

MOROKUMA, Keiji
Professor Emeritus

Person of Cultural Merit in 2012

Professor Emeritus Keiji Morokuma was selected as a "Person of Cultural Merit in 2012" for his outstanding contributions to the theoretical studies for complex molecular systems. He has been developing various novel theoretical and computational methods, for example energy decomposition analysis and ONIOM method, and elucidating structures, reaction mechanisms and functions of complicated real molecular systems. He also proposed the formation mechanisms of fullerenes and carbon nanotubes by combining electronic structure theory and molecular dynamics simulations. We hope that Professor Morokuma continues to do active researches as an international top leader in theoretical and computational molecular science.

NAGASE, Shigeru
Professor Emeritus

Chemical Society of Japan Award in 2013

"Theory and Computation for Constructing Molecules Characteristic of Heavier Elements and Nanostructures"

Professor Emeritus Shigeru Nagase received a Chemical Society of Japan Award in 2013 for his achievements of "Theory and Computation for Constructing Molecules Characteristic of Heavier Elements and Nanostructures." Professor Nagase has made various contributions in theoretical and computational chemistry. He has presented fundamental rules to explain why heavier main elements provide bonds and structures that differ from those formed by second-row elements represented by carbon. He has performed pioneering studies on nanomolecular systems, for example the determination of the structures and electronic properties of endohedral metallofullerenes. In addition, he contributed to the acceleration of electronic structure calculations by developing new theoretical and computational methods. As described above, Professor Nagase has been playing an important role in theoretical and computational chemistry.

YANAI, Takeshi
Theoretical and Computational
Molecular Science

The 2013 International Academy of Quantum Molecular Science Medal

"For His Development of Novel Approaches to Incorporate Dynamical Correlation into DMRG Using Canonical Transformation Theory"

Associate Professor Takeshi Yanai was awarded the 2013 medal by International Academy of Quantum Molecular Science for his development of novel approaches to incorporate dynamical correlation into DMRG using canonical transformation theory.

TADA, Mizuki
Materials Molecular Science

Chemical Society of Japan Award for Outstanding Young Women Chemists

"Molecular-Level Design and Visualization of Structures and Catalytic Functions on Solid Surfaces"

Professor Mizuki Tada was awarded the Chemical Society of Japan Award for Outstanding Young Women Chemists. The award was newly founded by Chemical Society of Japan in 2012 to promote women's participation in the field of chemistry. Women researchers under age of 40 who made a leading contribution to the chemistry is rewarded as role models for female researchers. Prof. Tada's achievements on "Molecular-Level Design and Visualization of Structures and Catalytic Functions on Solid Surfaces" were highly evaluated and the society decided that Prof. Tada deserves the award.

YAMANE, Hiroyuki
Photo-Molecular Science

Young Researcher Award from National Institutes of Natural Sciences

"Systematic Study on Electronic Properties of Nano-Scale Organic Solids by Using Synchrotron Radiation"

ISHIZUKI, Hideki
Laser Research Center
for Molecular Science

Laser Society of Japan Accomplishment Award (Progress Award)

"Efficient Optical Parametric Oscillation with 0.5J-Class Output by Using a 10-mm-Thick PPMgLN Device"

FURUKAWA, Ko
Materials Molecular Science

SEST Young Investigator Award

"Advanced ESR Study of Clarification of Mechanism for Organic Functional Materials"

OSAKO, Takao
Life and Coordination-Complex
Molecular Science

Shionogi Award in Synthetic Organic Chemistry in Japan (2012)

"Development of Asymmetric Flow Organic Transformation with Polymer-Supported Chiral Copper Catalysts"

AWARDS

HAMASAKA, Go
Life and Coordination-Complex
Molecular Science

Nagoya University Ishida Award
“Development of New Catalytic Systems Based on Control of Reaction Environments”

HIGASHIBAYASHI, Shuhei
Research Center of Integrative
Molecular Systems

Incentive Award in Synthetic Organic Chemistry, Japan
“Synthesis of Bowl-Shaped π -Conjugated Buckybowls”
Sumitomo Chemical Award in Synthetic Organic Chemistry, Japan
“Development of Three-Dimensional π -Conjugated Heterocyclic Compounds”