YOUSOO KIM

Curriculum Vitae

Lab Address

Surface and Interface Science Laboratory, RIKEN,
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Current Positions

Chief Scientist
Director of Surface and Interface Science Laboratory, RIKEN

Adjunct Professor, Dept. Electronic Chemistry, Tokyo Institute of Technology
Adjunct Professor, Div. of Materials Science, Saitama University
Adjunct Professor, Dept. Applied Chemistry, Kyushu University
Adjunct Professor, Dept. Chemistry, GIST (Gwangju Institute of Science and Technology)

Education

1987-1991 : Department of Chemistry, Seoul National University (B.S.)
1991-1993 : Department of Chemistry, Seoul National University (M.S.)
(Advisor; Professor Hasuck Kim)
Thesis Title: "Study on electrochemical behaviors of heteropolymolybdates whose heteroatom was substituted by transition metals "
1996-1999 : Department of Applied Chemistry, University of Tokyo (Dr. Eng,)
(Advisor; Professor Akira Fujishima)
Dissertation title: "Optical manipulation of fullerene-based materials"

Professional Positions

1999-2002: Special Postdoctoral Researcher, RIKEN
2002-2006: Research Scientist, RIKEN
2006-2009: Senior Research Scientist, RIKEN
2010-2015: Associate Chief Scientist, RIKEN
2015-Present: Chief Scientist, RIKEN

2008-Present: Adjunct Professor, Dept. Electronic Chem., Tokyo Institute of Tech.
2011-Present: Adjunct Professor, Div. of Materials Science, Saitama University
2017-Present: Adjunct Professor, Dept. Applied Chemistry, Kyusyu University

Awards and Honors

2003 Sep.: Publication Award (The Surface Science Society of Japan)
2008 Mar.: Young Scientist Award (The Physical Society of Japan)
2009 Mar.: Significant Achievement Award (S) (RIKEN)
2009 Nov.: Sir Martin Wood Prize (Millennium Science Forum)
2016 Sep.: International Academic Prize (Japan Society of Molecular Science)
2018 Apr.: Commendation for Science and Technology by the Minister of Education、Culture、Sports、Science and Technology (Ministry of Education、Culture、Sports、Science and Technology)

Professional Organizations

Japanese Chemical Society, member since 1997
(2013-2017, Steering committee member of Physical Chemistry Division)
Japanese Physical Society, member since 1999
(2010-2012, Steering committee member of Division 9, Surface and Interface)
The Surface Science Society of Japan, member since 2001
The Japan Society of Applied Physics, member since 2001
Japan Society of Molecular Science, member since 2003
The Korean Scientists and Engineers Association in Japan, member since 2004
(2009- present, Vice President)
Chair of RIKEN Scientist's Assembly Steering Committee (FY 2013)
Member of RIKEN Science Council, since 2015-
Steering Committee Member of RIKEN Science Council, since 2018-
Vice President of Chief Scientist Assembly, since 2018-

List of Publication (Full)

1. Real-space and real-time observation of a plasmon-induced chemical reaction of a single molecule, Emiko Kazuma, Jaehoon Jung, Hiromu Ueba, Michael Trenary, Yousoo Kim*, **Science** in press (2018).
2. Sulfur Atoms Adsorbed on Cu(100) at Low Coverage: Characterization and Stability against Complexation, Holly Walen, Da-Jiang Liu, Junepyo Oh, Hyun Jin Yang, Peter M. Spurgeon, Yousoo Kim, Patricia A. Thiel*, **J. Phys. Chem. B** 122 (2018) 963-971.
3. Evolution of Graphene Growth on Pt(111): From Carbon Clusters to Nanoislands, Hyo Won Kim*, Wonhee Ko, JiYeon Ku, Yousoo Kim, Seongjun Park, Sungwoo Hwang, **J. Phys. Chem. C** 121 (2017) 25074-25078.
4. Facet-Dependent Temporal and Spatial Changes in Boron-Doped Diamond Film Electrodes due to Anodic Corrosion, Francesca Celine Catalan, Norihiko Hayazawa, Yasuyuki Yokota, Raymond Wong, Takeshi Watanabe, Yasuaki Einaga, Yousoo Kim*, **J. Phys. Chem. C** 121 (2017) 26742-26750.
5. Surface Hydrogenation of Boron-Doped Diamond Electrodes by Ca-thodic Reduction, Seiji Kasahara, Keisuke Natsui, Takeshi Watanabe, Yasuyuki Yokota, Yousoo Kim, Shota Iizuka, Yoshitaka Tateyama, Yasuaki Einaga, **Anal. Chem.** 89 (2017) 11342-11347.
6. Long-distance excitation of nitrogen-vacancy centers in diamond via surface spin waves, Daisuke Kikuchi, Dwi Prananto, Kunitaka Hayashi, Abdelghani Laraoui, Norikazu Mizuochi, Mutsuko Hatano, Eiji Saitoh, Yousoo Kim, Carlos A. Meriles, Toshu An*, **Appl. Phys. Express** 10 (2017) 103004.
7. Nanoscale Dehydrogenation Observed by Tip-Enhanced Raman Spectroscopy, Songpol Chaunchaiyakul, Agung Setiadi, Pawel Krukowski, Francesca Celine Catalan, Megumi Akai-Kasaya, Akira Saito, Norihiko Hayazawa, Yousoo Kim, Hideji Osuga and Yuji Kuwahara*, **J. Phys. Chem. C** 121 (2017) 18162-18168.
8. Rapid photochemical synthesis of sea-urchin-shaped hierarchical porous COF-5 and its lithography-free patterned growth, Soyoung Kim, Chibeom Park, Minkyung Lee, Intek Song, Jungah Kim, Minhui Lee, Jaehoon Jung, Yousoo Kim, Hyunseob Lim*, Hee Cheul Choi*, **Adv. Funct. Mater.** 27 (2017) 1700925.
9. Single molecule investigation of energy dynamics in a coupled plasmon-exciton system, Hiroshi Imada, Kuniyuki Miwa, Miyabi Imai-Imada, Shota Kawahara, Kensuke Kimura and Yousoo Kim*, **Phys. Rev. Lett.** 119 (2017) 013901, 1-6.

10. Desorption of CO from individual ruthenium porphyrin molecules on a copper surface by inelastic tunnelling process, Takuma Omiya, Paolo Poli, Heike Arnolds, Rasmita Raval, Mats Persson and Yousoo Kim*, **Chem. Comm.** 53 (2017) 6148-6151.
11. A direct pathway to molecular photodissociation on metal surfaces using visible light, Emiko Kazuma, Jaehoon Jung, Hiromu Ueba, Michael Trenary, Yousoo Kim*, **J. Am. Chem. Soc.** 139 (2017) 3115-3121.
12. Chemically induced topological zero mode at graphenic armchair edges, Maxim Ziatdinov, Hyunseob Lim, Shintaro Fujii, Koichi Kusakabe, Manabu Kiguchi, Toshiaki Enoki and Yousoo Kim*, **Phys. Chem. Chem. Phys.** 19 (2017) 5145-5154.
13. A new analytical method for extracting precise structural parameters of epitaxial graphene from Moiré patterns, Hyunseob Lim, Hyun Jin Yang and Yousoo Kim*, **Adv. Mater. Interfaces** 3 (2016) 1600826.
14. Real-space investigation of energy transfer in heterogeneous molecular dimers, Hiroshi Imada, Kuniyuki Miwa, Miyabi Imai-Imada, Shota Kawahara, Kensuke Kimura and Yousoo Kim*, **Nature** 538 (2016) 364-367.
15. Single-molecule dynamics in the presence of strong intermolecular interactions, Hyun Jin Yang, Michael Trenary, Maki Kawai and Yousoo Kim*, **J. Phys. Chem. Lett.** 7 (2016) 4369-4373.
16. Orbital-selective single molecule excitation and spectroscopy based on plasmon-exciton coupling, Hiroshi Imada, Kuniyuki Miwa, Miyabi Imai-Imada, Shota Kawahara, Kensuke Kimura, Yousoo Kim*, **arXiv:**1609.02701 (2016).
17. Formation of two-dimensional copper selenide on Cu(111) at very low selenium coverages, Holly Walen, Da-Jiang Liu, Junepyo Oh, Hyun Jin Yang, Yousoo Kim, Patricia A. Thiel*, **Chem. Phys. Chem.** 17 (2016) 2137-2145.
18. Effects of molecule-insulator interaction on geometric property of a single phthalocyanine molecule adsorbed on an ultrathin NaCl film, Kuniyuki Miwa, Hiroshi Imada, Shota Kawahara, and Yousoo Kim*, **Phys. Rev. B**, 93 (2016) 165419, 1-9.
19. Direct visualization of surface phase of oxygen molecules physisorbed on Ag(111) surface: A two-dimensional quantum spin system, Shunji Yamamoto, Yasuo Yoshida*, Hiroshi Imada, Yousoo Kim, and Yukio Hasegawa, **Phys. Rev. B**, 93 (2016) 081408 (R), 1-5.
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21. Seamless growth of a supramolecular carpet, Ju-Hyung Kim, Jaehoon Jung*, Yu Seok Yang, Jean-Charles Ribierre, Chihaya Adachi, Maki Kawai, Takanori Fukushima*, and Yousoo Kim*, **Nature**

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22. Lateral hopping of CO on Ag(110) by multiple overtone excitation, Junepyo Oh, Hyunseob Lim, Ryuichi Arafune, Jaehoon Jung, Maki Kawai, and Yousoo Kim*, **Phys. Rev. Lett.** 116 (2016) 056101, 1-5.
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24. The role of thermal excitation in the tunneling-electron-induced reaction: Dissociation of dimethyl disulfide on Cu(111), Kenta Motobayashi, Yousoo Kim, Michiaki Ohara, Hiromu Ueba, and Maki Kawai*, **Surf. Sci.** 643 (2016) 18-22.
25. Template-free synthesis of a molecular Solomon link via two-component self-assembly, Young Ho Song, Nem Singh, Jaehoon Jung, Hyunuk Kim, Eun-Hee Kim, Hae-Kap Cheong, Yousoo Kim, and Ki-Whan Chi*, **Angew. Chem. Int. Ed.** 55 (2016) 2007-2011.
26. Structurally Driven One-dimensional Electron Confinement in Sub-5-nm Graphene Nanowrinkles, Hyunseob Lim, Jaehoon Jung*, Rodney S. Ruoff, and Yousoo Kim*, **Nature Commun.** 6 (2015) 8601, 1-6.
27. Elucidation of isomerization pathways of a single azobenzene derivative using an STM, Emiko Kazuma, Mina Han, Jaehoon Jung, Junepyo Oh, Takahiro Seki, and Yousoo Kim*, **J. Phys. Chem. Lett.** 6 (2015) 4239-4243.
28. Long-range displacive reconstruction of Au(110) triggered by low coverage of sulfur, Holly Walen, Da-Jiang Liu, Junepyo Oh, Hyun Jin Yang, Yousoo Kim and P. A. Thiel*, **J. Phys. Chem. C** 119 (2015) 21000-21010.
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35. Reconstruction of steps on the Cu(111) surface induced by sulfur, Holly Walen, Da-Jiang Liu, Junepyo Oh, Hyunseob Lim, J. W. Evans, Yousoo Kim and P. A. Thiel*, **J. Chem. Phys.** 142 (2015) 053111, 1-14.

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38. Cu2S3 complex on Cu(111) as a dandidate for mass transport enhancement, Holly Walen, Da-Jiang Liu, Junepyo Oh, Hyunseob Lim, James W. Evans, Christine Aikens, Yousoo Kim, and Patricia A. Thiel*, **Phys. Rev. B** 91 (2015) 045426, 1-7.

39. Adsorption of water dimer on platinum(111): identification of the -OH···Pt hydrogen bond, Kenta Motobayashi, Líney Árnadóttir, Chikako Matsumoto, Eric M. Stuve, Hannes Jónsson, Yousoo Kim, and Maki Kawai*, **ACS Nano** 8 (2014) 11583-11590.

40. Supramolecular assembly via interactions between molecular dipoles and alkali metal ions, T. K. Shimizu, J. Jung, H. Imada, and Yousoo Kim*, **Angew. Chem. Int. Ed.** 126 (2014) 13949-13953.

41. Controlling orbital-selective Kondo effects in a single molecule through coordination chemistry, Noriyuki Tsukahara, Emi Minamitani, Yousoo Kim, Maki Kawai, and Noriaki Takagi*, **J. Chem. Phys.** 141 (2014) 054702, 1-9.

42. A search for the structure of a sulfur-induced reconstruction on Cu(111), Da-Jiang Liu, Holly Walen, Junepyo Oh, Hyunseob Lim, James W. Evans, Yousoo Kim, and Patricia A. Thiel*, **J. Phys. Chem. C** 118 (2014) 29218-29223.

43. Controlling dissociation reaction of a water molecule on ultrathin MgO film, Jaehoon Jung, Hyung-Joon Shin, Maki Kawai, and Yousoo Kim*, **J. Surf. Sci. Soc. Jpn.** 35 (2014) 486-491.

44. Surface hydrogenation reactions at the single-molecule level, Satoshi Katano, Yousoo Kim, Maki Kawai, and Michael Trenary*, **Chem. Rec.** 14 (2014) 819-826.

45. Site-dependent electronic structures of a single molecule on a metal surface studied by scanning tunneling microscopy and spectroscopy, Satoshi Katano, Masafumi Hori, Yousoo Kim, and Maki Kawai, **Chem. Phys. Lett.** 614 (2014) 117-122.

46. Thermally activated polymorphic transition from 1D ribbon to 2D carpet: squaric acid on Au(111), Kan Ueji (§), Jaehoon Jung (§), Junepyo Oh, Kazuo Miyamura, and Yousoo Kim*, **Chem. Commun.** 50 (2014) 11230-11233. [(§) These authors contributed equally to this work.]

47. Functionalization of graphene grown on metal substrate with atomic oxygen: enolate vs epoxide, Jaehoon Jung, Hyunseob Lim, Junepyo Oh, and Yousoo Kim*, **J. Am. Chem. Soc.** 136 (2014) 8528-8531.

48. Dissociation pathways of a single dimethyl disulfide on Cu(111): reaction induced by simultaneous excitation of two vibrational modes, Kenta Motobayashi, Yousoo Kim, Ryuichi Arafune, Michiaki Ohara, Hiromu Ueba, and Maki Kawai*, **J. Chem. Phys.** 140 (2014) 194705, 1-8.

49. Surface morphology of atomic nitrogen on Pt(111), Zhu Liang, Hyun Jin Yang, Yousoo Kim*, and Michael Trenary*, **J. Chem. Phys.** 140 (2014) 114707, 1-6.

50. Direct observation of adsorption geometry for the van der Waals adsorption of a single π-conjugated hydrocarbon molecule on Au(111), Ju-Hyung Kim, Jaehoon Jung, Kazukuni Tahara, Yoshito Tobe, Yousoo Kim*, and Maki Kawai*, **J. Chem. Phys.** 140 (2014) 074709, 1-5. [Cover Article]

51. Lattice-contraction-induced Moiré patterns in direction-controlled epitaxial graphene on Cu(111), Hyunseob Lim, Jaehoon Jung, Hyun Jin Yang, and Yousoo Kim*, **Adv. Mater. Interfaces** 1 (2014) 1300080, 1-5.

52. Mode-selective electron-phonon coupling in laser photoemission on Cu(110), Emi Minamitani, Ryuichi Arafune, Mayuko Q. Yamamoto, Noriaki Takagi, Maki Kawai, and Yousoo Kim*, **Phys. Rev. B, 88** (2013) 224301, 1-7.

53. Comprehensive macroscopic investigation on hexagonal C14 Laves-type Ru-based superconductors ARu2 (A = Lu, Y, Sc) with effective electron correlation, Seiji Niitaka*, Emi Minamitani, Yousoo Kim, Hidenori Takagi, and Kimitoshi Kono, **J. Phys. Soc. Jpn. 82** (2013) 124703, 1-10.

54. Molecular assembly through the chain reaction of substituted acenes on the Si(100)-(2×1)-H surface, Md. Zakir Hossain, Hiroyuki S. Kato, Jaehoon Jung, Yousoo Kim, and Maki Kawai*, **J. Phys. Chem. C 117** (2013) 19436-19441.

55. Impact of lithium-ion ordering on surface electronic states of LixCoO2, Katsuya Iwaya, Takafumi Ogawa, Taketoshi Minato, Kiyotaka Miyoshi, Jun Takeuchi, Akihide Kuwabara, Hiroki Moriwake, Yousoo Kim, and Taro Hitosugi*, **Phys. Rev. Lett. 111** (2013) 126104, 1-5.

56. Selective aerobic oxidation of methanol in the coexistence of amines by nanoporous gold catalysts: Highly efficient synthesis of formamides, Shinya Tanaka, Taketoshi Minato, Eisuke Ito, Masahiko Hara, Yousoo Kim, Yoshinori Yamamoto, and Naoki Asao*, **Chem. Eur. J. 19 (2013)** 11832-11836. [Frontspecies Cover Article]

57. Adsorption-induced stability reversal of photochromic diarylethene on metal surfaces, Tomoko K. Shimizu, Jaehoon Jung, Hiroshi Imada, and Yousoo Kim*, **Chem. Commun. 49 (2013)** 8710-8712..

58. Molecular oxygen network as a template for adsorption of ammonia on Pt(111), Zhu Liang, Hyo Won Kim, Yousoo Kim*, and Michael Trenary*, **J. Phys. Chem. Lett. 4 (2013)** 2900-2905.

59. STM investigation of CO ordering on Pt(111): from an isolated molecule to high-coverage superstructure, Hyun Jin Yang, Taketoshi Minato, Maki Kawai, and Yousoo Kim*, **J. Phys. Chem. C 117 (2013)** 16429-16437.

60. Tailoring electronic states of a single molecule using adamantane-based molecular tripods, Satoshi Katano, Yousoo Kim, Toshikazu Kitagawa, and Maki Kawai*, **Phys. Chem. Chem. Phys. 15 (2013)** 14229-14233.

61. Photoresponse on the desorption of an atomic hydrogen on titanium dioxide surface induced by a tip of scanning tunneling microscope, Taketoshi Minato, Naoki Asao, Yoshinori Yamamoto, Maki Kawai, and Yousoo Kim*, **Chem. Lett. 42 (2013)** 942-943.

62. Orbital-selective single molecule reactions on a metal surface studied by low-temperature scanning tunneling microscopy, Satoshi Katano, Yousoo Kim, Michael Trenary, and Maki Kawai*, **Chem. Commun. 49 (2013)** 4679.

63. Dispersive electronic states of the π-orbitals stacking in single molecular lines on the Si(001)-(2×1)-H surface, Shin-ichi Kamakura, Jaehoon Jung, Taketoshi Minato, Yousoo Kim, Md. Zakir Hossain, Hiroyuki S. Kato, Toshiaki Munakata, and Maki Kawai*, **J. Phys. Chem. Lett. 4 (2013)** 1199.

64. Substrate-induced symmetry breaking in silicene, Chun-Liang Lin, Ryuichi Arafune, Kazuaki Kawahara, Mao Kanno, Noriyuki Tsukahara, Emi Minamitani, Yousoo Kim, Maki Kawai, and

Noriaki Takagi*, **Phys. Rev. Lett. 110 (2013)** 076801.

65. Structure, formation, and equilibration of ensembles of Ag-S complexes on an Ag surface, Selena Russell, Yousoo Kim, Da-Jiang Liu, James Evans, and Patricia A. Thiel*, **J. Chem. Phys. 183 (2013)** 071101. [Cover Article].

66. Spectral fitting of action spectra for motions and reactions of single molecules on metal surfaces, Kenta Motobayashi, Satoshi Katano, Yousoo Kim, and Maki Kawai*, **Bull. Chem. Soc. Jpn. 86 (2013)** 75-79.

67. Structural transition of silicene on Ag(111), Ryuichi Arafune, Chun-Liang Lin, Kazuyuki Kawahara, Noriyuki Tsukahara, Emi Minamitani, Yousoo Kim, Noriaki Takagi, and Maki Kawai*, **Surf. Sci. 608 (2013)** 297-300.

68. Combined scanning tunneling microscopy and high-resolution electron energy loss spectroscopy study on the adsorption state of CO on Ag(001), Ryuichi Arafune, Hyung-Joon Shin, Jaehoon Jung, Emi Minamitani, Noriaki Takagi, Yousoo Kim, and Maki Kawai*, **Langmuir 28 (2012)** 13249-13252.

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70. Ordering of molecules with π-conjugated triangular core by switching hydrogen bonding and van der Waals interactions, Ju-Hyung Kim, Kazukuni Tahara, Jaehoon Jung, Steven De Feyter, Yoshito Tobe*, Yousoo Kim*, and Maki Kawai*, **J. Phys. Chem. C 116 (2012)** 17082-17088.

71. Symmetry-driven novel Kondo effect in a molecule, Emi Minamitani, Noriyuki Tsukahara, Daisuke Matsunaka, Yousoo Kim, Noriaki Takagi, and Maki Kawai*, **Phys. Rev. Lett. 109 (2012)** 086602, 1-5.

72. Ligand field effect at oxide-metal interface on the chemical reactivity of ultrathin oxide film surface, Jaehoon Jung, Hyung-Joon Shin, Yousoo Kim*, and Maki Kawai*, **J. Am. Chem. Soc. 134 (2012)** 10554–10561.

73. Creation of single oxygen vacancy on titanium dioxide surface, Taketoshi Minato, Maki Kawai, and Yousoo Kim*, **J. Mater. Res. 27 (2012)** 2237-2240.

74. Structure of silicene grown on Ag(111), Chun-Liang Lin, Ryuichi Arafune, Kazuaki Kawahara, Noriyuki Tsukahara, Emi Minamitani, Yousoo Kim, Noriaki Takagi, and Maki Kawai*, **Appl. Phys. Express 5 (2012)** 045802.

75. Density functional theory calculation for magnetism of Fe-Phthalocyanine molecules on Au(111), Emi Minamitani, Daisuke Matsunaka, Noriyuki Tsukahara, Noriaki Takagi, Maki Kawai, and Yousoo

Kim*, **e-J. Surf. Sci. Nanotech., 10 (2012)** 38-44.

76. Two dimensional superstructure formation of fluorinated fullerene on Au(111): A scanning tunneling microscopy study, Tomoko K. Shimizu (§), Jaehoon Jung (§), Tetsuya Otani, Young-Kyu Han, Maki Kawai, and Yousoo Kim*, **ACS Nano, 6 (2012)** 2679-2685. [(§) equally contributing authors]
77. Aerobic oxidation of alcohols in the liquid phase with nanoporous gold catalysts, Naoki Asao*, Naoya Hatakeyama, Menggenbateer, Taketoshi Minato, Eisuke Ito, Masahiko Hara, Yousoo Kim, Yoshinori Yamamoto, Mingwei Chen, Wei Zhang, and Akihisa Inoue, **Chem. Commun. 48 (2012)** 4540-4542.
78. Step-edge faceting and local metallization of a single-wall semiconducting carbon nanotube, Sylvain Clair, Yousoo Kim*, and Maki Kawai*, **J. Appl. Phys. 110 (2011)** 073710, 1-4.
79. Coexistence and interconversion of di-σ and π-bonded ethylene on the Pt(111) and Pd(110) surfaces, Tomonari Okada, Yousoo Kim, Yasuyuki Sainoo, Tadahiro Komeda, Michael Trenary, and Maki Kawai*, **J. Phys. Chem. Lett. 2 (2011)** 2263-2266.
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81. Energy level alignment of single-wall carbon nanotubes on metal surfaces, Sylvain Clair, Yousoo Kim*, and Maki Kawai*, **Phys. Rev. B 83 (2011)** 245422, 1-5. [Selected for Vir. J. Nan. Sci. & Tech.]
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84. Coverage-dependent formation of chiral ethylthiolate-Au complexes on Au(111), Sylvain Clair, Yousoo Kim and Maki Kawai*, **Langmuir 27 (2011)** 627-629.
85. Low-temperature adsorption of H2S on Ag(111), Selena M. Russell, Da-Jiang Liu, Maki Kawai, Yousoo Kim, and Patricia A. Thiel*, **J. Chem. Phys. 133 (2010)** 124705, 1-8.
86. Insights into action spectroscopy for single molecule motion and reactions through inelastic electron tunneling, Kenta Motobayashi, Yousoo Kim, Hiromu Ueba, and Maki Kawai*, **Phys. Rev. Lett. 105 (2010)** 076101, 1-4.
87. Controlling water dissociation on an ultrathin MgO film by tuning film thickness, Jaehoon Jung,

Hyung-Joon Shin, Yousoo Kim*, and Maki Kawai*, **Phys. Rev. B 82 (2010)** 085413, 1-6. [Selected for Vir. J. Nan. Sci. & Tech.]

88. Termination and Verwey transition of the magnetite (111) surface studied by scanning tunneling microscopy and first principle calculations, Tomoko K. Shimizu, Jaehoon Jung, Hiroyuki S. Kato, Yousoo Kim*, and Maki Kawai*, **Phys. Rev. B 81 (2010)** 235429, 1-6.

89. Scanning tunneling microscopy and inelastic electron tunneling spectroscopy studies of methyl isocyanide adsorbed on Pt(111), Satoshi Katano, Yousoo Kim, Masafumi Hori, Michael Trenary, and Maki Kawai*, **J. Phys.; Conf. Ser. 235 (2010)** 012003, 1-7.

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93. Single-Molecule Vibrational Spectroscopy and Inelastic-Tunneling-Electron-Induced Diffusion of Formate Adsorbed on Ni(110), Satoshi Katano, Yousoo Kim, Yuma Kagata, and Maki Kawai*, **J. Phys. Chem. C 114 (2010)** 3003-3007.

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95. Substrate-induced array of quantum dots in a single-walled carbon nanotube, Hyung-Joon Shin, Sylvain Clair, Yousoo Kim*, and Maki Kawai*, **Nature Nanotech. 4 (2009)** 567-570.

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