

Publication List  
Kazuaki Furukawa, Meisei University

## Original papers

- (1) W. Choi, H. Nishiyama, Y. Ogawa, Y. Ueno, **K. Furukawa**, T. Takeuchi, Y. Tsutsui, T. Sakurai, S. Seki  
O Relaxation of Plasma Carriers in Graphene: An Approach by Frequency-Dependent Optical Conductivity Measurement  
Adv. Opt. Mater. (2018).
- (2) Y. Ueno, **K. Furukawa**  
On-chip FRET Graphene Aptasensor  
Int. J. Automation Technol. 12, 37-44 (2018).
- (3) **K. Furukawa**, T. Teshima, Y. Ueno  
Self-propelled ion gel at air-water interface  
Sci. Rep. 7, 9323 (2017).
- (4) K. Nishiguchi, D. Yoshizumi, Y. Sekine, **K. Furukawa**, A. Fujiwara, M. Nagase  
Planar cold cathode based on a multilayer-graphene/SiO<sub>2</sub>/Si heterodevice  
Appl. Phys. Express 9, 105101 (2016).
- (5) M. Takamura, H. Okamoto, **K. Furukawa**, H. Yamaguchi, H. Hibino  
Energy Dissipation in Graphene Mechanical Resonators with and without Free Edges  
Micromachines 7, 157-168 (2016).
- (6) **K. Furukawa**, Y. Ueno, M. Takamura, H. Hibino  
Graphene FRET Aptasensor  
ACS Sens. 1, 710–716 (2016).
- (7) **K. Furukawa**  
Pattern Formation of Supported Lipid Bilayer for Molecular Manipulation  
NTT Technical Review 14(8), 1-5 (2016)
- (8) M. Hattori, H. Ikenoue, D. Nakamura, **K. Furukawa**, M. Takamura, H. Hibino, T. Okada  
Direct growth of graphene on SiC(0001) by KrF-excimer-laser irradiation  
Appl. Phys. Lett. 108, 093107 (2016).
- (9) Y. Ueno, **K. Furukawa**, A. Tin, H. Hibino  
On-chip FRET Graphene Oxide Aptasensor: Quantitative Evaluation of Enhanced Sensitivity by Aptamer with a Double-stranded DNA Spacer  
Anal. Sci. 31, 875-879 (2015).
- (10) R.-S. O, M. Takamura, **K. Furukawa**, M. Nagase, H. Hibino  
Effects of UV light intensity on electrochemical wet etching of SiC for the fabrication of suspended graphene  
Jpn. J. Appl. Phys. 54, 036502 (2015).
- (11) Y. Ueno, **K. Furukawa**, K. Matsuo, S. Inoue, K. Hayashi, H. Hibino  
On-chip graphene oxide aptasensor for multiple protein detection  
Anal. Chim. Acta 866, 1-9 (2015).
- (12) Y. Kashimura, K. Sumitomo, **K. Furukawa**  
Electrostatic control of the dynamics of lipid bilayer self-spreading using a nanogap gate  
Mater. Res. Express 1, 035404 (2014).
- (13) S. Tanabe, **K. Furukawa**, H. Hibino  
Etchant-free and damageless transfer of monolayer and bilayer graphene grown on SiC  
Jpn. J. Appl. Phys. 53, 115101 (2014).

- (14) M. Takamura, H. Okamoto, **K. Furukawa**, H. Yamaguchi, H. Hibino  
Energy dissipation in edged and edgeless graphene mechanical resonators  
*J. Appl. Phys.* 116, 064304 (2014).
- (15) S. Wang, S. Suzuki, **K. Furukawa**, C. M. Orofeo, M. Takamura, H. Hibino  
Selective charge doping of chemical vapor deposition-grown graphene by interface modification  
*Appl. Phys. Lett.* 103, 253116 (2013).
- (16) Y. Ueno, **K. Furukawa**, K. Matsuo, S. Inoue, K. Hayashi, H. Hibino  
Molecular design for enhanced sensitivity in FRET aptasensor built on graphene oxide surface  
*Chem. Commun.* 49, 10346-10348 (2013).
- (17) **K. Furukawa**, Y. Ueno  
Biosensing on a Graphene Oxide Surface  
*NTT Technical Review* 11(8), 1-5 (2013).
- (18) **K. Furukawa**, Y. Ueno, E. Tamechika, H. Hibino  
Protein recognition on single graphene oxide surface fixed on a solid support  
*J. Mat. Chem. B* 1, 1119-1124 (2013).
- (19) M. Takamura, **K. Furukawa**, H. Okamoto, S. Tanabe, H. Yamaguchi, H. Hibino  
Epitaxial trilayer graphene mechanical resonators obtained by electrochemical etching combined with hydrogen intercalation  
*Jpn. J. Appl. Phys.* 52, 04CH01 (2013).
- (20) Y. Kashimura, **K. Furukawa**, K. Torimitsu  
Electrostatic Control of Artificial Cell Membrane Spreading by Tuning the Thickness of an Electric Double Layer in a Nanogap  
*IEICE Transactions E96-C*, 344-347 (2013).
- (21) Y. Ueno, **K. Furukawa**, K. Hayashi, M. Takamura, H. Hibino, E. Tamechika  
Graphene-modified Interdigitated Array Electrode: Fabrication, Characterization, and Electrochemical Immunoassay Application  
*Anal. Sci.* 29, 55-60 (2013).
- (22) **K. Furukawa**, H. Hibino  
Self-Spreading of Supported Lipid Bilayer on SiO<sub>2</sub> Surface Bearing Graphene Oxide  
*Chem. Lett.* 41, 1259-1261 (2012).
- (23) Y. Ueno, **K. Furukawa**, S. Suzuki, H. Hibino, E. Tamechika  
Near-Infrared Photoluminescence Spectral Imaging of Chemically Oxidized Graphene Flakes  
*e-J. Surf. Sci. Nanotech.* 10, 513-517 (2012).
- (24) S. Suzuki, Y. Takei, **K. Furukawa**, A. Weber, S. Tanabe, H. Hibino  
Graphene Growth from a Spin-Coated Polymer without a Gas  
*Jpn. J. Appl. Phys.* 51, 06FD01 (2012).
- (25) **K. Furukawa**, J. Durao  
Donor-to-acceptor distance dependent fluorescence resonance energy transfer efficiency for multiple donors and acceptors system confined within 2-dimensional fluid of supported lipid bilayer  
*e-J. Surf. Sci. Nanotech.* 10, 121-127 (2012).
- (26) **K. Furukawa**, T. Aiba  
Supported Lipid Bilayer Composition Microarrays Fabricated by Pattern-guided Self-spreading  
*Langmuir* 27, 7341-7344 (2011).
- (27) Y. Kashimura, **K. Furukawa**, K. Torimitsu  
Electrostatic Control of Lipid Bilayer Self-Spreading Using a Nanogap Gate on a Solid Support  
*J. Am. Chem. Soc.* 133, 6118-6121 (2011).

- (28) S. Suzuki, Y. Takei, **K. Furukawa**, H. Hibino  
 Graphene Growth from a Spin-Coated Polymer without a Reactive Gas  
*Appl. Phys. Express* 4, 065102 (2011).
- (29) H. Nakashima, **K. Furukawa**, Y. Kashimura, K. Sumitomo, Y. Shinozaki, K. Torimitsu  
 Pattern Formation and Molecular Transport of Histidine-tagged GFPs Using Supported Lipid Bilayers  
*Langmuir* 26, 12716-12721 (2010).
- (30) Y. Kashimura, **K. Furukawa**, K. Torimitsu  
 Self-Spreading Supported Lipid Bilayer Passing through Single Nanogap Structure: Effect of Position of Dyes in Lipid Molecules  
*Jpn. J. Appl. Phys.* 49, 04DL15 (2010).
- (31) Y. Shinozaki, K. Sumitomo, **K. Furukawa**, H. Miyashita, Y. Tamba, N. Kasai, H. Nakashima, K. Torimitsu  
 Visualization of Single Membrane Protein Structure in Stretched Lipid Bilayer Suspended over Nanowells  
*Appl. Phys. Express* 3, 027002 (2010).
- (32) Y. Kashimura, T. Goto, H. Nakashima, **K. Furukawa**, E.-J. Wang, H.-X. Li, W.-P. Hu, K. Torimitsu  
 Transistor Properties of Novel Organic Conducting Polymers Bearing Tetrathiafulvalene Unit in the Backbone  
*Jpn. J. Appl. Phys.* 49, 01AB08 (2010).
- (33) **K. Furukawa**  
 Artificial Cell Membrane on Patterned Surface—Growth Control and Microchannel Device Application  
*NTT Technical Review* 7(8), 1-6 (2009).
- (34) Y. Kashimura, T. Goto, **K. Furukawa**, E.-J. Wang, H.-X. Li, W.-P. Hu, K. Torimitsu  
 Structural and Electrical Properties of Organic Conducting Polymers Bearing Tetrathiafulvalene Backbone  
*Mol. Cryst. Liq. Cryst.* 504, 231-237 (2009).
- (35) H. Nakashima, **K. Furukawa**, Y. Kashimura, K. Torimitsu  
 Self-Assembly of Gold Nanorods Induced by Intermolecular Interactions of Surface-Anchored Lipids  
*Langmuir* 24, 5654-5658 (2008).
- (36) Y. Shinozaki, A. M. Siitonens, K. Sumitomo, **K. Furukawa**, K. Torimitsu  
 Effect of  $\text{Ca}^{2+}$  on vesicle fusion on solid surface: an in vitro model of protein-accelerated vesicle fusion  
*Jpn. J. Appl. Phys.* 47, 6164-6167 (2008).
- (37) A. M. Siitonens, K. Sumitomo, C. S. Ramanujan, Y. Shinozaki, N. Kasai, **K. Furukawa**, J. F. Ryan, K. Torimitsu  
 Elastic modulus of suspended purple membrane measured by atomic force microscopy  
*Appl. Surf. Sci.* 254, 7877-7880 (2008).
- (38) Y. Kashimura, J. Durao, **K. Furukawa**, K. Torimitsu  
 Self-spreading Behavior of Supported Lipid Bilayer through Single Sub-100-nm Gap  
*Jpn. J. Appl. Phys.* 47, 3248-3252 (2008).
- (39) **K. Furukawa**, H. Nakashima, Y. Kashimura, K. Torimitsu  
 Novel "Lipid-Flow Chip" Configuration to Determine Donor-to-Acceptor Ratio-Dependent Fluorescence Resonance Energy Transfer Efficiency  
*Langmuir* 24, 921-926 (2008).
- (40) D. P. Sprunken, H. Omi, **K. Furukawa**, H. Nakashima, I. Sychugov, Y. Kobayashi, K. Torimitsu  
 Influence of the Local Environment on Determining Aspect-Ratio Distributions of Gold Nanorods in Solution Using Gans Theory  
*J. Phys. Chem. C* 111, 14299-14306 (2007).

- (41) Y. Liu, H.-X. Li, Z.-Y. Ji, Y. Kashimura, Q.-X. Tang, **K. Furukawa**, K. Torimitsu, W.-P. Hu, D.-B. Zhu  
A new morphology of copper 7,7,8,8-tetracyano-*p*-quinodimethane  
*Micron* 38, 536-542 (2007).
- (42) H. Nakashima, **K. Furukawa**, K. Ajito, Y. Kashimura, K. Torimitsu  
Anisotropic assembly of gold nanorods assisted by selective ion recognition of surface-anchored crown ether derivatives  
*Chem. Commun.* 1080-1082 (2007).
- (43) **K. Furukawa**, K. Sumitomo, H. Nakashima, Y. Kashimura, K. Torimitsu  
Supported Lipid Bilayer Self-Spreading on a Nanostructured Silicon Surface  
*Langmuir* 23, 367-371 (2007).
- (44) **K. Furukawa**, H. Nakashima, Y. Kashimura, K. Torimitsu  
Microchannel device using self-spreading lipid bilayer as molecule carrier  
*Lab Chip* 6, 1001-1006 (2006).
- (45) W.-P. Hu, H. Nakashima, E.-J. Wang, **K. Furukawa**, H.-X. Li, Y. Luo, Z.G. Shuai, Y. Kashimura, Y.-Q. Liu, K. Torimitsu  
Advancing conjugated polymers into nanometer-scale devices  
*Pure Appl. Chem.* 78, 1803-1822 (2006).
- (46) T. Goto, K. Degawa, H. Inokawa, **K. Furukawa**, H. Nakashima, K. Sumitomo, T. Aoki, K. Torimitsu  
Molecular-Mediated Single-Electron Devices Operating at Room Temperature  
*Jpn. J. Appl. Phys.* 45, 4285-4289 (2006).
- (47) W.-P. Hu, J. Jiang, H. Nakashima, Y. Luo, Y. Kashimura, K.-Q. Chen, Z. Shuai, **K. Furukawa**, W. Lu, Y.-Q. Liu, D.-B. Zhu, K. Torimitsu  
Electron Transport in Self-Assembled Polymer Molecular Junctions  
*Phys. Rev. Lett.* 96, 027801 (2006).
- (48) W.-P. Hu, H. Nakashima, **K. Furukawa**, Y. Kashimura, K. Ajito, Y.-Q. Liu, D.-B. Zhu, K. Torimitsu  
A Self-assembled Nano Optical Switch and Transistor Based on a Rigid Conjugated Polymer,  
Thioacetyl-end-functionalized Poly(*para*-phenylene ethynylene)s  
*J. Am. Chem. Soc.* 127, 2804-2805 (2005).
- (49) H. Nakashima, **K. Furukawa**, K. Ajito, Y. Kashimura, K. Torimitsu  
Selective Chemisorption of End-Functionalized Conjugated Polymer on Macro- and Nanoscale Surfaces  
*Langmuir* 21, 511-515 (2005).
- (50) T. Yamazaki, Y. Murata, K. Komatsu, **K. Furukawa**, M. Morita, N. Maruyama, T. Yamao, S. Fujita  
Synthesis and Electrolytic Polymerization of the Ethylenedioxy-Substituted Terthiophene-Fullerene Dyad  
*Org. Lett.* 6, 4865-4868 (2004).
- (51) W.-P. Hu, M. Matsumura, **K. Furukawa**, K. Torimitsu  
Oxygen Plasma Generated Copper/Copper Oxides Nanoparticles  
*J. Phys. Chem. B* 108, 13116-13118 (2004).
- (52) S. Bhunia, T. Kawamura, S. Fujikawa, H. Nakashima, **K. Furukawa**, K. Torimitsu, Y. Watanabe  
Vapor-liquid-solid growth of vertically aligned InP nanowires by metalorganic vapor phase epitaxy  
*Thin Solid Films* 464-465, 244-247 (2004).
- (53) Y. Watanabe, S. Bhunia, T. Kawamura, S. Fujikawa, H. Nakashima, **K. Furukawa**, K. Torimitsu  
Heteroepitaxial metalorganic vapor phase epitaxial growth of InP nanowires on GaP(111)B  
*Thin Solid Films* 464-465, 248-250 (2004).
- (54) W.-P. Hu, H. Nakashima, **K. Furukawa**, Y. Kashimura, K. Ajito, K. Torimitsu  
A Self-assembled Rigid Conjugated Polymer Nanojunction and Its Nonlinear Current-Voltage Characteristics at Room Temperature  
*Appl. Phys. Lett.* 85, 115-117 (2004).

- (55) **K. Furukawa**, H. Nakashima, K. Ajito, Y. Kashimura, W.-P. Hu, K. Torimitsu  
Observation and Manipulation of Nanostructures Formed by Rigid Rod-like Polymers  
Jpn. J. Appl. Phys. 43, 4521-4524 (2004).
- (56) W.-P. Hu, H. Nakashima, **K. Furukawa**, Y. Kashimura, K. Ajito, C.-X. Han, K. Torimitsu  
Carrier Injection from Gold Electrodes into Thioacetyl-end-functionalized  
Poly(*para*-phenyleneethynylene)s  
Phys. Rev. B 69, 165207 (2004).
- (57) **K. Furukawa**, K. Ebata, D. Ichikawa, N. Matsumoto  
Side Chain Effect on Thermochromism and Solvatochromism of End-Grafted Polysilane  $[\text{Si}(\text{CH}_3)_2\text{SiR}_2]_n$   
( $\text{R} = \text{C}_2\text{H}_5, n\text{-C}_4\text{H}_9, n\text{-C}_6\text{H}_{13}, n\text{-C}_8\text{H}_{17}, n\text{-C}_{10}\text{H}_{21}$ )  
Macromolecules 36, 7681-7688 (2003).
- (58) **K. Furukawa**  
End-Grafted Polysilane -An Approach to Single Polymer Science  
Acc. Chem. Res. 36, 102-110 (2003).
- (59) Y. Kashimura, H. Nakashima, **K. Furukawa**, K. Torimitsu  
Fabrication of Nano-Gap Electrodes Using Electroplating Technique  
Thin Solid Films 438-439, 317-321 (2003).
- (60) **K. Furukawa**, K. Ebata, H. Nakashima, Y. Kashimura, K. Torimitsu  
Polysilane Bearing "Sulfide Tripod" Terminus: Preparation and Selective Chemisorption on Gold Surface  
Macromolecules 36, 9-11 (2003).
- (61) T. Nakanishi, H. Okamoto, Y. Nagai, K. Takeda, I. Obataya, H. Mihara, H. Azehara, W. Mizutani, **K. Furukawa**, K. Torimitu  
Synthesis and Atomic Force Microscopy Observations of the Single Peptide Nanotubes and their  
Micro-order Assemblies  
Phys. Rev. B 66 165417 (2002).
- (62) **K. Furukawa**, K. Ebata  
Conformational Transition of End-Grafted Poly(di-*n*-hexylsilane) in Solventless Conditions  
Macromolecules 35, 327-329 (2002).
- (63) **K. Furukawa**, K. Ebata  
Preparation and Single Molecule Structure of Electroactive Polysilane End-Grafted on a Crystalline  
Silicon Surface  
Appl. Phys. Lett. 77, 4289-4291 (2000).
- (64) **K. Furukawa**, K. Ebata, M. Fujiki  
One-dimensional Silicon Chain Architecture: Molecular Dot, Rope, Octopus and Toroid  
Adv. Mater. 12, 1033-1036 (2000).
- (65) H. Suzuki, S. Hoshino, **K. Furukawa**, K. Ebata, C.-H. Yuan, and I. Bleyl  
Polysilane Light-Emitting Diodes  
Polym. Adv. Tech. 11, 460-467 (2000).
- (66) S. Hoshino, **K. Furukawa**, K. Ebata, I. Bleyl, and H. Suzuki  
Molecular Weight Dependence of Conformational Phase Transition and Electroluminescence of  
Diarylpolysilane Diodes  
J. Appl. Phys. 88, 3408-3413 (2000).
- (67) S. Hoshino, **K. Furukawa**, K. Ebata, C.-H. Yuan, H. Suzuki  
Molecular Weight Dependent Electroluminescence of Silicon Polymer Near-Ultraviolet Light-Emitting  
Diodes  
J. Appl. Phys. 88, 2892-2897 (2000).
- (68) S. Hoshino, K. Ebata, **K. Furukawa**

- Near-Ultraviolet Electroluminescent Performance of Polysilane-Based Light Emitting Diodes with a Double-Layer Structure  
J. Appl. Phys. 87, 1968-1973 (2000).
- (69) **K. Furukawa**, K. Ebata, N. Matsumoto  
An Isolated Silicon Single Chain End-Grafted onto a Substrate Surface  
Appl. Phys. Lett. 75, 781-783 (1999).
- (70) S. Seki, Y. Yoshida, S. Tagawa, K. Asai, K. Ishigure, **K. Furukawa**, M. Fujiki, N. Matsumoto  
Effects of Structural Defects on Hole Drift Mobility in Aryl-Substituted Polysilanes  
Philos. Mag. B 79, 1631-1645 (1999).
- (71) **K. Furukawa**, C.-H. Yuan, S. Hoshino, H. Suzuki, N. Matsumoto  
Bipolar Carrier Behavior in a Near Ultraviolet Electroluminescent Silicon Polymer  
Mol. Cryst. Liq. Cryst. 327, 181-184 (1999).
- (72) I. Bleyl, K. Ebata, S. Hoshino, **K. Furukawa**, H. Suzuki  
Conformational Phase Transition in a High-Efficiency Near-Ultraviolet Electroluminescent  
Diarylpolysilane  
Synth. Met. 105, 17-22 (1999).
- (73) K. Ebata, **K. Furukawa**, N. Matsumoto  
Synthesis and Characterization of End-Grafted Polysilane on a Substrate Surface  
J. Am. Chem. Soc. 120, 7367-7368 (1998).
- (74) T. Fukuda, **K. Furukawa**, M. Fujino, T. Ogino, N. Matsumoto  
STM study of the initial adsorption stage of octa-*tert*-butyloctasilacubane on Si (100) 2x1 surface  
Surf. Sci. 397, 58-62 (1998).
- (75) C. H. Yuan, M. Fujino, K. Ebata, **K. Furukawa**  
Novel Pyrolytic Conversion of Poly[(di-*i*-butylsilylene)methylene] to Stoichiometric Silicon Carbide  
Macromolecules 30, 7618-7620 (1997).
- (76) Y. Muramatsu, M. Sugiyama, S. Maeyama, **K. Furukawa**, K. Ebata, M. Fujino, N. Matsumoto, S. Kawai, M. Motoyama  
Soft X-ray Emission and Absorption Spectroscopy for Electronic Structure Analysis of Cubic Silicon Clusters in SiK-Shell Threshold  
J. Electron Spectroscopy and Related Phenomena 85, 159-165 (1997).
- (77) K. Seki, H. Ishii, A. Yuyama, M. Watanabe, K. Fukui, E. Ishiguro, J. Yamazaki, S. Hasegawa, K. Horiuchi, T. Ohta, H. Isaka, M. Fujino, M. Fujiki, **K. Furukawa**, N. Matsumoto  
Electronic Structures of Polysilanes and Related Compounds  
J. Electron Spectroscopy and Related Phenomena 78, 403-406 (1996).
- (78) **K. Furukawa**, M. Fujino, N. Matsumoto  
Superlattice structure of octa-*tert*-butylpentacyclo[4.2.0.0<sup>2,5</sup>.0<sup>3,8</sup>.0<sup>4,7</sup>]octasilane found by reinvestigation of X-ray structure analysis  
J. Organomet. Chem. 515, 37-41 (1996).
- (79) H. Ishii, A. Yuyama, S. Narioka, S. Hasegawa, M. Fujino, H. Isaka, M. Fujiki, **K. Furukawa**, N. Matsumoto K. Seki  
Electronic Structures of Silicon-Based Organic Compounds Studied by UV Photoemission  
Mol. Cryst. Liq. Cryst. 285, 205-210 (1996).
- (80) **K. Furukawa**, M. Fujino, N. Matsumoto  
Comment on "Crystal structure and optical properties of polymorphic octasilacubane"  
Appl. Phys. Lett. 66, 1291 (1995).
- (81) Y. Horikoshi, M. R. Fahy, M. Kawashima, **K. Furukawa**, M. Fujino, N. Matsumoto  
A New Si Doping Source for GaAs Growth by Molecular Beam Epitaxy

Jpn. J. Appl. Phys. 33, L413-L416 (1994).

- (82) **K. Furukawa**, M. Fujino, N. Matsumoto  
Cubic Silicon Cluster  
Appl. Phys. Lett. 60, 2744-2745 (1992).
- (83) **K. Furukawa**, M. Fujino, N. Matsumoto  
Optical Properties of Silicon Network Polymers  
Macromolecules 23, 3423-3426 (1990).
- (84) S. Takano, E. Kita, A. Tasaki, **K. Furukawa**, K. Kohn, K. Siratori, S. Kimura  
Possibility of Ferroelectricity in Yttrium Iron Garnet Single Crystal  
Ferroelectrics 96, 251-255 (1989).

#### Proceedings

- (1) **K. Furukawa**, Y. Kashimura  
Self-spreading Lipid Bilayer as Nanofluidic Medium for Micro- and Nanostructured Biosurface Fabrication  
Mater. Res. Soc. Symp. Proc. 1236E, SS03-03 (2010).
- (2) H. Nakashima, **K. Furukawa**, Y. Kashimura, K. Torimitsu  
Conductive Polymer-Based Nano-Molecular Wire: Selective Connection to Various Solid Surfaces  
Polym. Prepr. 44(1), 482-483 (2003).
- (3) **K. Furukawa**, K. Ebata, M. Fujiki  
End-Grafted Semiconducting Polymer -Candidate for Molecular Wire  
Mater. Res. Soc. Symp. Proc. 582, H10.2.1 (2000).
- (4) K. Ebata, **K. Furukawa**, N. Matsumoto, M. Fujiki  
End-Grafted Polysilane on a Substrate Surface: Surface-Tethered  $\sigma$ -Conjugated Polymer Chain  
Polym. Prepr. 40(2), 157-158 (1999).
- (5) H. Suzuki, S. Hoshino, C.-H. Yuan, **K. Furukawa**, N. Matsumoto  
High-Efficiency Near-Ultraviolet Electroluminescence From a New Class of Emissive Polymers: a One-dimensional Poly[bis(*p*-*n*-butylphenyl)silane]  
Polym. Prepr. 39(2), 996-997 (1998).
- (6) C.-H. Yuan, M. Fujino, K. Ebata, **K. Furukawa**  
Stoichiometric Silicon Carbide Semiconductor Prepared from a Preceramic Polycarbosilane  
Polym. Prepr. 38(2), 309-310 (1997).