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## Section A

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**R. Alan Aitken, Karamat Ali, and Shaun T. E. Mesher**

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*Iwate University, Japan*

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*University of Warwick, UK*

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*Istituto C. N. R. Applicazione Tecniche Chimiche Avanzate ai Problemi Agrobiologici, Italy*

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Ogawa<sup>1</sup>, and Ryu Sato<sup>1</sup>**<sup>1</sup>Iwate University, Japan; <sup>2</sup>University of Tsukuba, Japan; <sup>3</sup>Kyoto University, JapanOxidation of Cyclic Polysulfide by mCPBA: Synthesis and Structures of 6,10-  
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<sup>1</sup>*University of Tsukuba, Japan;* <sup>2</sup>*Toyama University, Japan*

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<sup>1</sup>*Yonsei University, Korea;* <sup>2</sup>*Korea Research Institute of Chemical Technology, Korea*

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*Ufa Research Centre of RAS, Russia*

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*Tokyo Metropolitan University, Japan*

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*University of Tsukuba, Japan*

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**Naoki Komatsu, Masato Uda, Azusa Taniguchi, and Hitomi Suzuki***Kyoto University, Japan*Aerobic Oxidation of Organosulfur Compounds Using Bismuth(III) Salts as Catalyst. Application to the Deprotection of *S,S*-Acetals**A. D. Ulendeeva, L. A. Baeva, and N. K. Lyapina***Ufa Research Centre of RAS, Russia*

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**Tadashi Kataoka and Shin-ichi Watanabe***Gifu Pharmaceutical University, Japan*

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## Section B

*Theoretical, mechanistic and stereochemical aspects of the organic chemistry of sulfur*

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**Hisashi Fujihara<sup>1</sup>, Toshinori Uehara<sup>2</sup>, and Naomichi Furukawa<sup>2</sup>**

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New Thiotelluroxide from 5*H*,7*H*-Dibenzo[*b,g*][1,5]-tellurazocine and Related Compounds

**O. N. Kataeva, I. A. Litvinov, S. A. Katsyuba, D. A. Pudovik, and V. A. Alfonsov**

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Oxidative Rearrangement of Organic Thiazynes

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Conformational Analysis of 1-Arylthio- and 1-Arylseleno-2-halo(cyano)ethanes

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<sup>1</sup>H-NMR Spectra of 2-Carboxyphenyl Aryl(alkyl) Sulfides and Sulfoxides: An Unexpected Relationship between the Chemical Shift of the H-6 Protons and the Oxidation State of the Sulfur Atom

**Ohgi Takahashi, Naofumi Nakayama, Osamu Kikuchi, and Naomichi Furukawa**  
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Ab Initio Molecular Orbital Study of 1,5-Dithiocane, Its Radical Cation, and Its Dication

**Fumihiko Ohno<sup>1</sup>, Takayuki Kawashima<sup>1</sup>, Renji Okazaki<sup>1</sup>, Hirotaka Ikeda<sup>2</sup>, and Satoshi Inagaki<sup>2</sup>**

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Stereochemistry of Oxirane Formation Reaction from Pentacoordinate 1,2λ<sup>6</sup>-Oxathietanes

**Tadashi Okuyama**

Osaka University, Japan

Buffer Catalysis of Hydrolysis of Benzenesulfinates. Contrasting Behavior between Phenyl and Methyl Esters

**Yu. G. Skrypnik and V. P. Besrodnyi**

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Mechanism of Arylsulfonyl Halides Solvolysis Catalysed by Amines. The First Kinetic Division of Competing Catalytic Routes.

**Ohgi Takahashi, Soichi Sato, and Naomichi Furukawa**

University of Tsukuba, Japan

Non-Berry Pseudorotation and Ligand Coupling in Chalcogenuranes

**Tristram Chivers<sup>1</sup>, Bruce McGarvey<sup>2</sup>, Masood Parvez<sup>1</sup>, Ignacio Vargas-Baca<sup>1</sup>, and Tom Ziegler<sup>1</sup>**

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Formation Mechanism of Organosulfur Derivatives of Diazenes by a Thiyl-radical Catalyzed Mechanism. Identification of the HC(NSPh)<sub>2</sub>· Radical.

**Sergey Z. Vatsadze, Elena K. Beloglazkina, Nikolai V. Zyk, and Nikolai S. Zefirov**

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Synthesis, Structure and Reactivity of Sulfoxylic Acid Derivatives

## Section C

*Heterocyclic sulfur compounds*

**Vera S. Berseneva, Natalja Yu. Birucheva, and Vasily A. Bakulev**

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Reactins of Thioamides with Esters of Acetylene Carboxylic Acids as a New Route to Heterocyclic Sulfur Compounds

**A. Scheunemann, K. Drexler, H. Dehne, H. Reinke, and M. Michalik**

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Heterocyclization of Benzyldiene Compounds of Zwitterionic Thiooxalic Acid 2-Amide-1-hydrazide-2-hydrazone with C<sub>1</sub>-Building Blocks

**Abdel Moneim El-Torgoman**

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α,β-Unsaturated Nitriles in Heterocyclic Synthesis: Synthesis of Cyclohexeno[b]pyrans

and Cyclohexeno[*b*]pyrano[2,3-*b*]pyridines

**Hoh-Gyu Hahn, Kee Dal Nam, and Kee Hyuk Chang**

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Pummerer Reaction of Dihydro-1,4-oxathiin Sulfoxides

**E. Lukevics, L. Ignatovich, S. Germane, and S. Belyakov**

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Synthesis, Molecular Structure and Toxicity of Thienyl- and Aryl-germatranes

**Akihiko Ishii, Kazuyo Umezawa, and Juzo Nakayama**

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Synthesis of 1,1-Dialkylidithiiranes

**E. Lukevics and O. Pudova**

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The Reactions of Silyl Substituted Thiophene-1,1-dioxides with Amines

**Lambert Brandsma<sup>1</sup>, Boris Trofimov<sup>2</sup>, Nina Nedolya<sup>2</sup>, and Anastasiya Mal'kina<sup>2</sup>**

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From 1-Lithioalkoxyallenes and Isothiocyanates to Pyrroles and Dihydropyridines in One Preparative Step

**Tetsushi Maruyama and Naomichi Furukawa**

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Syntheses of Bipyridine Derivatives Bearing Two Functional Groups at the Proximate Positions

**Peter D. Clark, Shaun T. E. Mesher, and Alex Primak**

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Montmorillonite K10/ZnCl<sub>2</sub> Catalyzed Alkyl Disulfide Addition to Alkenes and Synthesis of Organic Conducting Materials

**D. Berkes<sup>1</sup>, B. Decroix<sup>2</sup>, P. Netchitailo<sup>2</sup>, and J. Morel<sup>2</sup>**

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Hofmann Degradation of Methiodides of Thieno[*b*]quinolizidines

**Shin-ya Nakamura, Akihiko Ishii, and Juzo Nakayama**

*Saitama University, Japan*

Optical Resolution, Absolute Configuration and Racemization of the First Isolable Dithiirane Oxide

**Hideji Osuga, Kazuhiko Tanaka, Hitomi Suzuki**

*Kyoto University, Japan*

Synthesis of Bifunctionalized Chiral Heterohelicene with Electron Deficient Pyridine Ring

**Mohammad B. Shafii<sup>1</sup>, Amir R. Jalilian<sup>2</sup>, A. Shafiee<sup>2</sup>**

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# Syntheses of Substituted-thiazolo-1,3,4-thiadiazoles and Thiazolo-1,3,4-oxadiazoles

**Yoshiaki Sugihara, Hitoshi Takeda, Akihiko Ishii, Shigekazu Kumakura, and Juzo Nakayama**

*Saitama University, Japan*

Synthesis and Structural Analysis of a Pentathiepane Derivative with a Propellane Structure

**Masahiko Takahashi, Sachio Ohnishi, Shigeru Muta, and Shinzi Yoshizawa**

*Ibaraki University, Japan*

Cyclization Reactions of Methanesulfonamides and Sulfonylformazans

**Issa Yavari**

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MNDO Study of Sulfur–Nitrogen Heterocycles

**Vasily Bakulev, Yury Shafran, Yury Morzherin, and Vladimir Mokrushin**

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Synthesis of Ureido 1,2,3-Thiadiazoles

**H.-J. Drexler and H.-J. Holdt**

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MN-Crown Dithioethers and Derivatives

**E. Aqad and V. Khodorkovsky**

*Ben-Gurion University of the Negev, Israel*

Synthesis and Photochromic Properties of New Dyes Based on Thioindigo Chromophoric System

**Steffen Ernst and Klaus Schulze**

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4-Methallyl Substituted 1,2,4-Triazoline-3-thiones as a Source of *N*-Bridgehead Heterocycles

**Osamu Hoshino and Tetsuya Hirayama**

*Science University of Tokyo, Japan*

Synthesis of Thiophene Derivatives Having a Silicon Atom

**Kimiaki Imafuku**

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Reactions of 2-Hydrazino-8*H*-cyclohepta[*d*]thiazol-8-one

**Tadashi Kataoka, Tetsuo Iwama, and Atsuko Takagi**

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Stereospecific C–N Bond Cleavage of 4-Silyl- $\beta$ -sultams with EtAlCl<sub>2</sub>: Formation of (*E*)-Vinylsulfonamides

**Lambert Brandsma<sup>1</sup>, Boris Trofimov<sup>2</sup>, Nina Nedolya<sup>2</sup>, and Anastasiya Mal'kina<sup>2</sup>**

<sup>1</sup>*University of Utrecht, The Netherlands*; <sup>2</sup>*Irkutsk Institute of Organic Chemistry, RAS, Russia*

An Unexpected Synthesis of Dihydropyridines Based on Reaction of Isothiocyanates

with Lithiated 2-Alkynes

**Lambert Brandsma<sup>1</sup>, Anastasiya Mal'kina<sup>2</sup>, and Boris Trofimov<sup>2</sup>**

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*N-Ethynylpyrrole and S-, Se- and Te-Bicycles Therefrom*

**Noboru Matsumura, Tsunao Konishi, and Hiroo Inoue**

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*Synthesis and Properties of New Macrocyclic Compounds Using the Characteristics of Hypervalent Sulfur*

**Mitsuo Komatsu<sup>1</sup>, Masatoshi Mihara<sup>1</sup>, Satoshi Minakata<sup>1</sup>, Ilhyong Ryu<sup>1</sup>, and Yoshiki Ohshiro<sup>2</sup>**

<sup>1</sup>*Osaka University, Japan*; <sup>2</sup>*Kinki University, Japan*

*Novel Generation of Thiocarbonyl Ylide by 1,4-Silicon Shift of  $\alpha$ -Silylated Thiol Ester and Its Cycloaddition*

**Tatsuya Nabeshima<sup>1</sup>, Taizo Aoki<sup>2</sup>, and Yumihiko Yano<sup>2</sup>**

<sup>1</sup>*University of Tsukuba, Japan*; <sup>2</sup>*Gunma University, Japan*

*Highly Selective Ag<sup>+</sup> Ion Transport by Macrobicyclic Hosts Containing Sulfur Atoms and a Bipyridine Moiety*

**Takehiko Nishio**

*University of Tsukuba, Japan*

*Sulfur-containing Heterocycles Derived by the Reaction of Hydroxy-amides and Lawesson's Reagent*

**A. Shafiee and A. Foroumadi**

*The Medical Sciences University of Tehran, Iran*

*Preparation of Disulfonyl-1,3,4-thiadiazoles as Agrochemical Fungicides*

**Hiroshi Shimizu and Tomoko Watanabe**

*Gifu Pharmaceutical University, Japan*

*Cycloaddition of 2-Thianaphthalenes Bearing an Electron-withdrawing Group at 3-Position*

**Takayoshi Suzuki, Kaori Ando, Sachiko Yamada, and Hiroaki Takayama**

*Teikyo University, Japan*

*Some Aspect on the Chemistry of 3-Sulfolene*

**Tomohiro Uetake and Masaru Tada**

*Waseda University, Japan*

*Radical Substitution on the Sulfur of 2-Phenylthioindoles*

**Naomichi Furukawa, Shao Zhong Zhang, and Soichi Sato**

*University of Tsukuba, Japan*

*Isolation and Reactivity of Thiophene S-Oxides*

## Section D

### *Bioorganic and medicinal sulfur chemistry*

**Tomoyuki Ando<sup>1</sup>, Naruyoshi Mita<sup>1</sup>, Akihito Kanematsu<sup>1</sup>, Kazuya Sakai<sup>1</sup>, Kouichi Kawai<sup>2</sup>, Mitsuhiro Mori<sup>2</sup>, Shu Yuasa<sup>2</sup>, and Ken-ichi Hisamitsu<sup>2</sup>**

<sup>1</sup>Mitsui Toatsu Chemicals, Inc., Japan; <sup>2</sup>Mitsui Pharmaceuticals, Inc., Japan

Novel Class of Amphiphilic Antioxidant: Synthesis and Biological Evaluation of 3H-1,2-Dithiole-3-thione Derivatives

**Ahmed I. Khodair<sup>1</sup>, Hussein I. El-Subbagh<sup>2</sup>, and Ali A. El-Emam<sup>3</sup>**

<sup>1</sup>Tanta University, Egypt; <sup>2</sup>King Saud University, Kingdom of Saudi Arabia;

<sup>3</sup>University of Mansoura, Egypt

Synthesis of Certain 5-Substituted 2-Thiohydantoin Derivatives as Potential Cytotoxic and Antiviral Agents

**V. I. Jenja, V. P. Besrodnyi, and Yu. G. Skrypnik**

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Acaricide Property of Some Sulfur-containing Compounds

**A. V. Chernyshev, N. S. Kosterina, L. P. Antonyuk, and V. V. Ignatov**

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Influence of Triphenylsubstituted Pyriliium, Thiopyriliium and Selenopyriliium Salts on the Catalytic Activity of a Bacterial Glutamine Synthetase

**Duncan M. Gill<sup>1</sup>, Neil A. Pegg<sup>2</sup>, and Christopher M. Rayner<sup>1</sup>**

<sup>1</sup>University of Leeds, UK; <sup>2</sup>Glaxo Research and Development Ltd., UK

Generation and Reactions of Thiiranium Ions; Synthesis of Novel Amino Acid Derivatives Related to the Aminopeptidase Inhibitor  $\alpha$ -Thiobestatin

**T. Suzuki, T. Yamada, and K. Takama**

*Hokkaido University, Japan*

Antioxidant Effect of Sulfoquinovosyldiglyceride(SQDG) against Radical-induced Lipid Peroxidation

## Section E

### *Advanced materials: organic conductors, polymers, etc.*

**Takeyuki Akita and Keiji Kobayashi**

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Intramolecular Spin-interactions between Two Radical Units Linked to Condensed Thiophene Chromophores

**Koichi Imamura, Youji Shibata, Kazuo Takimiya, Yoshio Aso, Tetsuo Otsubo, and Fumio Ogura**

*Hiroshima University, Japan*

Crisscross-overlapped Tetrathiafulvalenophanes



**Takashi Katoh<sup>1,2</sup>, Yoshio Inagaki<sup>1</sup>, and Renji Okazaki<sup>2</sup>**

<sup>1</sup>*Fuji Photo Film Co., Ltd., Japan;* <sup>2</sup>*The University of Tokyo, Japan*

Syntheses and Properties of Bis-thiacyanine Dyes with a Naphthalene-1,8-bispyridinium Skeleton

**Yoshiyuki Kuwatani, Hironori Suzuki, Eiji Ogura, Hitoshi Ito, Shigeru Sasaki, Haruo Matsuyama, and Masahiko Iyoda**

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Charge-transfer Complexes and Radical Cation Salts of Halogenated TTF Derivatives

**K. Miyatake, K. Yamamoto, and E. Tsuchida**

*Waseda University, Japan*

Synthesis of New Aromatic Polymers Containing Sulfonium Group

**Riichiro Nakajima, Kanya Tanaka, Atsushi Murai, Tadahide Nishiyama, Yasuhisa Ohishi, Takashi Tamura, and Kazuhiko Tsukagoshi**

*Doshisha University, Japan*

Synthesis and Properties of New (*E*)-Aryl-2-[5-(4-pyridyl)-2-thiophenyl]ethenes as Nitrogen Laser Dyes

**Akira Ohta and Yoshiro Yamashita**

*Institute for Molecular Science, Japan*

2,2'-Bis(1,4-dithiafulven-6-yl)-3,3'-bithienyls. A New Type of 1,3-Dithiole Compounds Affording Novel Electron Donors by Oxidative Intramolecular Cyclization

**Kazuo Takimiya, Yoshio Aso, Tetsuo Otsubo, and Fumio Ogura**

*Hiroshima University, Japan*

Synthesis, Structures, and Properties of Double-bridged Tetrathiafulvalenophanes

**Hiroyuki Tani, Yoshihiro Kawada, Nagao Azuma, and Noboru Ono**

*Ehime University, Japan*

Synthesis and Properties of Acenaphthylene Derivatives with the Chalcogen Atoms

**Shigehiro Yamaguchi<sup>1</sup>, Manabu Uchida<sup>2</sup>, Takenori Izumizawa<sup>2</sup>, Kenji Furukawa<sup>2</sup>, and Kohei Tamao<sup>1</sup>**

<sup>1</sup>*Kyoto University, Japan;* <sup>2</sup>*Chisso Corporation, Japan*

Novel  $\pi$ -Electron Compounds Consisting of Thiophene and Silole

**G. I. Sarapulova, N. A. Keyko, Yu. A. Chuvashv, L. G. Stepanova, and M. G. Voronkov**

*Irkutsk Institute of Organic Chemistry, RAS, Russia*

Stereochemical Transformations of  $\alpha$ -Butylthioacrolein and the Structure of Its Diene Cyclodimerization Product

**Hiroyuki Higuchi<sup>1</sup>, Haruki Koyama<sup>1</sup>, Hiroki Yokota<sup>1</sup>, Juro Ojima<sup>1</sup>, Tatsuo Wada<sup>2</sup>, and Hiroyuki Sasabe<sup>2</sup>**

<sup>1</sup>*Toyama University, Japan;* <sup>2</sup>*The Institute of Physical and Chemical Research (RIKEN), Japan*

Syntheses and Electronic Properties of 3,3'-Dihexylbithiophene Derivatives with Head-to-head and Head-to-tail Orientations

**Naoki Katano, Yoshiaki Shimura, Yoshiaki Sugihara, Akihiko Ishii, and Juzo Nakayama**

*Saitama University, Japan*

Preparation and Properties of Oligo(2,5-Thienylene Sulfides)

**Naoto Hayashi, Koji Kuruma, Yasuhiro Mazaki, and Keiji Kobayashi**

*The University of Tokyo, Japan*

A Three-component Clathrate Crystal Based on Thienothiophene Host Compounds;  
Novel Guest Exchange via Gas-solid Contacts

**Yohji Misaki<sup>1</sup>, Hideki Fujiwara<sup>1</sup>, Toshitaka Matsui<sup>1</sup>, Natsuko Higuchi<sup>1</sup>, Takashi Maruyama<sup>1</sup>, Toshihiro Sasaki<sup>1</sup>, Tokio Yamabe<sup>1</sup>, Takehiko Mori<sup>2</sup>, Hatsumi Mori<sup>3</sup>, and Shoji Tanaka<sup>3</sup>**

<sup>1</sup>Kyoto University, Japan; <sup>2</sup>Tokyo Institute of Technology, Japan; <sup>3</sup>International Superconductivity Technology Center, Japan

Metallic and Superconducting Organic Solids Based on Bis-fused Tetrathiafulvalene Donors

**Kyoko Miyauchi, Yoshihiro Kawada, Hiroyuki Tani, Nagao Azuma, and Noboru Ono**

*Ehime University, Japan*

Synthesis and Properties of 7,10-Diselenafluoroanthene

**Shin'ichi Nakatsuji<sup>1</sup>, Akiko Hirai<sup>1</sup>, Junichi Yamada<sup>1</sup>, Kazuya Suzuki<sup>2</sup>, Toshiaki Enoki<sup>3</sup>, and Hiroyuki Anzai<sup>1</sup>**

<sup>1</sup>Himeji Institute of Technology, Japan; <sup>2</sup>Yokohama National University, Japan;

<sup>3</sup>Tokyo Institute of Technology, Japan

Preparation and Properties of Tetrathiafulvalene Derivatives Bearing Multi-TEMPO-substituents

**Wei-lin Sun, Xue-song Gao, and Feng-cai Lu**

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Synthesis and Properties of Some Novel Polymers Containing Bisthiazole Rings

**Jun Tanabe<sup>1</sup>, Hiroshi Terao<sup>1</sup>, Go Ono<sup>1</sup>, Akira Izuoka<sup>1</sup>, Tadashi Sugawara<sup>1</sup>, Tomoyuki Kudo<sup>2</sup>, and Yuzo Kawada<sup>2</sup>**

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Structure and Property of Novel Trimethylene Bridged Twin Donors

**Kazuko Takahashi and Shinji Tarutani**

*Tohoku University, Japan*

Synthesis and Properties of Novel Organic Conductors Composed of 4-Oxocyclopentadithiophene-TCNQ

**Katsuyuki Ogura, Hiroyuki Yanai, Masazumi Miokawa, Motohiro Akazome, and Makoto Fujita**

*Chiba University, Japan*

1-Aryl-2,5-bis(2-thienyl)pyrrole Derivatives Having Ketene Dithioacetal S,S-Dioxide Groups (Syntheses and Physical Properties)