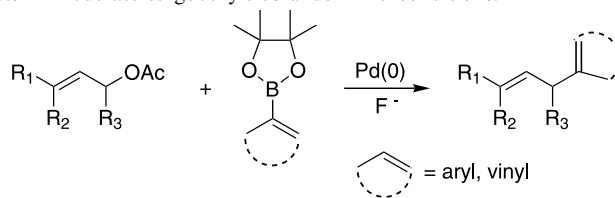


Palladium-catalyzed cross-coupling reaction of allyl acetates with pinacol aryl- and vinylboronates*Tetrahedron Letters 44 (2003) 4311*

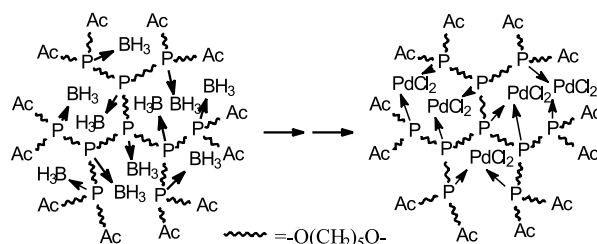
Giorgio Ortar*

*Dipartimento di Studi Farmaceutici e Istituto di Chimica Biomolecolare del C.N.R., Sezione di Roma, Università 'La Sapienza', 00185 Roma, Italy*Pinacol aryl- and vinylboronates couple efficiently with allyl acetates in the presence of a palladium catalyst prepared in situ from PdCl₂ and TFP to give the coupled products in moderate to good yields under mild conditions.**Phosphite dendrimers and their organometallic derivatives***Tetrahedron Letters 44 (2003) 4315*

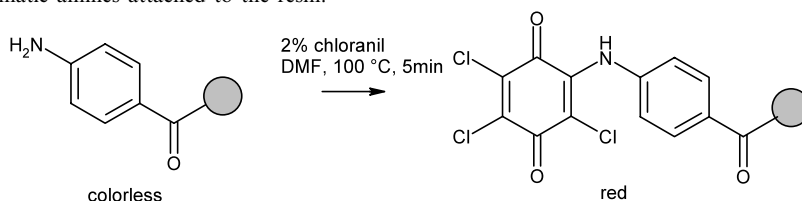
Elżbieta Poniatowska and Grzegorz M. Salamończyk*

Department of Heteroorganic Chemistry, Centre of Molecular and Macromolecular Studies, The Polish Academy of Sciences, Sienkiewicza 112, 90-363 Łódź, Poland

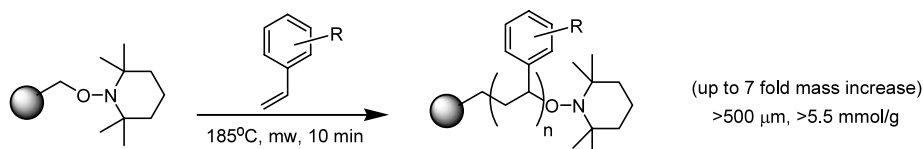
Intramolecularly metal-complexed phosphite dendrimers have been synthesized.

**Detection of primary aromatic amines on solid phase***Tetrahedron Letters 44 (2003) 4319*

Jan Mařík, Aimin Song and Kit S. Lam*

*Division of Hematology and Oncology, Department of Internal Medicine, University of California Davis Cancer Center, 4501 X Street, Sacramento, CA 95817, USA*A method for the detection of aromatic amines on solid support has been developed. This chloranil test can detect as little as 5 μmol g⁻¹ of primary aromatic amines attached to the resin.**Microwave-initiated living free radical polymerization: rapid formation of custom Rasta resins***Tetrahedron Letters 44 (2003) 4321*

David D. Wisnoski,* William H. Leister, Kimberly A. Strauss, Zhijian Zhao and Craig W. Lindsley

Department of Medicinal Chemistry, Technology Enabled Synthesis Group, Merck Research Laboratories, PO Box 4, West Point, PA 19486, USA

Tandem palladium-catalyzed borylation and Suzuki coupling (BSC) to thienocarbazole precursors

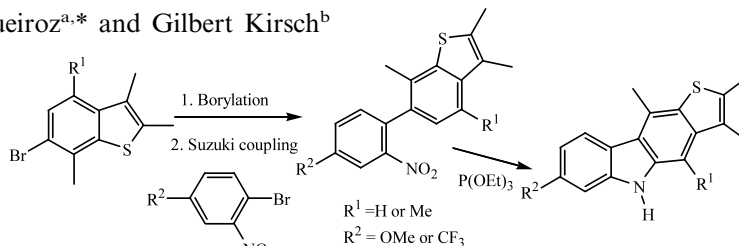
Tetrahedron Letters 44 (2003) 4327

Isabel C. F. R. Ferreira,^a Maria-João R. P. Queiroz^{a,*} and Gilbert Kirsch^b

^aDepartamento de Química, Universidade do Minho, 4710-057 Braga, Portugal

^bLaboratoire d'Ingénierie Moléculaire et Biochimie Pharmacologique, Université de Metz, Faculté des Sciences, Ile du Saulcy, 57045 Metz, France

New 2-methyl-2'-nitro diaryl compounds in the benzo[*b*]-thiophene series were prepared by palladium-catalyzed, two-step, one-pot borylation/Suzuki coupling (BSC) reaction in good to high yields. These compounds were cyclized to the corresponding new linear ring A substituted thienocarbazoles.



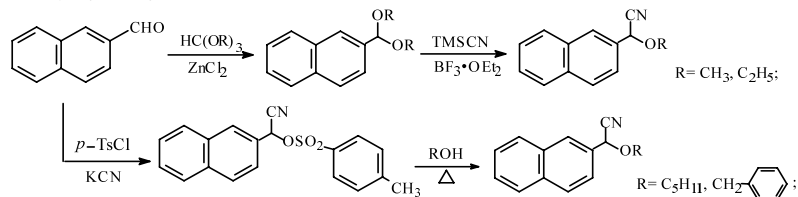
Design, synthesis and evaluation of novel P450 fluorescent probes bearing α -cyanoether

Tetrahedron Letters 44 (2003) 4331

Rong Zhang,^a Kyung-Don Kang,^{a,b} Guomin Shan^a and Bruce D. Hammock^{a,b,*}

^aDepartment of Entomology and University of California Cancer Research Center, Davis, CA 95616, USA

^bMicrobiology Program, University of California, Davis, CA 95616, USA



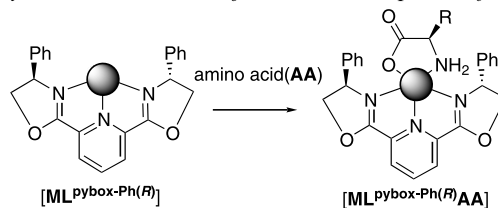
Amino acid recognition of pyridine bis(oxazoline)-copper(II) complex in aqueous solvent

Tetrahedron Letters 44 (2003) 4335

Hae-Jo Kim,^a Riaz Asif,^a Doo Soo Chung^a and Jong-In Hong^{a,b,*}

^aDepartment of Chemistry, College of Natural Sciences, Seoul National University, Seoul 151-742, Republic of Korea

^bCenter for Molecular Design and Synthesis, KAIST, Taejeon 305-701, Republic of Korea



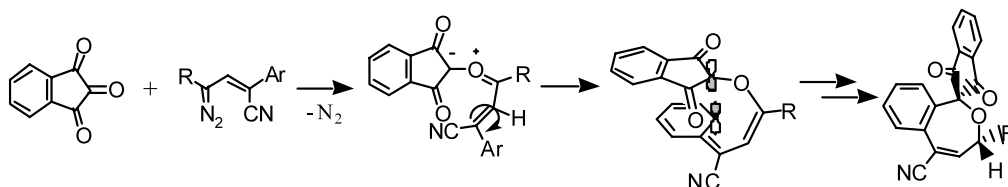
Surprising 1,7-cyclization of vinyl carbonyl ylides generated from reaction of indanetrione with vinyl diazo compounds

Tetrahedron Letters 44 (2003) 4339

Masashi Hamaguchi,^{a,*} Kazuma Takahashi,^a Takumi Oshima^a and Hatsue Tamura^{b,*}

^aDepartment of Materials Chemistry, Graduate School of Engineering, Osaka University, Toyonaka 560-0043, Japan

^bDepartment of Applied Chemistry, Graduate School of Engineering, Osaka University, Toyonaka 560-0043, Japan

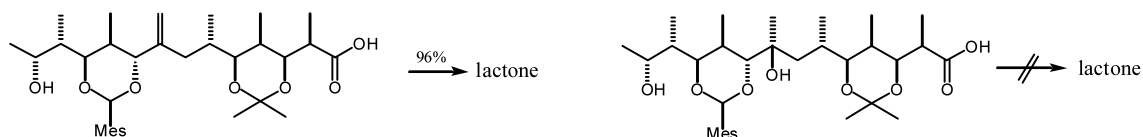


**The first stereoselective total synthesis of lankanolide. Part 1:
Computer-assisted design and lactonization of model *seco*-acid
derivatives**

Tetrahedron Letters 44 (2003) 4343

Tatsuo Hamada,* Yukinari Kobayashi, Mitsugu Kiyokawa and Osamu Yonemitsu

Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan

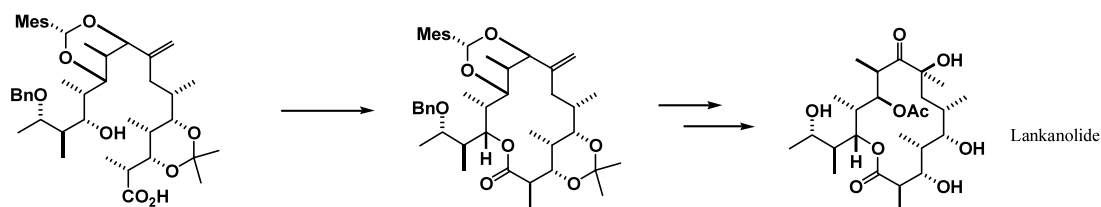


The first stereoselective total synthesis of lankanolide. Part 2

Tetrahedron Letters 44 (2003) 4347

Tatsuo Hamada* and Yukinari Kobayashi

Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan



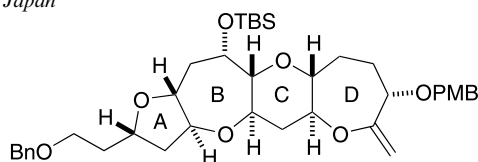
**Synthetic entry to the ABCD ring fragment of gymnocin-A,
a cytotoxic marine polyether**

Tetrahedron Letters 44 (2003) 4351

Makoto Sasaki,^{a,*} Chihiro Tsukano^b and Kazuo Tachibana^b

^aLaboratory of Biostructural Chemistry, Graduate School of Life Sciences, Tohoku University, Tsutsumidori-Amamiya, Aoba-ku, Sendai 981-8555, Japan

^bDepartment of Chemistry, Graduate School of Science, The University of Tokyo and CREST, Japan Science and Technology Corporation (JST), Hongo, Bunkyo-ku, Tokyo 113-0033, Japan



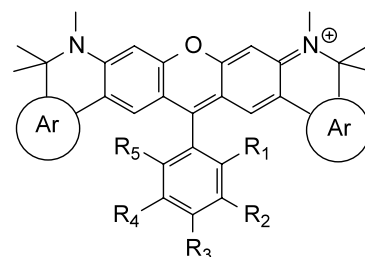
**Rational design and synthesis of a novel class of highly fluorescent
rhodamine dyes that have strong absorption at long wavelengths**

Tetrahedron Letters 44 (2003) 4355

Jixiang Liu,^{a,*} Zhenjun Diwu,^b Wai-Yee Leung,^a Yixin Lu,^a Brian Patch^a
and Richard P. Haugland^a

^aMolecular Probes, Inc., 29851 Willow Creek Road, Eugene, OR 97402, USA

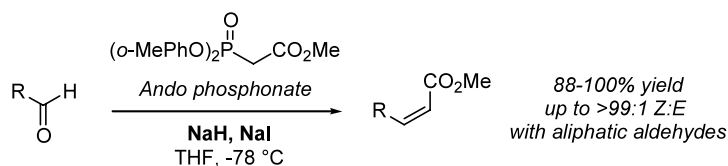
^bMolecular Devices, Inc., 1311 Orleans Drive, Sunnyvale, CA 94089, USA



Excess sodium ions improve *Z* selectivity in Horner–Wadsworth–Emmons olefinations with the Ando phosphonate

Petri M. Pihko* and Taina M. Salo

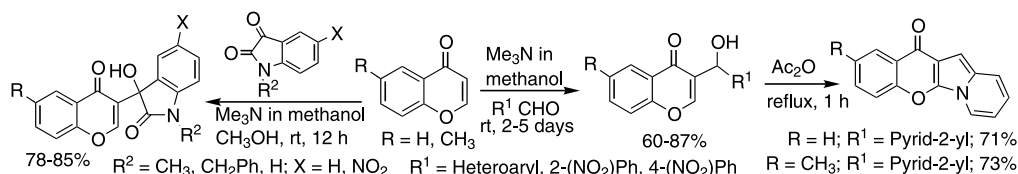
Laboratory of Organic Chemistry, Department of Chemical Technology, Helsinki University of Technology, POB 6100, FIN-02015 HUT, Finland



1-Benzopyran-4(4*H*)-ones as novel activated alkenes in the Baylis–Hillman reaction: a simple and facile synthesis of indolizine-fused-chromones

Deevi Basavaiah* and Anumolu Jaganmohan Rao

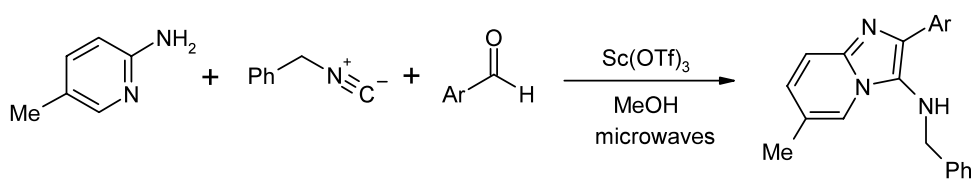
School of Chemistry, University of Hyderabad, Hyderabad 500 046, India



Microwave-assisted multi-component synthesis of fused 3-aminoimidazoles

Sarah M. Ireland, Heather Tye* and Mark Whittaker

Evotec OAI, 151 Milton Park, Abingdon, Oxfordshire OX14 4SD, UK



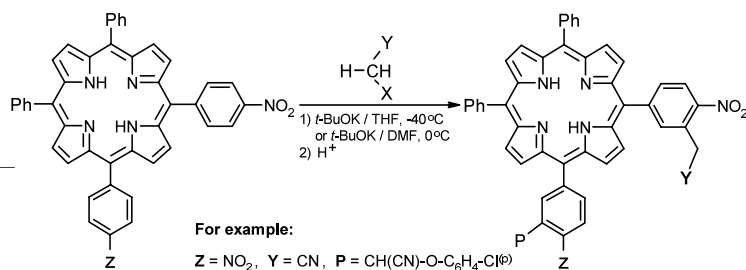
Nucleophilic substitution of hydrogen in *meso*-nitroaryl-substituted porphyrins—unprotected at the NH-centers in the core ring

Stanisław Ostrowski,^{a,b,*} Natalia Urbańska^a and Agnieszka Mikus^a

^aInstitute of Chemistry, University of Podlasie,
ul. 3 Maja 54, 08-110 Siedlce, Poland

^bInstitute of Organic Chemistry,
Polish Academy of Sciences, ul. Kasprzaka 44/52,
01-224 Warszawa, Poland

Reactions of *meso*-nitroaryl-substituted porphyrins—unprotected in the core ring—with carbanions are described.

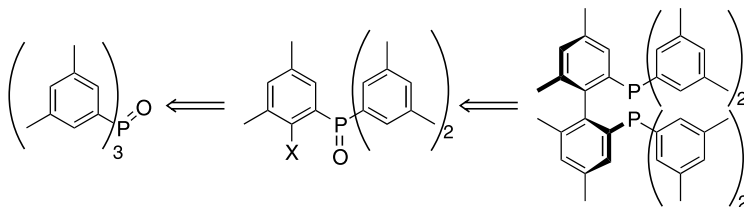


A concise synthesis of a new xylyl-biaryl diphosphine ligand for asymmetric hydrogenation of ketones

Tetrahedron Letters 44 (2003) 4379

Julian P. Henschke, Antonio Zanotti-Gerosa,
Paul Moran,* Paul Harrison, Brendan Mullen,
Guy Casy and Ian C. Lennon

*Dowpharma, Chirotech Technology Limited, A Subsidiary
of The Dow Chemical Company, Unit 321 Cambridge
Science Park, Milton Road, Cambridge CB4 0WG, UK*



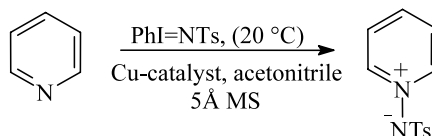
A concise synthesis of a symmetrical biaryl diphosphine ligand is described.

Copper-catalyzed imination of pyridines using PhI=NTs as nitrene precursor

Tetrahedron Letters 44 (2003) 4385

Suman L. Jain, Vishal B. Sharma and Bir Sain*

Chemical and Biosciences Division, Indian Institute of Petroleum, Dehradun 248005, India



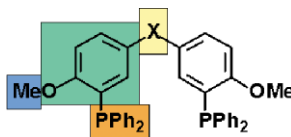
Modular diphosphine ligands based on bisphenol A backbones

Tetrahedron Letters 44 (2003) 4389

Jarl Ivar van der Vlugt,^{a,*} Josep M. Bonet,^a Allison M. Mills,^b
Anthony L. Spek^b and Dieter Vogt^{a,*}

^a*Schuit Institute of Catalysis, Laboratory of Homogeneous Catalysis, Eindhoven University of Technology, PO Box 513,
5600 MB Eindhoven, The Netherlands*

^b*Department of Crystal and Structural Chemistry, Padualaan 8, University of Utrecht, The Netherlands*



Improved procedure for the synthesis of thiazolium-type peptide coupling reagents: BMTB as a new efficient reagent

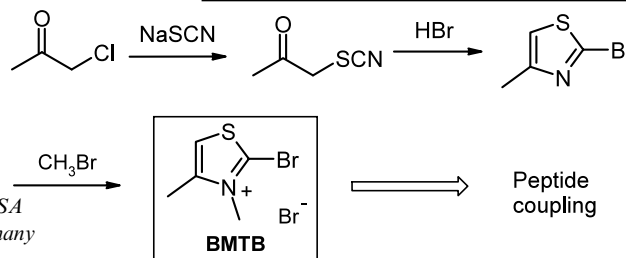
Tetrahedron Letters 44 (2003) 4393

Ralf Wischnat,^{a,*} Joachim Rudolph,^b Roman Hanke,^c
Roger Kaese,^c Achim May,^c Heidi Theis^c and Undine Zuther^c

^a*Bayer AG, Pharma Operations PH-OP-WP, Friedrich Ebert Str. 217,
D-42096, Germany*

^b*Department of Chemistry Research, Bayer Corporation,
Pharmaceutical Division, 400 Morgan Lane, West Haven, CT 06516, USA*

^c*Bayer AG, Central Research, Building Q18, D-51368 Leverkusen, Germany*



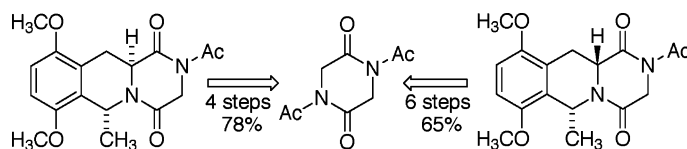
Using a new scalable synthesis of 2-halothiazolium-type condensation reagents, the new compound BMTB was synthesized. BMTB showed high potency in a difficult coupling reaction of sterically hindered *N*-methylated amino acids.

Short stereocontrolled synthesis of *trans* and *cis*-tetrahydro-pyrazinoisoquinolinediones

Tetrahedron Letters 44 (2003) 4395

Juan Francisco González, Elena de la Cuesta and Carmen Avendaño*

Departamento de Química Orgánica y Farmacéutica, Facultad de Farmacia, Universidad Complutense, 28040 Madrid, Spain



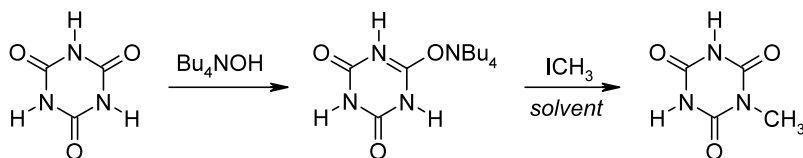
Synthesis and *N*-methylation of tetrabutylammonium isocyanurate

Tetrahedron Letters 44 (2003) 4399

Jean-Louis Havet, Catherine Porte* and Alain Delacroix

Laboratoire de Chimie Industrielle, Génie des Procédés, Conservatoire National des Arts et Métiers, 2 rue Conté, 75003 Paris, France

After preparation of an ammonium isocyanuric acid salt, different substituted isocyanurates are synthesized with different solvents.

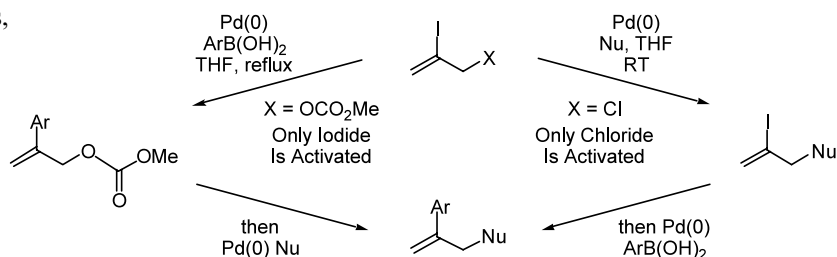


Differentiating allylic and vinylic leaving groups for Pd catalysis. The use of vinyl iodide to facilitate room temperature activation of a vinyl C–X bond in the presence of allyl carbonate

Tetrahedron Letters 44 (2003) 4403

Michael G. Organ,* Elena A. Arvanitis, Anita Villani, Yvette Majkut and Stephen Hynes

The Department of Chemistry, York University, 4700 Keele Street, Toronto, Ontario, Canada M3J 1P3



Novel solvent-free reaction of C₆₀ with active methylene compounds in the presence of Na₂CO₃ under high-speed vibration milling

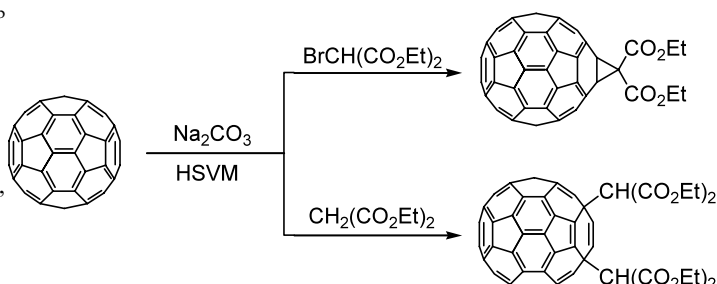
Tetrahedron Letters 44 (2003) 4407

Guan-Wu Wang,^{a,*} Ting-Hu Zhang,^a Yu-Jin Li,^{a,b} Ping Lu,^a Huan Zhan,^a You-Cheng Liu,^{a,b} Yasujiro Murata^c and Koichi Komatsu^c

^a*Department of Chemistry, University of Science and Technology of China, Hefei, Anhui 230026, PR China*

^b*Department of Chemistry, Lanzhou University, Lanzhou, Gansu 730000, PR China*

^c*Institute for Chemical Research, Kyoto University, Uji, Kyoto 611-0011, Japan*

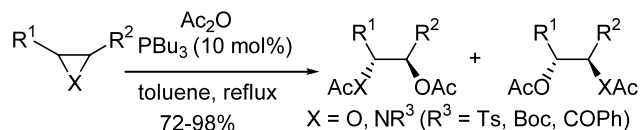


Tributylphosphine-catalyzed ring-opening reaction of epoxides and aziridines with acetic anhydride

Ren-Hua Fan^b and Xue-Long Hou^{a,b,*}

^aState Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Road, Shanghai 200032, China

^bShanghai-Hong Kong Joint Laboratory in Chemical Synthesis, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Road, Shanghai 200032, China



A novel TTF-based donor carrying four nitronyl nitroxides

Genta Harada,^a Toshio Jin,^a Akira Izuoka,^{a,b} Michio M. Matsushita^a
and Tadashi Sugawara^{a,*}

^a*Department of Basic Science, Graduate School of Arts and Sciences, The University of Tokyo, 3-8-1, Komaba, Meguro, Tokyo 153-8902, Japan*

^b*Department of Materials and Biological Sciences, Faculty of Science, Ibaraki University, 2-1-1 Bunkyo, Mito, Ibaraki 310-8512, Japan*

