

ANNUAL LIST OF CONTENTS : VOLUME 23 (2002)

* In papers with more than one author, the asterisk indicates the name of the author to whom inquiries about the paper should be addressed.

- 9 A Spontaneous Conversion of Gagamine, a Steroidal Alkaloid, into Lineolon *via* Internal Acyl Migrations and the Following Elimination
Dong-Ung Lee
- 11 The Cyclic Iminocarbonate Rearrangement: The Scope and Limitations of the *N*-Substituents
Gae Y. Cho, Ji Y. Choi, and Soo Y. Ko*
- 13 Synthesis of Novel Ruthenium(II) Complexes Containing 2,2'-Bipyridyl and 2-(2-Pyridyl)benzimidazole Ligands and Their Electrochemi-luminescent Characteristics
Do Nam Lee, Hae Jin Park, Dae Ho Kim, Sang Woo Lee, Se Jong Park, Byeong Hyo Kim* and Won-Yong Lee*
- 15 Preparation of an *N*-Linked Glycopeptide Containing 6-ThioGlcNAc
Injae Shin,* Sungjin Park, Kwan Soo Kim, Jin Won Cho, and Dongyeol Lim
- 17 Synthesis and Characterization of Poly(aryl ether) Containing Diphenylanthracene and Benzoxazolyl-phenylene as Emitting Chromophore
Soon-Ki Kwon, Yun-Hi Kim, and Sung Chul Shin*
- 19 Investigation of the Cyclization of *N*-(2-Hydroxyethyl)-*N'*-phenylthioureas: Mitsunobu Conditions vs TsCl/NaOH System
Gue-Jae Lee, Jae Nyong Kim, and Taek Hyeon Kim*
- 21 Acylation of 1-[2-(2-Methoxyethoxy)ethyl]pinacolone: Preparation of 4-[2-(2-Methoxyethoxy)ethyl]-2,2,6,6-tetramethylheptane-3,5-dione
Seung Woo Woo, Hyoung Cheul Kim, Young Woo Oh, In Kwon Youn, and Hyoung Rae Kim*
- 23 An Unprecedented Ruthenium-Catalyzed Reductive Amination of Aldehydes with Tertiary Amines
Chan Sik Cho,* Ji Hyuk Park, Tae-Jeong Kim, and Sang Chul Shim*
- 25 Increased Catalytic Activity of Iron Phthalocyanine on the Electrochemical Nitrite Reduction upon Heat-Treatment Probed by X-ray Absorption Fine Structure
Sunghyun Kim* and Gwanghoon Kwag
- 27 The p*K*_a Shift of the Catalytic Aspartyl Dyad in the HIV-1 Protease Complexed with Hydroxyethylene Inhibitors
Hoshik Won,* Jeong Rim Kim, Kwangseok Ko, and Youngdo Won
- 29 Langmuir Aggregation of Fluorescein Isothiocyanate (FITC) on Cetyl Trimethylammonium Bromide (CTAB) and Application to Determination of Anionic Detergent in Sewage
Hong-Wen Gao,* and De-Yan Zhou
- 35 Photo-induced Isomerization and Polymerization of (*Z,Z*)-Muconate Anion in the Gallery Space of [LiAl₂(OH)₆]⁺ Layers
Seog Woo Rhee and Duk-Young Jung*
- 41 Some Reactions of 3-Methyl-5-oxo-1-phenyl- Δ^2 -pyrazoline-4-thiocarbohydrazide
Maymona M. Kandeel, Mohamed S. Abbady, and Mohamed Salah K. Youssef*
- 48 Molecular Modeling of Complexation Behavior of *p-tert*-Butylcalix[5]arene Derivative toward Butylammonium Ions
Jong-In Choe* and Suk-Kyu Chang
- 53 A New PVC-Membrane Electrode Based on a Thia-Substituted Macrocyclic Diamide for Selective Potentiometric Determination of Silver Ion
Mojtaba Shamsipur,* Sayed Yahya Kazemi, Khodabaksh Niknam, and Hashem Sharghi
- 59 Liquid Phase Oxidation of Xylenes: Effects of Water Concentration and Alkali Metals
Sung Hwa Jung,* Ki Hwa Lee, and Youn-Seok Park
- 65 The Hydroxyl Group-Solvent and Carbonyl Group-Solvent Specific Interactions for Some Selected Solutes Including Positional Isomers in Acetonitrile/Water Mixed Solvents Monitored by HPLC
Won Jo Cheong,* Young Ik Keum, and Joung Ho Ko
- 71 Electron Tunneling and Electrochemical Currents through Interfacial Water Inside an STM Junction
Moon-Bong Song, Jai-Man Jang, and Chi-Woo Lee*
- 75 Influence of Safety Valve Pressure on Gelled Electrolyte Valve-Regulated Lead/Acid Batteries Under Deep Cycling Applications
Sang Hyub Oh,* Myungsoo Kim, Jin Bok Lee, and Heung Lark Lee
- 81 Synthesis of a Di-*N*-cyanoethylated Tetraaza Macrocycle Containing Eight *C*-Methyl Groups and Its Nickel(II) Complex: Effects of the Methyl Groups on Their Properties
Shin-Geol Kang,* Kiseok Ryu, and Jinkwon Kim

- 86 An Efficient Synthesis of 12-*epi*-Carbacyclins Using a Palladium-Mediated Tandem Alkene Insertion Strategy
Nam Ho Lee* and Richard C. Larock
- 93 Cholesteryl N-Monomethoxypoly(ethylene glycol)-succinate-L-phenylalanine: Synthesis and Effect on Liposomes
Won Young Yang, Sang-Hee Lee, Eunok Lee, Guk Hoon Chung, and Youn-Sik Lee*
- 98 Crystal Structure of $\text{Ca}_{1.29}\text{Bi}_{0.14}\text{VO}_4$
Myung Seab Kim, Myoung Soo Lah, and Ho Kun Kim*
- 103 New Mechanism for the Reaction of Thianthrene Cation Radical Perchlorate with *tert*-Butyl Peroxide
Bo Kyung Park, Chang Kook Sohn, and Wang Keun Lee*
- 107 Molecular Dynamics Simulations of the OSS2 Model for Water and Oxonium Ion Monomers, and Protonated Water Clusters
Song Hi Lee
- 112 Tin-Free Three-Component Coupling Reaction of Aryl Halides, Norbornadiene (or Norbornene), and Alkynols Using a Palladium Catalyst
Cheol-Kyu Choi, Jin-Who Hong,* Ikuyoshi Tomita, and Takeshi Endo
- 119 Solution Nuclear Magnetic Resonance Spectral Characterization of Iron(II) Porphyrin Complexes of Weakly Coordinating Anions
Byungho Song,* Bongjin Park, and Chulhee Han
- 123 Interpretation of Dispersion Phenomena in Grunwald-Winstein Correlation for Solvolyses of Naphthoyl Chloride
Zoon Ha Ryu,* Chang-Suk Ju, Dae Dong Sung, Nak Chang Sung, and T. William Bentley
- 132 Amine and Olefin Complexes of Pt(II) Having a PCP-Pincer Ligand
Soonheum Park
- 137 Proton-diionizable Bis-calix[4]azacrown Ether through *Mannich* Reaction
Jong Yeol Kim, Guncheol Kim, Suk Joong Lee, Ok Jae Shon, Sung Kuk Kim, Il Hwan Suh, and Jong Seung Kim*
- 140 Enhanced Photocurrent of Ru(II)-Dye Sensitized Solar Cells by Incorporation of Titanium Silicalite-2 in TiO_2 Film
Man Gu Kang, Nam-Gyu Park, Soon Ho Chang, Suh Hee Choi, and Kang-Jin Kim*
- 143 Synthesis of Amlodipine Using Aza Diels-Alder Reaction
Seok-Chan Kim,* Kwan-Min Choi, and Chan-Seong Cheong
- 145 HSO_4^- Anion Selective Urea Calix[4]diquinone Receptor
Sung Ok Kang, Jung Min Oh, Yong Sik Yang, Jong Chul Chun, Seungwon Jeon,* and Kye Chun Nam*
- 149 A Practical and Convenient Procedure for the *N*-Formylation of Amines Using Formic Acid
Sun Ho Jung, Jin Hee Ahn, Sang Kyu Park, and Joong-Kwon Choi*
- 151 Kinetics and Mechanism for Hydrolysis Reaction of *N*-Benzoyl-2-phenylimidazole
Jong-Pal Lee* and Sung-Sik Lee
- 154 Study on FeCl_3 Induced Rearrangement Reaction of Bicyclic Acetal Compound
Si-Min Kim, Yun Hee Maeng, and Jong-Gab Jun*
- 157 Addition of α,α -Difluoriodomethylcyclohexyl Ketone to Alkenes under Copper Catalyst
Kyung Chell Kwak, Hyuncheol Oh, Young-Gab Yun, Byung-Hee Kim, Young-Hang Lee, and Kyu Yun Chai*
- 160 Synthesis and Ionophoric Properties of Crown Ether Capped with a Convergent Hydroxamic Acid Function
Duck Hee Kim, Mi Yee Kim, Byung Ha Kang, and Suk-Kyu Chang*
- 163 A Novel Cytotoxic Alkaloid of Lamellarin Class from a Marine Ascidian *Didemnum* sp.
Jungyeob Ham and Heonjoong Kang*
- 167 α -Sulfamidoalkylation Reaction: Synthesis of 6,13-Sulfonodibenzo-[c,h][1,6]-diazecines
Ji Sun Lee and Chai-Ho Lee*
- 170 **Erratum (BKCS 2001, 22(11), 1217)**
- 175 The Addition Effect of $\text{Fe}(\text{CO})_5$ on Methane Ignition
Kisoo Park, Gyun Tack Bae, and Kuan Soo Shin*
- 177 Synthesis of Ethyl β -D-Galactopyranosyl-(1 \rightarrow 4)-2-deoxy-2-fluoro- β -D-glucopyranoside
Mikyung Yun, Keun Ho Chun, Jeong E. Nam Shin,* and Jonghoon Oh
- 179 $\text{N}(^2\text{D})$ Product Velocity Mapped Imaging in the VUV Photolysis of Nitrous Oxide at 118.2 nm
Bogdan R. Cosofret, H. Mark Lambert, and Paul L. Houston*
- 184 Depletion Kinetics of the Ground State CrO Generated from the Reaction of Unsaturated $\text{Cr}(\text{CO})_x$ with O_2 and N_2O
H. S. Son and J. K. Ku*
- 189 Photoelectron Imaging Spectroscopy for (2+1) Resonance-Enhanced Multiphoton Ionization of Atomic Bromine
Yong Shin Kim,* Young-Jae Jung, WeeKyung Kang, and Kyung-Hoon Jung

- 195 Fluorescence Excitation Spectroscopy of Octatetraene-Xe van der Waals Clusters
Taek-Soo Kim, Kyo-Won Choi, Sang Kyu Kim, Young S. Choi,* Sung-Woo Park, Doo-Sik Ahn, Sungyl Lee, and Keitaro Yoshihara
- 201 Anomalous Behavior of the Ethyl Group in the Aminolysis of *S*-Phenyl Acetate with Benzylamine in Acetonitrile
Ikchoon Lee,* Hai Whang Lee,* Byung Choon Lee, and Jin Heui Choi
- 205 Hydrogen Surface Coverage Dependence of the Reaction between Gaseous and Chemisorbed Hydrogen Atoms on a Silicon Surface
Jongbaik Ree,* Kyung Soon Chang, and Yoo Hang Kim
- 215 Structures and N→Si Bond Characters of 1-Fluorosilatrane and the Silatranyl Cation
Hyo Sug Lee, Cheolbeom Bae, Youngkyu Do,* and Yoon Sup Lee*
- 221 Kinetics and Mechanism of the Addition of Benzylamines to Ethyl- α -cyanocinnamates in Acetonitrile
Hyuck Keun Oh, Jin Hee Yang, Hai Whang Lee, and Ikchoon Lee*
- 225 Chemical Vapor Deposition of Ga₂O₃ Thin Films on Si Substrates
Doo Hyun Kim, Seung Ho Yoo, Ki-Seok An, Hee-Soo Yoo, and Yunsoo Kim*
- 229 Quantum Mechanical Study of the O(¹D) + HCl → OH + Cl Reaction
Shi Ying Lin and Seung C. Park*
- 241 Geometries and Relative Stabilities of AlN Four-Membered-Ring Compound Isomers: *Ab initio* Study
Sung Soo Park, Kee Hag Lee,* Youngsun Suh, Changhoon Lee, and Hans P. Lüthi
- 245 Vibrational Structure and Predissociation of Ar-CO₂ by CO₂ Symmetric Stretching Mode Coupled with Ar Motion
Jaehoon Jung and Hosung Sun*
- 253 Vibrational Analysis of Ferrocyanide Complex Ion Based on Density Functional Force Field
Sun-Kyung Park, Choong-Keun Lee, Sang-Ho Lee, and Nam-Soo Lee*
- 262 Substituent Effects on the Binding Energies of Benzyl Alcohol-H₂O Clusters: *Ab initio* Study
Doo-Sik Ahn and Sungyl Lee*
- 267 Product-Resolved Photodissociations of Iodotoluene Radical Cations
Seung Koo Shin,* Byungjoo Kim, Russell L. Jarek, and Seung-Jin Han
- 271 Energy Relaxation Dynamics of Excited Triplet States of Directly Linked Zn(II)Porphyrin Arrays
Nam Woong Song, Hyun Sun Cho, Min-Chul Yoon, Naoki Aratani, Atsuhiko Osuka,* and Dongho Kim*
- 277 Resonantly-enhanced Two-photon Ionization and Mass-Analyzed Threshold Ionization (MATI) Spectroscopy of 2-Hydroxypyridine
Daehyun Lee, Sun Jong Baek, Kyo-Won Choi, Young S. Choi, and Sang Kyu Kim*
- 281 Photophysical Efficiency Factors of Singlet Oxygen Generation from Core-modified Trithiasapphyrin Derivatives
Jeong-Hyon Ha, Min-Sun Kim, Yong-II Park, Shinhyung Ryu, Mignon Park, Koo Shin,* and Yong-Rok Kim*
- 286 Two Photon Dissociation of Benzene, Phenylacetylene, and Benzaldehyde at 243 nm: Translational Energy Releases in the H Atom Channel
Seung Keun Shin, Hong Lae Kim,* and Chan Ryang Park
- 291 The Reactions of O(³P) Atom with Halomethanes: Discharge Flow-Chemiluminescence Imaging Method
Jee-Yon Lee and Hee-Soo Yoo*
- 295 Enhanced UV-Visible Absorbance Detection in Capillary Electrophoresis Using Modified T-Shaped Post-Column Flow Cell
Kwanseop Lim, Suhyeon Kim, and Jong Hoon Hahn*
- 301 Determination of Atmospheric Perfluorocarbon Background Concentrations of fL/L Range at the Western Coastal Area of Korea
HyeKyeong Kim, Sun Kyung Yea, Chul-Un Ro,* Chong Bum Lee, Meongdo Jang, Gangwoong Lee, Eunjin Yoo, and Jin-Seok Han
- 309 Mass Spectrometric Study of Carbon Cluster Formation in Laser Ablation of Graphite at 355 nm
Young-Mi Koo, Young-Ku Choi, Kee Hag Lee, and Kwang-Woo Jung*
- 315 Visible Surface-Assisted Laser Desorption/Ionization Mass Spectrometry of Small Macromolecules Deposited on the Graphite Plate
Junghwan Kim, Kyungsoo Paek, and Weekyung Kang*
- 320 Binary Cure Systems of 1,6-Bis(*N,N'*-dibenzylthiocarbamoyldithio)-hexane and Benzothiazole Sulfenamides in Carbon Black-filled Natural Rubber Compounds
Sung-Seen Choi,* Byung-Ho Park, Seung Goo Lee, and Beom Tae Kim
- 325 Reaction Condition Dependency of Propagating Behavior in the Polymerization Reaction by Thermal Front
Do Sung Huh,* Sang Joon Choe, and Burm-Jong Lee
- 330 Electronic Properties and Conformation Analysis of π -Conjugated Distyryl Benzene Derivatives
Cheol-Ju Kim
- 337 Theoretical Approach for the Equilibrium Structures and Relative Energies of C₇H₇⁺ Isomers and the Transition States between *o*-, *m*-, and *p*-Tolyl Cations
Chang-Ho Shin, Kyung-chun Park, Seung-Joon Kim,* and Byungjoo Kim

- 346 Determination of Hg_2^{2+} Ions Using a Modified Glassy Carbon Electrode with 2,2':6':2''-Terpyridine
Young-Tae Kong, Yun-Jung Bae, and Yoon-Bo Shim*
- 351 A Convergent Synthesis of Bis-2-oxo Amide Triacylglycerol Analogues as Potent Lipase Inhibitors Using Acyl Cyanophosphorane Methodology
Kieseung Lee
- 355 Exact Wave Function of a Time-Dependent Harmonic Oscillator
Tae Jun Park
- 357 An Analytical Solution of the Schrödinger Equation for a Rectangular Barrier with Time-Dependent Position
Tae Jun Park
- 363 The Amide Derivatives of Chrysamine G Protect Human Astrocyte Cells against $A\beta$ -induced Toxicity
Jongmin Kang,* Jeong Eun Park, Sangmee Jo
- 365 Efficient Method for β -Conjugate Addition of α,β -Unsaturated Lactones and Esters
Sun Ho Jung* and Jung Hyun Kim
- 367 Chemoselective Deprotection/Oxidation of Protected Alcohols with MagtrieveTM
Sung-Tae Park and Kwang-Youn Ko*
- 369 Precipitation of Manganese in the *p*-Xylene Oxidation with Oxygen-Enriched Gas in Liquid Phase
Sung Hwa Jung* and Youn-Seok Park
- 374 A Novel Synthesis of 3,9-Dialkyl and 8-Aryl-3,9-dimethylxanthines
Shaker Youssif,* Azza El-Kafrawy, Besheer Bayoumy, and Said El-Bahaie
- 381 Kinetics and Mechanism for the Reaction of 4-Nitrophenyl 2-Thiophenecarboxylate with Secondary Alicyclic Amines
Ik-Hwan Um,* Eun-Ju Lee, and Jong-Pal Lee*
- 385 Assembly of Laccase over Platinum Oxide Surface and Application as an Amperometric Biosensor
De Quan, Yousung Kim, Kyung Byung Yoon, and Woonsup Shin*
- 391 NMR Studies on Antitumor Drug Candidates, Berberine and Berberrubine
Young Wook Jeon, Jin Won Jung, Miran Kang, In Kwon Chung, and Weontae Lee*
- 395 Spontaneously Adsorbed Mo Layers on Pt(111) and Pt(100) Single Crystal Electrode Surfaces
Yoongu Han, Changhoon Jung, and Choong Kyun Rhee*
- 399 Iron(II) Tris(3-bromo-1,10-phenanthroline) Complex: Synthesis, Crystal Structure and Electropolymerization
Kyeong Jong Lee, Il Yoon, Shim Sung Lee, and Bu Yong Lee*
- 404 Copper(II) Oxyanion Complexes Derived from Sparteine Copper(II) Dinitrate: Synthesis and Characterization of 4- and 5-Coordinate Copper(II) Complexes
Yong-Min Lee, Yong-Kyu Kim, Hee-Cheul Jung, Young-Inn Kim, and Sung-Nak Choi*
- 413 Dielectric Relaxation of Siloxane-Epoxy Copolymers
Chy Hyung Kim* and Jae Sup Shin
- 417 Comparison of QSAR Methods (CoMFA, CoMSIA, HQSAR) of Anticancer 1-N-Substituted Imidazoquinoline-4,9-dione Derivatives
Myung-Eun Suh,* So-Young Park, and Hyun-Jung Lee
- 423 Diozonides from Cozonolyses of Cyclodienes and Carbonyl Compounds
Shin Hee Park and Tae Sung Huh*
- 427 α -Cyclodextrin Modified Screen Printed Graphite Electrodes for Detection of Phenols
Hwa-jeong Kim, Seung-Cheol Chang, and Yoon-Bo Shim*
- 432 Analysis of Benomyl by Liquid Chromatography/Time-of-Flight Mass Spectrometer and Its Occurrence in the Environment
Yong Chan Seo,* Kee D. Kim, and Nack Joo Kim
- 437 Synthesis of Certain New 1,2,3-Triazole Acyclonucleosides *via* 1,3-Dipolar Cycloaddition
Smaail Radi* and Hassan B. Lazrek
- 441 Molecular Dynamics Simulation Studies of Benzene, Toluene, and *p*-Xylene in a Canonical Ensemble
Ja Hun Kim and Song Hi Lee*
- 447 Molecular Dynamics Simulation Studies of Benzene, Toluene, and *p*-Xylene in NpT Ensemble: Thermodynamic, Structural, and Dynamic Properties
Ja Hun Kim and Song Hi Lee*
- 454 Furo[3,2-*h*]quinoline Derivatives as a Gastric H^+/K^+ -ATPase Inhibitors
Seung Kyu Kang, Sung Yun Cho, Sung Soo Kim, Hyaec Gyeong Cheon, Joong-Kwon Choi,* and Eul Kgun Yum

- 459 A Study of the Gas Liquid Partition Coefficients of Eleven Normal, Branched and Cyclic Alkanes in Sixty Nine Common Organic Liquids: The Effect of Solute Structure
Won Jo Cheong
- 469 Optical Anisotropy of Polyimide and Polymethacrylate Containing Photocrosslinkable Chalcone Group in the Side Chain under Irradiation of a Linearly Polarized UV Light
Dong Hoon Choi* and Young Kwan Cha
- 477 A New Nanohybrid Photocatalyst between Anatase (TiO₂) and Layered Titanate
Hyun-Cheol Lee, Hyun Jung, Jae-Min Oh, and Jin-Ho Choy*
- 481 Development of an ELISA for the Organophosphorus Insecticide Chlorpyrifos
Young Ae Cho, Hye-Sung Lee, Eun Young Park, Yong Tae Lee,* Bruce D. Hammock, Ki Chang Ahn, and Jae Koo Lee*
- 488 Determination of Volatile Organic Compounds (VOCs) Using Tedlar Bag/Solid-phase Microextraction/Gas Chromatography/Mass Spectrometry (SPME/GC/MS) in Ambient and Workplace Air
Jae-Hwan Lee, Seung Man Hwang, Dai Woon Lee, and Gwi Suk Heo*
- 497 A New Alkaloid from Two Coccinellid Beetles *Harmonia axyridis* and *Aiolocaria hexaspilota*
Naseer Alam, In Soo Choi, Kyung-Sik Song, Jongki Hong, Chong O. Lee, and Jee H. Jung*
- 500 L-Cysteinesulfenato and L-Cysteinesulfinato Cobalt(III) Complexes of *N,N'*-Dimethylethylenediamine-*N,N'*-diacetic Acid
Hyeseo Park, Jung Sung Yang, and Moo-Jin Jun*
- 503 Liquid Phase Oxidation of *p*-Xylene: Effects of Potassium with Various Reaction Conditions
Sung Hwa Jhung
- 507 Regioselective β -Functionalizations of *syn*-2,3-Dihydroxy Esters
Jung Nam Park and Soo Y. Ko*
- 509 Enantioselective Addition of Diethylzinc to Aldehydes with Easily Prepared Chiral Thiazolidine Catalysts
Myung-Jong Jin* and Sang-Han Kim
- 511 Synthesis of 1,2-Diazepino[3,4-*b*]quinoxalines by 1,3-Dipolar Cycloaddition Reaction and Their Ring Transformation to Pyridazino[3,4-*b*]quinoxalines
Ho Sik Kim,* Seong Uk Lee, Hyoung Choul Lee, and Yoshihisa Kurasawa
- 515 A Study of Benzene 1,2,4-Trisphosphate Derivatives as Inositol 1,4,5-Trisphosphate 3-Kinase Inhibitors
Young-Hoon Ahn and Sung-Kee Chung*
- 518 Synthesis and Properties of Oligomers Containing 1,4-Bis(thiophene)buta-1,3-diyne and Bisphenol-A Derivatives
Jong Youn Bae, Jung Woo Park, Yong-Rok Kim, and Young Tae Park*
- 521 An Efficient Synthesis of *N*-Methoxy-*N*-methylamides from Carboxylic Acids Using *N*-Methoxy-*N*-methylcarbamoyl Chloride
Jae In Lee* and Hyun Park
- 525 Determination of Residual Carbon and Nitrogen in Glow Discharge Lamp for Optical Emission Spectrometry
Young-Sang Kim,* Volker Hoffmann, and Detlef Schiel
- 528 Organic Electroluminescent Devices Based on Polyurethane Derivatives Having Substituted Stilbene Pendants
Gyu Hyun Lee, Youngeup Jin, Sungeun Lee, Jong Gun Lee, Jin Young Kim, Kwanghee Lee, Sung-Ho Jin, Chang-Sik Ha, Mi-Sook Won, Shin-Won Kang, and Hongsuk Suh*
- 535 Synthesis of Trisubstituted 6-Azaindoles *via* Palladium-catalyzed Heteroannulation
Moon Sub Lee and Eul Kgun Yum*
- 537 Synthetic Utilization of 2,6-Dioxa-3-azabicycloalkenes toward Cyclic Ethers
Ihl-Young Choi Lee,* Jae Hyun Lee, and Hyo Won Lee
- 539 Catalytic Activity of Tin(II) Chloride in Esterification of Carboxylic Acids with Alcohols
Chan Sik Cho,* Dong Tak Kim, Heung-Jin Choi, Tae-Jeong Kim, and Sang Chul Shim*
- 541 Ruthenium-Catalyzed Consecutive Reduction and Cyclization of Nitroarenes with Tetraalkylammonium Bromides Leading to Quinolines
Chan Sik Cho,* Tae Kyung Kim, Heung-Jin Choi, Tae-Jeong Kim, and Sang Chul Shim*
- 543 Chiral Molecular Recognition in Fast Atom Bombardment Mass Spectrometry (FAB-MS) Enantiomerlabeled (EL) Guest Method Using New Chiral Bis-pyridino-18-crown-6
Jae-Kon Kim, Jong Gun Lee, Sungeun Lee, Jung Ju Seo, Jongki Hong, and Hongsuk Suh*
- 545 Determination of Lead in Different Samples by Atomic Absorption Spectrometry after Preconcentration with Dithizone Immobilized on Surfactant-Coated Alumina
S. Dadfarnia,* A. M. Haji Shabani, and H. Dehgan Shirie

- 549 Synthesis and Characterization of Thermosensitive Poly(organophosphazenes) with Methoxy-Poly(ethylene glycol) and Alkylamines as Side Groups
Bae Hoon Lee, Young Moo Lee, Youn Soo Sohn,* and Soo-Chang Song*
- 555 Conformational Investigations of HMPAO Isomers and Their Zinc(II) Complexes
Vithaya Ruangpornvisuti,* Buncha Pulpoka, Thawatchai Tuntulani, Khajadpai Thipyapong, and Chomchai Suksai
- 563 Preparation of Copper Nanoparticles in Cellulose Acetate Polymer and the Reaction Chemistry of Copper Complexes in the Polymer
Il-Wun Shim,* Won-Tae Noh, Jiwoon Kwon, Jung Young Cho, Kyung-Soo Kim, and Dong Hee Kang
- 567 New Fused Quinoxalines : Synthesis and Reactions of Pyrimidothienoquinoxaline and Oxadizolythienoquinoxalines
Osama S. Moustafa,* Mahmoud Z. A. Badr, and Talaat I. El-Emary
- 571 Photorefractive Polymer System with a Low Glass Transition Temperature for a Holographic Recording
Nam-Jun Kim, Hyunaee Chun, In Kyu Moon, Won-Jae Joo, and Nakjoong Kim*
- 575 An Ultrathin Polymer Network through Polyion-Complex by Using Sodium Dioctadecyl Sulfate as Monolayer Template
Burm-Jong Lee,* Hee Sang Kim, Seong Hoon Kim, Eun Mi Son, Dong-Kyoo Kim, Hoon-Kyu Shin, and Young-Soo Kwon
- 580 Morphology Development in a Range of Nanometer to Micrometer in Sulfonated Poly(ethylene terephthalate) Ionomer
Chang Hyung Lee,* Takashi Inoue, and Jae-Woon Nah
- 587 Photo-alignment of Low-molecular Mass Nematic Liquid Crystals on Photochemically Bifunctional Chalcone-epoxy Film by Irradiation of a Linearly Polarized UV Light
Dong Hoon Choi* and Young Kwan Cha
- 593 Alpha-alkylcysteines as Inhibitors for Carboxypeptidase A. Synthesis, Evaluation, and Implication for Inhibitor Design Strategy
Hyun Soo Lee and Dong H. Kim*
- 599 Development of an ELISA for the Organophosphorus Insecticide Isufenphos
Han Jin Park, Won Chul Park, Taewan Jung, Choon Sup Rha, and Yong Tae Lee*
- 605 Development of an Enzyme-Linked Immunosorbent Assay for the Organophosphorus Insecticide Cyanophos
Jae Hyun Park, Won Chul Park, Yoo Jung Kim, and Yong Tae Lee*
- 610 Syntheses of 3-Pyrimidyl- and 3-Pyranyl-5,6-benzocoumarin Derivatives
Ibrahim M. El-Deen,* El-Sayed I. Al-Wakeel, and Ahmed G. El-Mawla
- 613 Synthesis, Crystal Structure, and Characterization of Manganese(IV) Complexes with Tridentate Ligands Comprising Mixed Hard-Soft Donors
Bon-Kweon Koo* and Uk Lee
- 617 A New Diterpenoid Isolated from *Isodon japonica* Structure Elucidation by NMR Spectroscopy
Bao-Lin Li and Yuan-Jiang Pan*
- 619 One-Dimensional Copper Coordination Polymer: Preparation and Structure of Bis(1,3,5-benzenetricarboxylato)(4,4-bipyridine)copper(II)
Hyun Sue Huh, Dongwon Min, Yeon Kyoung Lee, and Soon W. Lee*
- 623 Determination of Glycine Based on Fluorimetric Enhancement of Eu(III)-TTA Complex
Ki-Won Cha,* Chan-II Park, and Kwang-Won Park
- 626 A New Synthetic Process of Lansoprazole
Kwang-Hyun Ahn,* Hakwon Kim, Jeong Ryul Kim, Soon Cheol Jeong, Tae Seop Kang, Hyun Tae Shin, and Geun Jho Lim
- 629 Helical Structure and Related Properties of Ag(I) Complex with 2,3-Bis(2-pyridyl)pyrazine
Sung Ho Park, Yun Ju Kim, and Ok-Sang Jung*
- 633 Raman Study of the Intermolecular Interactions between Thermotropic Liquid-Crystalline Oligomers: Comparison of the Effect of Poly-(Propylene Oxide) and Poly(Ethylene Oxide)
Keunok Han Yu, John Moon Rhee, Jung-Hoon Lim, and Soo-Chang Yu*
- 637 Crown-Ether End-Capped Carbosiloxane Dendrimers
Chungyun Kim* and Hyejeong Kim
- 640 A Bifunctional 1,3-Alternate Calix[4]arene Receptor Containing Urea and Crown Ether Moieties
Sung Ok Kang and Kye Chun Nam*
- 647 Synthesis and Catalytic Properties of Imidazole-Functionalized Poly(propylene imine) Dendrimers
Lane A. Baker, Li Sun, and Richard M. Crooks*
- 655 Diastereoselective Azidations of (*S*)-4-Carboethoxymethylloxazolidin-2-one for 4-Oxy-2,3-diaminobutanoates
Kyoung Hoon Kim, Kun-eek Kil, Dong-Hyun Ko, Bong Young Chung, and Deok-Chan Ha*
- 657 Synthesis of Ethyl 2-Methylene-3-aryl-4-oxoalkanoates and Ethyl 2-Arylidene-4-oxoalkanoates from the Baylis-Hillman Acetates
Jeong Mi Kim, Yang Jin Im, Taek Hyeon Kim, and Jae Nyoung Kim*

- 659 The Most Simple and Convenient Synthesis of the Baylis-Hillman Adducts of Cycloalkenones: Use of DMAP in Aqueous THF
Ka Young Lee, Ji Hyeon Gong, and Jae Nyoun Kim*
- 661 The First Total Synthesis of 2,3,6-Tribromo-4,5-dihydroxybenzyl Methyl Ether (TDB) and Its Antioxidant Activity
Jae-Kon Kim, Jung Hyun Noh, Sungeun Lee, Jae Sue Choi, Hongsuk Suh,* Hae Young Chung, Yeong-Ok Song, and Won Chul Choi
- 663 Double Suzuki Reactions of Organoboronic Acids with 1,*n*-Dibromides
Chang Ho Oh* and Young Mook Lim
- 665 Diastereoselective Reduction of 2-Acyl-1,3-dioxanes Derived from *D*-Glucose
Kwang-Youn Ko* and Jong-Yek Park
- 667 Microwave-assisted Kabachnik-Fields Reaction in Ionic Liquid
Sang-gi Lee,* Jae Kyun Lee, Choong Eui Song, and Dok-Chan Kim
- 669 Partial Oxidation of Methane over Ni/SiO₂
Hyun-Seog Roh, Wen-Sheng Dong, Ki-Won Jun,* Zhong-Wen Liu, Sang-Eon Park,* and Young-Sam Oh
- 674 Propane Dehydrogenation over a Hydrogen Permselective Membrane Reactor
Jong-San Chang, Hyun-Seog Roh, Min Seok Park, and Sang-Eon Park*
- 679 Synthesis and Electrochemical Characteristics of Li_{0.7}[Ni_{0.05}Mn_{0.95}]O₂ as a Positive Material for Rechargeable Lithium Batteries
Sun-Sik Shin, Dong-Won Kim, and Yang-Kook Sun*
- 683 Preparation of UV Curable Gel Polymer Electrolytes and Their Electrochemical Properties
Bookeun Oh,* Won Il Jung, Dong-Won Kim, and Hee Woo Rhee
- 688 Synthesis of Diazacrown Ethers Containing Phenolic Side Arms and Their Complex with Divalent Metal Ions
Ki-Whan Chi,* Yoon Soo Ahn, Kwang Taeg Shim, Hwang Huh, and Jeong Soo Ahn
- 693 Determination of Trace Metals in Waters by FAAS after Enrichment as Metal-HMDTC Complexes Using Solid Phase Extraction
Şerife Tokalioglu,* Şenol Kartal, and Latif Elçi
- 699 Electrochemical Characterization of Nanosized Electrode Arrays Prepared from Nanoporous Self-Assembled Monolayers
Shin-Jung Choi and Su-Moon Park*
- 705 Paper Ionophoretic Technique in the Study of Mixed Complexes
Brij Bhushan Tewari
- 708 Manganese Metallamacrocycles with Various Coordination Solvents
Jiheh Song, Dohyun Moon, and Myoung Soo Lah*
- 715 Kinetics and Mechanism of the Pyridinolysis of Aryl Cyclobutanecarboxylates in Acetonitrile
Han Joong Koh,* Kwang Lae Han, Hai Whang Lee, and Ikchoon Lee
- 721 Chiral C₂-Symmetric α - and ω -Diimines with Bulky Substituents at Nitrogen: Synthesis and Catalytic Properties of Some Copper Complexes
Dong-Kyu Park, Eun-Sook Ryu, Seung Hwan Paek, Sang Chul Shim, Chan Sik Cho, and Tae-Jeong Kim*
- 727 A Study on the Effect of Neighboring Protons in Proton-Coupled Spin-Lattice Relaxation of Methylene Carbon-13 in *n*-Undecane
Chul Kim and Jo Woong Lee*
- 736 Mn(III)-Mediated Radical Cyclization for Δ^1 -3-Octalone Synthesis
Miai Lee, Jae-Deuk Yang, Moon-Soo Kim, Hye-Sun Jeon, Woonphil Baik, and Sangho Koo*
- 741 Zirconium Titanate Thin Film Prepared by Surface Sol-Gel Process and Effects of Thickness on Dielectric Property
Chy Hyung Kim* and Moonhee Lee
- 745 Preparation and Characterization of Hydrophilic TiO₂ Film
Jin-Koo Park and Ho-Kun Kim*
- 749 Introduction of a New Chiral Oxazolidin-2-one Derived from D-Mannitol and Its Applications as a Chiral Auxiliary
Si-Min Kim, Hyunyong Jin, and Jong-Gab Jun*
- 758 Transmission of Substituent Effects in the Protonation of Substituted 2-Furaldehydes in Sulfuric Acids
Ikchoon Lee,* Tae Seop Uhm, Zoon Ha Ryu, In Sun Koo, and Jong Pal Lee*
- 761 Synthesis and Brain Targeted Chemical Delivery of [Nva²,Pip³]-TRH
Sung-Hwa Yoon,* Jiaxiang Wu, and Nicholas Bodor
- 765 Steady-State Kinetics of the Recombinant Acetohydroxy Acid Synthase from Tobacco
Bong-Wan Lee, Jung-Do Choi, and Moon-Young Yoon*
- 769 A New Method for the Synthesis of β,β -Bis(4'-methoxy)phenyl- α -phenylvinylstannane Reagents and Their Synthetic Utilities
In Howa Jeong,* Jae Don Cha, Young Sam Park, and Bum Tae Kim
- 773 Bromination of Activated Arenes by Oxone[®] and Sodium Bromide
Kee-Jung Lee,* Hye Kyung Cho, and Choong-Eui Song*

- 776 Conformational Change of C₃₀DME, α,ω -13,16-Dimethyloctacosanedioate Dimethylester, at Various Temperatures
Jeonggun Lee, Hyun Joo, Youngil Lee,* Oc Hee Han, Seunho Jung, Cheon-Gyu Cho, and Daewon Sohn*
- 779 Rhodium(II)-Catalyzed Reaction of Iodonium Ylides with Heterocyclic and Aromatic Compounds. Efficient Synthesis of Fused Acetals and C-H Insertion Products
Yong Rok Lee* and Bang Sub Cho
- 787 Synthesis of Naphthalenes from the Reaction of Baylis-Hillman Acetates and Sulfonyl Group-containing Active Methylene Compounds
Yang Jin Im, Yun Mi Chung, Ji Hyeon Gong, and Jae Nyoung Kim*
- 789 The Reaction of Heterocyclic Nucleophiles and the DABCO Salts of the Baylis-Hillman Acetates
Ji Hyeon Gong, Hyoung Rae Kim, Eung K. Ryu, and Jae Nyoung Kim*
- 791 Deprotection of Tetrahydropyranyl Ethers Using a Catalytic Amount of Decaborane
Yeon Joo Jung, Eun Soo Park, Ji Hee Lee, and Cheol Min Yoon*
- 793 Highly Active and Stable All-Round Catalyst for Methane Reforming Reactions: Ni/Ce-ZrO₂/ θ -Al₂O₃
Hyun-Seog Roh, Ki-Won Jun,* Seung-Chan Baek, and Sang-Eon Park*
- 795 Observation of Vibronic Emission Spectra of Jet-Cooled *o*-Chlorobenzyl Radical
Sang Youl Chae, Sang Kuk Lee,* and Sung-Hoon Kim
- 797 Mild and Efficient Deoxygenation of Amine-*N*-Oxides with Bis(cyclopentadienyl)titanium(IV) Dichloride-Indium System
Byung Woo Yoo,* Jin Woo Choi, Dong Yoon Kim, Sun Kyun Hwang, Kyung Il Choi, and Joong Hyup Kim
- 799 Partial Oxidation of Methane over CeO₂ Catalyst
Hyun-Seog Roh, Ki-Won Jun,* Seung-Chan Baek, and Sang-Eon Park*
- 803 Catalytic Dehydration of Methanol to Dimethyl Ether (DME) over Solid-Acid Catalysts
Ki-Won Jun,* Hye-Soon Lee, Hyun-Seog Roh, and Sang-Eon Park*
- 807 Application of Hypothetical Quantum Scattering Model for the Design of Novel Electroluminescence Device
Hyo Weon Jang
- 811 Monte Carlo Simulation for Vapor-Liquid Equilibrium of Binary Mixtures CO₂/CH₃OH, CO₂/C₂H₅OH, and CO₂/CH₃CH₂CH₂OH
Sung Doo Moon
- 817 Adsorption of Specific Organics in Water on GAC and Regeneration of GAC by Countercurrent Oxidative Reaction
Keon Sang Ryoo,* Tae Dong Kim, and Yoo Hang Kim
- 824 Synthesis and Characterization of New Polyaza Macrocyclic Nickel(II) and Copper(II) Complexes Containing Two Nitrile or Imidate Ester Pendant Arms: Metal-Mediated Hydrolysis and Alcoholysis of the Nitrile Groups
Shin-Geol Kang,* Jeonghoon Song, and Jong Hwa Jeong
- 829 Elucidation of Selectivity Difference in the Diels-Alder Reactions of 6,6-Disubstituted Cyclohexa-2,4-dienone
Jun-Pyeong Jeong, Oh-Seuk Lee,* and Kiyull Yang
- 837 Theoretical Evaluation of the Electrophilic Catalyses in Successive Enolization and Reketonization Reactions by Δ^5 -3-Ketosteroid Isomerase
Hwangseo Park, Junghun Suh, and Sangyoub Lee*
- 845 Synthesis and Reactivity of the Pentacoordinate Organosilicon and -germanium Compounds Containing the C,P-Chelating *o*-Carboranyl-phosphino Ligand [*o*-C₂B₁₀H₁₀PPh₂-C,P](Cab^{C,P})
Taegweon Lee, Sanghoon Kim, Myong Seon Kong, Sang Ook Kang,* and Jaejung Ko*
- 851 N,N'-Dimethylethylenediamine-N,N'-di- α -butyric Acid Cobalt(III) Complexes Utilizing Oxidation of Sulfur of S-Methyl-L-cysteine
Hyun-Jin Kim, Kyoung-Tae Youm, Jung Sung Yang, and Moo-Jin Jun*
- 856 Reaction of Lithium (2,3-Dimethyl-2-butyl)-*t*-butoxyborohydride with Selected Organic Compounds Containing Representative Functional Groups
Jin Soon Cha* and Dae Yon Lee
- 861 Determination and Preconcentration of Copper(II) after Adsorption of Its Cupferron Complex onto Benzophenone
Taikjin Lee and Hee-Seon Choi*
- 865 The Orientation of CO in Heme Proteins Determined by Time-Resolved Mid-IR Spectroscopy: Anisotropy Correction for Finite Photolysis of an Optically Thick Sample
Manho Lim
- 872 Preparation and Reconstitution of Core-shell Type Nanoparticles of Poly(ϵ -caprolactone)/Poly(ethyleneglycol)/Poly(ϵ -caprolactone) Triblock Copolymers
Young-Il Jeong, Jae-Gon Ryu, Young-Hoon Kim, and Sung-Ho Kim*
- 879 Novel 1,3-Alternate Calix[4]thiacrown Ethers
Wonbo Sim,* Jai Young Lee, Jongchul Kwon, Moon Jib Kim, and Jong Seung Kim*

- 884 Preparation and Characterization of Hybrid Silica-Poly(ethylene glycol) Sonogel
Hwa Young Jung, Ravindra K. Gupta, Dong Won Seo, Yoo Hang Kim, and Chin Myung Whang*
- 891 *Ab Initio* Study of Conformers of *p*-*tert*-Butylcalix[4]crown-6-ether Complexed with Alkyl Ammonium Cations
Jong-In Choe,* Suk-Kyu Chang, and Shinkoh Nanbu
- 896 New Lignan Isolated from *Phyllanthus niruri* Linn. Structure Elucidation by NMR Spectroscopy
Wan-Xing Wei, Xing-guo Gong, Omar Ishrud, and Yuan-Jiang Pan*
- 899 Structural Analyses of Total Anionic Cyclophoraooses Synthesized by *Rhizobium meliloti* 2011
Dong-huyk Seo, Sanghoo Lee, Hey-lin Park, Dong-Heui Yi, Eunjung Ji, Dae-Ho Shin, and Seunho Jung*
- 903 Cobalt(III) Complex with Novel Chiral Amidate Ligand: (I) Synthesis, Structure and Characterization of [Co(*S*-metamp)(amp)](ClO₄)₂
Jae-Ha Park, Bae-Wook Lee, Uk Lee, and Myung-Ki Doh*
- 907 Synthesis of Cadmium(II) Organic Framework Based on Feist's Acid
Young Seop Kim, Yongbok Go, Jaheon Kim, Nakcheol Jeong, and Hee K. Chae*
- 911 Reactions of 1,4-Dianion of Methyl 2-Thienyl Ketone *N*-Ethoxycarbonylhydrazone with Carboxylic Acid Derivatives and the Synthesis of Pyrazolotriazin-7-ones
Zuhal Turgut* and Nüket Öcal
- 914 The Preparation and Characterization of Low Molecular and Water Soluble Free-amine Chitosan
Mi-Kyeong Jang, Young-Il Jeong, Chong-Su Cho, Suk-Hyang Yang, Young-Eui Kang, and Jae-Woon Nah*
- 917 Synthesis and Anticonvulsant Evaluation of 5-Vinyl-pyrrolidin-2-ones: A Potential GABA-AT Inhibitor
Tae-Woo Kwon,* Pan-Suk Kwon, Suk-Jin Song, Min-Soo Park, and Jong-Won Choi
- 921 Synthesis and Molecular Structure of (1,3-Dimethyl-4,5-dimethylimidazol-2-ylidene)Ag(I)(1,3-diphenyl-1,3-propanedionate) Complex
Min Chul Chung
- 924 **Erratum (BKCS 2002, 23(4), 599)**
- 929 *Ab Initio* Study of Mutagen X: Importance of Ionization and Solvation
Seung Joo Cho
- 931 Asymmetric Synthesis of α -Alkyl- α -phenylglycines
Seung-Han Lee,* Eun-Kyung Lee, and Soo-Min Jeun
- 933 Synthesis of New Highly Organosoluble Polyimides Bearing a Noncoplanar Twisted Biphenyl Unit Containing *t*-Butyl Phenyl Group
Yun-Hi Kim, Hyung-Sun Kim, Seong-Kuk Ahn, Sung Ouk Jung, and Soon-Ki Kwon*
- 935 Comparison of Sample Extraction Methods for the Determination of Bis(*p*-chlorophenyl)dichloroethylene (*p,p'*-DDE) in Rice Flour Using Isotope Dilution Mass Spectrometry
Byungjoo Kim,* Dal-Ho Kim, Euijin Hwang, and Hun-Young So
- 937 Gif Chemistry for Oxidation of Activated Methylenes to Ketones
Sung Soo Kim,* Santosh Kumar Sar, and Pankaj Tamrakar
- 939 Facile Synthesis of 3-Substituted 2(1*H*)-Quinolinones from the Baylis-Hillman Adducts of 2-Nitrobenzaldehydes
Ka Young Lee and Jae Nyoung Kim*
- 941 Identification of a Brassinosteroid, Castasterone from *Marchantia polymorpha*
Young-Soo Kim, Yun Hye Sup, Tae-Wuk Kim, Se-Hwan Joo, and Seong-Ki Kim*
- 943 Spectrophotometric Investigation of Cu and Fe Complexes with *o*-Chlorophenylfluorone and Selective Competition Coordination Determination of Iron Traces
Hong-Wen Gao
- 948 3-Dimensional Terbium Coordination Polymers: [Tb₄(NDC)₆(H₂O)₅] \cdot 2H₂O and [Tb₂(BPDC)₃(H₂O)₃] \cdot H₂O (NDC = 2,6-Naphthalenedicarboxylate; BPDC = 2,2'-Bipyridine-4,4'-dicarboxylate)
Dongwon Min and Soon W. Lee*
- 953 Volumetric Behaviour of Binary Liquid Mixtures at a Temperature of 303.15 K
Mohammad A. Wahab, M. Azhar Ali, and Mohammad A Mottaleb*
- 957 Synthesis and Photoisomerization Properties of Polynorbornenes with Azobenzene Chromophores
Suk Hoon Kang, Hee-Deuk Shin, Cha Hwan Oh, Dong Hoon Choi, and Ki Hong Park*
- 964 Synthesis and Characterization of Nonlinear Optical Polymers Having Quinoline-based Chromophores
Min Ho Kim, Jung-Il Jin, Chul Joo Lee, Nakjoong Kim, and Ki Hong Park*
- 971 Geometrical Construction of the *S* Matrix and Multichannel Quantum Defect Theory for the two Open and One Closed Channel System
Chun-Woo Lee

- 985 Purification and Characterization of a Laccase from *Cerrena unicolor* and Its Reactivity in Lignin Degradation
Yousung Kim, Nam-Seok Cho, Tae-Jin Eom, and Woonsup Shin*
- 990 Sonochemical Reaction Mechanism of a Polycyclic Aromatic Sulfur Hydrocarbon in Aqueous Phase
Il-Kyu Kim* and Oh-Jin Jung
- 995 Nitrobenzene Functionalized Hexahomotrioxacalix[3]arene
Jongmin Kang* and Na-young Cheong
- 998 One-Pot Synthesis of 2*H*-Pyrans by Indium(III) Chloride-Catalyzed Reactions. Efficient Synthesis of Pyranocoumarins, Pyranophenalenones, and Pyranoquinolinones
Yong Rok Lee,* Do Hoon Kim, Jae-Jin Shim, Seog K. Kim, Jung Hag Park, Jin Soon Cha, and Chong-Soon Lee
- 1003 Design, Syntheses and Biological Evaluations of Nonpeptidic Caspase 3 Inhibitors
Eun-sook Kim, Sung-eun Yoo,* Kyu Yang Yi, Sunkyung Lee, Jae-sung Noh, Yong-Sam Jung, Eunhee Kim, and Nakcheol Jeong
- 1011 Methylation of Naphthalene with Methanol over Beta, Mordenite, ZSM-12 and MCM-22 Zeolite Catalysts
Jung-Nam Park, Jun Wang, Chul Wee Lee,* and Sang-Eon Park*
- 1014 Amylose Tris(3,5-dimethylphenylcarbamate)-Coated Zirconia as a Chiral Stationary Phase for Micro HPLC
In Whan Kim, Yoshio Okamoto, Peter W. Carr, Jong Kwon Ryu, and Jung Hag Park*
- 1017 Synthesis of Novel Heterocycles Containing Perfluoroalkyl Groups: Reaction of Perfluoro-2-methyl-2-pentene with 1,3-Binucleophilic Reagents
Ki-Whan Chi,* Hyun-A Kim, Wonjoo Lee, Tae-Ho Park,* Uk Lee, and Georgii G. Furin
- 1021 Expedient Syntheses of Unsymmetrical 4-Bromo-2-carboxyl-biaryls *via* Diels-Alder Cycloadditions of 3,5-Dibromo-2-pyrone with Vinyl Arenes, Followed by One Pot, Three Step Aromatization Reactions
Soo-Hyun Min, Yong-Woo Kim, Sunju Choi, Kyung Bae Park, and Cheon-Gyu Cho*
- 1023 DFT Studies of the Lithium Complexes of DNA Bases
Gab-Yong Lee
- 1027 Chemical Fixation of Carbon Dioxide to Propylene Carbonate in Ionic Liquids
Yu-jin Kim and Minserk Cheong*
- 1029 A Convenient Method for the Synthesis of Thiobenzamide Derivatives and O-Thiobenzoates by Use of 2-Benzothiazolyl Dithiobenzoate as Effective Thiobenzylation Reagent
Seok Ki Yeo, Bou Gi Choi, Ji Deuk Kim, and Joung Hee Lee*
- 1031 Synthesis and Characterization of a New Polyester Having Photo-crosslinkable Cinnamoyl Group
Tae-Dong Kim, Hyun-Min Bae, and Kwang-Sup Lee*
- 1035 Identification and Transformation of Campestanol in Cultured Cells of *Phaseolus vulgaris*
Se-Hwan Joo, Yun Hye Sup, Tae-Wuk Kim, Young-Soo Kim, and Seong-Ki Kim*
- 1039 Epoxidation of Olefins by Cobalt-Containing Polyoxotungstate and Potassium Monopersulfate in Aqueous Solution
Sun Kyung Choi, Ha Jin Lee, Hyungrok Kim, and Wonwoo Nam*
- 1042 Structural Investigation of Pyribenzoxim Using X-ray Crystallography
Kwang-Hyeon Liu, Sangkee Rhee, and Jeong-Han Kim*
- 1049 Synthesis of Spiropyran Substituted 2,3-Dicyanopyrazines
Bum Hoon Lee, Jae Yun Jaung,* and Sung Hoon Jeong
- 1051 Reaction of Aldehydes and Ketones with Boron Triisopropoxide. The Meerwein-Ponndorf-Verley Type Reduction of Boron Alkoxides. 1
Jin Soon Cha* and Jae Hyung Park
- 1053 Relative Stability for the Structural Isomers of Producing Fused-Ring Systems from Acyclic Substrates : *Ab Initio* Study
Jong Keun Park,* Bong Gon Kim, and In Sun Koo
- 1055 Synthesis of 3-(Arylmethylene)-1,5-benzodiazepin-2-ones from Baylis-Hillman Acetates
Jeong Mi Kim, Ka Young Lee, and Jae Nyoung Kim*
- 1057 Activation Changes of *Hafnia alvei* Aspartase by Acetic Anhydride
Im-Joung La, Joungmok Kim, Jeong-Rim Kim, Ki-Tae Kim, Jung-Sung Kim, and Moon-Young Yoon*
- 1062 Preparation and Characterization of Nickel(II) and Copper(II) Tetraaza Macrocyclic Complexes with Isonicotinate Ligands
Ki-Young Choi,* Moon-Jip Kim, Dae-Sue Kim, Yong-Son Kim, Jae-Hyun Kim, Hailil Ryu, Youn-Mook Lim, Seung-Gu Kang, Ueon-Sang Shin, Kuy-Chul Lee, and Choon-Pyo Hong
- 1067 A Chelating Resin Containing 2-(2-Thiazolylazo)-5-dimethylaminophenol as the Functional Group: Synthesis and Sorption Behavior for Some Trace Metal Ions
Won Lee,* Si-Eun Lee, Mi-Kyoung Kim, Chang-Heon Lee, and Young-Sang Kim

- 1073 Thermodynamic Elucidation of Binding Isotherms for Hemoglobin & Globin of Human and Bovine upon Interaction with Dodecyl Trimethyl Ammonium Bromide
A. K. Bordbar, A. Nasehzadeh, D. Ajloo, K. Omidian, H. Naghibi, M. Mehrabi, H. Khajepour, M. Rezaei-Tavirani, and A. A. Moosavi-Movahedi*
- 1078 The Seeding Effects on the Phase Transformation of Sol-Gel Derived PZT Powder
Hyun Tae Lee, Wan In Lee, Yoo Hang Kim, and Chin Myung Whang*
- 1085 Calix[6]arene Bearing Carboxylic Acid and Amide Groups in Polymeric CTA Membrane
Jong Seung Kim,* Soo Heon Lee, Sang Hyeok Yu, Moon Hwan Cho, Dong Won Kim, Seon-Gil Kwon, and Eil-Hee Lee
- 1089 Marked Difference in Solvation Effects and Mechanism between Solvolyses of Substituted Acetylchloride with Alkyl Groups and with Aromatic Rings in Aqueous Fluorinated Alcohol and in 2,2,2-Trifluoroethanol-Ethanol Solvent Systems
Yung Hee Oh, Gyeong Gu Jang, Gui Taek Lim, and Zoon Ha Ryu*
- 1097 GC-MS/MS Analysis of Benzo(a)pyrene by Ion Trap Tandem Mass Spectrometry
Jae Jak Nam* and Sang Hak Lee
- 1103 Modification of H-ZSM-5 and γ -Alumina with Formaldehyde and Its Application to the Synthesis of Dimethyl Ether from Syn-gas
Oh-Shim Joo,* Kwang-Deog Jung, and Sung-Hwan Han
- 1106 Molecular Strands and Related Properties of Silver(I) Triflate with 3,3'-Oxybispyridine vs 3,3'-Thiobispyridine
Yun Ju Kim, Young-A Lee, Ki-Min Park, Hee K. Chae, and Ok-Sang Jung*
- 1111 Energy Transfer between Calixarene and Naphthalene
Seong-Keun Kook
- 1116 Production and Characterization of Monoclonal Antibodies to a Generic Hapten for Class-Specific Determination of Organophosphorus Pesticides
Mi Soon Jang, Soo Jung Lee, Xiaoping Xue, Hyuk-Man Kwon, Choon Sup Ra, Yong Tae Lee,* and Taeowan Chung*
- 1121 Crystal Structures of Zeolite X Exchanged by Two Different Cations. Structures of $Cd_{32}Cs_{28}$ -X and $Cd_{28}Rb_{36}$ -X (X = $Si_{100}Al_{92}O_{384}$)
Gyoung Hwa Jeong and Yang Kim*
- 1127 Synthesis and Characterization of Al_2O_3/ZrO_2 , Al_2O_3/TiO_2 and $Al_2O_3/ZrO_2/TiO_2$ Ceramic Composite Particles Prepared by Ultrasonic Spray Pyrolysis
In-Soo Shim and Chang-Seop Lee*
- 1135 Support Effects of Copper Containing Catalysts on Methanol Dehydrogenation
Kwang-Deog Jung* and Oh-Shim Joo
- 1139 Quantitative Analysis of Lysophosphatidic Acid in Human Plasma by Tandem Mass Spectrometry
Hohyun Kim,* Hye-Ran Yoon, and Dongjin Pyo
- 1144 The Polyaniline Electrode Doped with Li Salt and Protonic Acid in Lithium Secondary Battery
Kwang Sun Ryu,* Kwang Man Kim, Young-Sik Hong, Yong Joon Park, and Soon Ho Chang
- 1149 CH_4 Dry Reforming on Alumina-Supported Nickel Catalyst
Oh-Shim Joo* and Kwang-Deog Jung
- 1154 Temperature Dependence of Calixarene Crystal Luminescence
Seong-Keun Kook
- 1157 Imination Catalysis *via* Two-point Binding of Substrate Aldehyde *via* a Metal and a Pendant Hydrogen-Bonding Group
Dong-Heon Lee,* Robert H. Crabtree, and Sang-Kyu Park
- 1160 Synthesis and Molecular Structure of (1,3-Dimethyl-4,5-dimethylimidazol-2-ylidene)Ag(I)(benzoate)
Minchul Chung
- 1163 Expansion Dynamics of Carbon Cluster Ions (C_n^+ , $n = 1-24$) Produced by Laser Ablation of a Graphite Target
Chang Hyun Bae and Seung Min Park*
- 1166 Carbon Dioxide Reforming of Methane over Ni/ θ - Al_2O_3 Catalysts: Effect of Ni Content
Hyun-Seog Roh, Ki-Won Jun,* Seung-Chan Baek, and Sang-Eon Park*
- 1169 Determination of Heavy Metal Ions Using Conductometric Biosensor Based on Sol-Gel-Immobilized Urease
Sang-Mok Lee and Won-Yong Lee*
- 1173 Studies on the Total Synthesis of Amphidinolide O. A Stereoselective Synthesis of C12-C17 Fragment
Jin-Hyun Pang and Duck-Hyung Lee*
- 1177 Platinumbis(azido)dppf Compound: Preparation, Structure, and Reactivity to Isocyanides of $[Pt(dppf)(N_3)_2]$ (dppf = 1,1'-Bis(diphenylphosphino)ferrocene)
Wan Sung Kim, Yong-Joo Kim, and Soon W. Lee*

- 1185 Efficient Synthesis of Iodohydrins by Selective Cleavage of Epoxides with Samarium Iodide Complex
Doo Won Kwon, Heui Sul Park, and Yong Hae Kim*
- 1187 Free Radical Acylation Approach of Carbohydrate Derivatives
Won-jin Chung, Gee-Ho Jeon, Joo-Yong Yoon, and Sunggak Kim*
- 1189 Stereoselective Synthesis of (+)-Methyl 8-*epi*-nonactate
Eun Lee,* Lee Taek Sung, and Sung Kil Hong
- 1191 A New Intercalation Complex, C₆₀(C₂H₈N₂)₆-FeOCl
Jin-Ho Choy,* Nam-Gyu Park, Joo-Byoung Yoon, and Hyun Jung
- 1193 A New Efficient Method for the Synthesis of *L*-Galactose
Kwan Soo Kim,* Bong Hwan Cho, and Injae Shin
- 1195 A Stereocontrolled Synthesis of *D-erythro*-Sphingosine and *D-ribo*-Phytosphingosine
Sung Ho Kang,* Yu Sang Hwang, and Hee Seung Lee
- 1197 An Efficient Synthesis of C3-C9 Segment of Soraphen A
Hyo Won Lee,* Ihl-Young Choi Lee, Young-Soo Kim, and Seung-Un Park
- 1199 Conformational Analysis of Fungicidal MOA Compounds: *Ab initio* and Semi-empirical Studies on the Relationship between Activity and Torsional Energy
Choon Sup Ra* and Gyoosoon Park*
- 1201 Synthesis and Liquid Crystalline Properties of Hyperbranched Aromatic Polyesters Consisting of Azoxybenzene Mesogens and Polymethylene Spacers
Young Suk Park, Jun-Woo Lee, and Jung-Il Jin*
- 1208 Photoinduced Intramolecular Substitution Reaction of Aryl Halide with Carbonyl Oxygen of Amide Group
Yong-Tae Park,* Myong-Geun Song, Moon-Sub Kim, and Jeong-Hee Kwon
- 1213 Friedel-Crafts Type Alkylation of 1,2,3,4,5,6,7,8-Octahydroanthracene with Vinylchlorosilanes: Synthesis of Mono, Bis[2-(chlorosilyl)ethyl]-1,2,3,4,5,6,7,8-octahydroanthracenes
Seong Deok Kong, Chang Yeob Lee, Bok Ryul Yoo, Myong Euy Lee, and Il Nam Jung*
- 1218 Photoaddition Reactions of Silyl Ketene Acetals with Aromatic Carbonyl Compounds: A New Procedure for β -Hydroxyester Synthesis
Ung Chan Yoon,* Moon Jung Kim, Jae Joon Moon, Sun Wha Oh, Hyun Jin Kim, and Patrick S. Mariano
- 1229 Photochemical Reductions of Benzil and Benzoin in the Presence of Triethylamine and TiO₂ Photocatalyst
Joon Woo Park,* Eun Kyung Kim, and Kwanghee Koh Park
- 1235 Synthesis and Characterization of New Orange-Red Light-Emitting PPV Derivatives with Bulky Cyclohexyl Groups
Seung Won Ko, Byung-Jun Jung, Nam Sung Cho, and Hong-Ku Shim*
- 1241 Correlation of Chemical Shifts with Substituent Parameters in *N*-Benzyl Derivatives of Pyrrole, 3a,7a-Dihydroindole, and Indole Esters
Kyu Ok Jeon, Ji Sook Yu, and Chang Kiu Lee*
- 1247 Mass-analyzed Threshold Ionization Spectrometry with Scrambling Field Optimized for the Study of State-selective Ion Reaction Dynamics
Sang Tae Park, Hong Lae Kim, and Myung Soo Kim*
- 1253 Synthesis and Nonlinear Optical Properties of 1,3,5-Tricyano-2,4,6-tris[2-(thiophen-2-yl)vinyl]benzene Derivatives
Bong Rae Cho,* Young Hoon Kim, Kyung Wha Son, Chajara Khalil, Yong Ho Kim, and Seung-Joon Jeon*
- 1257 Oxidation of Tricarbonylmolybdocarborane. 3. A New Entry to the First Examples of Sulfido-Bridged Dinuclear Molybda(V)carboranes
Jeong-Wook Hwang, Jae-Hak Kim, Jinkwon Kim,* Jae-kook Uhm,* and Youngkyu Do*
- 1263 The Effect of Medium on the α -Effect: Nucleophilic Substitution Reaction of *p*-Nitrophenyl Diphenyl Phosphinate with Butane-2,3-dione Monoximate and Substituted Phenoxides in Cationic Micelles
Jin-Kyung Limb, Sang-Eun Jeon, Seung-Eun Lee, and Ik-Hwan Um*
- 1267 Effects of Intramolecular Basis Set Superposition Error on Conformational Energy Difference of 1,2-Difluoroethane and 1,2-Dimethoxyethane
Young-Kyu Han, Kyoung Hoon Kim, Sang-Kil Son, and Yoon Sup Lee*
- 1272 Sonochemical Reformatsky Reaction Using Indium
Keukchan Bang, Kooyeon Lee, Yong Kwang Park, and Phil Ho Lee*
- 1277 An Efficient Synthesis of α -Amino- δ -valerolactones by the Ugi Five-Center Three-Component Reaction
Young Bae Kim, Soo Jung Park, Gyochang Keum, Min Seok Jang, Soon Bang Kang, Duck Hyung Lee, and Youseung Kim*
- 1285 A Facile One-Pot Operations of Reduction and Allylation of Nitrobenzaldehydes Mediated by Indium and Their Applications
Yong Seo Cho,* Kyung Ho Kang, Joo Hwan Cha, Kyung Il Choi, Ae Nim Pae, Hun Yeong Koh, and Moon Ho Chang
- 1291 Liquid Chromatographic Resolution of *N*-Protected α -Amino Acids as Their Anilide and 3,5-Dimethylanilide Derivatives on Chiral Stationary Phases Derived from (*S*)-Leucine
Myung Ho Hyun,* Yoon Jae Cho, and In Kyu Baik

- 1297 Computational Study of Catechol-(H₂O)_n (*n* = 1-3) Clusters
Sang-Hee Jang, Sung-Woo Park, Joo-Hye Kang, and Sungyul Lee*
- 1304 Synthesis of BiSrCaCu(Ni)O Ceramics from the Gel Precursors and the Effect of Ni Substitution
Beom-Shu Ahn
- 1309 Substituent Effect on Fluorescence and Photoisomerization of 1-(9-Anthryl)-2-(4-pyridyl)ethenes
Eun Ju Shin* and Sang Ha Lee
- 1315 Photophysical Properties of New Psoralen Derivatives: Psoralens Linked to Adenine through Polymethylene Chains
Dong Jin Yoo,* Hyung-Du Park, Ae Rhan Kim, Young S. Rho, and Sang Chul Shim
- 1321 Crystal Structure and Magnetic Properties of Bis(*N,N*-dimethyl-2-thiophenemethylammonium) Tetrabromocobaltate(II)
Young-Inn Kim, Yong-Min Lee, Sung Kwon Kang, and Sung-Nak Choi*
- 1325 Amidochlorination of 4-*O*-Azidoformyl-D-pseudoglycals with Iron (II) Chloride and Chlorotrimethylsilane
Hyun Woog Chung, Goo Soo Lee, and Bong Young Chung*
- 1328 Convenient Synthesis of Enantiopure β -Adrenergic Blockers: (*R*)-Nifenalol, (*R*)-Denopamine, (*R*)-Dichloroisoproterenol and (*R*)-Pronethalol
Byung Tae Cho,* Sang Kyu Kang, and Weon Ki Yang
- 1331 Oxidation of Alcohols with Periodic Acid Catalyzed by Fe(III)/2-Picolinic Acid
Sung Soo Kim,* Igor Trushkov, and Santosh Kumar Sar
- 1333 Synthesis of 4-Alkylfuran-2-acetates and 4-Alkylthiophene-2-acetates Using 2-(Chloromethyl)-3-(tributylstannyl)propene
Kyung-Tae Kang,* Young Back Hwang, Mi Young Kim, Seng Kue Lee, and Jong Gun Lee
- 1337 DNA Hybridization by Peptide Nucleic Acids Attached to Controlled Pore Glass
Soyee Park, Jung Bae Song, Chang Hwa Kim, Sezu Oh, Inseok Hong, and Junghun Suh*
- 1340 Conversion of Carboxylic Acids to Aldehydes with Cyclic Dialkyldiaminoaluminum Hydrides
Jin Soon Cha* and Suk Joung Moon
- 1343 Polymerization of Acrylic Acids by Chlorocarbon/Metallocene Combination Initiator
Hee-Gweon Woo,* Bo-Hye Kim, Myoung-Shik Cho, Min-Sook Kim, Yun-Gil Chung, Heui-Suk Ham,* Choon-Seon Paek, Teak Sung Hwang, Moo-Jin Jun, and Hong Li
- 1347 Novel [2]Pseudorotaxanes Containing Cucurbituril as a Molecular Bead: Unexpected Formation of a Kinetic Product Which Spontaneously Converts into a Thermodynamic Product by Translocation of the Bead
Jae Wook Lee, SooWhan Choi, Young Ho Ko, Soo-Young Kim, and Kimoon Kim*
- 1351 Application of an Anthracene Containing Polymer to a Negative Type Photoresist
Kyu Ho Chae,* Yong Woon Kim, and Taek Hyeon Kim
- 1359 One-Pot Conversion of Nitroarenes into *N*-Arylamides
Ka Young Lee, Jeong Mi Kim, and Jae Nyoung Kim*
- 1361 Facile Synthesis of 5-Arylpent-4-enoates from the Baylis-Hillman Acetates
Yang Jin Im, Jeong Mi Kim, and Jae Nyoung Kim*
- 1363 Synthesis of *ortho*-Acetamidomandelic Acid Derivatives from Isatins
Yun Mi Chung, Ji Hyeon Gong, and Jae Nyoung Kim*
- 1365 Development of Mn(III)(Schiff Base) Complexes for the Catalyst of Olefin Oxygenation to Alcohols in the Presence of NaBH₄
Nam Ho Lee,* Jong Chul Byun, Jong Seok Baik, Chung-Hun Han, and Sung-bin Han
- 1367 Ytterbium(III) Triflate-Catalyzed One-Pot Mannich-Type Reaction in Ionic Liquid
Sang-gi Lee* and Jung Hwan Park
- 1369 The Role of β -Turn in the Folding of Mini-Proinsulins
Seung-Gu Chang, Ki-Doo Choi, Dae-Young Kim, Hee-Taik Kang, Myeong-Cheol Song, and Hang-Cheol Shin*
- 1371 Mechanism of Cell Growth Inhibition by Menadione
Seung Wook Ham,* Soomee Jin, and Jeung Hwan Song
- 1373 Isolation and Identification of Oleamide as a Growth Inhibitory Compound from the Medium Conditioned by Colon Cancer Cells Treated with Conjugated Linoleic Acid
Jung Han Yoon Park, Eun Ji Kim, Hyunyong Jin, and Jong-Gab Jun*
- 1375 Facile β -Alkylation and β -Hydroxyalkylation of α,β -Unsaturated Lactones and Esters
Sun Ho Jung* and Jung Hyun Kim
- 1377 Reaction of Epoxides with Boron Triisopropoxide. The Meerwein-Ponndorf-Verley Type Reduction of Boron Alkoxides. 2
Jin Soon Cha* and Jae Hyung Park

- 1379 Highly Cesium Selective Calix[6]arene Receptors: Synthesis, Structure and Cesium Binding Properties of Calix[6]arene Biscrown
Seung Whan Ko, Yong Shik Yang, Jung Hwa Mun, Ki-Min Park, Shim Sung Lee, and Kye Chun Nam*
- 1381 Extraction Equilibria and Solvent Sublation for Determination of Ultra Trace Bi(III), In(III) and Tl(III) in Water Samples by Ion-Pairs of Metal-2-Naphthoate Complexes and Tetrabutylammonium Ion
Young-Sang Kim,* Yoon-seok Choi, and Won Lee
- 1389 The Matrix Effect of Biological Concomitant Element on the Signal Intensity of Ge, As, and Se in Inductively Coupled Plasma/Mass Spectrometry
Kyung-Su Park,* Sun-Tae Kim, Young-Man Kim, Yunje Kim, and Won Lee*
- 1394 Novel Copper(II)-Selective Sensor Based on a New Hexadentates Schiff's Base
Mohammad Reza Ganjali,* Mehdi Emami, and Masoud Salavati-Niasari
- 1399 Development of an Enzyme-Linked Immunosorbent Assay for the Organophosphorus Insecticide Bromophos
Won Chul Park, Young Ae Cho, Yoo Jung Kim, Bruce D. Hammock, Yong Tae Lee, and Hye-Sung Lee*
- 1404 Relationships between the Raman Excitation Photon Energies and Its Wavenumbers in Doped *trans*-Polyacetylene
Jin-Yeol Kim,* Eung-Ryul Kim, Dae-Woo Ihm, and Mitsuo Tasumi
- 1409 Polymeric Acetate-Selective Electrodes Based on *meso*-($\alpha,\alpha,\alpha,\alpha$)-Tetrakis-[(2-arylphenylurea)phenyl]porphyrins: Electronic and pH Effects
Hyo Kyoung Lee, Kiju Song, Hyung Ran Seo, and Seungwon Jeon*
- 1413 Hapten Synthesis and Influence of Coating Ligands on Enzyme-linked Immunoreaction of DDT
Ji Youn Hong, Jong-Hyun Kim, and Myung Ja Choi*
- 1420 Synthesis of Tripodal Trifluoroacetophenone Derivatives and Their Evaluation as Ion-Selective Electrode Membranes
Young Kook Kim, Jeonghan Ha, Geun Sig Cha,* and Kyo Han Ahn*
- 1425 Synthesis of 6,7-Dichloro-5,8-phthalazinedione and Its Derivatives
Jin Sung Kim, Kye Jung Shin, Dong Chan Kim, Yong Koo Kang, Dong Jin Kim, Kyung Ho Yoo,* and Sang Woo Park*
- 1429 Absolute Stereochemistry Determination of Tetra B
Geonseek Ryu, Byoung Wook Choi, and Bong Ho Lee*
- 1435 The Optical Properties of $(Y_{1-x}Gd_x)_{3-z}(Al_{1-y}Ga_y)_5O_{12}:Ce_z$ Phosphors for White LED
Young-Duk Huh,* Young-Shik Cho, and Young Rag Do
- 1439 Design and Synthesis of Quipazine Based Re-Complexes for the Development of Potential SPECT Imaging Agents with ^{99m}Tc for 5-HT Transporter
Mi-Young In, Dae Yoon Chi, Sun-Ju Choi, Kyung-Bae Park, and Cheon-Gyu Cho*
- 1445 Correlation of the Rates of Solvolysis of Phenyl Chlorodithioformate
Sun Kyoung An, Jin Soon Yang, Jun Mi Cho, Kiyull Yang, Jong Pal Lee, T. W. Bentley, Ikchoon Lee, and In Sun Koo*
- 1451 Activation of Phospholipase D in Rat Thymocytes by Sphingosine
Youngkyun Lee and Myung-Un Choi*
- 1456 Spectrofluorimetric Determination of Oxalate Based on Its Ternary Complex between Eu^{3+} and Thenoyltrifluoroacetone
Ki Won Cha,* Hua Zi Huang, and Hyun Cheol Choi
- 1459 Kinetic Studies on the Nucleophilic Addition Reactions of Vinylic β -Diketones
Hyuck Keun Oh* and Jae Myon Lee
- 1463 Ferroelectric Properties of Substituted Aurivillius Phases $SrBi_2Nb_{2-x}M_xO_9$ ($M=Cr, Mo$)
S.-Y. Moon, K. S. Choi, K. W. Jung, H. Lee, and D. Jung*
- 1467 Cyclitol Derivatives from the Sponge *Sarcotragus* Species
Yonghong Liu, Chong O. Lee, Jongki Hong, and Jee H. Jung*
- 1470 Luminescence Properties of Poly[2-(4'-*t*-butylphenoxy)-1,4-phenylenevinylene]
Nguyen Phuong Hoai Nam, Veena Prasad, Soon Wook Cha, Dong Won Lee, and Jung-II Jin*
- 1473 Identification of 6-Deoxocasterone and Brassinolide from a Liverwort, *Marchantia polymorpha*
Young-Soo Kim, Soon Young Kim, Seong-Ki Kim, and Jae Kuk Shim*
- 1477 Ceric Ammonium Nitrate(CAN)-Mediated Oxidative Cycloaddition of 1,3-Dicarbonyls to Vinyl Sulfides. Application to the Synthesis of Evodone and Avicquinone-B
Yong Rok Lee,* Gun Joon Lee, and Keon Yong Kang
- 1481 Facile Synthesis of 5-Carboxylate Substituted Piperazin-2-ones as Peptidomimetic Agents
Yong Jun Chung,* Youn-Chul Kim, and Ho-Jin Park
- 1483 Peptide-Binding Macrocycles Based on Trimesic Acid and 1,2-Diamines
Ji Eun Jung and Seung Soo Yoon*

- 1487 Chiral Phosphinoxazolidine Ligand Derived from Prolinol: Application to the Pd-Catalyzed Asymmetric Allylic Alkylation
Myung-Jong Jin,* Sang-Joon Lee, and Young-Mok Kim
- 1490 Enzymatic Introduction of Cyanide into Imine for Constructing Optically Active Compound by (*R*)-Oxy-nitrilase in Almond Meal
Teckheon Lee and Yonghyun Ahn*
- 1493 Facile Synthesis of 3-Alkoxyethyl 2(*1H*)-Quinolinones from the Baylis-Hillman Adducts of 2-Nitrobenzaldehydes
Ka Young Lee, Jeong Mi Kim, and Jae Nyoung Kim*
- 1496 Rapid Monitoring Method of Active and Passive Smoker with Saliva Cotinine by Gas Chromatography-Mass Spectrometry
Jin-gu Kim, Ueon-Sang Shin, and Ho-Sang Shin*
- 1503 Efficient Method for Preparation of α -[(2,4-Dinitrobenzene)sulfonyl]oxy Carbonyl Compounds
Jong Chan Lee,* Sehyun Kim, Chang Hoe Ku, Hyun Jung Choi, and Yong Chan Lee
- 1505 Aromatization of Hantzsch 1,4-Dihydropyridines with [Hydroxy(tosyloxy)iodo]benzene
Kang-Hyeok Lee and Kwang-Youn Ko*
- 1507 Quantitative Elemental Analysis of Sodium(²³Na) by NMR Spectroscopy
Heon-Sung Lim, Gee-Chung Han, and Sueg-Geun Lee*
- 1509 Single Resin Bead Kinetics Using Real Time Fluorescence Measurements
Puja B. Parikh, Young-Soo Kim, and Young-Tae Chang*
- 1511 Highly Sensitive and Fast Protein Detection with Coomassie Brilliant Blue in Sodium Dodecyl Sulfate-Polyacrylamide Gel Electrophoresis
Donghoon Kang, Yong Song Gho, Myungkoo Suh,* and Chulhun Kang*
- 1513 *In situ* Photoacoustic Study of Water Gas Shift Reaction over Magnetite/Chromium Oxide and Copper/Zinc Oxide Catalysts
In-Sik Byun, Ok-Lim Choi, Joong-Gill Choi,* and Sung-Han Lee*
- 1519 Electrochemical Fabrication of CdS/Co Nanowire Arrays in Porous Aluminum Oxide Templates
Cheonho Yoon* and Jung Sang Suh
- 1524 A Calculation for the Viscosity of Fluid at the Critical Point
Wonsoo Kim* and Tong-Seek Chair
- 1527 The Crystal Structure of One Natural Compound Cyclo-(1,10-Docandiamino-11,20-Docanedioic) Amide (1,12-Diazacyclodocosane-2,11-Dione)
Wan-Xing Wei and Yuan-Jiang Pan*
- 1531 An Archaeochemical Microstructural Study on Koryŏ Inlaid Celadon
Seung Wook Ham, Il-wun Shim, Young Eun Lee, Ji Yoon Kang, and Kyongshin Koh*
- 1541 Determination of Boron in Steel by Isotope-Dilution Inductively Coupled Plasma Mass Spectrometry after Matrix Separation
Chang J. Park
- 1545 Structural Investigation of Bistrifluron Using X-Ray Crystallography, NMR Spectroscopy, and Molecular Modeling
Joon Kwan Moon, Jeong-Han Kim,* Sangkee Rhee, Gangbeom Kim, Hoseop Yun, Bong-Jin Chung, Sangsan Lee, and Yoongho Lim*
- 1548 (-)- β -Narcotine: A Facile Synthesis and the Degradation with Ethyl Chloroformate
Dong-Ung Lee
- 1553 Structure, Spectroscopic Properties and Reactions of Interstellar Molecule HC₂N and Isomers : *Ab initio* Study
Sung-Woo Park and Sungyul Lee*
- 1560 The Lecomte-Ueda Transformation and Resonance Structure in the Multichannel Quantum Defect Theory for the Two Open and One Closed Channel System
Chun-Woo Lee* and Ji-Hyun Kim
- 1579 Testosterone-encapsulated Surfactant-free Nanoparticles of Poly(DL-lactide-*co*-glycolide): Preparation and Release Behavior
Young-Il Jeong,* Yong-Ho Shim, Ki Chan Song, Youeng-Guen Park, Hwa-Won Ryu, and Jae-Woon Nah
- 1585 *N*-Anthracenylmethyl Calix[4]azacrowns as New Fluorescent Ionophores
Seung H. Yang, Ok J. Shon, Ki M. Park, Shim S. Lee, Ho J. Park, Moon J. Kim, Joung H. Lee, and Jong S. Kim*
- 1590 Determination of Sulfonamides in Meat by Liquid Chromatography Coupled with Atmospheric Pressure Chemical Ionization Mass Spectrometry
Dal-Ho Kim,* JongOh Choi, Jin Seog Kim, and Dai Woon Lee
- 1595 Diffusion Behavior of *n*-Alkanes by Molecular Dynamics Simulations
Geun Hoi Goo, Gihong Sung, Song Hi Lee,* and Taihyun Chang
- 1604 SERS of Dithiocarbamate Pesticides Adsorbed on Silver Surface; Thiram
Jae Soo Kang, Seon Yeong Hwang, Chul Jae Lee, and Mu Sang Lee*

- 1611 Halogenated Cleavage of Epoxides into Halohydrins in the Presence of a Series of Diamine Podands as Catalyst with Elemental Iodine and Bromine
Hashem Sharghi,* Zahra Pazirae, and Khodabakhsh Niknam
- 1616 Surface-Modified Porous Polymeric Membrane Using Vesicles
Ji-Youn Im, Sang-Hee Lee, Suck-Beom Ko, Kuk-Haeng Lee, and Youn-Sik Lee*
- 1623 Synthesis of Tetracyclic Pyrido[2,3-*b*]azepine Derivatives as Analogues of Mirtazapine via *N*-Acyliminium Ion Cyclization
Jae Yeol Lee,* Sung Hun Bang, Sook Ja Lee, Yun Seon Song, Changbae Jin, Hokoon Park, and Yong Sup Lee*
- 1629 Conformations of Tetrahomodioxo-*p*-phenylcalix[4]arene Alkyl Ethers
Kwanghyun No* and Young Ja Park
- 1635 Highly Selective Triiodide Polymeric Membrane Electrode Based on Tetra(*p*-chlorophenyl)porphyrinato Manganese (III) Acetate
Khalil Farhadi, Hossain Shaikhlouei, Ramin Maleki, Hashem Sharghi, and Mojtaba Shamsipur*
- 1640 NAD⁺ Reduction by Ethanol Depending on Mitochondrial Surface
Jae Yang Lee, Sang Jik Lee,* and Ji Young Song
- 1643 Preparation of Novel Tyrosine-Based Polymers and Thermal Properties
Byoung-Hun Kim, Chil-Won Lee, Jaejung Ko, Ho-Geom Chang, and Myoung-Seon Gong*
- 1647 Identification of Fragrances from Chestnut Blossom by Gas Chromatography-Ion Trap Mass Spectrometry
Dong-Sun Lee* and Nam-Sun Kim
- 1651 Baylis-Hillman Reaction of Isatin Derivatives: Isatins as a New Entry for the Baylis-Hillman Reaction
Yun Mi Chung, Yang Jin Im, and Jae Nyoung Kim*
- 1655 Novel Macrocyclic Receptors for Peptides
Ji Eun Jung and Seung Soo Yoon*
- 1658 Solid-Phase Synthesis of Benzopyran Building Blocks via Highly Efficient Hydroxy-Alkoxylation
Young-Dae Gong,* Jong Yeon Hwang, Yong Sog Chon, Jin-soo Seo, and Sung-eun Yoo*
- 1661 Synthesis and Crystal Structure of Triammonium (Propylenediaminetetraacetato)dioxovanadate(V) Monohydrate Complex
Man-Ho Lee,* Nam Ho Heo, and Young Kee Oh
- 1664 Nitric Oxide Converts Catalase Compounds II and III to Ferricatalase
Yu Shin Kim, Sang Mok Kim, and Sanghwa Han*
- 1667 Oxidation and Bromodehydroxylation of Benzylic Alcohols Using NaBrO₃/NaHSO₃ Reagent
Chang Keun Lee, Bon-Suk Koo, Yong Sook Lee, Hye Kyung Cho, and Kee-Jung Lee*
- 1671 Interpretation of the Mass Change Behavior in the Binary Monolayer of Hydroquinone-tethered Alkylthiol and Aminoalkylthiol
Kyoungja Seo, Il Cheol Jeon,* Hun-Gi Hong, and Wonchoul Park
- 1674 An Observation of a Series of *S*→*N*→*N* Acyl Transfers in 3-Mercaptoproline
Kee-In Lee* and Kwang-Nym Cho
- 1677 Chromatographic Enantiomer Separation of Diphenylalanine on Chiral Stationary Phases Derived from Chiral Crown Ethers
Wonjae Lee,* Chae-Sun Baek, and Koo Lee
- 1680 A Study of Solvolyses of *ortho*- and *para* Carboxybenzyl Bromides Using the Extended Grunwald-Winstein Equation
Jin-Woo Ra, Jin Burm Kyong,* and Dennis N. Kevill
- 1683 Efficient Cleavage of C=N under Heterogeneous and Non-aqueous Conditions
F. Shirini,* M. Mamaghani,* F. Parsa, and I. Mohammadpoor-Baltork
- 1685 Excited State Behavior of 1-(9-Anthryl)-2-(2-thienyl)ethene
Eun Ju Shin
- 1693 A Simple and Efficient Synthesis of near Enantiopure β-Hydroxy Nitriles
Byung Tae Cho,* Sang Kyu Kang, and Sung Hye Shin
- 1695 A New Class of Stereoselective Reducing Agents, Lithium Di(3-methyl-2-butyl)alkoxyborohydrides
Sung Dong Cho,* Hyang Ju Lim, Hong Ju Kim, and Jin Soon Cha
- 1697 Selective Conversion of Aromatic Nitriles to Aldehydes by Lithium *N,N*-Dimethylethylenediaminoaluminum Hydride
Jin Soon Cha,* Seung Ho Jang, and Sang Yong Kwon
- 1699 Studies on Synthesis and Biological Activities of Novel Triazole Compounds Containing *N,N*-Dialkyldithiocarbamate
L. Z. Xu, K. Jiao,* S. S. Zhang, and S. P. Kuang
- 1702 1,2-Ferrocenediylazaphosphinines 3: A New Class of Planar Chiral Ligands for Cu-Catalyzed Cyclopropanation
Seung Hwan Paek, Thanh-Thien Co, Dong Ho Lee, Yu Chul Park, and Tae-Jeong Kim*

- 1709 Synthesis and Reactions of New Thienopyridines, Pyridothienopyrimidines and Pyridothienotriazines
E. A. Bakhite,* A. E. Abdel-Rahman, O. S. Mohamed, and E. A. Thabet
- 1715 Synthesis and Some Reactions of New Thieno[2,3-c]pyridazine Derivatives
Etify A. Bakhite,* Omima S. Mohamed, and Shaban M. Radwan
- 1719 Preconcentration and Determination of Mercury (II) and Methylmercury in Waters by Immobilized 1,5-Diphenylcarbazon and Cold Vapor Atomic Absorption Spectrometry
Shayessteh Dadfarnia,* Ali Mohammed Salmanzadeh, and Ali Mohammed Haji Shabani
- 1724 Protein Adsorption on the Nickel-Coated Glass Slide for Protein Chips
June Won Hyun,* Shi Yong Kim, Sanghee Lee, Heonyong Park, Jaeho Pyee, and Sunghoon Kim
- 1729 Solid-state Characterization of the HIV Protease Inhibitor
Yongae Kim* and Aeri Kim
- 1733 Exactly Solvable Time-Dependent Problems: Potentials of Monotonously Decreasing Function of Time
Tae Jun Park
- 1737 Dynamics of Hydrogen Molecules Produced on a Graphite Surface
Yoonhee Ko, Jongbaik Ree,* Yoo Hang Kim, and Hyung Kyu Shin
- 1744 Anions as Connectors for Higher Dimensions. Silver(I) Trifluoroacetate with 3,3'-Oxybispyridine vs 3,3'-Thiobispyridine
Yun Ju Kim, Kyung Ho Yoo, Ki-Min Park, Jongki Hong, and Ok-Sang Jung*
- 1749 On the Critical Behavior of Phase Changes of a Forward-Scattered Light in a Nonpolar Binary Liquid Mixture
Kyoung-Ran Kim, Young-Soo Kang, and Dong J. Lee*
- 1754 Synthesis and Characterization of Tetrathiafulvalene (TTF) and 7,7,8,8-Tetracyanoquinodimethane (TCNQ) Compounds with PdX₂ (X = Cl, NO₃ and Hexafluoroacetylacetonate)
Young-Inn Kim,* Chan-Kyou Jeong, Yong-Min Lee, and Sung-Nak Choi
- 1759 Two Crystal Structures of Ag⁺- and Tl⁺-Exchanged Zeolite X, Ag₂₇Tl₆₅-X and Ag₂₃Tl₆₉-X
Soo Yeon Kim, Eun Young Choi, and Yang Kim*
- 1765 Study on CO Adsorption on *in-situ* Brass Formed Cu/ZnO
Kwang-Deog Jung* and Oh-Shim Joo
- 1769 ¹⁴N Mims Pulsed-ENDOR of Proximal Histidine and Heme of Aquometmyoglobin and Fluorometmyoglobin
Hong-In Lee
- 1773 Protectors of Oxidative Stress Inhibit Aβ (1-42) Aggregation *in vitro*
Byungmun Kong, Jeonghoon Ueom, Inkyung Kim, Dongyeol Lim, Jongmin Kang, and Kyunghee Lee*
- 1778 Structural Analyses of the Novel Phosphoglycolipids Containing the Unusual very Long Bifunctional Acyl Chain, α,ω-13,16-Dimethyl-octacosanedioate in *Thermoanaerobacter ethanolicus*
Sanghoon Lee, Sebyung Kang, Jai Neung Kim, and Seunho Jung*
- 1785 Catalytic Hydrogenation of *o*-Nitrochlorobenzene to 3,3'-Dichlorobenzidine
Kaihua Shen, Shude Li, and Dong Hoon Choi*
- 1790 The Coordination Chemistry of DNA Nucleosides on Gold Nanoparticles as a Probe by SERS
Nak Han Jang
- 1801 Characteristics of Exfoliated Graphite Prepared by Intercalation of Gaseous SO₃ into Graphite
Beom-Jae Lee
- 1806 Synthesis and Preliminary Biological Studies of Novel Retinamide Derivatives
Hong S. Sin,* Youn J. Kwon, Hye S. Han, Si H. Park, Moong S. Park, Young S. Rho, and Soo J. Um*
- 1811 Theoretical Studies for Strong Hydrogen Bonds in Trimethyl Phosphate-(HNO₃)_n Complexes, n = 1-3
Yongho Kim,* Hakwon Kim, and Kwangheon Park
- 1816 A Fixed Time Kinetic and Spectrophotometric Method for the Determination of [C₁₆TAB]
V. W. Bhagwat, Mona Pipada, Ajit Choube, S. B. Jonnaladgadda, and Brijesh Pare*
- 1819 Valence Control of Technetium and Ruthenium for Anion Exchange Chromatographic Separation
Moo Yul Suh,* Chang Heon Lee, Kwang Soon Choi, Byoung Chul Song, Yeong Jae Park, and Won Ho Kim
- 1823 Stereospecific Synthesis of Novel (*Z*)-β-Fluoro-β-trifluoromethyl-α-phenylvinylstannane and Its Cross-Coupling Reactions with Aryl Iodides
In Howa Jeong,* Myoung Sang Kim, and Young Sam Park
- 1827 ESR Spectroscopic Evidence on the Formation of NaC₆₀ and HC₆₀ in Y Zeolitic Nanocavities
Oh-Hoon Kwon and Du-Jeon Jang*

- 1830 A Convenient Preparation of Halide-Containing Quinolinic and Cinchomeric Acid
Kwang-Nym Cho, Min-Sup Park, Young-Key Shim, and Kee-In Lee*
- 1833 Poly(styrene-*co*-4-vinylbenzyl chloride) Conjugated with 3-(Dimethylamino)phenol: Synthesis and Antibacterial Activity
Youn-Sik Lee* and Youn-Seop Byoun
- 1836 Synthesis of 3-Aminohydantoinyl-1,2-benzothiazine Derivatives
Myung-Sook Park, Eun-Sung Chang, Myung-Sook Lee, and Soon-Kyoung Kwon*
- 1839 A Unique Siloxane-based Pyridyl Spacer. Preparation and Structure of 1,3-Bis(3-pyridyl)tetraphenylsiloxane
Young-A Lee, Kyung Ho Yoo, Ki-Min Park, and Ok-Sang Jung*
- 1842 Electrocatalytic Oxidation of Sulfur Dioxide by Iron Phthalocyanine Monolayer in Aqueous Solutions
Sunghyun Kim
- 1845 One-Pot Synthesis of Naphth[2',3':4,5]imidazo[1,2-*a*]pyridine-6,11-diones from 2-Amino-3-chloro-1,4-naphthoquinone and Pyridine Derivatives
Yong Sook Lee and Kee-Jung Lee*
- 1848 A Short Synthesis of a Novel Nucleoside Analog of Fosfomycin
Jae-Min Hwang and Kang-Yeoun Jung*
-
- 1851 **AUTHOR INDEX : VOLUME 23 (2002)**
- 1858 **SUBJECT INDEX : VOLUME 23 (2002)**
- 1867 **ANNUAL LIST OF CONTENTS : VOLUME 23 (2002)**