

Selected publications

- (1) Taek Dong Chung, Ran-A Jeong, Sun-Kil Kang and Hee-Chan Kim
“Reproducible Fabrication of Miniaturized Glucose Sensors: Preparation of Sensing Membranes for Continuous Monitoring”
Biosensors & Bioelectronics 16(9-12), 1079-1087 (2001).
- (2) Taek Dong Chung, Jongseo Park, Hyunchang Lim, Hasuck Kim, Mijeong Choi, Joo-Ryon Kim and Suk-Kyu Chang
“Self-Assembled Monolayer of a Redox-Active Calix[4]arene: Voltammetric Recognition of Ba²⁺ Ion in Aqueous Media”
Anal. Chem. 73(16), 3975-3980 (2001).
- (3) Taek Dong Chung and Fred C. Anson
“Catalysis of the Electroreduction of O₂ by Cobalt 5,10,15,20-tetraphenylporphyrin Dissolved in Thin Layers of Benzonitrile on Graphite Electrodes”
J. Electroanal. Chem. 508, 115-122 (2001).
- (4) Taek Dong Chung and Fred C. Anson
“Electrochemical Monitoring of Proton Transfer across Liquid/Liquid Interfaces on the Surface of Graphite Electrodes”
Anal. Chem. 73(2), 337-342 (2001).
- (5) Taek Dong Chung and Hasuck Kim
“Electrochemistry of Calixarene and Its Analytical Applications” (Review Article)
J. Inclu. Pheno. Mol. Recog. 32(2-3), 179-193 (1998).

Full List of Publications (peer-reviewed journals in chronological order)

- (1) Hasik Yang, Taek Dong Chung, Yun Tae Kim, and Hee-Chan Kim
“Glucose Sensor Using a Microfabricated Electrode and Electropolymerized Bilayer Films”
Biosensors & Bioelectronics in press (2002).
- (2) Taek Dong Chung, Ran-A Jeong, Sun-Kil Kang and Hee-Chan Kim
“Reproducible Fabrication of Miniaturized Glucose Sensors: Preparation of Sensing Membranes for Continuous Monitoring”
Biosensors & Bioelectronics 16(9-12), 1079-1087 (2001).
- (3) Hasuck Kim, Jandee Kim, Hyunchang Lim, Mi-Jung Choi, Suk-Kyu Chang, and Taek Dong Chung

- “Electrochemical Recognition of Irons with Self-Assembled Monolayers of Quinone Derivatized Calixarene Disulfide”
In *Studies in Surface Science and Catalysis* 132, pp. 967-972, Y. Iwasawa, N. Oyama and H. Kunieda (Editors), Elsevier Science B. V., 2001.
- (4) Taek Dong Chung, Jongseo Park, Hyunchang Lim, Hasuck Kim, Mijeong Choi, Joo-Ryon Kim and Suk-Kyu Chang
“Self-Assembled Monolayer of a Redox-Active Calix[4]arene: Voltammetric Recognition of Ba²⁺ Ion in Aqueous Media”
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“Catalysis of the Electroreduction of O₂ by Cobalt 5,10,15,20-tetraphenylporphyrin Dissolved in Thin Layers of Benzonitrile on Graphite Electrodes”
J. Electroanal. Chem. 508, 115-122 (2001).
- (6) Jongseo Park, Sun Kil Kang, Taek Dong Chung, Suk-Kyu Chang and Hasuck Kim
“Selective Electrochemical Recognition of Ions in Solution and at Self-assembled Monolayers”
Microchem. J. 68(2-3), 109-113 (2001).
- (7) Bong-Hwan Kim, Taek-Dong Chung, Jong-Won Lee, Yong-Jae Lee and Kukjin Chun
“A New Anti-Stiction Coating Precursor”
J. MicroElectroMechanical Syst. 10, 33-40 (2001).
- (8) Jongwon Kim, Taek Dong Chung and Hasuck Kim
“Determination of Biologically Active Acids Based on the Electrochemical Reduction of Quinone in Acetonitrile/Water Mixed Solvent”
J. Electroanal. Chem. 499(1), 78-84 (2001).
- (9) Hee-soo Kim, Taek Dong Chung and Hasuck Kim
“Voltammetric Determination of the pK_a of Various Acids in Polar Aprotic Solvents Using 1,4-Benzoquinone”
J. Electroanal. Chem. 498, 209-215 (2001).
- (10) Taek Dong Chung and Fred C. Anson
“Electrochemical Monitoring of Proton Transfer across Liquid/Liquid Interfaces on the Surface of Graphite Electrodes”
Anal. Chem. 73(2), 337-342 (2001).
- (11) Sun Kil Kang, Taek Dong Chung and Hasuck Kim
“Electrochemical Recognition of Ca²⁺ ion in Basic Aqueous Media Using a Quinone-Derivatized Calix[4]arene”

- Electrochim. Acta* 45(18), 2939-2943 (2000).
- (12) Hasuck Kim, Sun Kil Kang and Taek Dong Chung
“Ionic Recognition with Quinone-Derivatized Calixarenes in Solution and at Self-Assembled Monolayers”
J. Kor. Electrochem. Soc. 3, 69-73 (2000).
- (13) Dongsuk Choi, Sang Kwon Lee, Taek Dong Chung, Sun Kil Kang and Hasuck Kim
“Electrochemical Determination of Adsorption Isotherm of Mordant Red 19 on Mercury and Its Analytical Application for the Indirect Determination of Uranium”
Electroanalysis 12, 477-482 (2000).
- (14) Young-Mok Ham, Ki-Ho Baik, Won-Kyu Lee, Taek Dong Chung and Kukjin Chun
“Application of New Empirical Model to the Electron Beam Lithography Process with Chemically Amplified Resists”
Japan. J. Appl. Phys. 37, 6761-6766 (1998).
- (15) Bong-Hwan Kim, Taek Dong Chung, Jong-Won Lee, Yong-Jae Lee and Kukjin Chun
“Amorphous Silicon Direct Bonding (a-Si) with Improved Surface Roughness”
J. Kor. Phys. Soc. 33, s450-s453 (1998).
- (16) Young-Mok Ham, Won-Kyu Lee, Kukjin Chun and Taek-Dong Chung
“A New Simulation Model of Electron Beam Lithography for Manufacturing”
J. Kor. Phys. Soc. 33, s67-s71 (1998).
- (17) Taek Dong Chung, Sun Kil Kang, Hasuck Kim, Joo Ryn Kim, Weon Seok Oh and Suk Kyu Chang
“Synthesis and Electrochemical Behavior of a New Water Soluble Ca^{2+} -selective Ionophore Based on Calix[4]arene-triacid-monoquinone”
Chem. Lett. 1225-1226 (1998).
- (18) Taek Dong Chung and Hasuck Kim
“Electrochemistry of Calixarene and Its Analytical Applications” (Review Article)
J. Inclu. Pheno. Mol. Recog. 32(2-3), 179-193 (1998).
- (19) Weon Seok Oh, Taek Dong Chung, Jongwon Kim, Hee-soo Kim, Hasuck Kim, Dongmok Hwang, Kimoon Kim, Seung Gul Rha, Jong-In Choe and Suk-Kyu Chang
“Synthesis and Electrochemical Properties of Calix[4]arene-triester-monoquinones”
Supramolecular Chemistry 9, 221-229 (1998).
- (20) Yeon Hee Cho, Seung Gul Rha, Suk Kyu Chang, Taek Dong Chung, Keunchang Cho and Hasuck Kim
“New Potassium and Cesium Selective Ionophoreic Bis(crown)s Derived from

- Xanthene-4,5-dicarboxylic Acid”
J. Inclu. Pheno. Mol. Recog. 31(2), 119-129 (1998).
- (21) Taek Dong Chung, Sun Kil Kang, Jongwon Kim, Heesoo Kim and Hasuck Kim
“Interaction Between Various Alkylammonium Ions and Quinone-Derivatized Calix[4]arenes in Aprotic Media”
J. Electroanal. Chem. 438, 71-78 (1997).
- (22) Taek Dong Jongseo Park, Suk Kyu Chang and Hasuck Kim
“New Potassium-Selective Electrode Based on an Ionophoreic bis(crown)s Derived from Xanthene-4,5-dicarboxylic Acid”
Anal. Sci. 13(S), 325-328 (1997).
- (23) Sang Kwon Lee, Taek Dong Chung and Hasuck Kim
“Indirect Voltammetric Determination of Lanthanides in the Presence of Mordant Red 19”
Electroanalysis 9, 527-532 (1997).
- (24) Taek Dong Chung, Dongsuk Choi, Sang Kwon Lee, Sun Kil Kang, Taehoon Kim, Suk-Kyu Chang and Hasuck Kim
“Electrochemical Behavior of Calix[4]arenequinones and Their Cation Binding Properties”
J. Electroanal. Chem. 396, 431-439 (1995) (Elsevier).
- (25) Dongsuk Choi, Taek Dong Chung, Sang Kwon Lee, Sun Kil Kang, Tae Hoon Kim, Suk-Kyu Chang and Hasuck Kim
“Electrochemical Recognition of Ammonium and Alkali Metal Cations with Calix[4]arenequinone”
J. Electroanal. Chem. 387, 133-134 (1995) (Elsevier).
- (26) Taek Dong Chung, Sang Kwon Lee, Young-Gu Ha, Ki Won Cha, Songju Lee, Kihyoung Cho and Hasuck Kim
“Electrochemical Behavior of MR19 and Its Complexes with Light-Lanthanides”
Bull. Kor. Chem. Soc. 14(5), 567-574 (1993).

Submitted

- (1) Taek Dong Chung, Ran-A Jeong, Sun Kil Kang and Hee Chan Kim

“Electropolymerized Bilayer Combining Highly Selective Polymers and Perfluorinated Tetrafluoroethylene: Fabrication of Continuous Monitoring Glucose Sensors without Using Non-aqueous Solvents”

Anal. Chem. (2001)

- (2) Taek Dong Chung, Christopher T. Culbertson, Stephen C. Jacobson, and J. Michael Ramsey

“A Simple Non-Intrusive Method for Measuring Velocities of Fluorescent Particles in Microchannels Using A Conventional Single Point Setup”

Anal. Chem. (2002)

To be submitted

- (1) Kyungmin Chun, Taek Dong Chung, Hasuck Kim, Keiji Hirose, One-Sun Lee and Doo-Soo Chung

“Voltammetric Recognition of Chiral Amines Using Functionalized Acerands”

- (2) Sun Kil Kang, Taek Dong Chung, Hasuck Kim, Joo-Ryon Kim and Suk-Kyu Chang

“Voltammetric Assay of Free Ca^{2+} ion in Aqueous Phase”

- (3) Taek Dong Chung, Stephen C. Jacobson, Christopher T. Culbertson, and J. Michael Ramsey

“Generation of Field-free Flow in Microchannels under Electrokinetic Control”

- (4) Taek Dong Chung, Stephen C. Jacobson, Christopher T. Culbertson, and J. Michael Ramsey

“Oil Decoupler for Electrochemical Detection in Electrochromatography on Microchips”

Patent filed

Inventors: Taek Dong Chung, Ran-A Jeong and Hee-Chan Kim

Assignees: Sooil Inc., Hee-Chan Kim and Soo-Bong Choi

Title: "Method for Fabrication of Biosensors"

Korean patent No. 99-44034

*The same technology is to be filed for US patent.

Talks and Presentations at International Meetings

- (1) Hasuck Kim, Jandee Kim, Taek Dong Chung and Hyunchang Lim
“Voltammetric Analysis of Ions with Calixarene-Based Host Compounds”
FACSS annual meeting, October 9 (2001) p. 173, Detroit, U.S.A.
- (2) Fred. C. Anson and Taek Dong Chung
“Thin Layers of Benzonitrile on Pyrolytic Graphite Electrodes Applied to the Electroreduction of Dioxygen as Catalyzed by Cobalt Tetrphenylporphyrin”
PITTCO 2001, March 6 (2001) New Orleans, U.S.A.
- (3) Taek Dong Chung, Ran-A Jeong, Sun-Kil Kang and Hee-Chan Kim
“Reproducible Fabrication of Miniaturized Glucose Sensors: Preparation of Sensing Membranes for Continuous Monitoring”
6th World Congress on Biosensors, May 24-26 (2000) San Diego, U.S.A.
- (4) Yun Tae Kim, Hasik Yang, Taek Dong Chung and Hee-Chan Kim
“Effects of Microstructural Changes on the Electrochemical Behaviors of a Microfabricated Pt Electrode for Biosensor Application”
6th World Congress on Biosensors, May 24-26 (2000) San Diego, U.S.A.
- (5) Hasik Yang, Yun Tae Kim, Taek Dong Chung and Hee-Chan Kim
“Glucose Sensor Using a Microfabricated Electrode and Electropolymerized Bilayer Films”
6th World Congress on Biosensors, May 24-26 (2000) San Diego, U.S.A.
- (6) Jongseo Park, Taek Dong Chung, Hyunchang Lim, Hasuck Kim, Mi-Jung Choi, Joo Ryun Kim and Suk-Kyu Chang
“Electrochemical Behaviour of the Self-Assembled Monolayer of Calix[4]arene-diquinone-disulfide on Gold”
Proceedings of the 4th Korea-Japan Joint Seminar on Electrochemistry, pp. 74-75, Dec. 17-19, (1999) Kumamoto, Japan.
- (7) Hasuck kim, Sun Kil Kang, Jongseo Park and Taek Dong Chung
“Electroanalytical Application with Self-Assembled Monolayers of Calixarenes”
Proceedings of the 4th Korea-Japan Joint Seminar on Electrochemistry, pp. 2-3, Dec. 17-19, (1999) Kumamoto, Japan.
- (8) Taek Dong Chung, Sun Kil Kang and Hasuck Kim
“Electroanalytical Behavior of a Water Soluble Calix[4]arene Carboxylic Acid and Analytical Application to Calcium Ion”
The 50th meeting of International Society of Electrochemistry, Sept. 5-10 (1999), Pavia, Italy, Symposium 5, p. 266.

- (9) Bong-Hwan Kim, Chang Hoon Oh, Taek-Dong Chung, Kukjin Chun, Jangwoong Byun and Yunsik Lee
“A New Class of Surface Modifiers for Stiction Reduction”
Transducers 99, June 9-10 (1999) pp. 30-33, Sendai, Japan.
- (10) Taek Dong Chung, Sun Kil Kang, Jongseo Park and Hasuck Kim
“Self-Assembled Monolayers of Redox-Active Calix[4]arenes on Noble Metal Electrodes”
Proceedings of the 3rd CMC-Kyushu Chemistry Symposium, p. 11, May 19, Seoul, Korea.
- (11) Hasuck Kim, Taek Dong Chung and Sun Kil Kang
“Electroanalytical Properties of Quinone Derivatized Calix[4]arene Tricarboxylic Acids and SAMs on Silver Electrode”
Proceedings of the International Symposium on New Directions in Electroanalytical Chemistry II, 1999, Johna Leddy, Petr Vanysek, and Marc D. Porter, p. 258, May 2-7, 1998, The Electrochemical Society, Inc., 10 South Main Street, Pennington, NJ 85424-2896.
- (12) Bong-Hwan Kim, Chang Hoon Oh, Taek-Dong Chung, Kukjin Chun, Jangwoong Byun and Yunsik Lee
“A New Class of Surface Modifiers for Stiction Reduction”
MEMS 99, Jan. 17-21 (1999) pp. 189-193, Orlando, U.S.A.
- (13) Taek Dong Chung and Hasuck Kim
“Electroanalytical Applications of Quinone-functionalized Calixarenes”
Proceedings of the Second CMC(Seoul National University)-PCOSS(Xiamen University) Chemistry Symposium, P. 1, December 17-19, (1998) Xiamen, China.
- (14) Taek Dong Chung, HeeChan Kim, Su-Bong Choi and Hong-Kyu Lee
“An Implantable Glucose Sensor For Closed-Loop Artificial Pancreas”
20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Oct. 30, pp. 1868-2871 (1998) Hong Kong, China.
- (15) Hasuck Kim, Taek Dong Chung and Sun Kil Kang
“Highly Selective Voltammetric Response of Water-Soluble Calix[4]arene to Ca²⁺ Ion”
The 49th meeting of International Society of Electrochemistry, Sept. 14 (1998)
Kitakyushu, Japan
- (16) Sun Kil Kang, Taek Dong Chung and Hasuck Kim
“Redox Behavior Of Quinone In An Ionophoric Calix[4]Arene Structure In Aqueous Media: A Crucial Role of Calcium Ion”,
Proceedings of Pre-Satellite meeting ISE 98 on New Trends in Electroanalytical Chemistry, pp. 85, Sept. 10-12, (1998) Seoul, Korea.

- (17) Young-Mok Ham, C. Hur, C.-N. Ahn, K.-H. Baik, Won-Kyu Lee, Taek Dong Chung and Kukjin Chun
“Application of New Empirical Model to the Electron Beam Lithography Process with Chemically Amplified Resists”
Microprocesses and Nanotechnology '98, pp. 40-41 (1998) July, Kyungju, Korea.
- (18) Bong-Hwan Kim, Taek-Dong Chung, Jong-Won Lee, Yong-Jae Lee and Kukjin Chun
“High Temperature Direct Bonding Using Amorphous Silicon Surface with Improved Roughness”
The International Conference on Electrical Engineering, Vol. 2, pp. 901-903, July 21-25 (1998) Kyungju, Korea.
- (19) Taek Dong Chung, Hee-soo Kim and Hasuck Kim
“Indirect Determination of Proton Donors with 1,4-benzoquinone in Aprotic Solvents”
July, (1998) Paris, France.
- (20) Taek Dong Chung, Sun Kil Kang and Hasuck Kim
“A New Strategy of Electrochemical Recognition of Ca^{2+} in the Presence of Excess Na^+ Using a Calix[4]arenemonoquinone Derivative”,
Seoul National University-University of Tokyo Joint Symposium, June 1 (1998), Tokyo, Japan
- (21) Sun Kil Kang, Taek Dong Chung, Hee-soo Kim and Hasuck Kim,
“Spectroelectrochemical and Electron Spin Resonance Studies on Alkali and Alkaline Earth Metal Complexes of Calix[4]arenequinone”
Proceedings of the 3rd Korea-Japan Joint Seminar on Electrochemistry, pp. 237-240, Nov. 7-9, (1997) Kyungju, Korea.
- (22) Hee-soo Kim, Taek Dong Chung, Sun Kil Kang and Hasuck Kim,
“Electrochemical Studies on 1,4-Benzoquinone in Aprotic Solvents in the Presence of Various Acids”,
Proceedings of the 3rd Korea-Japan Joint Seminar on Electrochemistry, pp. 229-232, Nov. 7-9, (1997) Kyungju, Korea..
- (23) Taek Dong Chung, Jongwon Kim, Hee-soo Kim and Hasuck Kim,
“Structural Effect of Calix[4]arene on the Electrochemical Response”,
Proceedings of the 3rd Korea-Japan Joint Seminar on Electrochemistry, pp. 187-192, Nov. 7-9, (1997) Kyungju, Korea..
- (24) Hasuck Kim, Taek Dong Chung and Jongwon. Kim
“Potentiometric K^+ -Selective Sensors Based on Quinone-Derivatized Calixarenes”,
Proceedings of The 3rd East Asian Conference on Chemical Sensors, pp. 404-409, Nov. 5-6, (1997) Seoul, Korea.

- (25) Jongwon Kim, Taek Dong Chung and Hasuck Kim
“Electrochemical Analysis of Protogenic Analytes Using Hydrogen Bonded Quinones in Acetonitrile/Water Mixed Solvent”
Proceedings of the Symposium on Chemical and Biological Sensors and Analytical Electrochemical Methods, Ed. by A.J. Ricco, M.A. Butler, P. Vanysek, G. Horvai and F. Silva, pp. 334-344, Sept. 1-5, (1997) Paris, France.
- (26) Taek Dong Chung and Hasuck Kim
“Structure of Calixarene and Its Electrochemical Responses”
Proceedings of Post ISMC Meeting in Saga: From Macrocyclic Chemistry to Supramolecular Chemistry, pp. I-1, Aug. 10-11, (1997) Saga, Japan.
- (27) Taek Dong Chung, Jongseo Park and Hasuck Kim
“A New Strategy to K⁺- and Cs⁺-selective Electrode based on Calix[4]arene”
ASIANALYSIS IV May 21-23 p.124, (1997) Fukuoka, Japan.
- (28) Yeon Hee Cho, Seung Gul Rha, Suk Kyu Chang, Taek Dong Chung, Keunchang Cho and Hasuck Kim
“New Potassium-Selective Electrode based on an Ionophoric Bis(crown ether) Derived from Xantiene-4,5-decarboxylic Acid”
ASIANALYSIS IV, p.122, May 21-23, (1997) Fukuoka, Japan
- (29) Taek Dong Chung, Hee-soo Kim, Hasuck Kim, Sangchul Lee and Mun-Hwan Cho
“Thermodynamic Properties and Complexation Behavior of Quinone-derivatized Calix[4]arenes”
ASIANALYSIS IV p.118, May 21-23 (1997) Fukuoka, Japan
- (30) Taek Dong Chung, Sun Kil Kang, Jongwon Kim and Hasuck Kim
“Electrochemical Recognition of Various Alkylammonium Cations with Calix[4]arenequinone”
Proceedings of the 6th International Meeting on Chemical Sensors, July 22-25 (1996) Gaithersburg, USA.
- (31) Taek Dong Chung, Sun Kil Kang, Jongwon Kim, Hee-soo Kim and Hasuck Kim
“Inclusion and Characteristic Interaction between Various Alkylammonium Ions and Quinone-Derivatized Calixarenes”
Proceedings of International Symposium on Electron Transfer in Proteins and Supramolecular Assemblies at Interfaces, pp. 197-198, March 17-20, 1996, Kanagawa, Japan.
- (32) Taek Dong Chung, Jongwon Kim, Sun Kil Kang and Hasuck Kim
“Interaction between Various Alkylammonium Ions and Quinone in Calixarene Frame”
Proceedings of the 2nd Japan-Korea Joint Seminar on Electrochemistry, pp. 55-56, Feb. 13, (1996) Sendai, Japan

- (33) Taek Dong Chung, Jongwon Kim, Sun Kil Kang and Hasuck Kim
“Electrochemistry and Analytical Applications of Quinone Functionalized Calixarenes”
Proceedings of the 2nd Korea-Japan Joint Seminar on Electrochemistry, pp. 7-8, Feb. 13,
(1996) Sendai, Japan
- (34) Keunchang Cho, Taek Dong Chung and Hasuck Kim
“EQCM and Adsorptive Stripping Methods of Organic Ligands for Trace Analysis of
Metal Ions”
46th ISE Meeting, Aug. 27-Sept. 1, (1995) Xiamen, China.
- (35) Dongsuk Choi, Sang Kwon Lee, Taek Dong Chung, S. K. Kang and Hasuck Kim
“Sensitive Determination of Uranium Ion by Adsorptive Stripping Analysis”
Asianalysis III, p.157, Aug. 22 (1995), Seoul in Korea
- (36) Taek Dong Chung, Sun Kil Kang and Hasuck Kim
“The Application of Selective Binding of Alkylammonium Ions with
Calix[4]arenequinones”
Asianalysis III, p.156, Aug. 22 (1995), Seoul in Korea
- (37) Taek Dong Chung, Sang Kwon Lee, Dongsuk Choi, Sun Kil Kang and Hasuck Kim
“Electrochemical Study of Calix[4]arenequinones and Their Binding Property with
Cations”
Asianalysis III, p.150, Aug. 22 (1995), Seoul in Korea
- (38) Taek Dong Chung, Dongsuk Choi, Sun Kil Kang, Sang Kwon Lee and Hasuck Kim
“Electrochemical Property of Calixarenes and Their Analytical Applications”
'95 Asian Conference on Electrochemistry, May 28-31, (1995) Osaka, Japan.
- (39) Hasuck Kim, Sun Kil Kang, Sang Kwon Lee and Taek Dong Chung
“Electrochemical Studies of Adsorptive Complex Waves of Lanthanide with Purpurin”
45th Meeting of ISE, IV 40, August 30, (1994) Porto, Portugal.
- (40) Sang Kwon Lee, Taek Dong Chung, Sun Gil Kang and Hasuck Kim
“Indirect Method of Analysis for some Lanthanide Ions through Electrochemically Active
Organic Dyes”
Proceedings of First Korea-Japan Joint Seminar on Electrochemistry, pp. 139-150,
November 22-24, (1993) Seoul, Korea.
- (41) Sang Kwon Lee, Taek Dong Chung and Hasuck Kim
“Electrochemical Properties of Mordant Red 19 and Its Lanthanide Complexes”
44th Meeting of International Society of Electrochemistry, p.75, September 5-10, (1993)
Berlin, Germany.