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電子構造研究系分子エネルギー変換研究部門 客員教授  
(分子構造研究系分子動力学研究部門 北川グループ)

I graduated from Physics Department of Peking University (1962) and then became a staff member at Institute of Physics, Chinese Academy of Sciences (Beijing). Since 1985, worked as associate professor at that Institute. Obtained Ph.D. in Nature Science from ETH-Zurich, Switzerland (1997). 1996-present time, professor at Physics Department of Henan University. I worked with Prof. Peter Wachter at Lab. of Solid State Physics, ETH-Zurich for 4 years in the period of 1982-1993 as a visiting scientist, as a visiting professor for 2 years at Instituto di Metodologie Avanzate Inorganiche, CNR, Roma, as well as in KAIST (Korea 1995 Jan.-July).

**Research interests:** Raman spectroscopy, surface enhanced Raman scattering and magnetism of condensed matter; study of magnetic crystal and microwave device. At IMS (Prof. T. Kitagawa group science May 2000), research concerns resonance Raman study of dendrimer metalloporphyrines.



LI, Zheng-Qiang

分子構造研究系分子動力学研究部門 文部省外国人研究員

I graduated from Biochemistry Department of Jilin University in China (1984, BS) and received MS (1990) and Ph.D. (1994) of Biophysical Chemistry in the same University. From 1995 to 1996, I worked as a post-doctoral fellow at the Chemistry Department of Hong Kong University of Science & Technology under supervise of Prof. YU Nai-Teng. Since 1997, I worked as an associate professor in the Key Laboratory for Molecular Enzymology and Engineering of Education Ministry of China, in Jilin University.

My research interest is vibrational spectroscopy of protein and enzyme. Since May of 2000, I have been a visiting scientist of Mobusho at Prof. T. Kitagawa group and the project is about the study of soluble guanylyl cyclase.



## GRITSENKO, Victor V.

電子構造研究系分子エネルギー変換研究部門 客員助教授  
(分子集団研究系分子集団動力学研究部門 小林グループ)

### Academic Record:

1989: Graduated from the Physical Department at the Rostov-on-Don State University, Russia.

1989-1994: Studied at the Institute of Problems of Chemical Physics, Russian Academy of Sciences (IPCP RAS) for Ph.D on “X-ray structural investigation of the organic conductors based on bis(ethylenedithio)tetrathiafulvalene with metal halogenides” under Prof. O. A. Dyachenko.

1994-2000: Scientific researcher, Lab. of Crystal Chemistry at IPCP RAS. I have been published 35 science articles and 15 poster communications from 1991 to 2000.

2000-present: Associated Professor at the MAD Department at the Institute for Molecular Science in Prof. H. Kobayashi group.

**Interests:** X-ray analysis, crystallography, molecular conductors and superconductors based on the different donor molecules, fullerenes; search of structural laws for an explanation of mechanism of the electrical conductivity in molecular conductors and superconductors. Now I am engaged in synthesis, X-ray analysis and conductivity measurement of new molecular conductors with magnetic anions and hope to find a new correlation of “structure-properties” in these type of compounds.



## GRITSENKO, Olga

分子集団研究系分子集団動力学研究部門 外国人特別協力研究員

### Academic Record:

1985: Graduated from the Chemical Department at the Saratov State University, Russia.

1989-1993: Studied at the Institute of Problems of Chemical Physics, Russian Academy of Sciences (IPCP RAS) for Ph. D on “The study of interaction of polyaniline and polypyrrole conducting polymers composites with gaseous substances.” under Prof. M. L. Chidekel’.

1994-2000: Scientific researcher, Lab. of Metallo-Complex Catalizator at IPCP RAS.

2000-present: Visiting Scientist at the MAD Department at the Institute for Molecular Science in Prof. H. Kobayashi group.

**Interests:** Synthesis and study of catalitical activity of metallocomplexes mimicking monooxygenase-ferments. Now I am engaged in the synthesis of new molecular conductors with new anions.





## CHOE, Jong-In

電子計算機室 文部省外国人研究員

Jong-In Choe was born in Seoul, Korea in 1953. He took his B. S. from Seoul National University in 1975, and received Ph. D. in physical chemistry in 1981 from University of Kansas, U.S.A. with Professor Marlin. D. Harmony. He did postdoctoral work in the field of physical organic chemistry with Professor R. L. Kuczkowski at University of Michigan, U.S.A. (1981-1983). He had visited the University of Arizona studying Fourier Transform Spectroscopy in the Professor S. G. Kukolich laboratory from 1984 to 1987 (summers and winters). His research interests are in computational chemistry, quantum chemistry and molecular spectroscopy. He has been as a professor at the department of chemistry in Chung-Ang University at Seoul, Korea since 1983.

Research activities at IMS in Prof. Aoyagi's group is in the studies of designing new host systems which can selectively interact the target guest and perform intriguing molecular recognition processes. Calixarene is one of the attractive host systems, and using ab initio calculation method we evaluate the property of this molecule.



## HOCKE, Heiko

錯体化学実験施設錯体触媒研究部門 学振外国人特別研究員

Graduated at the Martin-Luther-University (1995). Ph.D. Thesis "Generation of areneimidosulfonic peracids – a new class of chiral oxidants for diastereo- and enantioselective epoxidation reactions" (1998). Then I worked in the group of Prof. R. Csuk/Halle on the total synthesis of UCK14.

From May 1999 to August 2000, I joined as a postdoctoral fellow the research group of Prof. B. Giese at the University Basel/ Switzerland. During this time, I worked on photoinduced radical ring closing reactions of small peptide units.

Since September 2000, I'm a JSPS fellow at the IMS (Prof. Y. Uozumi's group). My research interests are focused on syntheses of solid supported catalysts and their use in asymmetric oxidation reactions.