

# Poster Presentations

Obligation Time:

Odd Numbers: December 7 (14:00-15:00).

Even Numbers: December 8 (14:00-15:00).

P-1. *Yuri Koltypin, David Salomon Jacob, Aharon Gedanken.*

The synthesis of oval-shaped  $\text{MgF}_2$  nanoparticles in an ionic liquid under ultrasonic irradiation.

P-2. *Nina Perkas, Galina Amirian, Anna Kotlyar, Aharon Gedanken.*

Sonochemical Coating of Polymers with Silver Nanoparticles.

P-3. *Naoki Komatsu, Takahide Kimura.*

Isolation of Circular Aggregates of Single-Walled Carbon Nanotubes by Ultrasonic Atomization.

P-4. *Yasuaki Maeda, Duc Hanh Hoang, Kenji Okitsu, Rokuro Nishimura.*

Sonolytical Production of Bio Diesel Fuel.

P-5. *Tatsuya Shuto, Yoshiteru Mizukoshi, Osamu Nakagoe, Shuji Tanabe.*

Sonochemical preparation of magnetite nanoparticles by reverse precipitation method.

P-6. *Akane Kanamori, Takashi Kondo, Wakako Hiraoka.*

Sonochemical cleavage at photosensitive crosslinkage of caged fluorescein derivatives.

P-7. *Naohito Hayashi, Ryosuke Yasutomi, Eiki Kasai.*

Volume Reduction and Enhanced Recovery of Methane and Phosphorus from Sewage Sludge Using Sonophotocatalysis.

P-8. *Bozena Rokita, Piotr Ulanski, Janusz Rosiak.*

Formation of macroscopic covalent hydrogels in aqueous monomer solutions using ultrasound treatment.

P-9. *Feng Dang, Kai Kamada, Naoya Enomoto, Junichi Hojo.*

Sonochemical Synthesis of the Silica-coated Magnetite Composite by using ca. 30 nm Particles.

P-10. *Weon Bae Ko, Byoung Eun Park, Young Min Lee, Sung Ho Hwang, Jeong Ho Lee.*

Preparation of Fullerene-GOLD Nanoparticles with Various Surfactants under Ultrasonic Irradiation.

P-11. *Weon Bae Ko, Dle Rae Min, You Young Kim, Jeong Ho Lee.*

Synthesis of Fullerene-SILVER Nanoparticles with Various Surfactants under Ultrasonic Irradiation.

P-12. *Seigo Hirayama, Hitoshi Morinaga, Tadahiro Ohmi, Jun-ichiro Soejima.*

Effect of Dissolved Gases on Ultrasonic Cavitation in Liquid.

P-13. *Noriaki Saiga, Kenji Matsuda, Chosei Hamada, Masato, Kinoshita.*

NIR measurement on a glucose solution in a quasi-steady state of rearranging H<sub>2</sub>O clusters downsized by ultrasonic cavitation.

P-14. *Shogo Abe, Pak-Kon Choi.*

Multibubble-sonoluminescence and potassium atom emission from KCl solutions.

P-15. *Hisashi Harada, Hisashi Kato.*

Effect of dissolved gases on the intensity of MBSL in water.

P-16. *Judy Lee, Toru Tuziuti, Kyuichi Yasui, Yasuo Iida, Muthupandian Ashokkumar, Sandra Kentish, Franz Grieser.*

Direct observation of the influence of surface active solutes on the coalescence, clustering and fragmentation of acoustic bubbles.

P-17. *Devi Sunartio, Kyuichi Yasui, Toru Tuziuti, Teruyuki Kozuka, Yasuo Iida, Muthupandian Ashokkumar, Franz Grieser.*

Correlation between Na emission and “chemically active” acoustic cavitation bubbles.

P-18. *Tomo Takeda, Ikuko Oyane, Kenji Okitsu, Masakazu Furuta, Yasuaki Maeda, Hiroshi Bandow.*

Inactivation of Microorganisms by Ultrasonic Irradiation; Comparison between the Effects of Shock Wave with H<sub>2</sub>O<sub>2</sub>.

P-19. *Hiromi Shida, Wakako Hiraoka, Pak-Kon Choi.*

Effect of OH radicals induced by 1 MHz-ultrasound on HeLa Cells.

P-20. *Wakako Hiraoka, Takashi Kondo, Tsukasa Takahashi.*

Reactive oxygen species-independent deformation of copper-centered proteins by 1 MHz ultrasound.

P-21. *Daiki Kato, Keiji Yasuda, Yoshiyuki Bando, Hirotoshi Horizoe.*

Effect of Ultrasonic Irradiation Condition on Enzymatic Hydrolysis of Woods.

P-22. *Ryousuke Sasai, Shirou Sonoke, Chiaki Ogino, Shunichi Kuroda, Nobuaki Shimizu.*

The cancer cell injury by combination of protein displayed titanium dioxide nanoparticle and ultrasound irradiation.

P-23. *Ryo Suzuki, Eisuke Namai, Yusuke Oda, Tomoko Takizawa, Naoki Utoguchi, Yoichi Negishi, Katsuro Tachibana, Kazuo Maruyama.*

In vivo gene delivery by sonoporation with liposomal bubbles.

P-24. *Changping Zhu, Weidong Guo, Han Qingbang, Bo Huang, Jianping Zhao, Zhen Zhang, Jingjing Wang.*

Study on the physical condition of degradation of 4-Nitrophenol by synergetic effect of ultrasound and ozone.

P-25. *Nicolas Gondrexon, Yohann Rousselet, Primius Boldo, Andre Bontemps.*

Design and experimental study of an ultrasonically assisted shell-and-tube heat exchanger.

P-26. *Mattias Burdet, Nadine Commenges-Bernole, Stéphane Baup, Nicolas Gondrexon.*

Copper cementation on iron balls assisted by 20 kHz ultrasound.

P-27. *Mattias Burdet, Nadine Commenges-Bernole, Primius Boldo, Christian Pétrier, Nicolas Gondrexon.*

Energetic characterisation of sonoreactors by an improved calorimetric method: influence of geometric parameters.

P-28. *Kohei Yamaguchi, Takeshi Toyama, Yoshiyuki Kojima, Nobuyuki Nishimiya.*

Character control of calcium carbonate prepared by sonochemical method.

P-29. *Daisuke Kobayashi, Hideyuki Matsumoto, Chiaki Kuroda.*

Dynamic Process Operational Method for Changing Molecular Weight Distribution under Indirect Ultrasonic Irradiation.

P-30. *Yoji Shirai, Shin-ichi Hatanaka, Shigeo Hayashi.*

Sonochemical Synthesis of Large Molecules in Aqueous Benzene Solutions.

P-31. *Hajime Sohmiya, Mitsue Fujita, Takahide Kimura.*

A New Concept of 'Sonofunctional' Molecules: Ultrasonic Binding to DNA.

P-32. *Minjun Seong, Jae Wook Lee.*

Power Ultrasound Effect on EPDM/PP blends.

P-33. *Jongseok Lee, Hooseok Lee, Jae Wook Lee.*

Application of High Intensity Ultrasound on Nylon/PDMS Blending.

P-34. *Mohammad Mizanur Rahman, Chiaki Ogino, Nobuaki Shimizu.*

Analysis of Sonodynamic Sterilization of *Escherichia coli* at the Surface of TiO<sub>2</sub>.

P-35. *Sladjana Matić, Oliver Schneider, Christos Argiris.*

Sonoelectrochemical deposition of metal-ceramic and metal-metal composites: An EQCM study.

P-36. *Kazumichi Sakiyama, Tatsuya Oniwa, Chiaki Ogino, Nobuaki Shimizu.*

Analysis of H<sub>2</sub>O<sub>2</sub> formation induced by ultrasonic irradiation with TiO<sub>2</sub>.

P-39. *Marcio Inoue, Yukihiro Masuda, Fumio Okada, Akihiko Sakurai, Mikio Sakakibara.*

Development of a system to degrade bisphenol A using sonochemical reactions.

P-40. *Zeynep Eren, Filiz Nuran Acar.*

Decolorization of Direct Yellow 9 using low frequency ultrasound (US), US/H<sub>2</sub>O<sub>2</sub> and US/Fe<sup>+2</sup>.

P-41. *Kalsi K Perminder, Karanam L Ramakumar, Venkatrama Venugopal.*

Application of Ultrasound energy for Dissolution Studies of sintered Thoria pellets and microspheres in different media.

P-42. *Hiroyuki Nakui, Kenji Okitsu.*

- Sonochemical degradation of hydrazine in the presence of coal ash.
- P-43. *Toyotoshi Ueda, Masanori Hara, Ikumi Odagawa, Takanori Sigihara.*  
Simultaneous Treatment of Washing, Disinfection and Sterilization Using Ultrasonic Levitation, Silver Electrolysis and Ozone Oxidation.
- P-44. *Kazuhiko Sekiguchi, Fumie Mogi, Hideki Kurokawa, Qingyue Wang, Kazuhiko Sakamoto.*  
Application of ultrasound to BDF synthesis and purification process.
- P-45. *Kazuhiko Sekiguchi, Wakana Morinaga, Keisuke Yamamoto, Chie Sasaki, Kazuhiko Sakamoto.*  
Photocatalytic degradation and capture of organic gases in an ultrasonic mist and their sonophotocatalytic mineralization in the liquid phase.
- P-46. *Hyukrok Kwon, Hyungsik Kim, Youngjoon Ahn, Jae Wook Lee.*  
Application of a power ultrasound in processing of nanocomposites.
- P-47. *Hee Jung Kim, Hyungsu Kim, Hooseok Lee, Jae Wook Lee.*  
Development of a Novel Processing System with High-Intensity Ultrasound for Polymer Melt Mixing.
- P-48. *Youngbum Kim, Hyungsu Kim, Hee Jung Kim, Jae Wook Lee.*  
Rheological Properties of Branched Polycarbonate Prepared by an Ultrasound-Assisted Melt Mixing Process.
- P-49. *Masaru Nomura, Tsuyoshi Yamaguchi, Tatsuro Matsuoka, Shinobu Koda.*  
Frequency and power effects of ultrasound on liposome solution.
- P-50. *Akira Matsuoka, Keiji Yasuda, Yasuhito Kawase, Yoshiyuki Bando.*  
Effects of Equipment and Operation Conditions on Performance of Separation by Ultrasonic Atomization.
- P-51. *Ji Hyun Hong, Dong Uk Ju, Hyungsu Kim, Jae Wook Lee.*  
The Effect of Sonication on PC-PDMS Composites.
- P-52. *Kyung Yl Kim, Jae Wook Lee.*  
Ultrasonic effect of Ultrasonicated Syndiotactic Polystyrene/Ethylene-propylene-rubber blends and S-PS/EPR/Clay Nanocomposites.
- P-53. *Satoshi Fukutomi, Yoshiyuki Asakura, Tatsuro Matsuoka, Shinobu Koda.*  
Study on power of ultrasound dissipated in organic solvents.
- P-54. *Kenji Okitsu, Kotaro Kawasaki, Ben Nanzai, Rokuro Nishimura, Norimichi Takenaka, Hiroshi Bandow.*  
Sonochemical decomposition of butyric acid in water.
- P-55. *Helal M. Uddin, Shin-ichi Hatanaka, Shigeo Hayashi.*  
Effects of aqueous temperature and OH radical scavenger on sonolysis of bisphenol A.
- P-56. *Yasuomi Takizawa, Tooru Kikuchi, Takekazu Harada.*  
Synthesis of pinacol derivatives from substituted acetophenones under ultrasonication.

- P-57. *Le Ngoc Ngo, Takaomi Kobayashi.*  
Ultrasound Effect on Hydrogen Bonding in Alumina-Polyacrylic acid Slurry.
- P-58. *Ben Nanzai, Kenji Okitsu, Norimichi Takenaka, Hiroshi Bandow, Yasuaki Maeda.*  
Effect of reactor size on the sonochemical degradation rates.
- P-59. *Koumei Hamai, Norimichi Takenaka, Hiroshi Bandow.*  
Influence of adding salt on ultrasonic atomization in ethanol- water solution.
- P-62. *Ya-Li Song, Ji-Tai Li.*  
Decolorization of Acid brown 348 aqueous solution by Combination of Ultrasound and Exfoliated graphite.
- P-63. *Xian-Feng Liu, Ji-Tai Li.*  
An Efficient Synthesis of 2,3-Epoxy-1,3-diaryl-1-propanone by Combination of Phase transfer catalyst and Ultrasound irradiation.
- P-64. *Xiao-Hui Zhang, Ji-Tai Li, Zhi-Ping Lin.*  
Synthesis of 3,5-Diarylisoxazoles under Ultrasound Irradiation.
- P-65. *P. B. Gwan, A. P. Sosa-Pintos, A. F. Collings.*  
Sonoprocessing in the Minerals Industry.
- P-66. *Yuenan Liu, Xiaoping Lu, Pingfang Han.*  
Study of the degradation behavior of dimethoate in ultrasound airlift loop reactor.
- P-67. *Guoxiang Ye, Xiaoping Lu, Pingfang Han, etc.*  
Intensification of crude oil desalting by electric and ultrasonic in continuous operation.
- P-68. *Shunsuke Kikumoto, Susumu Nii, Hideaki Tokuyama.*  
Quantitative approach to ultrasonically induced emulsion separation.
- P-69. *Abdolmajid Maskooki, Seid Ali.Mortazavi, Arash Maskooki.*  
Cleaning efficiency of ultrasound in various membrane modules.
- P-70. *Susumu Nii, Misuzu Toki, Kazuo Matsuura, Tetsuo Fukazu.*  
Effect of operating pressure on ethanol separation through ultrasonic atomization.
- P-71. *Takashi Nakamura, Hirokazu Okawa, Katsuyasu Sugawara.*  
Zeta-potential Measurement and Sonochemical Treatment of Hinai Green Tuff Colloid for Reuse.
- P-72. *Miyako Takayasu, Tatsuro Matsuoka, Shinobu Koda.*  
Degradation of cellulose in aqueous solution of sodium hydroxide by ultrasonication.