List of Publications

1. Yuyama, K.; Chang, K. -D.; Tu, J. -R.; Masuhara, H.; Sugiyama, T.*, " Rapid localized crystallization of lysozyme by laser trapping", *Physical Chemistry Chemical Physics*, 20, 6034–6039 (2018)
2. Iwata, K.: Terazima, M.; Masuhara, H., "Novel physical chemistry approaches in biophysical researches with advanced application of lasers: Detection and manipulation", *Biochimica et Biophysica Acta (BBA) - General Subjects,* 1862, 335-357 (2018)
3. Chiang, W.-Y.; Usman, A.; Sugiyama, T.; Hofkens, J.; Masuhara, H., "Femtosecond laser trapping dynamics of nanoparticles: A single transient assembly formation leading to their directional ejection", *Journal of Physical Chemistry C,* in press *(*2018)
4. Niinomi, H.; Sugiyama, T.; Miyamoto K.; Omatsu T., "Freezing" of $NaClO_3$ metastable crystalline state by optical trapping in unsaturated microdroplet", *Crystal Growth & Design*, 18 (2), 734-741 (2018)
5. Niinomi, H.; Sugiyama, T.; Tagawa, M.; Maruyama, M.; Ujihara, T.; Omatsu, T.; Mori, Y., "Plasmonic heating-assisted laser-induced crystallization from a $NaClO_3$ unsaturated mother solution", *Crystal Growth & Design*, 17, 809-818 (2017)
6. Kittiravechote, A.; Usman, A.; Liau, I.; Masuhara, H., "Enhanced optical confinement of dielectric nanoparticles by two-photon resonance transition", *RSC Advances,* 7, 42606-42613 (2017)
7. Liu, T.-H.; Yuyama, K.; Hiramatsu, T.; Yamamoto, N.; Chatani, E.; Miyasaka, H.; Sugiyama, T.; Masuhara, H., "Femtosecond Laser-Enhanced Amyloid Fibril Formation of Insulin", *Langmuir,* 33, 8311-8318 (2017)
8. Yuyama, K.; Ueda, M.; Nagao, S.; Hirota, S.; Sugiyama, T.; Masuhara, H., "A Single Spherical Assembly of Protein Amyloid Fibrils Formed by Laser Trapping", *Angewandte Chemie International Edition,* 56, 6737-6743 (2017)
9. Uwada, T.; Wang, S. F.; Liu, T.-H.; Masuhara, H., "Preparation and micropatterning of gold nanoparticles by femtosecond laser-induced optical breakdown"", *Journal of Photochemistry and Photobiology A: Chemistry,* 346, 177-186 (2017)
10. Kudo, T.; Ishihara, H.; Masuhara, H., "Resonance optical trapping of individual dye-doped polystyrene particles with blue- and

red-detuned lasers", *Optics Express,* 25, 4655-4664 (2017)
11. Uwada, T.; Huang, L.-T.; Hee, P.-Y.; Usman, A.; Masuhara, H., "Size-Dependent Optical Properties of Grana Inside Chloroplast of Plant Cells", *Journal of Physical Chemistry B,* 121, 915-922 (2017)
12. Yuyama, K.; Marcelis, L.; Su, P. M.; Chung, W.-S.; Masuhara, H., "Photocontrolled Supramolecular Assembling of Azobenzene-Based Biscalix[4]arenes upon Starting and Stopping Laser Trapping", *Langmuir,* 33, 3, 755-763 (2017)
13. Kudo, T.; Wang, S. F.; Yuyama, K.; Masuhara, H., "Light propagation in optical trapping assembling of colloidal particles at an interface", *Proceedings of The SPIE , 9922, 99221R* (2016)
14. Wang, S.-F.; Yuyama, K.; Kudo, T.; Sugiyama, T.; Masuhara, H., "Optically evolved assembly formation in laser trapping of polystyrene nanoparticles at solution surface", *Langmuir,* 32, 47, 12488–12496 (2016)
15. Okano, K.; Hsu, H.-Y.; Li, Y.-K.; Masuhara, H., "In situ patterning and controlling living cells by utilizing femtosecond laser", *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, 2016, 28, 1-28 (2016)
16. Murshid, N.; Yuyama, K.; Wu, S.-L.; Wu, K.-Y.; Masuhara, H.; Wang, C.-L.; Wang X.-S., "Highly-integrated, laser manipulable aqueous metal carbonyl vesicles (MCsomes) with aggregation-induced emission (AIE) and aggregation-enhanced IR absorption (AEIRA)", J*ournal of Materials Chemistry C*, 4, 5231-5240 (2016)
17. Kudo, T.; Wang, S.-F.; Yuyama, K.; Masuhara, H., "Optical Trapping-Formed Colloidal Assembly with Horns Extended to the Outside of a Focus through Light Propagation", *Nano Letters*, 16, 3058-3062 (2016)
18. Muramatsu, M.; Shen, T.-F.; Chiang, W.-Y.; Usman, A.; Masuhara, H., "Picosecond Motional Relaxation of Nanoparticles in Femtosecond Laser Trapping", *Journal of Physical Chemistry C*, 120, 5251-5256 (2016)
19. Liu, T.-H.; Chiang, W.-Y.; Usman, A.; Masuhara, H., "Optical Trapping Dynamics of a Single Polystyrene Sphere: Continuous Wave versus Femtosecond Lasers", *Journal of Physical Chemistry C*, 120, 2392-2399 (2016)
20. Yuyama, K.; George, J.; Thomas, K. G.; Sugiyama, T.; Masuhara, H., "Two-Dimensional Growth Rate Control of L-Phenylalanine Crystal by Laser Trapping in Unsaturated Aqueous Solution", *Crystal Growth*

& Design, 16, 953-960 (2016)
21. Wang, S.-F.; Yuyama, K.; Sugiyama, T.; Masuhara, H., "Reflection Microspectroscopic Study of Laser Trapping Assembling of Polystyrene Nanoparticles at Air/Solution Interface", *J. Phys. Chem. C*, 120, 15578–15585 (2016)
22. Niinomi, H., Sugiyama, T., Tagawa, M., Murayama, K., Harada S., Ujihara T., “Enantioselective amplification on circularly polarized laser-induced chiral nucleation from a $NaClO_3$ solution containing Ag nanoparticles”, *CrystEngComm*, 18, 7441-7448 (2016)
23. Hamada, M.; Yuyama, K.; Masuhara, H.; Nakanishi, S.; Biju, V. P., “Photoluminescence Enhancement and Spectral Fluctuations of CdSe/ZnS Quantum Dots in Solutions and at Interfaces: From Single-molecule Studies to the Construction of Self-assembled Nanostructures”, *Proceedings of International Conference on Materials for the Millennium*, PL22, 60-63 (2016)
24. Okano, K.; Liu, L.-L.; Hosokawa, Y.; Masuhara, H., "In situ dynamic control of neurite growth by femtosecond laser ablation of substrate patterns", *Micro-Nano Mechatronuics and Human Science*, 263-266 (2016)
25. Masuhara, H., “Exploratory Research on Time- and Space-resolved Spectroscopy and Chemistry”, *Chemical Record*, 2015, 15, 1153-1155 (2015)
26. Tu, J.-R.; Yuyama, K; Masuhara, H.; Sugiyama, T. “Dynamics and Mechanism of Laser Trapping-Induced Crystal Growth of Hen Egg White Lysozyme”, *Crystal Growth & Design*, 15, 4760-4767 (2015)
27. Wang, S.-F.; Yuyama, K.; Sugiyama, T.; Masuhara, H., "Laser trapping and assembling of nanoparticles at solution surface studied by reflection micro-spectroscopy", *Proceedings of The SPIE*, 9548, 954821-1-954821-6 (2015)
28. Masuhara, H.; Sugiyama, T.; Yuyama, K.; Usman, A., “Optical trapping assembling of clusters and nanoparticles in solution by CW and femtosecond lasers”, *Optical Review*, 22, 143-148 (2015)
29. Okano, K.; Wang, C.-H.; Liau, I., "Ablation of targeted cardiomyocyte in zebrafish larvae utilizing femtosecond laser", 2015 Conference on Lasers and Electro-Optics/Pacific Rim, 25H3_5 (2015)
30. Yoshikawa, H. Y.; Murai R.; Adachi H.; Sugiyama, S.; Maruyama, M.; Takahashi, Y.; Takano, K.; Matsumura, H.; Inoue, T.; Murakami, S.; Masuhara, H.; Mori, Y., “Laser ablation for protein crystal nucleation and seeding”, *Chemical Society Reviews*, 43, 2147-2158 (2014)

31. Tu, T.-R; Miura, A.; Yuyama, K., Masuhara, H., Sugiyama, T., “Crystal growth of lysozyme controlled by laser trapping”, *Crystal Growth & Design*, 14, 15-22 (2014)
32. Chiang, W. -Y.; Okuhata, T.; Tamai, N.; Masuhara, H., “Efficient optical trapping of CdTe quantum dots by femtosecond laser pulses”, *Journal of Physical Chemistry B*, 118, 14010–14016 (2014)
33. Kittiravechote, A.; Chiang, W.-Y.; Usman, A.; Liau, I.; Masuhara, H., “Enhanced optical confinement of dye-doped dielectric nanoparticles using a picosecond-pulsed near-infrared laser”, *Laser Physics Letters*, 11, 076001 (2014)
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35. Deka, G.; Okano, K.; Wu, W.-W.; Kao, F.-J., "Multiphoton microscopy for skin wound healing study in terms of cellular metabolism and collagen regeneration ", Proceeding of SPIE, 8948, 894820 (2014)
36. Deka, G.; Okano, K.; Kao, F.-J., "Dynamic photopatterning of cells in situ by Q-switched neodymium-doped yttrium ortho-vanadate laser", Journal of Biomedical Optics, 19, 011012 (2014)
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39. Masuhara, H., “Time-resolved spectroscopic and imaging studies on laser ablation of molecular systems: From mechanistic study to bio/nano applications”, *Bulletin of the Chemical Society of Japan*, 86, 755-783 (2013)
40. Liu, T.-H.; Uwada, T.; Sugiyama, T.; Usman, A.; Hosokawa, Y.; Masuhara, H.; Chiang, T.-W.; Chen, C.-J., “Single femtosecond laser pulse-single crystal formation of glycine at the solution surface”, *Journal of Crystal Growth*, 366, 101-106 (2013)
41. Usman, A.; Chiang, W.-Y.; Uwada, T.; Masuhara, H., “Polarization and droplet size effects in the laser trapping-induced reconfiguration in individual nematic liquid crystal micro-droplets”, *Journal of*

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46. Hee, P. -Y.; Uwada, T.; Okano, K.; Miura, A.; Masuhara, H., “Rayleigh scattering correlation spectroscopy on diffusion dynamics of nanoparticles under intense laser irradiation”, *Proceedings of The SPIE*, 8810, 88102T_1-12 (2013)
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List of Invited Talks

1. Colloquium of Katholieke Universiteit Leuven for Honorary doctorate for Professor Thomas Ebbesen, Invited
   Leuven, Belgium, February. 1, 2018.
   “Optical trapping and assembling of molecules and nanoparticles”
   Hiroshi Masuhara
2. Symposium on Nano-Material Manipulation and Structural Order Control with Optical Forces, Plenary
   Osaka, Japan, January. 22, 2018.
   “Photochemistry, Photoscience and Science of “Photon Pressure”
   Hiroshi Masuhara
3. International Conference of Applied Sciences 2018, Plenary
   Taipei, Taiwan, January. 9, 2018.
   “Laser Trapping Dynamics and Chemistry”
   Hiroshi Masuhara
4. 1st Workshop of Australian Research Council Excellence of Science in Exciton Science, Plenary
   Melbourne, Australia, December 11, 2017
   “My Exciton Science, Related Projects in Japan, and University Globalization in Taiwan”
   Hiroshi Masuhara
5. 2017 The 5th Solid-State Physics Seminar at Osaka University, Invited
   Osaka, Japan, December 19, 2017
   “Collective motion of the nanoparticles under laser trapping”
   Tetsuhiro Kudo
6. Toyota Riken International Workshop on Chirality in Soft Matter, Invited
   Nagoya, Japan, November 26, 2017
   ”Crystallization and Enantiomorphism Controlled by Optical Trapping”
   Teruki Sugiyama
7. 2017 Taiwan-Israel Bilateral Workshop on Optofluidics and Electrokinetics, Invited
   Hsinchu, Taiwan, November 9, 2017
   “Optical Trapping Dynamics of Nanoparticles by CW and Femtosecond Lasers”
   Hiroshi Masuhara

8. Asian spectroscopy conference 2017, Invited
   Hsinchu, Taiwan, September 4, 2017
   ”Laser Trapping Dynamics and Chemistry Utilizing Spectroscopy”
   Teruki Sugiyama
9. The 64th JSAP Spring Meeting, 2016 (The Japan Society of Applied Physics), Invited
   Yokohama, Japan, March 14, 2017
   “Assembly formation dynamics of nanoparticles based on interplay of optical trapping and light propagation/light scattering”
   Tetsuhiro Kudo
10. Symposium on Surface Science & Nanotechnology -25th Anniversary of SSSJ Kansai- (SSSN-Kansai), invited
    Kyoto, Japan, January 25, 2017
    ”Nanoparticle assembling and molecular crystallization at solution surface by laser trapping”
    Teruki Sugiyama
11. 9th Asian and Oceanian Photochemistry Conference (APC2016), invited
    Singapore, Singapore, December 8, 2016
    ”Laser Trapping-Induced Crystallization: From Amino Acid to Protein”
    Teruki Sugiyama
12. 1st International Symposium on PhotoSynergetics, Invited
    Osaka, Japan, June 2, 2016
    “What to expect from this research group: Laser Trapping Chemistry”,
    Hiroshi Masuhara
13. Public Lecture at Universiti Brunei Darussalam, Invited
    Brunei, May 19, 2016
    “Photon Science & Technology and Molecular Systems (1)”
    Hiroshi Masuhara
14. 251th National ACS Meeting, Physical Principles in Functional Nanoscience: Symposium in Honor of Mostafa A. El-Sayed, Invited
    San Diego, USA, March 16, 2016
    “Laser Trapping Assembling and Crystallization of Nanoparticles at Solution Surface”
    Hiroshi Masuhara, Ken-ichi Yuyama, Masayasu Muramatsu, Teruki Sugiyama
15. Invited Seminar at Katholieke Universiteit Leuven
    Leuven, Belgium, September 13, 2016
    “Advances in Laser Trapping Chemistry and Spectroscopy”

Hiroshi Masuhara

16. France-Japan Bilateral Workshop; Toward an international laboratory between France & Japan on Photochemistry, Invited
    Tokyo, Japan, April 1, 2016
    “Laser Trapping Chemistry”
    Hiroshi Masuhara
17. International Conference on Materials for the Millennium, Invited
    Kochi, India, January 15, 2016
    “Photoluminescence Enhancement and Spectral Fluctuations of CdSe/ZnS Quantum Dots in Solutions and at Interfaces: From Single-molecule Studies to the Construction of Self-assembled Nanostructures”
    Morihiko Hamada, Ken-ichi Yuyama, Hiroshi Masuhara, Shinsuke Nakanishi, Vasudevan Pillai Biju
18. International Conference on Photochemistry (ICP2015), Invited
    Jeju, Korea, July 1, 2015
    “Laser Trapping Dynamics and Mechanism of Molecular Clusters and Nanoparticles in Solution”
    Hiroshi Masuhara, TerukiSugiyama, Ken-ichiYuyama, Jing-Ru Tu, Shun-Fa Wang, Shimpei Nishimura
19. 2nd International Symposium on Plant Environmental Sensing, Invited
    Tokyo, Japan, March 15, 2015
    “Laser-induced Phenomena and Their Applications to Bio/Nano Science”
    Hiroshi Masuhara
20. 18th Osaka City University International Conference (OCUIC 2015), Invited
    Osaka, Japan, March 9, 2015
    ”Control of protein crystallization using laser trapping”
    Teruki Sugiyama
21. JSPS Grant - in - Aid for Scientific Research on Innovative Areas: " Application of Cooperative-Excitation into Innovative Molecular Systems with High-Order Photofunctions " The 2nd International Symposium, Invited
    Osaka, Japan, January 23, 2015
    “Photon Science & Technology and Photochemistry”
    Hiroshi Masuhara
22. The 10th SPSJ International Polymer Conference (IPC2014),

Keynote
Tsukuba, Japan, December 2, 2014
“Photon Science& Technology and Polymers”
Hiroshi Masuhara

23. The 1st International Symposium on Interactive Materials Science Cadet Program of Graduate School of Engineering Science, Keynote
Osaka, Japan, November 19, 2014
“Laser Trapping Assembling Dynamics of Molecules and Nanoparticles”
Hiroshi Masuhara

24. Collaborative Conference on Crystal Growth 2014, Invited
Phuket, Thailand, November 5, 2014
”Crystallization and crystal growth of lysozyme induced by laser trapping”
Teruki Sugiyama

25. Collaborative Conference on Crystal Growth 2014, Invited
Phuket, Thailand, November 4-7, 2014
“Control of Crystal Growth of L-Phenylalanine by Optical Trapping”
Ken-ichi Yuyama

26. Invited Seminar at Georgia Institute of Technology
Atlanta, USA, October 23, 2014
“Laser Trapping Assembling Dynamics of Molecules and Nanoparticles”
Hiroshi Masuhara

27. Invited Seminar at Ecole Normale Superier Cachan
Cachan, France, September 23, 2014
“Laser Trapping Assembling Dynamics of Molecules and Nanoparticles”
Hiroshi Masuhara

28. Puli Lecture at National Chi Nan University, Invited
Puli, Taiwan, June 20, 2014
“New Chemistry by Laser Trapping”
Hiroshi Masuhara

29. The Second RIKEN-NCTU Symposium on Physical and Chemical Sciences, Invited
Wako, Japan, June 5, 2014
“Laser trapping study toward molecular science”
Hiroshi Masuhara

30. 1st Optical Manipulation Conference (OMC'14), Optical manipulation

and its satellite topics, Plenary
Yokohama, Japan, April 22, 2014
“Laser Trapping Assembling of Clusters and Nanoparticles”
Hiroshi Masuhara

31. Invited Seminar at at Chiba University
Chiba, Japan, April 21, 2014
“Laser trapping-induced phase transition of molecules, polymers, and nanoparticles in solution”
Hiroshi Masuhara, Teruki Sugiyama, Ken-ichi Yuyama

32. Invited Seminar at Rice University,
Houston, USA, February 3, 2014
“Laser trapping dynamics of molecular clusters and nanoparticles in solution”
Hiroshi Masuhara, T. Sugiyama, K. Yuyama, A. Usman

33. SPIE Photonics West (8983-19), Plenary
San Francisco, USA, February 4, 2014
“Laser trapping studies toward fabrication of organic materials and devices”
Hiroshi Masuhara, T. Sugiyama, K. Yuyama, A. Usman

34. Symposium on Functional Nanostructures/Symposium Honoring the 60th Birthday of Prof. Thomas W. Ebbesen, Invited
Strasbourg, France, January 31, 2014
“Laser trapping, assembling and crystallization of nanoparticles and amino acid clusters in solution”
Hiroshi Masuhara

35. JSPS Grant - in - Aid for Scientific Research on Innovative Areas: "Dynamical ordering of biomolecular systems for creation of integrated functions" The 2nd International Symposium, Invited
Kyoto, Japan, January 12, 2014
“A millimeter-sized assembly of amino acids in solution formed by laser trapping”
Hiroshi Masuhara

36. CNRS Bronze Medal Scientific Symposium, Invited
Lille, France, November 5, 2013
“Laser Trapping in Chemistry and Material Science”
Hiroshi Masuhara

37. The First MPI-NCTU Joint Symposium on Correlated Materials, Thin Films and Chemical Physics of Solid, Invited
Hsinchu, Taiwan

"Laser Trapping and Crystallization Dynamics at Solution Interface/Surface"
Hiroshi Masuhara, Teruki Sugiyama, Ken-ichi Yuyama

38. Invited Seminar at Katholieke Universiteit Leuven
Leuven, Belgium, September 17, 2013
"Laser Trapping and Crystallization Dynamics at Solution Surface and Interface"
Hiroshi Masuhara

39. 2013 Fall Symposium of Photochemistry Association in Taiwan, Keynote
Danshui, Taiwan, September 6, 2013
"Cooperative Photochemical Reaction of Molecular Solids and Its Evolution to Their Morphological Changes"
Hiroshi Masuhara

40. 2013 SPIE Optics+Photonics Conference 8810 Optical Trapping and Optical Manipulation X, Oral
San Diego, USA, August 29, 2013
"Femtosecond Optical Trapping of Dielectric Nanospheres: Three Dimensional Mapping of Their Directional Ejection"
Wei-Yi Chiang, Anwar Usman, Hiroshi Masuhara

41. Invited seminar at Toyo University
Kawagoe and Itakura, Japan, July 4, 2013
"In situ laser micropatterning of proteins for dynamically arranging living cells"
Kazunori Okano

42. 5th International Symposium on Optical Tweezers in Life Sciences, Invited
Berlin, Germany, June 18, 2013
"Laser Trapping and Crystallization Dynamics of Biomolecules and Nanoparticles"
Hiroshi Masuhara

43. 11th International Symposium on Functional π-electron systems, Invited
Arcachon, France, June 2, 2013
"Laser Trapping in Chemistry and Materials Science"
Hiroshi Masuhara

44. Organic Electronics Summer School, Invited
Biarritz, France, May 28, 2013
"Laser fabrication and single particle spectroscopy of organic

nanoparticles”
Hiroshi Masuhara

45. Invited Seminar at Department of Chemistry, National Taiwan University,
Taipei, Taiwan, May 9, 2013
“Laser Trapping in Chemistry and Material Science”
Hiroshi Masuhara

46. Invited Seminar at Department of Chemical Engineering, National Cheng Kung University
Tainan, Taiwan, 19 April 2013
“Laser Trapping in Chemistry and Material Science”
Hiroshi Masuhara

47. 5th European Conference on Applications of Femtosecond Lasers in Materials Science (FemtoMat 2013), Invited
Mauterndorf, Austria, March 18, 2013
“Laser Trapping Assembly, Scattering, and Crystallization by CW and Femtosecond Lasers”
Hiroshi Masuhara, Teruki Sugiyama, Ken-ichi Yuyama, and Anwar Usman

48. Annual Meeting of Physical Society of Republic of China, Invited
Hualien, Taiwan, January 31, 2013
“Optical Trapping of Nanoparticles by Femtosecond Laser Pulses”
Hiroshi Masuhara

49. Invited Seminar at National Dong Hwa University
Hualien, Taiwan, December 18, 2012
“Laser assembling, scattering, and crystallization of nanoparticles and molecules in solution”
Hiroshi Masuhara

50. Japan-India Bilateral Seminar on Supramolecular Nanomaterials for Energy Innovation, Invited
Takamatsu, Japan, October 15-16, 2012
“Laser Trapping Chemistry”
Hiroshi Masuhara, T. Sugiyama, K. Yuyama, A. Usman, and W. Y. Chiang

51. RCAS-TNNA Symposium, Invited
Taipei, Taiwan, October 5, 2012
“Laser trapping chemistry: From polymer assembling to amino acid crystallization”
Hiroshi Masuhara, Teruki Sugiyama, Ken-ichi Yuyama

52. Department Seminar at National Yang Ming University, Invited
Taipei, Taiwan, October, 1 2012
"Laser trapping chemistry: From polymer assembling to amino acid crystallization"
Hiroshi Masuhara
53. XXIV IUPAC Symposium on Photochemistry, Oral
Coimbra, Portugal, July 15, 2012
"Laser trapping crystallization of glycine and its polymorph control"
Hiroshi Masuhara, Teruki Sugiyama, Ken-ichi Yuyama
54. Solvay Colloquium at Universrsité Libre de Bruruxelles, Invited
Brussels, Belgium, May 8, 2012
"Laser light can crystallize amino acids and proteins in solution"
Hiroshi Masuhara
55. 3rd AIST-ANNA Seminar on Nanoparticles & Single Molecules, Invited
Takamatsu, Japan, February 17, 2012
"Laser Trapping Chemistry on Nanoparticle Assembling and Phase Transition"
Hiroshi Masuhara
56. RCAS-ANNA International Symposium, Invited
Taipei, Taiwan, November 17, 2011
"Molecular Trapping Phenomena by CW and Femtosecond Laser Irradiation"
Hiroshi Masuhara, T. Uwada, A. Usman, K. Yuyama, T. Sugiyama
57. International Scientific Instrument Technology Workshop, Invited
Hsinchu, Taiwan, October 24, 2011
"Femtosecond Laser Fabrication and Manipulation in Bio/Nano Science"
Hiroshi Masuhara
58. The 2nd International Symposium on Recent Advances in Applied Sciences, Invited
Hualien, Taiwan, October 3, 2011
"Radiation pressure chemistry: Confinement of polymerization and solidification by a focused laser beam"
Hiroshi Masuhara
59. 242nd ACS National Meeting & Exposition, Invited
Denver, USA, August 30, 2011
"Assembling and crystallization of amino acids and proteins by intense laser irradiation in solution"

Hiroshi Masuhara, Teruki Sugiyama, Ken-ichi Yuyama, Takayuki Uwada, and Atsushi Miura

60. The 25th International Conference on Photochemistry, Invited
Beijing, P. R. China, August 7-12, 2011
“Laser trapping dynamics of gold nanoparticles probed by wide-field light scattering spectroscopic imaging”
Hiroshi Masuhara, Takayuki Uwada, Teruki Sugiyama

61. International Workshop on Nanoplasmonics for Energy and the Environment, Invited
Vigo, Spain, June 10, 2011
“Laser trapping and wide-field Rayleigh scattering imaging of gold nanoparticles in solution”
Hiroshi Masuhara, Takayuki Uwada

62. Invited Seminar at Ecole Normale Superier Paris
Paris, France, June 6, 2011
“Laser-induced Crystallization and Crystal Growth”
Hiroshi Masuhara

63. The 2nd Taiwan-Japan Symposium on Nanomedicine, Invited
Taipei, Taiwan, February 24, 2011
“Living cell manipulation, nanoparticle preparation, and molecular crystallization by lasers”
Hiroshi Masuhara

64. Japan-Taiwan joint workshop: Future Perspective on NanoBio Science Pioneered by Light, Invited
Hsinchu, Taiwan, October 2011
"Tightly focused laser induced trapping, migration, assembling, and fabrication of gold nanoparticles under optical microscope"
Takayuki Uwada

65. 2011 台灣光化學小組研討會議, Invited
Taipei, Taiwan, September 2011
"聚焦雷射誘發結晶和奈米粒子的形成"
Takayuki Uwada

66. 6th Asian Photochemistry Conference, Award Lecture
Auckland, New Zealand, November 15, 2010
“An exploratory study with lasers: From nanosecond laser photolysis to laser trapping crystallization”
Hiroshi Masuhara

67. 3rd Nanotechnology International Forum, Invited
Moscow, Russia, November 1-3. 2010

Laser Nanoscience and Nanotechnology in View of Materials
Hiroshi Masuhara

68. International Scientific Instrument Technology Workshop
Instrument Technology Research Center, National Applied Research Laboratories
Hsinchu, Taiwan, October 25, 2010
"Laser Fabrication and Microspectroscopy of Organic Nanoparticles"
Hiroshi Masuhara

69. 2010 The International Conference on Green Technologies, Keynote
Pingtung, Taiwan, October 6, 2010
"Laser and Organic Nanoparticles: From Nano to Real Worlds"
Hiroshi Masuhara

70. Third Asia Pacific Symposium on Radiation Chemistry (APSRC 2010) and DAE-BRNS Tenth Biennial Trombay Symposium on Radiation & Photochemistry (TSRP2010), Invited
Lonavala, India, September 15, 2010
"Laser is opening a new horizon in molecular crystallization studies"
Hiroshi Masuhara and Teruki Sugiyama

71. XXIII IUPAC Symposium on Photochemistry, Invited
Ferrara, Italy, July 14, 2010
"Laser trapping crystallization dynamics at surface and interface: glycine and nanoparticle solutions"
Hiroshi Masuhara, Teruki Sugiyama, Thitiporn Rungsimanon, Ken-ichi Yuyama, Takayuki Uwada, and Atsushi Miura

72. Invited Seminar at National Synchrotron Radiation Research Center
Hsinchu, Taiwan, June 22, 2010
"Laser Fabrication of Molecular Nanoparticles and Nanocrystals"
Hiroshi Masuhara

73. Invited Seminar at Instrument Technology Research Center
Hsinchu, Taiwan, June 10, 2010
"Exploration with Lasers into New Areas of Molecular Photoscience"
Hiroshi Masuhara

74. The 3rd Taiwan-Japan Joint Symposium on Organized Nanomaterials and Nanostructures Related to Photoscience, Oral
Taroko, Hualien, Taiwan, March 23, 2010
"Laser trapping crystallization and polymorph control of glycine in solution"
Hiroshi Masuhara, Thitiporn Rungsimanon, Ken-chi Yuyama, and Teruki Sugiyama

75. The 4th Yamada Conference on Advanced Photon and Science Evolution, Invited
Ibaraki, Osaka, Japan, June 3, 2010
"Molecular Nano Fabrication and Crystallization by Lasers"
Hiroshi Masuhara
76. Invited Seminar at Indian Institute of Technology Bombay,
Mumbai, India, February 2, 2010,
"Laser and Organic Nanoparticles"
Hiroshi Masuhara
77. M L Sircar Lecture at Indian Association for the Cultivation of Science, Invited
Kolkata, India, February 3, 2010
"Exploratory Research in Photoscience: Laser Tsunami Manipulation of Single Living Cells and Laser Trapping Crystallization of Molecules"
Hiroshi Masuhara
78. Invited Seminar at University of Hyderabad
Hyderabad, India, 2010, February 6, 2010
"Laser-induced Crystallization and Related Phenomena of Glycine and Proteins in Solution"
Hiroshi Masuhara
79. The Raman-Mizushima Lecture in the Annual Meeting of Chemical Research Society of India, Award Lecture
Hyderabad, India, 2010, February 7, 2010
"Laser and Organic Nanoparticles"
Hiroshi Masuhara
80. Invited Lecture at Tata Institute of Fundamental Research
Mumbai, India, 2010, February 8, 2010
"Laser and Organic Nanoparticles"
Hiroshi Masuhara
81. Invited Lecture at Bhabha Atomic Research Centre
Mumbai, India, 2010, February 9, 2010
"Exploration with Lasers into New Areas of Molecular Photoscience"
Hiroshi Masuhara
82. 11th Japan-Belgium Symposium on Polymer Science, Invited
Tokyo, Japan, November 10, 2009
"Laser-induced crystallization and crystal growth of amino acids and proteins in solution"
Hiroshi Masuhara, Teruki Sugiyama, Ken-ichi Yuyama, Thitiporn

Rungsimanon, Atsushi Miura, Takayuki Uwada, and Anwar Usman

83. Invited Seminar at ISIS, CNRS et Universite Strasburg
Strasburg, France, December 16, 2009
"Laser–induced Crystallization and Related Phenomena of Glycine and Protein in Solution"
Hiroshi Masuhara, Teruki Sugiyama, Kenichi Yuyama, Thitiporn Rungsimanon, Atsushi Miura, Takayuki Uwada

84. 2009 RCAS Taiwan-Japan Workshop on Single Molecule/Confocal Microscopy, Invited
Taipei, Taiwan, October 15, 2009
"Spectroscopy, Photochemistry, and Fabrication of Single Nanocrystals"
Hiroshi Masuhara

85. Wazapalooza: Mike Wasielewski's 60th Birthday Symposium, Invited
Evanston, USA, September 25-26, 2009
"Laser–induced Crystallization and Crystal Growth: Exploration with Lasers into New Areas of Molecular Photoscience"
Hiroshi Masuhara

86. International Conference on Organic Photonics and Electronics 2009 (ICOPE2009) & The 11th International Conference on Organic Nonlinear Optics (ICONO 11), Plenary
Beijing, P. R. China, September 21, 2009
"Spectroscopic and imaging study on laser trapping dynamics and crystallization of amino acids and proteins in solution"
Hiroshi Masuhara, Teruki Sugiyama, Ken-ichi Yuyama, Thitiporn Rungsimanon, Takayuki Uwada, and Atsushi Miura

87. XXIV International Conference on Photochemistry (ICP 2009), Invited
Toledo, Spain, July 21, 2009
"Crystallization and crystal growth of amino acids in solution by photon pressure of a focused cw near-infrared laser beam"
Hiroshi Masuhara, Teruki Sugiyama, Kenichi Yuyama, and Thitiporn Rungsimanon

88. Laser and Organic Nanoparticles" International Conference Organic nanophotonics (ICON2009), Plenary
St. Petersburg, Russia, June 22, 2009
"Laser and Organic Nanoparticles"
Hiroshi Masuhara, Teruki Sugiyama, Kenichi Yuyama, Thitiporn Rungsimanon, Atsushi Miura, and Takayuki Uwada

89. Spring Annual Meeting of the Korean Chemical Society, Invited
A Special Symposium of Physical Chemistry Division “Physical Chemistry for Biological Application”
Seoul, Korea, April 17, 2009
“Femtosecond “Laser Tsunami” Manipulation for Single Living Cells in Solution”
Hiroshi Masuhara
90. Invited Seminar at Korea Advanced Institute of Science and Technology
Korea, April 20, 2009
“Laser Trapping Dynamics and Crystallization of Molecules in Solution”
Hiroshi Masuhara, Teruki Sugiyama
91. Asian Academic Seminar 2009, Invited
KAST, Kawasaki, March 2-7, 2009
“Laser Trapping Spectroscopy and Crystallization in Solution”
Hiroshi Masuhara
92. The 1st NCTU-NAIST workshop on Molecular/Nano Science, Invited
Hsinchu, Taiwan, November 2009
"Development of Rayleigh scattering microspectroscopy and its application to particle diffusion/assembling dynamics study"
Takayuki Uwada
93. The 8th GIST/NAIST Joint Symposium on Advanced Materials, Invited
Ikoma, Japan, November 26, 2008
“Dynamics, mechanism, and application of laser ablation of molecular and bio systems”
Hiroshi Masuhara, Yoichiroh Hosokawa, Teruki Sugiyama, and Kazunori Okano
94. The 2nd Japan-Taiwan Joint Symposium on Organized Nanomaterials and Nanostructures Related to Photoscience, Invited
Kyoto, Japan, November 5, 2008
“Laser tsunami crystallization and laser trapping crystallization: a challenge for molecular materials”
Hiroshi Masuhara, Yoichiroh Hosokawa, Teruki Sugiyama, Atsushi Miura, and Takayuki Uwada
95. The 3rd BK21 International Symposium on Materials Chemistry, Invited
Busan, Korea, October 20, 2008

“Spectroscopy and Imaging of Single Nanoparticles”
Hiroshi Masuhara

96. Symposium on Organic Micro- and Nano-Crystals (as a satellite meeting of IUCr 2008), Invited
Sendai, Japan, August 22, 2008
“Spectroscopy and laser fabrication of single organic nano crystals”
Hiroshi Masuhara, Tsuyoshi Asahi, and Teruki Sugiyama

97. Invited Lecture at Samsung Electronics Co. Ltd.
Korea, August 18, 2008
“Photophysical/chemical Processes and Recent Topics on Nano Fabrication and Patterning”
Hiroshi Masuhara

98. SPIE Optics+Photonics 2008, Invited
San Diego, USA, August 12, 2008
“Molecular assembling and crystallization in solution by photon pressure of a focused cw laser beam”
Hiroshi Masuhara, Teruki Sugiyama, Hiroyuki Yoshikawa, Yu Nabetani, and Takuji Adachi

99. IUPAC Symposium on Photochemistry, Oral
Gothenburg, 2008 July 29
“Protein Crystallization by Femtosecond Laser Ablation in Supersaturated Solution”
Hiroshi Masuhara

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Dual Degree Defense Meeting of National Chiao Tung University (Taiwan) and Katholieke Univerisitei Leuven (Belgium) for Dr. Wei-Yi Chiang in Room 522 SBII on November 21, 2017.
Profs. Y.-P. Lee, J. Hofkens, M. Roeffaers, A. Usman, T. Sugiyama, Y. Teranishi, Hsin-Yu Hsu, and H. Masuhara were its Committee Members.

Chair Professor Hiroshi MASUHARA
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