi Hasebe, Tetsuya Fujimoto and Iwao Yamamoto
- Stereoselective synthesis of trans-hydroazulene derivatives by tandem Michael-intramolecular Wittig reactions of a cyclic phosphonium ylide with alkyl or aryl 1-cyclopentenyl ketones: *J. Org. Chem.*, 58, 7322-7323 (1993); Tetsuya Fujimoto, Yuh-ko Uchiyama, Yoh-ichi Kodama, Kazuchika Ohta, Iwao Yamamoto and Akikazu Kakehi
- Synthesis of a triene from a cyclic phosphonium salt and its intramolecular Diels-Alder reaction to give a decalin derivative: *J. Chem. Res. (S)*, 486-487 (1993); *J. Chem. Res. (M)*, 3280-3289 (1993); Tetsuya Fujimoto, Rie Nakao, Yukihiko Hotei, Kazuchika Ohta and Iwao Yamamoto
- Some synthetic utilities of cyclic phosphonium salt: *Phosphorus, Sulfur, and Silicon*, 77, 170 (1993); Tetsuya Fujimoto, Yukiharu Takeuchi, Hisashi Takeuchi, Koh-ichi Kai, Yoh-ichi Kodama, Kazuchika Ohta and Iwao Yamamoto
- Reactions of the chloro(diisopropylamino)phosphanilium cation with unsaturated alcohols: *J. Chem. Soc. Perkin Trans. 1*, 2867-2872 (1994); Tatsuji Kasaka, Ayao Matsumura, Makoto Kyoda, Tetsuya Fujimoto, Kazuchika Ohta, Iwao Yamamoto and Akikazu Kakehi
- Synthesis and aza-Wittig reactions of cyclic amino phosphonium salts: *J. Org. Chem.*, 59, 7144-7147 (1994); Toshito Sakai, Takuya Kodama, Tetsuya Fujimoto, Kazuchika Ohta, Iwao Yamamoto and Akikazu Kakehi
- Rod-like liquid crystals of organic transition metal complexes 4: Optically positive uniaxial nematic phase in the bis[1-(p-n-alkoxybiphenyl)-3-(n-alkyl)propane-1,3-dionato]copper(II) complexes: *J. Mater. Chem.*, 4, 61-69 (1994); Kazuchika Ohta, Hajime Akimoto, Tetsuya Fujimoto and Iwao Yamamoto
- Chromic materials 1: Liquid crystalline behaviour and electrochromism in bis(octakis-n-alkylphthalocyaninato)-lutetium(III) complexes: *J. Mater. Chem.*, 4, 533-536 (1994); Tsuyoshi Komatsu, Kazuchika Ohta, Tetsuya Fujimoto and Iwao Yamamoto
- Discotic liquid crystals of transition metal complexes. 18. Discotic liquid crystalline behaviour in phthalocyanine compounds substituted by steric hindrance groups at the core: *J. Mater. Chem.*, 4, 537-540 (1994); Tsuyoshi Komatsu, Kazuchika Ohta, Takuya Watanabe, Hiroshi Ikemoto, Tetsuya Fujimoto and Iwao Yamamoto

- Synthesis of triphenylene-based porphyrazinato metal(II) complexes which display discotic columnar mesomorphism: *J. Chem. Soc., Chem. Commun.*, 995-996 (1995); Bernhard Mohr, Gerhard Wegner and Kazuchika Ohta
- Reaction of cyclic amino phosphonium salts with α -chlorovinyl sulfone: *Phosphorus, Sulfur, and Silicon*, **108**, 99-102 (1996); Toshito Sakai, Tetsuya Fujimoto, Kazuchika Ohta and Iwao Yamamoto
- Phosphonylation of sugar derivatives using phosphanylium cation: *Heterocycl. Commun.*, **2**, 41-46 (1996); Tatsuji Kasaka, Makoto Kyoda, Tetsuya Fujimoto, Kazuchika Ohta, Iwao Yamamoto and Akikazu Kakehi
- Functionalization of aminophosphonic chlorides and synthesis of phosphorus heterocyclic compounds: *Phosphorus, Sulfur, and Silicon*, **113**, 59-65 (1996); Tatsuji Kasaka, Makoto Kyoda, Ken Taketazu, Hideki Kobayashi, Tetsuya Fujimoto, Ryozi Iriye and Iwao Yamamoto
- Halogenovinyl sulfones 5. Synthesis of a dibenzopyran derivative from an intramolecular Diels-Alder reaction: *Phosphorus, Sulfur, and Silicon*, **116**, 203-210 (1996); Iwao Yamamoto, Toshiyuki Kohara, Tetsuya Fujimoto and Kazuchika Ohta
- Discotic liquid crystals of transition metal complexes 19. Discotic mesomorphism and double clearing behavior of octakis(dialkoxyphenyl)phthalocyanine derivatives: *Applied Organometallic Chemistry*, **10**, 623-635 (1996); Kazuchika Ohta, Satoru Azumane, Takuya Watanabe, Satoshi Tsukada and Iwao Yamamoto
- Gels of bis[1,2-bis(3,4-di-n-alkoxyphenyl)ethanedione dioximato]palladium(II) complexes: *Bull. Chem. Soc., Jpn.*, **70**, 1199-1203 (1997); Kazuchika Ohta, Mitsuo Moriya, Mayumi Ikejima, Hiroshi Hasebe, Nagao Kobayashi and Iwao Yamamoto
- Preparation of optically active succinic acid derivatives. 1. Optical resolution of 2-benzyl-3-(cis-hexahydroisindolin-2-ylcarbonyl)propionic acid: *Chem. Pharm. Bull.*, in press; Toshiaki Yamaguchi, Takashi Yanagi, Hiroshi Hokari, Yuko Mukaiyama, Tetsuhide Kamijo and Iwao Yamamoto
- Synthesis of seven-membered cyclic enol ether derivatives from the reaction of a cyclic phosphonium ylide with α , β -unsaturated esters: *J. Org. Chem.*, in press; Tetsuya Fujimoto, Yoh-ichi Kodama, Iwao Yamamoto and Akikazu Kakehi
- Synthesis of antitumor polysaccharides: *Polymer science and Technology*, Vol. 38; *Applied bioactive polymeric materials*: C. G. Gebelein, C. E. Carraher, Jr. and V. R. Foster, Ed., 165-174, Plenum Press, New York and London(1988); Kei Matsuzaki, Iwao Yamamoto, Koji Enomoto, Yutaro Kaneko, Tohru Mimura and Tsuyoshi Shiio
- 有機金属錯体の液晶：季刊化学総説 No.22「液晶の化学」(日本化学会編)，128-144，学会出版センター(1994)；太田和親
- 有機金属錯体液晶：「液晶デバイスハンドブック第2版」(日本学術振興会情報科学用有機材料第142委員会編)，印刷中，日刊工業新聞社出版局；太田和親
- 液晶：「フタロシアニン—化学と機能—」(共同執筆)，100-108，アイピーシー(1997)；太田和親
- 低次元電導体を目指した液晶：化学と工業，**36**，904-905(1983)；太田和親
- 有機遷移金属錯体の液晶：Organometallic News，128-132(1990)；太田和親
- 有機遷移金属錯体のディスコティック液晶：有機合成化学協会誌，**49**，486-496(1991)；太田和親，山本 巖
- Chemistry of phosphonium salts containing ring system: *Heteroatom Chem. Rev.*, **5**, 270-311(1991); Toru Minami and Iwao Yamamoto
- 二軸性ネマチック液晶相を示す β -ジケトン系銅錯体：化学と工業，**45**，812(1992)；太田和親

高分子電子化学講座

- Multinuclear macromolecular metal complexes, 5. Synthesis of a binuclear copper Schiff's base complex covalently bound to poly(vinylamine): *Makromol. Chem.*, **187**, 763-769 (1986); Toshiki Koyama, Akio Kurose, Etsuko Masuda, Kenji Hanabusa, Hirofusa Shirai, Tadao Hayakawa, and Nobumasa Hojo
- 金属フタロシアニンポリマーで修飾した電極を用いたヨウ素二次電池：高分子論文集，**44**, 287-290 (1987); 福澤孝久，伊藤 弘，小山俊樹，増田悦子，英 謙二，白井汪芳，平原洋和
- Multinuclear macromolecule metal complexes 2. Preparation and characterization of Prussian blue and its analogs bonded to poly(vinylamine hydrochloride): *Colloid & Polymer Sci.*, **265**, 786-790 (1987); Toshiki Koyama, Riichirou Hayashi, Toshimi Yamane, Etsuko Masuda, Akio Kurose, Kenji Hanabusa, Hirofusa Shirai, Tadao Hayakawa, and Nobumasa Hojo
- N,N'-ジサリチリデン-2-ヘキサデシル-1,3-プロパンジアミナト金属(II)錯体のLB膜：日本化学会誌，**2138**-2143 (1987); 福田晃峰，小山俊樹，英 謙二，白井汪芳，北條舒正，中原弘雄，福田清成
- Multinuclear macromolecule metal complexes III. Preparation and properties of poly(vinylamine) copper(II) complex coordinately bonded with hexacyanoferrate(II): *Polymer J.*, **20**, 207-211 (1988); Toshiki Koyama, Akio Kurose, Kenji Hanabusa, Etsuko Masuda, Hirofusa Shirai, Tadao Hayakawa, and Nobumasa Hojo
- Multinuclear macromolecular metal complexes: 4. Modified electrode by mixed valence complex of Prussian blue attached with polycation and its electrochromic behavior: *Polym. Commun.*, **29**, 38-40 (1988); Toshiki Koyama, Riichirou Hayashi, Etsuko Masuda, Akio Kurose, Kenji Hanabusa, Hirofusa Shirai, Tadao Hayakawa, and Nobumasa Hojo
- Photopolymerization in monolayers of an amphiphilic diacetylene derivative containing a ferrocene group: *J. Chem. Soc., Chem. Commun.*, 1104-1106 (1988); Akio Fukuda, Toshiki Koyama, Kenji Hanabusa, Hirofusa Shirai, Hiroo Nakahara, and Kiyoshige Fukuda
- Functional metallomacrocyclic derivatives and their polymers. Part 23. Biaxially orientated Langmuir-Blodgett films of substituted metallophthalocyanines: *J. Chem. Soc., Dalton Trans.*, 1543-1546 (1989); Hiroshi Ito, Toshiki Koyama, Etsuko Masuda, Kenji Hanabusa, Hirofusa Shirai, and Tadao Hayakawa
- Formation of bivalent metal complexes of quaternary pyridine and poly(4-vinylpyridine) containing uracil: *Polymer J.*, **22**, 56-62 (1990); Akio Kurose, Yasuhiro Hayashi, Toshiki Koyama, Kenji Hanabusa, Hirofusa Shirai, and Kiichi Takemoto
- Photochemical hole burning of tetraphenylporphyrin bound to a side-chain of a liquid-crystalline polymer: *J. Molecular Electronics*, **6**, 123-128 (1990); Akira Furusawa, Kazuyuki Horie, K. Kuroki, Satoru Mita, Shigeo Kubota, Toshiki Koyama, Kenji Hanabusa, and Hirofusa Shirai
- Synthesis, spectroscopy, electrochemistry, spectroelectrochemistry, Langmuir-Blodgett film formation, and molecular orbital calculations of planar binuclear phthalocyanines: *J. Am. Chem. Soc.*, **116**, 879-890 (1994); Nagao Kobayashi, Herman Lam, W. Andrew Nevin, Pavel Janda, Clifford C.

Leznoff, Toshiki Koyama, Atsushi Monden, and Hirofusa Shirai

A comparison of the loop-current effect of silicon phthalocyanine and silicon naphthalocyanine rings on their axial ligands: *Inorg. Chim. Acta*, **218**, 41-45 (1994); Toshiki Koyama, Takahiko Suzuki, Kenji Hanabusa, Hirofusa Shirai, and Nagao Kobayashi

Ni(II)-家蚕セリシン錯体の生成と二次構造：高分子論文集, **51**(3), 167-171 (1994); 陳 文興, 小山俊樹, 英 謙二, 白井汪芳

Functional metallomacro cycle derivatives and their polymers. 31. Preparation and electrochromic properties of novel cobaltphthalocyanine thin films on electrode: *J. Inorg. Organometal. Polym.*, **4**, (3), 261-271 (1994); Takahisa Fukuzawa, Toshiki Koyama, Gerhard Schneider, Kenji Hanabusa, and Hirofusa Shirai

機能性金属ポルフィラジン誘導体とそのポリマー XXVIII. コバルトフタロシアニン修飾電極を用いたマルチカラーエレクトロクロミックディスプレイの試作：電気化学, **62**(7), 614-619 (1994); 福澤孝久, 小山俊樹, 丸茂浩昌, 水嶋康史, 筒井徳久, 英 謙二, 白井汪芳

金属錯体化フィブリン繊維の調製と抗菌性：繊維学会誌, **52**, 175-180 (1995); 陳 文興, 小山俊樹, 英 謙二, 白井汪芳

Preparation and properties of highly phosphorylated poly(vinyl alcohol) hydrogels chemically crosslinked by glutaraldehyde: *Polymers*, **36**, 2297-2301 (1995); Toshiki Koyama, Kenji Hanabusa, Hirofusa Shirai, Jun-ichi Ikeda, Hajime Yoneno, Ken Itoh

Durability characteristics of aminopyrene dimer molecules as an emitter in organic multilayered electroluminescent diodes: *Japanese Journal of Applied Physics*: **35**, 4819-4825 (1996); C. Adachi, K. Nagai, and N. Tamoto

Large Second-Harmonic Generation Coefficients of Bis(benzylidene)cycloalkanones Estimated by the Second-Harmonic Wave Generated with the Evanescent Wave Technique: *Chem. Phys. Lett.*, **249**, 29-34 (1996); J. Kawamata, K. Inoue, Inabe, M. Kiguchi, M. Kato, and Y. Taniguchi

Dispersion of Second-order Nonlinear Optical Coefficient of Styrylpyridinium Cyanine Dye: *Nonlinear Optics*, **15**, 159-162 (1996); M. Kiguchi, M. Kato, and Y. Taniguchi

Effect of Hydrogen Bond on Second-Order Nonlinear Optical Property of 2-Alkylcarboxamido-4'-methoxy-4-nitrotolane Derivatives: *Bull. Chem. Soc. Jpn.*, **70**, 583-585 (1997); Midori Kato, Masaaki Okunaka, Nami Sugita, Masashi Kiguchi, and Yoshio Taniguchi

Electroluminescence of 1,3,4-oxadiazole and triphenylamine-containing molecules as a bipolar emitter in organic multilayer light emitting diodes: *Chemistry of Materials*, **9**(5), 1077-1085 (1997); N. Tamoto, C. Adachi, and K. Nagai

有機ELダイオードにおけるオキサジアゾール誘導体の材料探索：ディスプレイ アンド イメージング： **5**(4), 325-341 (1997); 安達千波矢, 永井一清, 田元望

Submicrometer-sized organic light emitting diode with a triphenylamine-containing polycarbonate as a guest molecule in a polymer blend: *Japanese Journal of Applied Physics*, **36**(6B), L827-L830 (1997); C. Adachi, S. Hibino, T. Koyama, and Y. Taniguchi

触媒：素材のESR評価法（大矢博昭, 山内 淳 編）, 126-140 (1992); 小山俊樹, 白井汪芳

ヘルスケア繊維材料：新繊維科学－ニューフロンティアへの挑戦－（次世代繊維科学の調査研究委員会編），305-310 (1995)；小山俊樹

総論：超バイオミメティック繊維材料：新繊維科学－ニューフロンティアへの挑戦－（次世代繊維科学の調査研究委員会 編），331-345 (1995)；小山俊樹，吉田 孝

提言：超バイオミメティック繊維材料：新繊維科学－ニューフロンティアへの挑戦－（次世代繊維科学の調査研究委員会 編），406-410 (1995)；小山俊樹，吉田 孝

エレクトロクロミック表示用色素：機能性色素の最新応用技術（入江正浩 監修），107-117 (1996)；
小山俊樹

エレクトロニクス素子：フタロシアニン－化学と機能－（白井汪芳，小林長夫 編），204-207 (1997)；
谷口彬雄

L B膜：フタロシアニン－化学と機能－（白井汪芳，小林長夫 編），108-120 (1997)；小山俊樹，白井汪芳，小林長夫

エレクトロクロミック表示素子：フタロシアニン－化学と機能－（白井汪芳，小林長夫 編），207-213 (1997)；小山俊樹，白井汪芳

電池：フタロシアニン－化学と機能－（白井汪芳，小林長夫 編），213-218 (1997)；小山俊樹，白井汪芳

粉末法：非線形光学計測（小林孝嘉 編），19-33 (1997)；木口雅史，谷口彬雄

電解イオンコンプレックス法による金属錯体薄膜とそのエレクトロクロミックディスプレイ素子への応用：繊維学会誌，50, P632-637 (1994)；小山俊樹，福澤孝久，白井汪芳