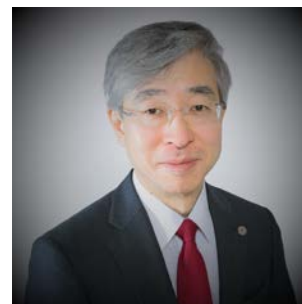


## Curriculum Vitae

Name: Tsuyoshi KAWAI  
(Birth day; 27 / 08 / 1963)



Sex: Male

Nationality: Japanese

Present Address: Graduate School of Materials Science,  
Nara Institute of Science and Technology,  
8916-5 Takayama, Ikoma, Nara 630-0192, Japan

Tel: +81-743-72-6170 Fax: +81-743-72-6170 E-mail: tkawai@ms.naist.jp

Web-URL: <http://mswebs.naist.jp/center/LABs/kawai/English.html>

### Education:

- 1985 Bachelor of Engineering (Chemistry), Osaka University
- 1987 Master of Engineering (Chemistry), Osaka University
- 1993 PhD (Electronic Engineering), Osaka University

### Professional Career:

- 1989-1998 Associate Professor,  
Department of Electronic Engineering, Osaka University  
(Prof. Katsumi Yoshino's group)
- 1998-2004 Associate Professor,  
Department of Chemistry and Biochemistry,  
Kyushu University  
(Prof. Masahiro Irie's group)
- 2004-present Professor,  
Graduate School of Materials Science,  
Nara Institute of Science and Technology, NAIST

### Special Services for Universities

- 2009-2011, 2013-2015 Adviser to the President, NAIST
- 2011, Invited Professor, Université Paul Sabatier, Toulouse, France
- 2017- Vice Dean, Graduate School of Materials Science, NAIST
- Invited Professor, Ecole Normale Superior de Paris Saclay, France
- Invited Professor, Universite de Rennes I, France

### Visiting Faculty for Domestic Universities:

- 2006; Nagoya Univ., 2009; Hiroshima Univ., 2009; Osaka City Univ.
- 2010; Osaka Univ. 2014; Muroran Institute of Technology
- 2017; Dosisha University

## Other Public Activities

- 2009-2011, 2014- Councilor, Japanese Photochemistry Association  
2013- Councilor, Asian and Oceania Photochemistry Association  
2017- Secretary Treasure, Asian and Oceania Photochemistry Association  
2009-2015 Specialized Member of Council for University Chartering and School Juridical Person, Ministry of Education, MEXT, Japan, (Engineering)  
2015-2017 Specialized Member of Council for University Chartering and School Juridical Person, Ministry of Education, MEXT, Japan, (Aftercare)  
2010 Secretary General, International Conference on Science and Technology of Synthetic Metals, ICSM2010, Kyoto, Japan  
2015 Co-Chair, International Symposium of Photo and Electro Molecular Machines, PEM2, Toulouse, France.  
2016 Co-Chair, The International Conference on Organic and Hybrid Thermoelectrics, Kyoto, Japan

## Scientific Awards:

- 2008 Japan Photochemistry Association Award,  
Japanese Photochemical Association  
2015 NAIST-Science Award, NAIST, Graduate School of Materials Science  
2017 CSJ Award for Creative Works, The Chemical Society of Japan

## Scientific Publications:

More than 350 papers, with total citation over 8500 times. (*h-index* = 46)

## Research Interests and Keywords:

Photo-functional Materials Chemistry,  
Photochromic Molecules and Photoswitching Molecular Systems,  
Thermoelectric Nano-materials, Circularly Polarized Luminescence Materials

## Selected Publications:

1. R. Li, T. Nakashima, T. Kawai, "Self-Contained Photoacid Generator for Super Acid Based on Photochromic Teraylene"  
*Chemical Communication*, **53**, 4339-4341 (2017)
2. Y. Taniguchi, T. Takishita, T. Kawai, T. Nakashima, "End-to-End Self-Assembly of Semiconductor Nanorods in Water by using an Amphiphilic Surface Design"  
*Angewandte Chemie-International Edition*, **55**, 2083-2086 (2016)
3. J. F. Koegel, S. Kusaka, R. Sakamoto, T. Iwashima, R. Toyoda, M. Tsuchiya, R. Matsuoka, T. Takamasa, J. Yuasa, Y. Kitagawa, T. Kawai, H. Nishihara "Heteroleptic [Bis(oxazoline)](dipyrrinato)zinc(II) Complexes: Bright and Circularly Polarized Luminescence from an Originally Achiral Dipyrrinato Ligand"  
*Angewandte Chemie-International Edition*, **55**, 1377-1381 (2016)

4. T. Nakashima, K. Tsuchie, R. Kanazawa, R. Li, S. Iijima, O. Galangau, H. Nakagawa, K. Mutoh, Y. Kobayashi, J. Abe, T. Kawai, "Self-Contained Photoacid Generator Triggered by Photocyclization of Triangle Terarylene Backbone"  
*Journal of the American Chemical Society*, **137**, 7023-7026 (2015)
5. Y. Nonoguchi, K. Ohashi, R. Kanazawa, K. Ashiba, K. Hata, T. Nakagawa, C. Adachi, T. Tanase, T. Kawai, "Systematic Conversion of Single Walled Carbon Nanotubes into n-type Thermoelectric Materials by Molecular Dopants"  
*Scientific Reports*, **3**, 3344-3351 (2013)
6. T. Nakashima, Y. Kajiki, S. Fukumoto, M. Taguchi, S. Nagao, S. Hirota, T. Kawai, "Efficient Oxidative Cycloreversion Reaction of Photochromic Dithiazolylthiazole"  
*Journal of the American Chemical Society*, **134**, 19877-19883 (2012)
7. S. Fukumoto, T. Nakashima, T. Kawai, "Photon-Quantitative Reaction of a Dithiazolylarylene in Solution"  
*Angewandte Chemie-International Edition*, **50**, 1565-1568 (2011)
8. J. Yuasa, T. Ohno, K. Miyata, H. Tsumatori, Y. Hasegawa, T. Kawai, "Noncovalent Ligand-to-Ligand Interactions Alter Sense of Optical Chirality in Luminescent Tris( $\beta$ -diketonate) Lanthanide (III) Complexes Containing a Chiral Bis(oxazoliny) Pyridine Ligand"  
*Journal of the American Chemical Society*, **133**, 9892-9902 (2011)
9. T. Nakashima, Y. Kobayashi, T. Kawai  
Optical Activity and Chiral Memory of Thiol-Capped CdTe Nanocrystals  
*Journal of the American Chemical Society*, **131**, 10342-10343 (2009)
10. T. Kawai, Y. Nakashima, M. Irie, "A Novel Photoresponsive  $\pi$ -Conjugated Polymer Based on Diarylethene and Its Photoswitching Effects in Electrical Conductivity"  
*Advanced Materials*, **17**, 309-314 (2005)
11. M. Irie, T. Fukaminato, T. Sasaki, N. Tamai and T. Kawai, "A Digital Fluorescent Molecular Photoswitch"  
*Nature*, **420**, 759-760 (2002)