ISSP International Workshop 5th Gel Symposium
Polymer Gels; Fundamentals and Nano-Fabrications
(GelSympo2003)

SCIENTIFIC PROGRAM

ORAL SESSION 1

Tuesday, November 18

10:00 I PL 02  ‘Nanostructured Macromonomer Based Hydrogels Designed for Biomedical Applications’
Lutz, P. J.
(Institute Charles Sadron, France)

10:40 I CP 04  ‘Syntheses and Self-Association of Stimuli-Responsive Block Copolymers’
Aoshima, S.; Kanaoka, S.
(Osaka University, Japan)

11:00 I IL 05  ‘Rational Design of Organogelators and Their Use to Create Functional Materials’
Beginn, U.; Koch, A.; Noppeney, Y.
(RWTH Aachen, Germany)

11:40 I CP 07  ‘Gelation Behavior of Polysiloxanes Having Low Molecular Weight Gelators as Gelation-Causing Segment’
Hanabusa, K.; Ando, K.; Suzuki, M.; Kimura, M.; Shirai, H.
(Shinshu University, Japan)

13:00 I IL 08  ‘Phase Transition Dynamics in Polymer Gels’
Onuki, A.
(Kyoto University, Japan)

13:40 I CP 10  ‘Molecular Dynamics Study of Charge Inversion of a Rod-Shaped Macroion by Polyelectrolyte Counterions’
Tanaka, M. (1); Grosberg, A. Y. (2)
(1) National Institute for Fusion Science, Japan; (2) University of Minnesota, USA

14:00 I IL 11  ‘Modeling Phase Separation and Scattering from Polyelectrolyte Gels’
Rabin, Y. (1); Panyukov, S. V. (2)
(1) Bar-Ilan University, Israel; (2) Lebedev Physics Institute, Russia

14:40 I CP 13  ‘Effects of Cross-linking on Critical Dynamics of Polymer Gels’
Shibayama, M.; Isono, K.; Okabe, S.; Nagao, M.
(The University of Tokyo, Japan)

15:20 I IL 15  ‘Origins of Speckles and Slow Dynamics of Polymer Gels’
Wu, C. (1); Ngai, T. (2)
(1) The Chinese University of Hong Kong, China; (2) BASF, Germany

16:00 I CP 17  ‘Characterization of both Nonergodic and Ensemble-Averaged Properties of Network Structure in Polymer Gels with Scanning Microscopic Light Scattering’
Furukawa, H.; Horie, K.
(Tokyo University of Agriculture and Technology, Japan)

16:20 I IL 18  ‘Light, Small Angle Neutron and X-ray Scattering from Gels’
Geissler, E. (1); Morfin, I. (1); Hecht, A.-M. (1); Horkay, F. (2)
(1) Université Joseph Fourier de Grenoble, France; (2) National Institutes of Health, USA
ORAL  SESSION 2

Wednesday, November 19

9:40  II PL 01  ‘Nanostructured Composites Based on Polyelectrolyte Gels’
Khokhlov, A. R. (1)(2); Philippova, O. E. (1); Starodoubtsev, S. G.(2);
Vasilevskaya, V. V. (2)
((1) Moscow State University, Russia; (2) Nesmeyanov Institute of Organoelement Compounds RAS, Russia)

10:20  II CP 03  ‘Sliding Gel Formed by Figure-of-Eight Crosslinks’
Ito, K.
(The University of Tokyo, Japan)

11:00  II IL 05  ‘Chemically and Physically Cross-linked Gelatin Gels’
Hello, D.; Djabourov, M.
(Ecole de Physique et Chimie, France)

11:40  II CP 07  ‘Role of Interfacial Interaction on the Sliding Friction of Gels’
Gong, J. P.(1)(2); Kagata, G.(1); Kurokawa, T.(1); Tominaga, T.(1); Osada, Y.(1)
((1) Hokkaido University, Japan; (2) PRESTO, JST, Japan)

13:00  II IL 08  ‘Effect of Molecular Architecture on Gelation of Methyl-Cellulose’
Gottlieb, M.; Ginsburg, I.; Yagen, Y.; Karpassas, M.
(Ben Gurion University, Israel)

13:40  II CP 10  ‘Volume Transition of Nematic Gels’
Urayama, K.; Okuno, Y.; Kohjiya, S.
(Kyoto University, Japan)

14:00  II IL 11  ‘The Kinetics of Swelling of Hydrogel Polymers Studied Using NMR Imaging’
Chowdhury, M.; George, K.; Hill, D. J. T.; Strounina, K.; Whittaker, A. K.; Zainuddin
(University of Queensland, Australia)

14:40  II CP 13  ‘Elucidation of Dynamics in Biopolymer Solutions by NMR Measurements’
Matsukawa, S.; Zhang, Q.; Watanabe, T.
(Tokyo University of Marine Science and Technology, Japan)

15:20  II IL 15  ‘Silicone Hydrogels as Continuous & Extended Wear Contact Lens Material’
Matsuzawa, Y.; Vogt, J.
(CIBA Vision Corporation, Lens Business Franchise, USA)

16:00  II CP 17  ‘Preparation of Biomolecule-Responsive Bioconjugate Gels Using Biomolecular Interactions as Reversible Cross-Linkings’
Miyata, T.(1)(2); Asami, N. (1); Jige, M. (1); Uragami, T. (1)
((1) Kansai University, Japan; (2) PRESTO, JST, Japan)

ORAL  SESSION 3

Thursday, November 20

9:40  III PL 01  ‘Intelligent Gels - An Approach to Artificial Muscles -’
Osada, Y.; Gong, J. P.
(Hokkaido University, Japan)
'Stimulus-responsive Micro-actuator for Biomedical Application'
Watanabe, T.; Akiyama, M.; Kimura, N.; Lu, Y.; Totani, K.
(Tokyo University of Agriculture and Technology, Japan)

'Totally Synthetic Polymer Gels Responding to External Glucose Concentration:
Their Preparation and Application to On-Off Regulation of Insulin-Release'
Kataoka, K.; Matsumoto, A.
(The University of Tokyo, Japan)

'Stimmuli-sensitive Polymer Gels That Stiffen upon Swelling'
Nagasaki, Y. (1); Luo, L. B. (1); Tsuruta, T. (1); Kataoka, K. (2)
((1) Science University of Tokyo, Japan; (2) The University of Tokyo, Japan)

'From Polymer Gel Nanoparticles to Nanostructured Bulk Gels'
Hu, Z.
(University of North Texas, USA)

'Tuning Structural Color Changes of Porous Thermo-sensitive Gels through
Quantitative Adjustment of the Cross-linker in Pre-gel Solutions '
Takeoka, Y.; Watanabe, M.
(Yokohama National University, Japan.)

'Liquid Crystal Physical Gels: Self-Organized Structures and Electrooptical
Properties'
Kato, T.
(The University of Tokyo, Japan)

'Hydrogels Based on Lyotropic Phases of Cellulose Derivatives'
Joachimiak, A.; Halamus, T.; Wojciechowski, P.; Ulanski, J.
(Technical University of Lodz, Poland)

'Micro- and Nano-Fabrication of Stimuli-Responsive Polymers'
Ito, Y.
(Kanagawa Academy of Science and Technology, Japan)

'Humido-Responsive Conducting Polymer Gel Actuators'
Okuzaki, H.; Takahashi, T.
(University of Yamanashi, Japan)

'Exploitation of Special Hydrogel Behaviors in Novel Drug Delivery Devices'
Lei, M.; Ziaie, B.
(University of Minnesota, USA)

'Novel Biomimetic Self-Oscillating Gels and Their Application to MEMS'
Yoshida, R.
(The University of Tokyo, Japan)

'Intelligent Surfaces for Switching Attachment and Detachment of Cells'
Okano, T.
(Tokyo Women’s Medical University, Japan)

'Ionic Liquids and Ion Gels - A New Class of Liquids and Polymer Gels-
Watanabe, M.
(Yokohama National University, Japan; CREST, JST, Japan)

POSTER SESSION 1
Tuesday, November 18. (Presentation time: 17:20~18:40)

Theory

I Pa01 'Computational Study on the Gelation of Phenolic Resins'
Yamagishi, T.; Yuboku, H.; Konishi, G.; Nakamoto, Y.
(Kanazawa University, Japan)
I Pa02  ‘Simulation of Gelation Processes and Time Evolution of Scattering Intensities through a CCA Model with Mixed Functionalities’
Miwa, K. ; Deguchi, T.  
(Ochanomizu University, Japan)

I Pa03  ‘The Simulation of the Swelling Dynamics of Gels by the Stress-Diffusion Coupling Model’  
Yamaue, T. (1)(2) ; Doi, M. (1)  
((1) Nagoya University, Japan; (2) CREST, JST.)

I Pa04  ‘Theoretical Explanation of Anisotropic Elastic modulus of Magnetic Gel’  
Taniguchi, T. ; Mitumata, T. ; Sugimoto, M. ; Koyama, K.  
(Yamagata University, Japan)

I Pa05  ‘Simulation of Gelation Dynamics by the Fluctuating Cluster Aggregation Model’  
Ohira, K.  
(The University of Tokyo, Japan)

I Pa06  ‘An Effective Model for a Fast Simulation of DNA Gel Electrophoresis’  
Azuma, R. (1) ; Takayama, H. (2)  
((1) RIKEN, Japan; (2) The University of Tokyo, Japan)

I Pa07  ‘Self-Oscillation of Polymer Chains with Rhythmical Soluble-Insoluble Changes’
Hara, Y. (1) ; Nogawa, M. (2) ; Sakai, T. (1) ; Ito, Y. (2) ; Yoshida, R. (1)  
((1) The University of Tokyo, Japan; (2) Kanagawa Academy of Science and Technology, Japan)

I Pa08  ‘Self-Oscillating Drug Release Systems Using pH-Responsive Gels’  
Uesusuki, Y. ; Yoshida, R.  
(The University of Tokyo, Japan)

I Pa09  ‘Micro-fabrication of Gels by Photo-Polymerization and the Application to Chemical Valve on Microclip’
Ebata, M. ; Yoshida, R.  
(The University of Tokyo, Japan)

I Pa10  ‘Self-Oscillating Nano-Gel Particles’  
Sakai, T. (1) ; Yoshida, R. (1) ; Ito, S. (2) ; Yamaguchi, T. (2)  
((1) The University of Tokyo, Japan; (2) AIST, Japan)

I Pa11  ‘An Application of Gel-glasslike transition in biopolymer gels’  
Takushi, E. ; Nema, S. ; Yonekura, N.  
(University of the Ryukyus, Japan)

I Pa12  ‘Novel Amphiphilic Network Polymers Consisting of Short Primary Polymer Chains and Long Crosslink Units with Opposite Polarities Obtained by Free-Radical Crosslinking Monomethacrylate/Dimethacrylate Copolymerizations’  
Naka, Y. ; Doura, M. ; Aota, H. ; Matsumoto, A.  
(Kansai University, Japan)

I Pa13  ‘Gelation in Free-Radical Crosslinking Allyl Benzoate/Diallyl Terephthalate Copolymerization in the Presence of Reactive Nanosphere as Pseudo-Microgel’  
Yata, M. ; Aota, H. ; Matsumoto, A.  
(Kansai University, Japan)

I Pa14  ‘Preparation of Novel Core/Corona Nanospheres by Free-Radical Post-Copolymerizations of Crosslinked Poly(allyl methacrylate) Nanospheres with Vinyl Monomers’  
Okamoto, N. ; Aota, H. ; Matsumoto, A.  
(Kansai University, Japan)
‘Electronically Conducting Polyelectrolyte Hydrogel : A Novel Semi-IPN Based on Polyaniline and Crosslinked PAMPS’

Siddhanta, S. K. (1); Gangopadhyay, R. (2)
((1) BES College, India; (2) Saha Institute of Nuclear Physics, India)

**Properties**

‘Determination of Shape Parameter of Polyanion-lipid Complex (including DNA-lipoplex) by Viscometry’

Hirota, S. (1)(3); Takaoka, Y. (1); Ohi, S. (1); Sun, Y. (2); Duzgunes, N. (3)
((1) Tokyo Denki University, Japan; (2) Chinese Academy of Science, China; (3) University of the Pacific, San Francisco, USA)

‘Effects of Gelation Rate on the Rheological Properties of Polysaccharides’

Nitta, Y.; Gao, S.; Takahashi, R.; Nishinari, K.
(Osaka City University, Japan)

‘A Rigid Network of Schizophyllan Gel Formed by Addition of Borax’

Fang, Y.; Nishinari, K.
(Osaka City University, Japan)

‘Gelation of Konjac Glucomannan with Different Degree of Acetylation’

Gao, S.; Nishinari, K.
(Osaka City University, Japan)

‘Surface Wave and DSC Study of Methylcellulose Hydrogel in Drying Process’

Matsuoka, T.; Nakamura, Y.; Koda, S.
(Nagoya University, Japan)

‘Fast Deswelling of Microporous Cellulose Ether Gel Prepared by Freeze-Drying’

Kato, N. (1); Suzuki, H. (1); Sakai, Y. (1); Gehrke, S. H. (2)
((1) Utsunomiya University, Japan; (2) The University of Kansas, USA)

‘Pregel Transitions of Aqueous Agarose System’

Yokokawa, S.; Kuga, S.
(The University of Tokyo, Japan)

‘Viscoelastic Properties of Topological Gels’

Okumura, Y. (1)(2); Kataoka, T. (1); Ito, K. (1)(2)
((1) The University of Tokyo, Japan (2) CREST, JST, Japan)

‘Fundamental Study on Radiation-Induced Gelation Process for Various Polymers’

(Osaka University, Japan)

‘Construction of Supramolecular-Structured Hydrogels Based on Inclusion Complexation between Poly(ethylene glycol) Grafted Hyaluronic Acid and [-Cyclodextrins’

Nakama, T.; Ooya, T.; Yui, N.
(Japan Advanced Institute of Science and Technology, Japan)

‘Swelling Characteristics of Semi-IPN Type Hydrogel Composed of Polyallylbiguanide and Poly(N-isopropylacrylamide)’

Iio, K. (1); Hirayama, K. (2)
((1) National Institute of Advanced Industrial Science and Technology, Japan; (2) Ehime Prefectural Office, Japan)

‘Poly(N-isopropylacrylamide) Hydrogels Prepared by Crosslinking of Telechelic Polymers’

Kishi, R. (1); Miura, T. (1); Kihara, H. (1); Fujieda, K. (2); Okabe, M. (2)
((1) National Institute of Advanced Industrial Science and Technology, Japan; (2) Kanagawa Institute of Technology, Japan)
I Pa28  ‘Properties of Environment-responsive Hairy Particles and Their Dispersion’
Tsuiji, S.; Kawaguchi, H.
(Keio University, Japan)

I Pa29  ‘Photoisomerization-Induced Control of Network Structure in Polymer Gels
Studied with Scanning Microscopic Light Scattering’
Yoshikawa, M.; Furukawa, H.; Watanabe, T.; Horie, K.
(Tokyo University of Agriculture and Technology, Japan)

I Pa30  ‘Static Friction between Like-Charged Polyelectrolyte Gels’
Kagata, G. (1); Tominaga, T. (1); Gong, J. P. (1)(2); Osada, Y. (1)
((1) Hokkaido University, Japan; (2) PRESTO, JST, Japan)

Others
I Pa31  ‘Synthesis of Poly(N-alkylacrylamide) Copolymer Gels and Their Swelling
Behavior’
Iizawa, T.; Onohara, Y.; Matuura, Y.
(Hiroshima University, Japan)

I Pa32  ‘Anti-Stokes Fluorescence of Rhodamine Dyes in Polymer Gels’
Kato, E.
(Kobe University of Mercantile Marine, Japan)

I Pa33  ‘Rotational Mobility of Water in the Vicinity of Solute Surface in Aqueous
Solutions - For Proteins and Sugars with Spherical or Filamentous Shape -’
Miyazaki, T. (1); Kabir, S. R. (1); Kamei, T. (1); Suzuki, M. (1); Osada, Y. (2)
((1) Tohoku University, Japan; (2) Hokkaido University, Japan)

POSTER SESSION 2
Wednesday, November 19. (Presentation time: 16:20~17:40)

Structure
II Pc01  ‘Porous Polyvinyl Alcohol Hydrogel’
Sato, S.; Tagami, K.; Yonese, M.
(Nagoya City University, Japan)

II Pc02  ‘Thermodynamic Study of a Supramolecular Assembly Based on Inclusion
Complexation of Cationic Cyclodextrin-Conjugated Polymer’
Choi, H. S.; Ooya, T.; Yui, N.
(Japan Advanced Institute of Science and Technology, Japan)

II Pc03  ‘Temperature and Phenol-Sensitive Hydrogels Based on
Poly(vinylbenzyltrialkylammonium chloride)’
Ohtani, N.; Kuroyanagi, H.; Yamashita, T.
(Åkita University, Japan)

II Pc04  ‘Studies on Two Types of Spatial Inhomogeneities for Polymer Gels’
Norisuye, T. (1); Kida, Y. (1); Masui, N. (1); Tran-Cong-Miyata, Q. (2);
Maekawa, Y.(3); Yoshida, M. (2); Shibayama, M. (3)
((1) Kyoto Institute of Technology, Japan; (2) Takasaki Radiation Chemistry
Establishment, Japan; (3) The University of Tokyo, Japan)

II Pc05  ‘Dynamic Light Scattering Studies on Network Formation of Bridged
Polysilsesquioxanes Catalyzed by Phosphotungstic Acid’
Aoki, Y. (1); Norisuye, T. (1); Tran-Cong-Miyata, Q. (1); Nomura, S. (2);
Sugimoto, T. (2)
((1) Kyoto Institute of Technology, Japan; (2) Sekisui Chemical Co., Ltd., Japan)
II Pc06  ‘Studies on Microscopic Structure of Sol-Gel Derived Polymer Hybrids Containing Heteropoly Acid’

Nakanishi, T. (1); Norisuye, T. (1); Tran-Cong-Miyata, Q. (1); Nomura, S. (2); Sugimoto, T. (2)
((1) Kyoto Institute of Technology, Japan (2) Sekisui Chemical Co., Japan)

II Pc07  ‘Induced Volume Phase Transition of Hydrogels Prepared under Steady Magnetic Fields’

Ozeki, S. (1); Ohtsuka, I. (1); Kawasaki, H. (2); Maeda, H. (2)
((1) Shinshu University, Japan; (2) Kyushu University, Japan)

II Pc08  ‘Hyper-mobile Water Found in F-actin Entangled Solutions by Using Microwave Dielectric Spectroscopy’

Suzuki, M. (1); Kodama, T. (2); Kabir, S. R. (1)
((1) Tohoku University, Japan; (2) Kyushu Institute of Technology, Japan)

II Pc09  ‘Swelling Behavior of Cationic Acrylamide Gels Containing Anionic Surfactant in Water-Organic Media Mixed Solvent’

Inoue, Y.; Sato, T.; Ohtani, N.
(Akita University, Japan)

II Pc10  ‘Effect of Counter-ions of Ionic Hydrogels on Thermo-Sensitive Swelling Behavior’

Yamashita, T.; Kuroyanagi, H.; Mori, K.; Ohtani, N.
(Akita University, Japan)

II Pc11  ‘Thermo-Sensitivity of an Optically Active Hydrogel’

Aoki, T.
(Kyoto Institute of Technology, Japan)

II Pc12  ‘Network Structures of the Polymers Derived from Methacrylate Type Cross-Linking Agents’

(Kyoto Institute of Technology, Japan)

II Pc13  ‘Synthesis and Light Scattering of Transparent Polyimide Gels with Rigid Main-chains’

Tan, N. (1); Furukawa, H. (1); Horie, K. (1); Yokota, R. (2)
((1) Tokyo University of Agriculture and Technology, Japan; (2) Institute of Space and Astronautical Science, Ministry of Education, Japan)

II Pc14  ‘Dynamic Light Scattering and Depolarized Fluorescence Spectroscopy of Grafted Poly(N-isopropylacrylamide) Gels’

Yoshinari, E.; Furukawa, H.; Horie, K.
(Tokyo University of Agriculture and Technology, Japan)

II Pc15  ‘Physical Gelation and Microstructure Formation in Solutions of Associating Polyelectrolytes’

Potemkin, I. I.; Limberger, R. E.; Khokhlov, A. R.
(Moscow State University, Russia)

II Pc16  ‘Microstructure of Weakly-Charged Polymer Gel Particles’

Ikkai, F. (1); Shibayama, M. (2)
((1) L’OREAL Recherche, Japan; (2) The University of Tokyo, Japan)

II Pc17  ‘Study on the Structure and Dynamics of a Thermo-Sensitive Block Copolymer Aqueous Solution’

Okabe, S. (1); Shibayama, M. (1); Sugihara, S. (2); Aoshima, S. (2)
((1) The University of Tokyo, Japan; (2) Osaka University, Japan)

II Pc18  ‘Small Angle Neutron Scattering from Sliding Gel’

Karino, T.; Okabe, S.; Shibayama, M.; Domon, Y.; Okumura, Y.; Ito, K.
(The University of Tokyo, Japan; )
II Pc19  ‘Dynamic Light Scattering of Sliding Gel’
Zhao, C. (1)(2); Domon, Y. (1); Okumura, Y. (1)(2); Ito, K. (1)(2); Okabe, S. (1);
Shibayama, M. (1)(2)
(1) The University of Tokyo, Japan; (2) CREST, JST, Japan

II Pc20  ‘Effects of Cross-linking and Pressure on Phase Separation of PNIPA Aqueous System’
Isono, K.; Okabe, S.; Karino, T.; Nagao, M.; Shibayama, M.
( The University of Tokyo, Japan)

II Pc21  ‘Self-Assembled Organization of Bola-form Amides’
( AIST, Japan)

II Pc22  ‘Phase Behavior of Weakly Charged PNIPA-co-Acrylic Acid Gels and Solutions in the P-T Plane. SANS and DLS Studies.’
Nasimova, I. (1); Shibayama, M. (2); Isono, K. (2); Okabe, S. (2)
(1) Moscow State University, Russia; (2) The University of Tokyo, Japan

II Pc23  ‘Microphase Separated Structures of Block Copolymer Solutions Undergoing Solvent-Induced Sol-Gel Transition’
Fuse, C. (1); Okabe, S. (1); Sugihara, S. (2); Aoshima, S. (2); Shibayama, M. (1)
(1) The University of Tokyo, Japan; (2) Osaka University, Japan

II Pc24  ‘Effects of Molecular Weight on Initial Stage of Gelation Process of Sodium–Type Gellan Gum in Aqueous Solutions’
Ogawa, E. (1); Takahashi, R. (2); Yajima, H. (3); Nishinari, K. (2)
(1) Showagakuin Jr. College, Japan; (2) Osaka City University, Japan; (3) Tokyo University of Science, Japan

Application

II Pc25  ‘Development of Totally Synthetic Glucose Responsive Gel with Phenylboronic Acid Derivative as Sensor Moiety’
Matsumoto, A.; Kataoka, K.
( The University of Tokyo, Japan)

II Pc26  ‘Microfabrication of Self-Oscillating Gel by Photolithography’
Furuhata, Y. (1); Nogawa, M. (2); Ito, Y. (2); Yoshida, R. (1)
(1) The University of Tokyo, Japan; (2) Kanagawa Academy of Science and Technology, Japan

II Pc27  ‘Synthesis of Hydrophilic Copolymer Beads Having Phosphinic Acid Groups and Their Properties’
Nonaka, T.; Yasunaga, A.; Ogata, T.; Kurihara, S.
(Kumamoto University, Japan)

II Pc28  ‘Preparation of Thermoresponsive Hydrogel-grafted Capillary Tubings for Elution Control of Hydrophobic Bioactive Compounds’
Idota, N. (1)(3); Kikuchi, A. (2)(3); Kobayashi, J. (3); Sakai, K. (1); Okano, T. (2)(3)
(1) Waseda University, Japan; (2) Tokyo Women’s Medical University, Japan; (3) CREST JST, Japan

II Pc29  ‘Novel Thermo-sensitive Nano-structure Hydrogels for Cell Culture’
Ebara, M. (1)(3); Yamato, M. (2)(3); Aoyagi, T. (2); Kikuchi, A. (2)(3); Sakai, K. (1);
Okano, T. (2)(3)
(1) Waseda University, Japan; (2) Tokyo Women’s Medical University, Japan; (3) CREST JST, Japan
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<td>Pc30</td>
<td>Novel Light Modulation Polymer Gel Materials Imitating Pigment Cell</td>
<td>Tsutsui, H.; Mikami, M.; Komura, A.; Akashi, R.</td>
<td>Fuji Xerox Co., Ltd., Japan</td>
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<td>VI Design and Fabrication of a Light Modulator with a Light Modulation</td>
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<td>Pc32</td>
<td>Stimuli Sensitive Nanogel Possessing Reactive PEG Tethered Chains on</td>
<td>Hayashi, H.; Iijima, M.; Nagasaki, Y.; Kataoka, K.</td>
<td>(1) Tokyo University of Science, Japan; (2) Oyama National College of Technology, Japan; (3) The University of Tokyo, Japan</td>
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<td>the Surface for High Performance Drug Carrier</td>
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<td>Pc33</td>
<td>Separation of Heavy Metals by Selective Adsorption on Imprinted</td>
<td>Kanazawa, R.; Tokuyama, H.; Sakohara, S.</td>
<td>Hiroshima University, Japan</td>
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<td>Thermosensitive Gels and Adsorption/Desorption Properties by</td>
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<td>Temperature Swing</td>
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<td>Pc34</td>
<td>The Dewatering of Organic Slurry by Using Reinforced Thermosensitive</td>
<td>Gotoh, T.; Okamoto, H.; Sakohara, S.</td>
<td>Hiroshima University, Japan</td>
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<td>Porous Gel</td>
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<td>Pc35</td>
<td>Timolol Adsorption and Release by Molecular Imprinted Contact Lens</td>
<td>Hiratani, H.; Alvarez-Lorenzo, C.</td>
<td>(1) Menicon Co. Ltd., Japan; (2) Universita de Santiago de Compostela, Spain</td>
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<td>Pc36</td>
<td>Fabrication of Macroporous Hydrolyzable Polyrotaxane Hydrogels as a</td>
<td>Tachaboonyakiat, W.; Furubayashi, T.; Katoh, M.; Ooya, T.; Yui, N.</td>
<td>(1) Japan Science and Technology Corporation, Japan; (2) Japan Tissue Engineering Co., Ltd., Japan; (3) Japan Advanced Institute of Science and Technology, Japan</td>
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<td>Novel Polymeric Scaffold for Chondrocyte Cultivation</td>
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<td>Pc37</td>
<td>Nanogel Engineering : Polymerizable Self-assembled Nanogel</td>
<td>Morimoto, N.; Iwasaki, Y.; Akiyoshi, K.</td>
<td>Tokyo Medical and Dental University, Japan</td>
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<td>Pc38</td>
<td>Molecular Recognition by DNA Hydrogel</td>
<td>Yonekura, N.; Takushi, E.</td>
<td>University of the Ryukyus, Japan</td>
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<td>Pc39</td>
<td>Design of Intelligent Bio-nano Interface for Cell Attachment and</td>
<td>Akiyama, Y.; Kikuchi, A.; Yamato, M.; Okano, T.</td>
<td>(1) CREST, Japan Science and Technology Corporation, Japan (2) Tokyo Women’s Medical University, Japan</td>
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<td>Detachment Surfaces</td>
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<td>Pc40</td>
<td>Microfabrication of Hydrogel by Using Two-photon-Induced Polymerization</td>
<td>Kimura, N.; Lu, Y.; Hasegawa, F.; Totani, K.; Watanabe, T.; Oguni, A.</td>
<td>(1) Tokyo University of Agriculture and Technology, Japan (2) Tokyo Institute of Technology, Japan</td>
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<td>Harada, I.; Akaike, T.</td>
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<td>Pc41</td>
<td>Properties of Radiation Synthesized Water Soluble Polymer-Carrageenan</td>
<td>Abad, L. V.; Relleve, L. S.; Aranilla, C. T.; Dela Rosa, A. M.</td>
<td>Philippine Nuclear Research Institute, Philippines</td>
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<td>Hydrogels and Their Applications</td>
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