

The 23rd Special feature on the introduction of research that utilizes iodine

Introduction of Award Research

No.	“Title”	Author, Co-authors (Affiliation)
01	“Practical Use of Dye-Sensitized Solar Cells”	<u>Hiroshi MATSUI</u> , Kenichi OKADA, Takayuki KITAMURA, Nobuo TANABE (Fujikura Ltd.)

Research Introduction

No.	“Title”	Author, Co-authors (Affiliation)
01	“N-Functionalization of Amino Acid Derivatives Using Crystalline Ethynyl-1,2-benziodoxol-3(1H)-one”	<u>N. TADA</u> , A. ITOH (Gifu Pharmaceutical University)
02	“Development of Functional Group Selective Oxidation of Aldoximes Using Hypervalent Iodine Reagents”	<u>A. NAKAMURA</u> , H. KANO, J. TANAKA, Y. MIKI, T. MAEGAWA (School of Pharmaceutical Sciences, Kindai University)
03	“High-Performance Hypoiodite/Hydrogen Peroxide Catalysis for Oxidative α -Azidation of Carbonyls”	<u>M. UYANIK</u> , N. SAHARA, M. TSUKAHARA, Y. HATTORI, K. ISHIHARA (Graduate School of Engineering, Nagoya University)
04	“[4+2] Cycloaddition Reaction of Imines and 2-Vinylindoles Catalyzed by 2-Iodoimidazolium Salt”	<u>T. SUZUKI</u> , S. KUWANO, T. ARAI (Graduate School of Science, Chiba University)
05	“Design of Indanol-based Chiral Organoiodine Catalysts and Its Application”	<u>T. HASHIMOTO</u> (Chiba Iodine Resource Innovation Center; Graduate School of Science, Chiba University)
06	“Intramolecular Aziridination of Sulfamate Esters Using <i>tert</i> -Butyl Hypoiodite”	K. KIYOKAWA, S. NAKAMURA, <u>S. MINAKATA</u> (Graduate School of Engineering, Osaka University)
07	“Chemoselective Reduction of α,β -Unsaturated Carbonyl and Carboxylate Compounds by Using Hydrogen Iodide”	<u>H. MARUMOTO</u> ¹ , M. AKAZOME ¹ , Y. OTANI ² , T. KAIHO ² , S. MATSUMOTO ¹ (¹ Graduate School of Engineering, Chiba University, ² Godō Shigen Co., Ltd.)
08	“Design of Novel Weakly Coordinating Anion Based on Anionic Boron Cluster Utilizing Hypervalent Bond”	<u>Y. KITAZAWA</u> (Research Initiative for Supra-Materials, Shinshu University)
09	“Fabrication Method of Iodine-containing Red-emissive Perovskite Nanocrystals”	J. ENOMOTO ¹ , K. TOZAWA ¹ , <u>A. MASUHARA</u> ^{1,2} (¹ Graduate School of Science and Engineering, Yamagata University, ² FROM, Yamagata University)
10	“Iodine-Zinc Battery Using Single-walled Carbon Nanotubes”	<u>S. KAWASAKI</u> , Y. ISHII, R. DATE (Nagoya Institute of Technology)
11	“Preparation of Carbon Materials Derived from Biomass Resources by Iodine Treatment”	<u>K. NAKAMURA</u> (Faculty of Symbiotic System Science, Fukushima University)

12	<p>“Forms of Functional Groups on Weak Anion-exchange Sorbents Used in Solid-phase Extraction of Iodide” <u>M. MIYASHITA</u>, H. NAGASHIMA (NAC Techno Service Co., Ltd)</p>
13	<p>“Determination of Trace Iodine in Pharmaceutical and Foods Samples by Combustion Ion Chromatography” <u>H. NAGASHIMA</u>, M. MIYASHITA (NAC Techno Service Co., Ltd)</p>
14	<p>“Determination of Iodine Species in River Water by Ion Chromatography” <u>K. TAKEDA</u>¹, T. UMEDA¹, A. ISHII¹, Y. IWAMOTO¹, K. ITO² (¹Graduate School of Integrated Sciences for Life, Hiroshima University; ²Seawater Assessment Technologies Research Institute)</p>
15	<p>“Water Treatment Using Activated Carbon Impregnated with Elementary Iodine” S. FABIO¹, M. YANO², <u>K. TATENUMA</u>² (¹ENEA Casaccia; ²Kaken Inc.)</p>
16	<p>“Avian Influenza Virus Inactivation Effect by Iodine-doped Activated Carbon” <u>K. TATENUMA</u>¹, Y. KINASE¹, S. FABIO² (¹Kaken Inc.; ²ENEA Casaccia)</p>
17	<p>“Current Status of Research on Iodine in Clinical Medicine” <u>Y. FUSE</u>^{1,2}, Y. ITO³, H. OHMI⁴, N. TSUKADA⁵, M. YAMAGUCHI⁶ (¹Research Committee on Iodine Related Health Problems; ²Foundation for Growth Science, Japan Thyroid Association; ³Japanese Red Cross Hokkaido College of Nursing; ⁴Nayoro City University; ⁵Kagawa Nutrition University, Institute of Nutrition Sciences; ⁶Kamakura Women’s University)</p>
18	<p>“DFT-based Verification and Prediction of Aggregation of Iodine-derived Species in Aqueous Iodine Solution” <u>S. YANAGIDA</u>, O. YOSHIKAWA, T. KIDA (M3 Inc.; Osaka University)</p>

Papers

No.	“Title”	Author (Affiliation)
01	<p>“Behind the Success of Synthetic Organofluorine Chemistry: Development of Iodine-based Reagents, Catalysts, and Reactions”</p>	<p><u>Norio SHIBATA</u> (Nagoya Institute of Technology)</p>
02	<p>“Battery Electrode Properties of Iodine Molecules Encapsulated in Single-walled Carbon Nanotubes”</p>	<p><u>Shinji KAWASAKI</u> (Nagoya Institute of Technology)</p>