Executive Summary of Full Curriculum Vitae

Tsuyoshi MINAMI, Ph.D., FRSC, CChem, CSci, Senior Member, IEEE
Associate Professor, Institute of Industrial Science, The University of Tokyo

SUMMARY OF SCIENTIFIC CONTRIBUTIONS

Dr. Tsuyoshi Minami is an internationally recognized leader in supramolecular analytical chemistry and chemical sensing, integrating molecular recognition with organic-transistor electronics, sensor arrays, and data-driven analysis for complex samples.

MAJOR SCIENTIFIC CONTRIBUTIONS

From molecular recognition to device integration using organic transistors; Pattern-recognition-based chemical sensing systems; Real-world sensing applications in biofluids, environment, and food

IMPACT AND RECOGNITION

Dr. Minami has published over 140 papers (over 4,000 citations; *h-index 39*, Web of Science) and delivered over 260 invited lectures. He has secured over USD 3 million in competitive funding as principal investigator.
Honors and Awards: Fellow of the Royal Society of Chemistry (FRSC) (2025); IUPAC Emerging Innovator (2021); Young Scientists Award (Government of Japan) (2020)

LEADERSHIP AND INTERNATIONAL ACTIVITIES

Supervised/hosted >80 researchers/trainees/technical staff; former trainees now hold independent academic posts. Adjunct Professor, Airlangga University (Indonesia); Visiting Professor, University of Technology of Compiegne (France, 2021–2022; 2024–2026). ISMSC 2025 Committee Member; Pittcon 2026 Presider.

SELECTED PUBLICATION LIST

1. *Intramolecular Indicator Displacement Assay for Anions: Supramolecular Sensor for Glyphosate*
   J. Am. Chem. Soc. 2014, 136, 11396–11401
   Introduced an intramolecular indicator displacement strategy for supramolecular chemical sensing.
2. *Simple Colorimetric Chemosensor Array for Oxyanions: Quantitative Assay for Herbicide Glyphosate*
   Anal. Chem. 2019, 91, 13627–13632
   Established quantitative detection using a self-assembled sensor array made of off-the-shelf reagents.
3. *Accurate chiral pattern recognition for amines from just a single chemosensor*
   Chem. Sci. 2020, 11, 3790–3796 ***(Invited, Cover, HOT article)***
   Enabled accurate chiral recognition and determination of %ee using a single chemosensor.
4. *Accurate and reproducible detection of proteins in water using an extended-gate type organic transistor biosensor*
   Appl. Phys. Lett. 2014, 104, 243703
   Established an extended-gate organic transistor architecture that enabled biosensing applications.
5. *A novel OFET-based biosensor for the selective and sensitive detection of lactate levels*
   Biosens. Bioelectron. 2015, 74, 45–48
   Demonstrated the first extended-gate-type OFET for enzymatic lactate detection in aqueous media.
6. *Chemical Sensing Platforms Based on Organic Thin-Film Transistors Functionalized with Artificial Receptors*
   ACS Sensors 2019, 4, 2571–2587 ***(Invited Perspective, Cover)***
   Defined a supramolecular framework for practical organic-transistor chemical sensing.
7. *Multi-Oxyanion Detection by an Organic Field-Effect Transistor with Pattern Recognition Techniques and Its Application to Quantitative Phosphate Sensing in Human Blood Serum*
   ACS Appl. Mater. Interfaces 2022, 14, 22903–22911 ***(Invited, Cover)***
   Integrated organic transistors with pattern recognition for multi-analyte sensing.
8. *Accurate cortisol detection in human saliva by an extended-gate-type organic transistor functionalized with a molecularly imprinted polymer*
   Sens. Actuators B Chem. 2023, 382, 133458 (***Invited***)
   Bridged molecularly imprinted recognition with organic transistor-based chemical sensing in real samples.
9. *Accurate determination of enantiomeric excess of an amino acid using an extended-gate-type organic transistor*
   Chem. Commun. 2025, ***61*****, 9872–9875** ***(Invited, Cover)***
   Demonstrated chiral chemical sensing using organic transistor platforms, enabling enantiomeric analysis.
10. *Chemical Sensing in Aqueous Media by Organic TFTs*
    2020 IEEE International Electron Devices Meeting (IEDM), 35.1.1–35.1.4 (*Invited*)
    Showcased organic TFT-based chemical sensing to the IEEE electron-device community.

Full Curriculum Vitae

NAME	**Tsuyoshi MINAMI**
WORK ADDRESS	Department of Materials and Environmental Science, Institute of Industrial Science, The University of Tokyo, 4-6-1, Komaba, Meguro-ku, Tokyo, 153-8505 Japan
WORK TELEPHONE	+81 (0)3 5452 6364
WORK FAX	+81 (0)3 5452 6365
E-MAIL	tminami@g.ecc.u-tokyo.ac.jp; tminami@iis.u-tokyo.ac.jp

QUALIFICATIONS

Bachelor of Engineering (Saitama University, Japan) in Applied Chemistry	2006
Master of Engineering (Saitama University, Japan) in Applied Chemistry	2008
Ph.D. in Engineering (Tokyo Metropolitan University, Japan) with thesis entitled: Synthesis and functionalization of isothiouronium-attached amphiphilic polythiophenes (Supervisor: Professor Yuji Kubo)	2011

AWARDS, FELLOWSHIPS and LECTURESHIPS

Springer Poster Award (The 5th International Symposium on Macrocyclic and Supramolecular Chemistry)	2010
Gold Award, TANAKA Holdings Co., Ltd.	2015
Academic Encouragement Award, UBE Industries Foundation	2015
Analytical Sciences Hot Article Award	2015
Poster Award (The 62nd Japan Society of Applied Physics Spring Meeting)	2015
Outstanding Paper Award (The 6th International Conference on Flexible and Printed Electronics)	2015
ADEKA Award in Synthetic Organic Chemistry, The Society of Synthetic Organic Chemistry, Japan	2016
Special Young Lecture, The Chemical Society of Japan	2016
KOBUNSHI RONBUNSHU New Wave of Polymer Science and Technology	2016
Young Scientist Presentation Award (The 63rd Japan Society of Applied Physics Spring Meeting)	2016
New Century Rookie Award, The Kanto Branch of the Japan Society for Analytical Chemistry	2016
Presentation Award (The 97th Chemical Society of Japan Annual Meeting)	2017
Young Innovator Award, Society for Chemistry and Micro-Nano Systems	2017
Research Encouragement Award for Chemical Innovation, Japan Association for Chemical Innovation	2017
Ando Incentive Prize for the Study of Electronics, The Foundation of ANDO Laboratory	2017
Young Researcher Award, The Japan Society for Analytical Chemistry	2017
Young Researcher Award of The Electrochemical Society of Japan (Sano Award)	2018
ChemComm Emerging Investigators 2018, Royal Society of Chemistry	2018
Young Scientist Lecture Award, The Society of Polymer Science, Japan, Kansai Regional Chapter	2018
Excellent Research Award, Kurita Water and Environment Foundation	2018
Top Peer Reviewer 2018 for placing in the top 1% of reviewers in Chemistry, Publons	2018
Wakashachi Incentive Award, Aichi Prefecture	2019
Top Downloaded article published in ChemistryOpen during 2017-2018, John Wiley & Sons Pte Ltd	2019
Molecular Electronics and Bioelectronics Young Researcher Award, The Japan Society of Applied Physics	2019
Publicity Award, The Society of Polymer Science, Japan	2019
Top Peer Reviewer 2019 for placing in the top 1% of reviewers in Chemistry, Publons	2019
Top Peer Reviewer 2019 for placing in the top 1% of reviewers in Cross-Field, Publons	2019
The Chemical Society of Japan Award for Young Chemists	2020
The Young Scientists Award, Ministry of Education, Culture, Sports,	

Science and Technology (MEXT) 2020
Award for Encouragement of Research in Polymer Science,
The Society of Polymer Science, Japan 2020
SHGSC Japan Award of Excellence, Association of Research for Host-Guest
and Supramolecular Chemistry 2020
The Japanese Photochemistry Association Award for Young Scientist 2020
Frontiers in Chemistry Outstanding Associate Editor Award 2020
Award for Encouragement of Research in the Annual Meeting of MRS-J Symposium 2020
Nanoscale Emerging Investigators 2021, Royal Society of Chemistry 2021
The Emerging Innovator Award in Analytical Chemistry,
International Union of Pure and Applied Chemistry (IUPAC) 2021
Journal of Materials Chemistry C Emerging Investigators 2021, Royal Society of Chemistry 2021
Rising Stars in Polymer Science, The Society of Polymer Science, Japan 2021
Konica Minolta Image Science Encouragement Award,
Konica Minolta Science and Technology Foundation 2022
ChemComm Pioneering Investigators 2022, Royal Society of Chemistry 2022
Best Paper Award (co-author), IEEE CPMT Symposium Japan (ICSJ),
IEEE Electronics Packaging Society 2022
Outstanding Reviewer for Analyst in 2022, Royal Society of Chemistry 2023
ECS-IOP Trusted Reviewer status, Institute of Physics, The Electrochemical Society 2023
New Century Award, The Kanto Branch of The Japan Society for Analytical Chemistry 2024
Young Career Emerging Leaders Under 40, Proteomass Scientific Society 2024
IEEE Senior Member, Institute of Electrical and Electronics Engineers 2024
Best Presentation Award (The 12th Singapore International Chemistry Conference) 2024
Seiyama Award, The Japan Association of Chemical Sensors 2025
ChemComm Pioneering Investigators 2024, Royal Society of Chemistry 2025
physica status solidi (a) Top Viewed Article, John Wiley & Sons Pte Ltd 2025
ChemNanoMat Top Viewed Article, John Wiley & Sons Pte Ltd 2025
Chemistry – An Asian Journal Top Viewed Article, John Wiley & Sons Pte Ltd 2025
IEEE Japan Medal, IEEE Tokyo Section 2025
SPSJ Resonac Award, The Society of Polymer Science, Japan 2025
Outstanding Editorial Board Member of Smart Molecules, Wiley 2025
IEICE Senior Member,
The Institute of Electronics, Information and Communication Engineers 2025
Chartered Chemist (CChem), the Royal Society of Chemistry 2025
Fellow of the Royal Society of Chemistry (FRSC) 2025
Outstanding Researcher Award on Chemistry and Micro-Nano Systems
The Society for Chemistry and Micro-Nano Systems 2026
Chartered Scientist (CSci), Science Council, UK 2026

SELECTED RESEARCH FEATURES AND MEDIA COVERAGE

Nikkei Sangyo Shimbun, feature on rapid protein sensing (in Japanese) 2016
Nikkei Sangyo Shimbun, feature on long-term stable glucose sensing (in Japanese) 2020
TV Tokyo, WBS, feature on paper- and smartphone-based infection testing (in Japanese) 2020
EMIRA, interview on chemical sensors for health monitoring and
COVID-19 detection (in Japanese) 2021
Wiley-VCH ChemistryViews, interview: "Get Inspired by other Disciplines and Cultures" 2021
Yano E plus, feature article on organic transistors (in Japanese) 2023
UTokyo-IIS Bulletin Vol. 13, feature article: "Sensing the unseen world" 2024
Labmate UK & Ireland, feature article on chemical sensors for molecular, cellular, and
environmental water analysis 2026

EARLY EDUCATION

Saitama Prefectural Warabi High School (Japan) 1999-2002
Saitama University (Japan) 2002-2008
Undergraduate Student (2002-2006) in Applied Chemistry
Master's Course Student (2006-2008) in Organic Synthetic Chemistry Group
(Professors Sumio Tokita and Yuji Kubo)

University of Bath (England) 2006; 2008; 2009
Visiting Student in Professor Tony D. James' group

POSTDOCTORAL RESEARCH FELLOWSHIP

Bowling Green State University (USA) 2011-2013
Postdoctoral Research Fellow with Professor Pavel Anzenbacher, Jr.

RESEARCH AND TEACHING APPOINTMENTS

Research Assistant Professor in Department of Chemistry /Bowling Green State University 2013
Assistant Professor in Graduate School of Science and Engineering /Yamagata University (Japan) 2014-2016
Lecturer in Department of Materials and Environmental Science /Institute of Industrial Science/The University of Tokyo (Japan) 2016-2019
Adjunct Lecturer in Department of Chemistry and Biotechnology /Graduate School of Engineering/The University of Tokyo 2016-2019
Visiting Associate Professor at Yamagata University 2016-2021
The University of Tokyo Excellent Young Researcher 2016-pres.
Visiting Associate Professor at Tokyo Metropolitan University 2016-2026
Adjunct Lecturer in Department of Advanced Interdisciplinary Studies /Graduate School of Engineering/The University of Tokyo 2017-2019
Host Professor in Laboratory for Integrated Micro-Mechatronics Systems (LIMMS)/CNRS-IIS (UMI2820, IRL2820) 2018-pres.
Associate Professor in Department of Materials and Environmental Science /Institute of Industrial Science/The University of Tokyo 2019-pres.
Adjunct Associate Professor in Department of Chemistry and Biotechnology /Graduate School of Engineering/The University of Tokyo 2019-pres.
Adjunct Associate Professor in Department of Advanced Interdisciplinary Studies /Graduate School of Engineering/The University of Tokyo 2019-pres.
Guest Professor, Guilin University of Technology (China) 2019-2022
Visiting Professor at University of Technology of Compiegne (France) 2021-2022
Visiting Professor at Yamagata University 2021-2024
Adjunct Professor at Airlangga University (Indonesia) 2024-pres.
Visiting Professor at University of Technology of Compiegne (France) 2024-2026

ADMINISTRATIVE EXPERIENCE

Yamagata University
Affiliated Staff of Faculty of Engineering International Exchange Center 2015-2016
The University of Tokyo
Committee Member of Continuing Education 2016-2018
Editor of Institute of Industrial Science Newsletter 2016-2018
Secretariat Staff of Institute of Industrial Science Alumni Association 2016-2020
Entrance Examination Administration Committee Member 2017-2018
Secretariat Staff of Institute of Industrial Science Networking Event 2017-2018
Affiliated Faculty of Center for International Research on Integrative Biomedical Systems 2017-2019
Academic Affairs Committee Member of Department of Chemistry and Biotechnology 2017-2026
Committee Member of High School and University Collaboration 2018-2019
Secretariat Staff of Research Group on Engineering in Medicine and Biology 2018-pres.
Education and Academic Affairs Committee Member of Institute of Industrial Science 2019-2021
Member, Professorial Achievement Evaluation Committee 2021
Committee Member of Institute of Industrial Science Database Division 2021-2023
Member, Social Engagement Promotion Committee 2021-2023
Entrance Examination Administration Committee Member 2021-2025
Member of Institute for Nano Quantum Information Electronics 2021-pres.
Member of One Health One World Collaboration Research Organization 2021-pres.
Member of Synchrotron Radiation Collaborative Research Organization 2022-pres.

Working Group Member of Business Continuity Management	2023-2025
Member of Center for Research on Engineering in Medicine and Biology	2023-pres.
Departmental Coordinator for the Laboratory for Integrated Micro-Mechatronics Systems	2023-pres.
Member, Professorial Achievement Evaluation Committee	2024
Committee Member of the Safety of Genetically Modified Organisms	2024-pres.
Committee Member of Institute of Industrial Science Database Division	2025-2026
Facilities and Utilities Committee Member	2026-pres.
Admissions System Committee Member	2026-pres.

PROFESSIONAL SOCIETIES

The Chemical Society of Japan	2006-pres.
The Society of Synthetic Organic Chemistry, Japan	2010-pres.
The Society of Polymer Science, Japan	2011-pres.
The American Chemical Society	2011-pres.
The Royal Society of Chemistry	2012-pres.
The American Association for the Advancement of Science	2013-pres.
Association of Research for Host-Guest and Supramolecular Chemistry	2014-pres.
The Japan Society for Analytical Chemistry	2014-pres.
The Electrochemical Society of Japan	2014-pres.
The Japan Association of Chemical Sensors	2014-pres.
The Japan Society of Applied Physics	2014-pres.
The Society for Chemistry and Micro-Nano Systems	2016-pres.
The Japanese Photochemistry Association	2019-pres.
The Institute of Electronics, Information and Communication Engineers	2019-pres.
Institute of Electrical and Electronics Engineers (IEEE)	2020-pres.
IEEE Electron Devices Society (EDS)	2024-pres.
IEEE Engineering in Medicine and Biology Society (EMBS)	2024-pres.
The Materials Research Society of Japan	2020-pres.
The Electrochemical Society	2020-pres.
The Society of Computer Chemistry, Japan	2021-pres.
The Japan Society of Drug Delivery System	2022-pres.
The Society of Physical Organic Chemistry, Japan	2022-pres.
The Fullerenes, Nanotubes and Graphene Research Society	2022-pres.
SPIE (Lifetime Member)	2023-pres.
The Japanese Society for the History of Chemistry	2024-pres.
Japan Association on Odor Environment	2024-pres.
Japan Society for Molecular Science	2025-pres.
Gene Delivery Research Society	2025-pres.
Bioelectrochemical Society	2026-pres.
Materials Research Society	2026-pres.
Optica	2026-pres.
Sigma Xi, The Scientific Research Honor Society, Full Member	2026-pres.
ACS Division of Polymeric Materials: Science and Engineering (PMSE)	2026-pres.
German Chemical Society (GDCh)	2026-pres.

EXTERNAL EXAMINING

Ph.D. Theses: Yamagata University (Japan), Sophia University (Japan), Nara Institute of Science and Technology (Japan), Botswana International University of Science & Technology (Botswana), Sardar Vallabhbhai National Institute of Technology (India), SRM Institute of Science and Technology (India), National Institute of Technology Arunachal Pradesh (India), Alagappa University (India), Tezpur University (India), Indian Institute of Technology Kanpur (India) and National University of Sciences & Technology (Pakistan).
Master's Thesis: National Taiwan University (Taiwan)

SCIENTIFIC REFEREEING OF PUBLICATIONS

Completed **740+ verified peer reviews** recorded in the Web of Science Reviewer Recognition Service. Served as a peer reviewer for journals and major international conferences, including those listed below.

AAAS
Science Advances

AIP Publishing
Applied Physics Letters, APL Bioengineering, Journal of Applied Physics

American Chemical Society
Accounts of Chemical Research, ACS Applied Bio Materials, ACS Applied Electronic Materials, ACS Applied Materials & Interfaces, ACS Applied Nano Materials, ACS Applied Polymer Materials, ACS Food Science & Technology, ACS Measurement Science Au, ACS Nano, ACS Omega, ACS Polymers Au, ACS Sensors, ACS Sustainable Chemistry & Engineering, Analytical Chemistry, Environmental Science & Technology, Inorganic Chemistry, Industrial & Engineering Chemistry Research, JACS Au, Journal of the American Chemical Society, Organic Letters, The Journal of Organic Chemistry, The Journal of Physical Chemistry

Beilstein Journals
Beilstein Journal of Organic Chemistry

Cell Press
Chem, iScience

Chinese Chemical Society Publishing
CCS Chemistry

CRC Press
Book proposal

The Electrochemical Society of Japan
Electrochemistry

Elsevier
Analytica Chimica Acta, Biosensors and Bioelectronics, Chemical Engineering Journal, Chemical Engineering Science, Chemosphere, Chinese Chemical Letters, Coordination Chemistry Reviews, Dyes and Pigments, Electrochimica Acta, Environmental Pollution, Food Chemistry, Inorganic Chemistry Communications, Journal of Drug Delivery Science and Technology, Journal of Electroanalytical Chemistry, Journal of Hazardous Materials, Journal of Molecular Liquids, Journal of Molecular Structure, Journal of Photochemistry and Photobiology A: Chemistry, Journal of Photochemistry and Photobiology C: Photochemistry Reviews, Measurement, Microchemical Journal, Micron, Organic Electronics, Polyhedron, Sensors and Actuators B: Chemical, Sensors and Actuators Reports, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Sustainable Materials and Technologies, Talanta, TrAC Trends in Analytical Chemistry

Frontiers
Frontiers in Chemistry

IEEE
IEEE Electron Device Letters, IEEE International Conference on Nanotechnology (IEEE-NANO), IEEE International Electron Devices Meeting (IEDM), IEEE Sensors Journal, IEEE Sensors Letters

IOP Publishing
Applied Physics Express, ECS Journal of Solid State Science and Technology, ECS Sensors Plus, Japanese Journal of Applied Physics, Journal of Semiconductors, Journal of the Electrochemical Society

The Japan Society for Analytical Chemistry
BUNSEKI KAGAKU

MDPI
Electronics, Molecules, Sensors

MYU Group
Sensors and Materials

National Academy of Sciences: Proceedings of the National Academy of Sciences of the United States of America

Nature Portfolio / Springer Nature
Communications Chemistry, Nature Reviews Materials, Nature Communications, npj Flexible Electronics, Polymer Journal, Scientific Reports

OAE Publishing
Soft Science

Oxford Academic
Bulletin of the Chemical Society of Japan, Chemistry Letters

Royal Society of Chemistry
Analyst, Analytical Methods, Chemical Communications, Chemical Science, Environmental Science: Water Research & Technology, Journal of Materials Chemistry B, Journal of Materials Chemistry C, Lab on a Chip, Materials Chemistry Frontiers, Materials Advances, New Journal of Chemistry, Organic & Biomolecular Chemistry, RSC Advances, RSC Applied Interfaces, Sensors & Diagnostics

Springer
Book proposal, Analytical and Bioanalytical Chemistry, Analytical Sciences, Applied Physics A, Chemical Papers, Frontiers of Chemical Science and Engineering, Frontiers of Optoelectronics, Journal of Biological Engineering, Journal of Materials Science: Materials in Electronics, Microchimica Acta, Moore and More, Science China Chemistry

Taylor & Francis
Science and Technology of Advanced Materials, The Imaging Science Journal

Wiley
Book proposal, Advanced Biosystems, Advanced Functional Materials, Advanced Materials, Advanced Science, Advanced Sensor Research, Angewandte Chemie International Edition, ChemElectroChem, Chemistry – A European Journal, Chemistry – An Asian Journal, ChemistrySelect, ChemPlusChem, Coloration Technology, Electrophoresis, European Journal of Inorganic Chemistry, European Journal of Organic Chemistry, Israel Journal of Chemistry, Journal of Food Science, Luminescence, Physica Status Solidi (a), Small

World Scientific Publishing
Journal of Porphyrins and Phthalocyanines

PEER REVIEWING OF RESEARCH GRANT APPLICATIONS AND REPORTS

Agence nationale de la recherche • Israeli Ministry of Science and Technology • Japan Science and Technology Agency • Japan Society for the Promotion of Science • National Science Centre (Poland) • Swiss National Science Foundation • United Arab Emirates University • US-Israel Binational Science Foundation

SCIENTIFIC COMMITTEES AND OTHER PROFESSIONAL ACTIVITIES

Member of Steering Committee, Discussion Group of Electroanalytical Chemistry,
The Japan Society for Analytical Chemistry 2016-pres.
Member of Steering Committee, Molecular Electronics and Bioelectronics Division,
The Japan Society of Applied Physics 2017-2019
Secretary, Study Group on Talent Management for Technical Personnel

The Foundation for the Promotion of Industrial Science	2018-2020
Member of the Board of Examiners, Japan Patent Office, Industrial Property Council (annual appointments)	2017-pres.
Associate Editor, Supramolecular Chemistry, Frontiers in Chemistry	2017-2026
Member of Editorial Board of Electrochemistry, The Electrochemical Society of Japan	2018-2020
Member of Steering Committee, The Kanto Branch of The Japan Society for Analytical Chemistry	2018-2023
Member of Conference Planning Committee, The Electrochemical Society of Japan	2018-2023
Member of Steering Committee, TIA Emerging ElectroniX Research Alliance	2018-2024
Member of Steering Committee, The Kanto Branch of Young Researchers Association, The Society of Polymer Science, Japan	2018-pres.
Member of Steering Committee, The Kanto Branch of Young Researchers Association, The Japan Society for Analytical Chemistry	2018-pres.
Member of Steering Committee, Discussion Group of Chemical Sensors, The Japan Society for Analytical Chemistry	2018-pres.
Member of Executive Committee, Molecular Electronics and Bioelectronics Division, The Japan Society of Applied Physics	2019-2021
Vice-Chairperson, Subcommittee of Homepage, The Japan Society for Analytical Chemistry	2019-2022
Representative Member, The Chemical Society of Japan	2019-2023
Member of Editorial Board of Sensors and Materials	2019-pres.
Professional Researcher, Ministry of Education, Culture, Sports, Science and Technology, National Institute of Science and Technology Policy	2019-pres.
Member of Editorial Board of Molecules	2020-2023
Member of Editorial Board of Sensors	2020-2025
Chairperson, Molecular Recognition Material/Supramolecular Device Study Group The Foundation for the Promotion of Industrial Science	2020-pres.
Member of Steering Committee, Sensor & IoT Consortium	2020-2026
Topic Editor for Special Issue “Rising Stars: Asia” in Frontiers in Chemistry	2021
Topic Editor for Special Issue “Rising Stars 2022” in Frontiers in Chemistry	2022
Program Committee, The 103rd Chemical Society of Japan Annual Meeting	2022-2023
Chairperson, TIA Emerging ElectroniX Research Alliance	2022-2024
Secretary, Discussion Group of Reagent Designs in Analytical Chemistry, The Japan Society for Analytical Chemistry	2022-pres.
Academic Member, JSPS R041 Committee on Integration of Bio, Molecular and Nano Technologies	2022-pres.
Secretary, The Division of Analytical Chemistry, The Chemical Society of Japan	2022-2026
Guest Editor for Sensors & Diagnostics	2023
Guest Editor for ECS Journal of Solid State Science and Technology	2023
Program Committee, The 104th Chemical Society of Japan Annual Meeting	2023-2024
Academic Member, JSPS R053 Committee on Collaboration Platform of Design, Measurement and Analysis	2023-pres.
Member of Editorial Board of Smart Molecules	2023-pres.
Program Committee, The 105th Chemical Society of Japan Annual Meeting	2024-2025
Member of Editorial Board of BUNSEKI KAGAKU, The Japan Society for Analytical Chemistry	2024-2026
Member of Executive Committee, The Kanto Branch of The Japan Society for Analytical Chemistry	2024-2026
Vice-Chairperson, Discussion Group of Electroanalytical Chemistry, The Japan Society for Analytical Chemistry	2024-pres.
Topic Editor for Special Issue “Catalysis and Sensing for our Environment” in Frontiers in Chemistry	2025
Program Committee, The 106th Chemical Society of Japan Annual Meeting	2025-2026
Member of the Committee for the Nomination of Candidates for Society Awards, The Japan Society for Analytical Chemistry	2025
Mentor for Interdisciplinary High School Research Program (NPO)	2025-2026

Guest Editor, Beilstein Journal of Nanotechnology 2025-pres.
Nanotechnology for cross-scale analysis: comprehensive evaluation of water environments
Member of Technical Committee, Sensor & IoT Consortium 2025-2026
Secretary, JSPS R053 Committee on Collaboration Platform of Design,
Measurement and Analysis 2026-pres.
Officer (Committee Member), Japan Association of Chemical Sensors,
The Electrochemical Society of Japan 2026-pres.
Committee Member, Technical Committee on Organic Molecular Electronics,
The Institute of Electronics, Information and Communication Engineers (IEICE) 2026-pres.
Vice Chair, Executive Committee, Bunseki Innovation,
The Japan Society for Analytical Chemistry 2026-pres.
Member, Younger Chemist Committee (YCC), ACS Division of Analytical Chemistry (ANYL) 2026-pres.
Subcommittee Member, Sensors, MEMS and Bioelectronics (SMB),
IEEE International Electron Devices Meeting (IEDM) 2026

ORGANIZATION OF NATIONAL AND INTERNATIONAL CONFERENCES

1. The 7th International Conference on Flexible and Printed Electronics
   Yamagata: 6-8 September 2016
   (Advisory Committee Member, Executive Committee Member)
2. The 14th China-Japan-Korea Symposium on Analytical Chemistry
   Tokyo: 9-10 September 2017
   (Executive Committee Member)
3. Organic Molecule and Bioelectronics Division Seminar Organizer
   Tokyo: 6 March 2018
   (Organizer)
4. Organic Molecule and Bioelectronics Division Seminar Organizer
   Tokyo: 7 November 2018
   (Organizer)
5. 68th Annual Meeting of the Japan Society for Analytical Chemistry
   Chiba: 11-13 September 2019
   (Executive Committee Member)
6. Tsukuba Conference 2019
   Ibaraki: 2-4 October 2019
   (Session Facilitator)
7. 9th Chemical Society of Japan Chemistry Festa
   Tokyo: 15-17 October 2019
   (Executive Committee Member)
8. Organic Molecule and Bioelectronics Division Seminar Organizer
   Tokyo: 14 November 2019
   (Organizer)
9. Young Investigators' Session in the 40th Society for Chemistry and Micro-Nano Systems Meeting
   Shizuoka: 19 November 2019
   (Organizer)
10. Bunseki Innovation 2020
    Tokyo: 23-24 January 2020
    (Executive Committee Member)
11. 10th Chemical Society of Japan Chemistry Festa
    Online: 20-22 October 2020
    (Executive Committee Member)
12. The 4th TIA-EXA Electronics Seminar
    Online: 16 November 2020
    (Organizer)
13. Bunseki Innovation 2021
    Online: 25-26 February 2021
    (Executive Committee Member)
14. 11th Chemical Society of Japan Chemistry Festa

Online: 19-21 October 2021
(Executive Committee Member)

15. The 31st Annual Meeting of Materials Research Society of Japan
Kanagawa: 13-15 December 2021
(Session Co-Organizer)
16. The 82nd Symposium of the Japan Society for Analytical Chemistry
Ibaraki: 14-15 May 2022
(Executive Committee Member)
17. Bunseki Innovation 2022
Online: 25-26 January 2022
(Executive Committee Member)
18. The Electrochemical Society of Japan Fall Meeting 2022
Kanagawa: 8-9 September 2022
(Executive Committee Member)
19. 12th Chemical Society of Japan Chemistry Festa
Tokyo: 18-20 October 2022
(Executive Committee Member)
20. The 12th Subway Seminar (Organic Synthesis Seminar)
Tokyo: 22 October 2022
(Organizer)
21. Sensor & IoT Consortium Public Symposium
Tokyo: 24 November 2022
(Organizer)
22. Bunseki Innovation 2023
Tokyo: 17-18 January 2023
(Executive Committee Member)
23. 20th Symposium on Host-Guest and Supramolecular Chemistry
Tokyo: 24-25 June 2023
(Executive Committee Member)
24. 13th Chemical Society of Japan Chemistry Festa
Tokyo: 17-19 October 2023
(Executive Committee Member)
25. 1st Seminar on Molecular Recognition Material/Supramolecular Device
Tokyo: 23 October 2023
(Organizer)
26. The 33rd Annual Meeting of Materials Research Society of Japan
Kanagawa: 14-16 November 2023
(Session Co-Organizer)
27. Bunseki Innovation 2024
Tokyo: 7-8 February 2024
(Executive Committee Member)
28. 2nd Seminar on Molecular Recognition Material/Supramolecular Device
Tokyo: 13 February 2024
(Organizer)
29. 10th Catalysis and Sensing for Our Environment Symposium (CASE 2024)
Tokyo: 10 April 2024
(Local Organizer)
30. 3rd Seminar on Molecular Recognition Material/Supramolecular Device
Tokyo: 30 July 2024
(Organizer)
31. 14th Chemical Society of Japan Chemistry Festa
Tokyo: 22-24 October 2024
(Executive Committee Member)
32. The 15th Asian Conference on Chemical Sensors
Fukuoka: 17-20 November 2024
(Executive Committee Member)

33. The 34th Annual Meeting of Materials Research Society of Japan
    Kanagawa: 16-18 December 2024
    (Session Co-Organizer)
34. Bunseki Innovation (FY2024)
    Tokyo: 23-24 December 2024
    (Executive Committee Member)
35. 4th Seminar on Molecular Recognition Material/Supramolecular Device
    Online: 8 January 2025
    (Organizer)
36. The 92nd Electrochemical Society of Japan Annual Meeting
    Tokyo: 18-20 March 2025
    (Executive Committee Member)
37. 5th Seminar on Molecular Recognition Material/Supramolecular Device
    Online: 25 March 2025
    (Organizer)
38. The 6th International Workshop on Symbiosis of Biology and Nanodevices
    Tokyo: 17-18 April 2025
    (Program Committee Member)
39. International Symposium on Macrocyclic and Supramolecular Chemistry 2025
    Kyoto: 25-30 May 2025
    (Local Organizing Committee Member)
40. The 22nd Symposium on Host-Guest and Supramolecular Chemistry
    Tokyo: 7-8 June 2025
    (Executive Committee Member)
41. NanoSeries 2025
    Valencia: 17-20 June 2025
    (Member of International Advisory Board)
42. 6th Seminar on Molecular Recognition Material/Supramolecular Device
    Tokyo: 24 July 2025
    (Organizer)
43. 7th Seminar on Molecular Recognition Material/Supramolecular Device
    Tokyo: 20 October 2025
    (Organizer)
44. 15th Chemical Society of Japan Chemistry Festa
    Tokyo: 22-24 October 2025
    (Executive Committee Member)
45. The 35th Annual Meeting of Materials Research Society of Japan
    Fukuoka: 10-12 November 2025
    (Session Co-Organizer)
46. 4th International Symposium on One Health, One World
    Roorkee: 20-22 November 2025
    (Technical Committee Member)
47. 8th Seminar on Molecular Recognition Material/Supramolecular Device
    Tokyo: 19 December 2025
    (Organizer)
48. Bunseki Innovation 2026
    Tokyo: 12-13 February 2026
    (Executive Committee Member)
49. Pittcon 2026
    San Antonio: 7-11 March 2026
    (Presider)
50. The 146th Annual Meeting of the Pharmaceutical Society of Japan
    Osaka: 26-29 March 2026
    (Symposium Organizer)
51. 10th Seminar on Molecular Recognition Material/Supramolecular Device
    Online: 12 May 2026

(Organizer)
52. #NanoSeries 2026
Turin: 15-17 June 2026
(Scientific Advisory Board Member, Session Organizer)
53. 11th Seminar on Molecular Recognition Material/Supramolecular Device
Tokyo: 3 July 2026 (Joint with RC-91)
(Organizer)
54. The 75th Annual Meeting of the Japan Society for Analytical Chemistry
Sendai: 15-17 September 2026
(Symposium Organizer)
55. BioNanoSeries 2026
Dresden: 30 September-2 October 2026
(Scientific Advisory Board Member, Workshop Chair)
56. 16th Chemical Society of Japan Chemistry Festa
Tokyo: 20-22 October 2026
(Executive Committee Member)
57. Bunseki Innovation (FY2026)
Tokyo: 4-5 November 2026
(Vice Chair, Executive Committee)
58. The 36th Annual Meeting of Materials Research Society of Japan
Kanagawa: 7-9 December 2026
(Session Co-Organizer)
59. IEEE International Electron Devices Meeting (IEDM) 2026
San Francisco: 12-16 December 2026
(Technical Session Chair)
60. Frontiers in Biological Detection: From Nanosensors to Systems, SPIE Photonics West 2027
San Francisco: 30 January-4 February 2027
(Program Committee Member)
61. The 2027 IEICE General Conference: Special Session CI-5 “Frontiers in Molecular Information Chemistry through Nano- and Microtechnologies”
Tokyo: 9-12 March 2027
(Session Organizer)
62. International Meeting on Chemical Sensors (IMCS) 2027
Montreal: 11-14 July 2027
(Symposium Organizer)
63. The 6th Asian Conference on Chemosensors and Imaging Probes (Asian-ChIP 2028)
Tokyo: March 2028 (planned)
(Main Chair)

RESEARCH KEYWORDS

supramolecular chemistry, host-guest chemistry, molecular recognition chemistry, interface chemistry, organic electronics, molecular electronics, bio/chemical sensor, chemosensor, sensor array, gene carrier, field-effect transistor, microfluidics, pattern recognition, nanomaterial, π-conjugated polymer, fluorophore, dye, low molecular weight gelator

EXTERNAL RESEARCH FUNDING (SELECTED)

Competitive research grants as PI (total): USD 3,165,030; industry/foundation research funding as PI (2016-pres.): USD 1,537,900.
JSPS KAKENHI Scientific Research (S) (Co-Investigator, 2025-2030).
JSPS KAKENHI Scientific Research (B) (PI, 2024-2027; 2021-2024).
JSPS KAKENHI Challenging Research (Exploratory) (PI, 2025-2027).
JSPS KAKENHI Transformative Research Areas (B) / Innovative Areas (PI).
JST J-RAPID (PI); NEDO (PI); JST CREST (Co-PI).
AMED P-PROMOTE (Research Co-Investigator, 2026–2029).

PAST AND CURRENT GROUP MEMBERS

The following personnel have been independently supervised or hosted by Tsuyoshi Minami.

	Name	(**Dates**)	**Financial Support**	**Status/Degree**
1.	Nishiki UCHIBE	(2016)	Self-supporting	Research Student
2.	Taisei MANO	(2016–2017)	Yamagata University	Research Student
3.	Yuki HASHIMA	(2016–2017)	NAIST	Research Student
4.	Tsukuru MINAMIKI	(2016–2018)	JSPS Research Fellowship (DC2)	Research Student
			JSPS Research Fellowship (PD)	Postdoc
5.	Yui SASAKI	(2016–2024)	JSPS Research Fellowship (DC1)	Ph.D.
			JSPS Research Fellowship (PD)	Postdoc
			Institute of Industrial Science	Project Research Associate
6.	Satoshi ITO	(2017–2018)	Nitto Denko Corporation	Collaborative Researcher
7.	Shiwei SU	(2017–2019)	Self-supporting	M. Eng.
8.	Michio AIKO	(2017–2019)	Institute of Industrial Science	Technical Assistant
9.	Mina Tsuchiya	(2017–pres.)	Institute of Industrial Science	Administrative Assistant
10.	Julie Meng ZHANG	(2018)	LIMMS Internship	Research Student
11.	Yosuke TORII	(2018)	UROP	Research Student
12.	Zhenbo CAO	(2018–2019)	Guilin University of Technology	Visiting Associate Research Fellow
13.	Pierre DIDIER	(2018–2020)	JSPS Research Fellowship (PD)	Postdoc
14.	Zhoujie ZHANG	(2018–2020)	Self-supporting	M. Eng.
15.	Yumie YAMANOBE	(2018–2022)	Institute of Industrial Science	Technical Assistant
16.	Yudai YOKOYAMA	(2019)	UROP	Research Student
17.	Jie ZHAO	(2019)	East China Normal University	Research Student
18.	Vahid HAMEDPOUR	(2019–2020)	Institute of Industrial Science	Postdoc
19.	Katsumasa NAKAHARA	(2019–2020)	JNC Corporation	Collaborative Researcher
20.	Cecile BOSMANS	(2019–2020)	LIMMS Internship	Research Student
21.	Amal ESSAOUIBA	(2019–2020)	IIS Internship	Research Student
22.	Hans BLOMENKAMP	(2019–2020)	IIS Internship	Research Student
23.	Nanae UCHINO	(2019–2020)	Institute of Industrial Science	Technical Assistant
24.	Riku KUBOTA	(2019–2021)	Institute of Industrial Science	Project Research Associate
25.	Koichiro ASANO	(2019–2021)	Self-supporting	M. Eng.
26.	Hiroshi IWAWAKI	(2020–2021)	Sumitomo Chemical Company	Corporate Researcher
27.	Riho MITOBE	(2020–2022)	Self-supporting	M. Eng.
28.	Qi ZHOU	(2020–2022)	Self-supporting	M. Eng.
29.	Xiaojun LYU	(2020–2025)	JSPS Research Fellowship (DC1)	M. Eng./Ph.D.
30.	Tomoko MINEGISHI	(2021)	Institute of Industrial Science	Technical Assistant
31.	Masahumi TAKESUE	(2021–2022)	Kao Corporation	Corporate Researcher
32.	Ayako MAKANAI	(2021–2022)	Institute of Industrial Science	Administrative Assistant
33.	Hao WU	(2021–2023)	Self-supporting	M. Eng.
34.	Yousi YUAN	(2021–2023)	Self-supporting	M. Eng.
35.	Wei TANG	(2021–2023)	Self-supporting	M. Eng.
36.	Kohei OHSHIRO	(2021–2023)	Self-supporting	M. Eng.
37.	Haonan FAN	(2021–2023)	Self-supporting	M. Eng.
38.	Hitomi TABUCHI	(2021–2023)	Institute of Industrial Science	Technical Assistant
39.	Akira MATSUMOTO	(2021–pres.)	SPRING GX	M. Eng./Ph.D. (expected)
40.	Charlotte BOUQUEREL	(2022)	JSPS	Short Term Special Fellow
41.	Toshihide IWATSUKI	(2022)	UROP	Research Student
42.	Julien LAMBERT	(2022–2023)	IIS Internship	Research Student
43.	Kiyosumi OKABE	(2022–2024)	Self-supporting	M. Eng.
44.	Kazuhiko TSUCHIYA	(2022–2025)	Institute of Industrial Science	Technical Assistant
45.	Miyuki KATO	(2022–2025)	Institute of Industrial Science	Technical Assistant
46.	Yukiko TERASAKI	(2022–pres.)	Institute of Industrial Science	Administrative Assistant
47.	Arindam PAL KUMAR	(2023)	Amgen	Research Student
48.	Taku SUZUKI-OSBORNE	(2023)	Self-supporting	Research Student
49.	Ramesh ADHIKARI	(2023)	Picker Research Fellowship	Visiting Associate

				Research Fellow
50.	Elena CAMILLI	(2023)	IIS Internship	Research Student
51.	Rolen Brian RIVERA	(2023–2024)	Mindanao State University	Research Student
52.	Binduja MOHAN	(2023–2024)	Institute of Industrial Science	Postdoc
53.	Johannes KLUGER	(2023–2024)	IIS Internship	Research Student
54.	Yusuke YAMANASHI	(2023–2024)	JNC Corporation	Collaborative Researcher
55.	Qiang LI	(2023–2024)	CSC Scholarship	Visiting Associate Research Fellow
56.	Lizheng YAO	(2023–2025)	Self-supporting	M. Eng.
57.	Takahisa NIWA	(2023–2025)	Self-supporting	M. Eng.
58.	Sinta SETYANINGRUM	(2023–pres.)	LPDP Scholarship	Ph.D. (expected)
59.	Yijing ZHANG	(2023–pres.)	MERIT-WINGS	M. Eng./Ph.D. (expected)
60.	Jun-ichi OGAWA	(2023–pres.)	Yokogawa Electric Corporation	Collaborative Researcher
61.	Alisa SVIRINA	(2024)	LIMMS Internship	Research Student
62.	Marisca AULIA	(2024)	Amgen	Research Student
63.	Mirei YAMAZAKI	(2024)	UROP	Research Student
64.	Wenhai WANG	(2024–2025)	CSC Scholarship	Research Student
65.	Sachiko OKAMOTO	(2024–2025)	Institute of Industrial Science	Technical Assistant
66.	Tsuyoshi OHTANI	(2024–2025)	Shiseido Company	Collaborative Researcher
67.	Mai OKA	(2024–pres.)	Institute of Industrial Science	Administrative Assistant
68.	Stéphane CHEVALIER	(2024–2025)	CNRS	Visiting Associate Research Fellow
69.	Rikitha S. FERNANDES	(2025)	IIS Internship	Research Student
		(2026.05–2026.09)	Institute of Industrial Science	Project Researcher
70.	Félix LAVANCHY	(2025)	LIMMS Internship	Research Student
71.	Arthur GONTIER	(2025)	IIS Internship	Research Student
72.	Masataka OEKI	(2025)	Ajinomoto Co. Inc.	Collaborative Researcher
73.	Tomomi ISHIHARA	(2025–pres.)	Institute of Industrial Science	Technical Assistant
74.	Yoshika FUJINO	(2025–pres.)	Institute of Industrial Science	Technical Assistant
75.	Chinatsu MATSUDA	(2025–2026)	Institute of Industrial Science	Technical Assistant
76.	Jeric M. FLORES	(2025–pres.)	MEXT Scholarship	Ph.D. (expected)
77.	Guangyi YIN	(2025–pres.)	Self-supporting	M. Eng. (expected)
78.	Hiroto HAYASHI	(2025–pres.)	Self-supporting	M. Eng. (expected)
79.	Muthukumar GOVINDARAJ	(2025–pres.)	Institute of Industrial Science	Postdoc
80.	Mallikarjuna Swamy SHABANUR MATADA	(2025–pres.)	Institute of Industrial Science	Postdoc
81.	Atsushi HARADA	(2025–2026)	Tokai Rika Co., Ltd.	Collaborative Researcher
82.	Mitsuko MIYOSHI	(2025–2026)	Yukashikado Inc.	Collaborative Researcher
83.	Naoki NOBATA	(2026)	Tokai Rika Co., Ltd.	Collaborative Researcher
84.	Tamaki YOSHIHARA	(2026)	Institute of Industrial Science	Technical Assistant
85.	Mai YAMADA	(2026–pres.)	Institute of Industrial Science	Technical Assistant
86.	Naomi KOGA	(2026–pres.)	Institute of Industrial Science	Administrative Assistant
87.	Farad KHOYRATEE	(2026–pres.)	CNRS	International Cooperation Researcher

In addition, he assisted Prof. Shizuo Tokito at Yamagata University in supervising the following students.

	Name	(**Dates**)	**Degree**
1.	Yuki HASHIMA	(2014–2015)	B. Eng.
2.	Koichi SAWADA	(2014–2015)	B. Eng.
3.	Hirofumi TAKEDA	(2014–2015)	B. Eng.
4.	Tsukuru MINAMIKI	(2014–2017)	M. Eng./Ph.D.
5.	Nishiki UCHIBE	(2015–2016)	B. Eng.
6.	Yui SASAKI	(2015–2017)	B. Eng./M. Eng.

PLENARY, KEYNOTE AND INVITED LECTURES / RESEARCH COLLOQUIA / SEMINARS

1. Sensing of Bioactive Amines by Fluorescent Cucurbituril Derivatives
   Department Seminar, Okayama University, Okayama, Japan (2013)
2. Development of supramolecular sensors that function in aqueous solutions and their microarray-based simultaneous analysis of multiple components
   Biomedical Research Division Seminar, National Institute of Advanced Industrial Science and Technology Tsukuba Center, Ibaraki, Japan (2014)
3. Development of flexible organic transistors by printing methods and their application to next-generation chemical/biosensors
   Joint Meeting of the Tohoku Area Chemistry Societies, Yamagata University, Yamagata, Japan (2014)
4. Fundamental Research on Biosensors and Chemical Sensors Using Organic Transistors
   Seminar at Bionano Measurement Group, National Institute of Advanced Industrial Science and Technology Shikoku Center, Kagawa, Japan (2015)
5. Development of Sensing Devices Based on Organic Transistors
   Organic Electronics-Related Technology Lecture Series, Yamagata University, Yamagata, Japan (2015)
6. Development of Sensor Devices Based on Organic Transistors
   Lecture at Renesas Semiconductor Package & Test Solutions Co., Ltd., Yamagata, Japan (2015)
7. Exploratory Research on Sensor Devices with Organic Transistors
   Seminar at Organic Chemistry Research Institute, Ube Industries, Yamaguchi, Japan (2015)
8. Development of an Organic Transistor-Based Biosensor Using a Gold Gate Electrode
   Tanaka Holdings Gold Award Commemorative Lecture, Industrial Club of Japan, Tokyo, Japan (2015)
9. Development of Facile Food Management System by Histamine-responsive Organic Thin-Film Transistors
   Lecture at TOBE Maki Foundation, Tokushima Grandvrio Hotel, Tokushima, Japan (2015)
10. Pioneering of Organic Transistors: Applications to Chemical and Biosensing
    Lecture on Organic Electronics Materials, the 212nd Symposium “Featured Young Scientists”, Shinjuku NS Building, Tokyo, Japan (2015)
11. Future Prospects and Most Recent Topics of Organic Transistor-Type Sensors
    Organic Electronics-Related Technology Lecture Series, Yamagata University, Yamagata, Japan (2015)
12. Pioneering Research on Organic Transistors: Applications to Chemical Sensors and Biosensors
    Japan Association for Chemical Innovation (JACI), Division of Electronic Information Technology, Next-Generation Electronics Forum, Sanbancho KS Building Tokyo, Japan (2016)
13. Development of Chemical Sensors based on Organic Thin-Film Transistors Functionalized with Molecular Recognition Materials
    Special Lecture for Young Researchers at the 96th Annual Meeting of The Chemical Society of Japan, Doshisha University, Kyoto, Japan (2016)
14. Development of Chemical Sensors based on Organic Thin-Film Transistors Functionalized with Molecular Recognition Materials
    ERATO Seminar, The University of Tokyo, Tokyo, Japan (2016)
15. Development of Organic Thin-Film Transistor-Type Chemical Sensors with Molecular Recognition Abilities
    Seminar at Division of Materials Science, Nara Institute of Science and Technology, Nara, Japan (2016)
16. Fusion Research of Organic Transistors and Molecular Recognition Chemistry: Invention of Organic Transistor-Type Chemical Sensors
    Lecture at Research Institute, DIC Corporation, Chiba, Japan (2016)
17. Development of Organic Transistor-Type Chemical Sensors with Molecular Recognition Abilities
    Seminar at Bio-Micro-Nano Technology Study Group, The University of Tokyo, Tokyo, Japan (2016)
18. Organic transistors: New chemical sensors enabled by the integration of molecular recognition chemistry and electronic device engineering
    Seminar at the 151st Industry-Academia Collaboration Research Committee on Advanced Nano Devices and Materials Technology of Japan Society for the Promotion of Science (JSPS), RIKEN, Saitama, Japan (2016)
19. Biosensor Application of Printed Dual Gate-Type Organic Transistors
    The 77th Autumn Meeting of The Japan Society of Applied Physics, Toki Messe, Niigata, Japan (2016)
20. Organic Field-Effect Transistor: An Attractive Platform for Chemical Sensing Applications

The 65th Annual Meeting of the Japan Society for Analytical Chemistry, Hokkaido University, Hokkaido, Japan (2016)

21. Recent Developments in Organic Transistor-Type Chemical Sensors
    Seminar at Japan Inorganic Chemical Industry Association, Tekko Kaikan, Tokyo, Japan (2016)
22. Recent Developments in Biosensing Using Supramolecular Devices
    Seminar at Next-Generation Bio-Medical Technology Study Group, The University of Tokyo, Tokyo, Japan (2016)
23. Applied Supramolecular Chemistry: Exploratory Research Toward Practical Applications in Molecular Sensors
    The NTU-UT Joint Conference, National Taiwan University, Taipei, Taiwan (2016)
24. Organic Transistor-Type Chemical Sensors Based on Molecular Recognition Chemistry
    The 213rd Seminar of Future Chemistry, Kyushu University, Fukuoka, Japan (2016)
25. Applied Supramolecular Chemistry: Exploratory Research Toward Practical Applications in Molecular Sensors
    Seminar at College of Chemistry and Molecular Engineering, East China Normal University, Shanghai, China (2016)
26. Sensor Devices and Chips Based on Supramolecular Analytical Chemistry
    The Kanto Branch of the Japan Society for Analytical Chemistry, Akihabara Dai Building, Tokyo, Japan (2017)
27. Development of Chemical Sensor Devices Based on Organic Thin-Film Transistors
    CHEMINAS 35, Tokyo Institute of Technology, Tokyo, Japan (2017)
28. Will Supramolecular Materials Commit into the Progress of Analytical Chemistry?
    Young Scientists Mixer Meeting of the Kanto Branch of Japan Society of Analytical Chemistry 2017, Hotel New Shiobara, Tochigi, Japan (2017)
29. Development of Optical and Electrochemical Sensor Devices with Molecular Recognition Abilities
    66th Annual Meeting of the Japan Society for Analytical Chemistry, Tokyo University of Science, Tokyo, Japan (2017)
30. Detection of substances in saliva using organic thin-film transistors
    66th Annual Meeting of the Japan Society for Analytical Chemistry, Tokyo University of Science, Tokyo, Japan (2017)
31. Chemical Sensors and Biosensors Using Organic Thin-Film Transistors
    59th Symposium of the 174th Committee on Molecular Nanotechnology of Japan Society for the Promotion of Science (JSPS), Campus Plaza Kyoto, Kyoto, Japan (2017)
32. Molecular self-assembled colorimetric chemosensor arrays
    The 3rd International Workshop on Chromogenic Materials and Devices, Tokyo Metropolitan University, Tokyo, Japan (2017)
33. Why Study?
    Visiting Lecture at Saitama Prefectural Warabi High School, Saitama, Japan (2017)
34. Frontiers of Supramolecular Chemistry
    Visiting Lecture at Ibaraki Junior High School and High School, Ibaraki, Japan (2017)
35. Applications of Organic Transistors to Chemical Sensors
    The Japan Society for the Promotion of Science, Committee No. 142, Section C, The 78th Meeting, Tokyo University of Science, Tokyo, Japan (2017)
36. A chemical sensor based on an organic thin-film transistor for label-free detection of proteins
    17th Asia-Pacific International Symposium on Microscale Separations and Analysis, Songjiang New Century Grand Hotel, Shanghai, China (2017)
37. Supramolecular Sensors for Addictive Drugs
    The Symposium on Biosensing and Bioimaging for Neuroscience (SBBN) 2017, East China Normal University, Shanghai, China (2017)
38. Supramolecular Chemical Sensors
    Frontiers in Materials, Sensors and Devices for Humanophilic Innovation, Nara Institute of Science and Technology, Nara, Japan (2017)
39. Label-Free and Antibody-Free Protein Detection Based on Organic TFTs
    The 24th International Display Workshop (IDW), Sendai International Center, Miyagi, Japan (2017)
40. Reading Out Molecular Recognition Information by Organic Thin-Film Transistors
    The 20th Forum on Biomolecular Chemistry, The Chemical Society of Japan, Hakoneji Kaiun, Kanagawa,

Japan (2018)

41. Organic Thin Film Transistor-Type Chemical Sensors Utilizing Gold Electrodes
    The 79th Special Joint Symposium on Rare Metals Study Group, The University of Tokyo, Tokyo, Japan (2018)
42. Organic Thin-Film Transistor-Type Chemical Sensor with Molecular Recognition Ability
    The 85th Annual Meeting of the Electrochemical Society of Japan, Tokyo University of Science, Tokyo, Japan (2018)
43. Biosensing Utilizing Organic Thin-Film Transistors
    The 98th Chemical Society of Japan Annual Meeting, Nihon University, Chiba, Japan (2018)
44. Molecular Self-assembled Colorimetric Chemosensor Arrays
    The 98th Chemical Society of Japan Annual Meeting, Nihon University, Chiba, Japan (2018)
45. Development of Sensor Devices and Chips Based on Supramolecular Analytical Chemistry
    The 18th Seminar on Supramolecular Chemistry, The University of Tokyo, Tokyo, Japan (2018)
46. Organic transistor-based chemical sensors
    Joint French Japanese technology and bioengineering against liver disorders, The University of Tokyo, Tokyo, Japan (2018)
47. Molecular Self-Assembled Supramolecular Sensor Arrays
    Collaborative Conference on Materials Research 2018, Songdo Convensia, Seoul, South Korea (2018)
48. Design, Fabrication and Sensing Ability of Polymer Transistor-type Chemical Sensors
    64th Kobe Polymer Research Symposium, Hyogo Prefectural Hall, Hyogo, Japan (2018)
49. Development of Optical Chemosensor Array Based on Polythiophenes
    67th Symposium on Macromolecules, Hokkaido University, Hokkaido, Japan (2018)
50. Electrical detection of biomolecules using organic transistors
    M&BE Meeting for Innovation of New Fields, NHK Science & Technology Research Laboratories, Tokyo, Japan (2018)
51. Sensor Devices and Chips Based on Molecular Recognition Chemistry
    Lecture at Sensor & IoT Consortium, Sekisui Chemical Co., Ltd., Tokyo Headquarters, Tokyo, Japan (2018)
52. Supramolecular Material-based Chemical Sensors
    Seminar at College of Chemistry and Molecular Engineering, East China Normal University, Shanghai, China (2018)
53. Supramolecular Material-based Sensors
    Seminar at College of Materials Science and Engineering, Guilin University of Technology, Guilin, China (2018)
54. Fundamental Research of Biosensors Basedon Organic Transistors with Self-Assembled Monolayer-Functionalized Electrodes
    Seminar at College of Chemistry and Molecular Engineering, East China Normal University, Shanghai, China (2018)
55. Sensor Devices and Chips Based on Supramolecular Analytical Chemistry
    M&BE Workshop, The University of Tokyo, Tokyo, Japan (2018)
56. Organic Thin-Film Transistor-Based Chemical Sensors for IoT Society
    Tokyo City University Salon, Tokyo City University, Tokyo, Japan (2018)
57. Supramolecular-Material Based Sensors
    Institut des Sciences Chimiques de Rennes, Ille-et-Vilaine, France (2018)
58. Organic transistor-based biosensors toward healthcare applications
    Département Hospitalo-Universitaire Hepatinov, Paris, France (2018)
59. Organic Transistor-based Biosensors
    Seminar at University of Technology of Compiegne, Oise, France (2018)
60. Organic Transistor-based Biosensors
    SMMiL-E Seminar, Institut pour la Recherche sur le Cancer de Lille, Nord, France, (2018)
61. Sensor Chips and Devices Based on Supramolecular Analytical Chemistry
    The 81st Seminar on Supramolecular Chemistry, Ritsumeikan University, Shiga, Japan (2019)
62. Organic transistors with molecular recognition abilities
    Joint Research Seminar of Institute of Scientific and Industrial Research of Osaka University and Institute of Industrial Science of the University of Tokyo, The University of Tokyo, Tokyo, Japan (2019)
63. Supramolecular Chemosensors

Seminar at Polymer Research Institute, National Taiwan University, Taipei, Taiwan (2019)

64. Supramolecular Chemical Sensors
    Seminar at Institute of Medical Engineering, National Yang-Ming University, Taipei, Taiwan (2019)
65. Organic Transistor-based Biosensors
    Seminar at Institute of Applied Chemistry, National Taiwan University of Science and Technology, Taipei, Taiwan (2019)
66. Organic transistors with molecular recognition abilities
    1st Regular Lecture in 2019, Printed Electronics Association, Toppan Forms Headquarters, Tokyo, Japan (2019)
67. Supramolecular Chemosensor Arrays
    Seminar at College of Materials Science and Engineering, Guilin University of Technology, Guilin, China (2019)
68. Supramolecular Materials Design
    Design Academy Inspire Talk, THE CORE KITCHEN/SPACE, Tokyo, Japan (2019)
69. Toward Practical Applications of Molecular Recognition Materials
    ADEKA Lecture, KOUHEKI Hall, Tokyo, Japan (2019)
70. Development of Glyphosate Sensors
    Workshop on Advanced Materials and Devices, East China Normal University, Shanghai, China (2019)
71. Development of Sensors Based on Supramolecular Chemistry
    Kanto Polymer Young Researchers' Summer Camp 2019, Namikaze Tateyama, Chiba, Japan (2019)
72. Organic Transistor-Type Chemical Sensors Based on Molecular Recognition Chemistry
    Japan Association for Chemical Innovation (JACI), Division of Electronic Information Technology, Next-Generation Electronics Forum, Sanbancho KS Building, Tokyo, Japan (2019)
73. Drug detection based on supramolecular sensors
    The 32nd Symposium on Biomedical Analytical Sciences, Musashino University, Tokyo, Japan (2019)
74. Organic Transistor-Type Chemical Sensors Based on Molecular Recognition Chemistry
    The 80th Autumn Meeting of the Japan Society of Applied Physics, Hokkaido University, Hokkaido, Japan (2019)
75. Organic transistor-based chemical sensors
    Workshop IIS – MESA+, University of Twente, Overijssel, Netherlands (2019)
76. Simultaneous Multicomponent Analysis by Supramolecular Sensor Arrays and Chemometrics
    The Chemical Society of Japan, The 9th CSJ Chemistry Festa, Tower Hall Funabori, Tokyo, Japan (2019)
77. Organic transistor-based biosensors
    UTC iLite LIMMS workshop, Centre Hepato Biliaire, Paris, France (2019)
78. Organic transistor-based biosensors
    UTC iLite LIMMS workshop, University of Technology of Compiegne, Oise, France (2019)
79. Glucose Sensing in Microfluidic Device
    20 Years of Microfluidics Between France and Japan, Institute of Pierre-Gilles de Gennes, Paris, France (2019)
80. Supramolecular Sensors: Exploratory Research toward Practical Applications in Molecular Sensors.
    Department Seminar, SRM Institute of Science and Technology, Chennai, India (2019)
81. Molecular Self-Assembled Supramolecular Sensor Arrays for Environmental and Biochemical Application
    3rd Asian Conference on Chemosensors & Imaging Probes, Guru Nanak Dev University, Amritsar, India (2019)
82. Simultaneous multi-component detection method using pattern recognition and machine learning
    Organic Molecules and Bioelectronics Subcommittee Seminar, The University of Tokyo, Tokyo, Japan (2019)
83. Organic TFT-based Biosensors Functionalized with Artificial Receptors
    International Display Workshop (IDW)'19, Sapporo Convention Center, Hokkaido, Japan (2019)
84. Supramolecular Sensors
    Visiting Lecture, Unit DX, Carbometrics Ltd., Bristol, England (2019)
85. Design of Supramolecular Sensors and Their Applications to Optical Chips and Organic Devices
    Workshop IIS – U Bordeaux, University of Bordeaux, Bordeaux, France (2019)
86. Supramolecular Sensors for the Detection of Carcinogen
    SMMiL-E Workshop on BioMEMS for Cancer, Lille University, Nord, France (2019)
87. Electrical Detection of Glyphosate by an Electrolyte-gated Organic Transistor

Bio4Apps2019, Kagoshima University, Kagoshima, Japan (2019)

88. Chemical Sensing Based on Organic Transistors
    Seoul National Univ. (SNU) / IIS, The Univ. of Tokyo Joint Workshop on Innovative Micro/Nano systems, Seoul National University, Seoul, South Korea (2020)
89. Self-Assembled Chemosensor Arrays
    2019 International Conference for Leading and Young Medical Scientists (IC-LYMS 2019), GIS TAIPEI TECH Convention Center, Taipei, Taiwan (2019) (Keynote Lecture)
90. Development of supramolecular sensor chips and devices
    Supramolecular Research Group, The Society of Polymer Science, Japan, Chuo University, Tokyo, Japan (2020)
91. Design of supramolecular sensors and their application to optical chips and organic devices
    The 100th Chemical Society of Japan Annual Meeting, Tokyo University of Science, Chiba, Japan (2020)
92. High-throughput Analysis based on Supramolecular Sensor Arrays
    Recent Advances in Materials Science and Technology, SRM Institute of Science & Technology, online (2020)
93. Chemical sensors based on organic transistors
    FIoT Consortium 1st Research Meeting, National Institute of Advanced Industrial Science and Technology, Tokyo, Japan (2020)
94. Molecular Recognition by Water-gated Organic Transistors
    The Chemical Society of Japan, 10th CSJ Chemistry Festa 2020, online (2020)
95. Emerging-electronics innovation for SDGs: Toward synergy among young researchers
    Tsukuba Global Science Week 2020, online (2020)
96. Extended Gate-Type Organic Thin-Film Transistors as Chemical Sensing Platforms for Healthcare Applications
    The 10th International Conference on Electronics, Communications and Networks (CECNet2020), online (2020)
97. Organic FET-based Biosensors and Chemical Sensors
    Nagoya University First Electronics Seminar “Development and Future Prospects of Bioelectronics”, online (2020)
98. Development of a paper substrate sensor device enabling rapid and accurate detection of COVID-19
    JST President's Press Conference, Tokyo, Japan (2020)
99. Development of Chemical Sensors Based on Polymer Thin-Film Transistors
    3rd GLowing Polymer Symposium in KANTO (GPS-K 2020), online (2020)
100. Chemical Sensing in Aqueous Media by Organic TFTs
    The 66th IEDM Conference 2020, online (2020)
101. Interdisciplinary research of organic transistors: microfluidics, molecular recognition chemistry, and chemical sensing.
    6th International Conference on Nanoscience and Nanotechnology-2021 (ICONN-2021), online (2021)
102. Self-Assembled Chemosensor Arrays
    5th International Conference on Recent Advances in Material Chemistry (ICRAMC-2021), online (2021)
103. Paper-Based Sensor Devices for Rapid and Accurate Detection of COVID-19
    Japan Science and Technology Agency (JST) in 2021: Core Activities, online (2021)
104. Supramolecular Chemosensors and Their Arrays
    International Webinar on Advances in Environmental and Chemical Sciences, online (2021)
105. Organic transistors for chemical sensing applications
    Workshop between MESA+ and IIS 2021, online (2021)
106. Design and development of sensors for analyzing multi-component chemical information
    The 81st Symposium of the Japan Society for Analytical Chemistry, online (2021)
107. Fabrication of chemical sensor devices using office apparatuses, and simultaneous detection of multiple components using pattern recognition techniques
    Image Sensing Show 2021, online (2021)
108. Organic Transistor-based Chemical Sensors Utilizing Self-Assembled Monolayers
    18th Symposium on Host-Guest and Supramolecular Chemistry, online (2021)
109. Material design for practical chemical sensing using pattern recognition
    4th Sensor & IoT Seminar, online (2021)
110. Organic thin-film transistor-based chemical sensors functionalized with artificial receptors

The 21st IEEE International Conference on Nanotechnology, online (2021)

111. Supramolecular Analytical Devices: Toward On-site Analysis in Real-world Scenarios
IUPAC WORLD CHEMISTRY CONGRESS 2021 VIRTUAL, online (2021)
112. Development of Supramolecular Sensors using Host-Guest Interactions and Their Applications to Optical Array Chips
Annual Meeting on Photochemistry 2021, online (2021)
113. How to detect invisible molecules and ions
Visiting Lecture at Saitama Prefectural Urawa First Girls' High School, Saitama, Japan (2021)
114. Development of chemical sensors for on-site detection
Future Technologies from HIMEJI, online (2021)
115. Chemical Sensors Based on Water-Gated Organic Thin-Film Transistors
11th International Conference on Electronics, Communications and Networks (CECNet2021), online (2021)
116. Self-Assembled Supramolecular Sensor Arrays
2nd Virtual International Conference on Chemical Sciences in Sustainable Technology and Development (IC2S2TD-2021), online (2021) (Keynote Lecture)
117. Supramolecular Analytical Devices: Organic Transistor-based Chemical Sensors with Molecular Recognition Materials
31st Annual Meeting of the Materials Research Society of Japan, online (2021)
118. Extended gate-type organic field-effect transistors as chemical sensing platforms
The International Chemical Congress of Pacific Basin Societies (Pacifichem) 2021, online (2021)
119. Water-gated organic transistors for chemical sensing application
The International Chemical Congress of Pacific Basin Societies (Pacifichem) 2021, online (2021)
120. Fluorescence and Colorimetric Supramolecular chemosensor arrays
Center for Photonic Materials and Nanotechnology (NPEM) Colloquium, The University of Tokyo, Tokyo (2022)
121. Organic transistor-based chemical and biosensors for real sample analysis
72nd Symposium of the 174th Industry-Academia Collaboration Committee on Molecular Nanotechnology of Japan Society for the Promotion of Science (JSPS), online (2022)
122. Organic transistor-based chemical sensors for real sample analysis
The 2022 Institute of Electronics, Information and Communication Engineers General Conference, online (2022)
123. Real-sample analysis utilizing supramolecular chemical sensor chips and devices
The 102nd Chemical Society of Japan Annual Meeting, online (2022)
124. Toward the realization of chemical sensors that can be easily measured by anyone onsite
2nd OHOW Open Lecture, online (2022)
125. Development of an oxytocin sensor aimed at promoting maternal and child health
The 82nd Symposium of the Japan Society for Analytical Chemistry, Ibaraki University, Ibaraki, Japan (2022)
126. Design of Supramolecular Sensors and Their Applications to Optical Chips and Organic Devices
Meeting BIoMEG, LIMMS & University of Bordeaux & CNRS & The University of Tokyo Institute of Industrial Science, online (2022)
127. Smart sensors axis
International Workshop on Micro- and Nano-Technologies for Energy, Bio-engineering and Bio-sensing with JETMeE Workshop, online (2022)
128. Organic transistor-based chemical sensors with host-guest chemistry
7th International Conference on Molecular Sensors & Logic Gates, Radisson Blu Hotel, Dublin, Ireland (2022)
129. Toward the realization of chemical sensors that can be used by anyone, anywhere
1st Joint Student Seminar between the Univ. of Tokyo and Univ. of Dhaka, online (2022)
130. Supramolecular Chemical Sensor Devices for Real-Sample Analysis
Super-global network on Seoul National Univ. (SNU)/ The University of Tokyo Institute of Industrial Science, Joint Workshop on Innovative Micro/Nano systems, Seoul National University, Seoul, South Korea (2022)
131. Preparation of Molecular Self-Assembled Chemosensors without Organic Synthesis and Their Arrays
The 71st Annual Meeting of the Japan Society for Analytical Chemistry, Okayama University, Okayama,

Japan (2022)
132. Organic transistor-based chemical / biosensors for accurate real-sample analysis
Lecture at Laboratory for Analysis and Architecture of Systems (LAAS), Toulouse, France (2022)
133. Real-sample analysis based on organic field-effect transistors
NanoInnovation2022, Rome, Italy (2022)
134. Toward the realization of chemical sensors that can be used by anyone, anywhere
Lecture at the Department of Biological Engineering, University of Technology of Compiegne, Oise, France (2022)
135. Organic field-effect transistor-based chemical / biosensors
Seminar at Institute of Pierre-Gilles de Gennes, Paris, France (2022)
136. Toward the realization of chemical sensors that can be used by anyone, anywhere
Lecture at Biomechanics and Bio-Materials Course, University of Technology of Compiegne, Oise, France (2022)
137. Toward easy-to-use food sensor devices: a supramolecular approach
Lecture at Science Institute of Vine and Wine, University of Bordeaux, Bordeaux, France (2022)
138. Supramolecular chemical sensing utilizing pattern recognition
The 74th Japan Society of Biotechnology 100th Anniversary Commemorative Meeting, Japan, online (2022)
139. Towards easy-to-use chemical sensor devices: a supramolecular approach
Online Seminar, Science Institute of Vine and Wine, University of Bordeaux, online (2022)
140. Organic Thin-film transistor-based Chemical Sensors Toward Real-sample Analysis
12th International Conference on Electronics, Communications and Networks (CECNet2022), online (2022)
141. Chemical sensors based on organic field-effect transistors for real-sample analysis.
11th IEEE CPMT Symposium Japan (ICSJ2022), Kyoto University, Kyoto, Japan (2022)
142. On-Site Chemical Sensing.
SEKISUI WORKSHOP Inspire Talk, The University of Tokyo, Tokyo, Japan (2022)
143. Organic Transistor-based Chemical Sensors
2022 IEMN-LIMMS Workshop, online (2022)
144. Pattern Recognition-Driven Chemical Sensing Based on an Organic Transistor
13th International Conference on Nano-Molecular Electronics (ICNME2022), Tokyo Institute of Technology, Tokyo, Japan (2022)
145. Design of Organic Transistor-based Bio/Chemical Sensors for Real-sample Analysis
International E-Symposium on Materials Development and Scale-up for Membrane Separation, Sensing, Energy and Biological Applications (MDS-MSEB)-2023, online (2023)
146. Supramolecular sensor devices for real-sample analysis
Special Seminar, Bowling Green State University, Ohio, USA (2023)
147. Solid-state optical chemosensor array devices for real-sample analysis
SPIE Photonics West, Moscone Center, San Francisco, California, USA (2023)
148. Development of organic transistor-based chemical sensors
Noguchi Shitagau Research Grant Lecture, online (2023)
149. Non-enzymatic glucose detection utilizing an organic transistor functionalized with an artificial receptor.
7th edition of the biennial International Conference on Nanoscience and Nanotechnology-2023 (ICONN-2023), online (2023)
150. Organic Transistor-based Chemical Sensors with Artificial Receptors
J. S. Fossey Memorial Symposium, University of Birmingham, Birmingham, UK (2023)
151. Toward the realization of chemical sensors that can be used by anyone, anywhere
Seminar at Faculty of Engineering, Institute for Nanotechnology and Advanced Materials, Bar-Ilan University, Tel Aviv, Israel (2023)
152. How to detect invisible molecules and ions
Visiting Lecture at Tottori Prefectural Tottori Higashi High School, Tottori, Japan (2023)
153. Supramolecular optical sensors and their devices toward on-site analysis
Lecture at Bachelor Degree Program in Marine Biotechnology, National Taiwan Ocean University, online (2023)
154. π-Conjugated polymer-based chemical sensors
Lecture at Institute of Polymer Science and Engineering, National Taiwan University, Taipei, Taiwan

(2023)

155. Supramolecular chemosensor arrays for real-sample analysis
ASIASENSE 2023, Bali, Indonesia (2023) (Keynote Lecture)
156. Development of organic transistor-based bio/chemical sensors for real-sample analysis
The 19th International Meeting on Chemical Sensors (IMCS 2023), Jilin University, Changchun, China (2023)
157. Development of Supramolecular Sensor Devices for Real-Sample Analysis
Lecture at Department of Chemistry, Tsinghua University, Beijing, China (2023)
158. Supramolecular chemosensors for real-sample analysis
Lecture at College of Materials Sciences and Engineering, Guilin University of Technology, Guilin, China (2023)
159. Development of Supramolecular Sensor Devices for Real-Sample Analysis
Lecture at Department of Chemistry, East China Normal University, Shanghai, China (2023)
160. Development of Supramolecular Sensor Devices for Real-Sample Analysis
Lecture at School of Chemical Science and Engineering, Tongji University, Shanghai, China (2023)
161. Paper-based optical chemosensor arrays
RSC-Tokyo International Conference, Makuhari Messe, Chiba, Japan (2023)
162. Chemical Sensing Based on Organic Transistors
The 84th Autumn Meeting of the Japan Society of Applied Physics, Kumamoto Castle Hall, Kumamoto, Japan (2023)
163. Simple Methods to Read Out Molecular Information Even in the Presence of Interferents
The 17th Summer School of Ferroic-ordering and Their Manipulation, Reference Canal City Hakata, Fukuoka, Japan (2023)
164. Chemical sensors based on organic field-effect transistors for real-sample analysis
Japan-France-Korea Workshop on Emerging Biomedical Science and Technology at the Nanoscale 2023, The University of Tokyo, Tokyo, Japan (2023)
165. Chemical sensors based on organic field-effect transistors
International Workshop on Micro- and Nano-Technologies for Energy, Bio-engineering and Biosensing with JETMeE Workshop LIMMS/CNRS-IIS, IEMN-CNRS & Partners, The University of Tokyo, Tokyo, Japan (2023)
166. Organic FET-based Chemical Sensors
Joint Workshop on Innovative Micro/Nano Systems SNU BK21 GoGE/SDG Program International Workshop, Seoul National University, Seoul, South Korea (2023)
167. Supramolecular sensors and their devices
Academic Lecture Program, the Faculty of Advanced Technology and Multidiscipline, Airlangga University, online (2023)
168. What is sensing?
9th Lunchtime Petit Talk, The University of Tokyo, Tokyo, Japan (2023)
169. Comprehensive detection of flavor components using pattern recognition.
30th Anniversary of Imaging Science Encouragement Award Presentation, Konica Minolta Science and Technology Foundation, Tokyo Tama Mirai Messe, Tokyo, Japan (2023)
170. Organic transistor-based chemical sensors based on supramolecular chemistry.
Forum on Molecular Science and Health, East China Normal University, Shanghai, China (2023)
171. Development of self-assembled chemosensors and their array chips for on-site analysis
New Century Award Lecture, the Kanto Branch of the Japan Society for Analytical Chemistry, Nomura Building, Tokyo, Japan (2024)
172. Supramolecular sensor devices based on organic transistors
The Organic Seminar Series, Department of Chemistry, College of Natural Sciences, The University of Texas at Austin, Texas, USA (2024)
173. π-Conjugated polymer-based chemical sensors
SPIE Photonics West 2024, Moscone Center, San Francisco, California, USA (2024)
174. Organic transistor-based chemical sensors for real-sample analysis
Natural Science & Mathematics Colloquium Series 2023-2024, Colgate University, New York, USA (2024)
175. Organic transistor-based chemical sensors for real-sample analysis
PHENIX Seminar, Sorbonne University, online (2024)
176. Can supramolecular materials really be used as chemical sensors?

JST PRESTO The 2nd Workshop on Future Materials, Kyoto University, Kyoto, Japan (2024)

177. The Past, Present, and Future of Chemical Sensors
The 11th Research Seminar of Corporate Sponsored Research Programs “Co-designing Future Engineering”, online (2024)
178. Organic FET-based Chemical Sensors
Sensor Malaysia, online (2024)
179. Organic transistor-based chemical sensors with pattern recognition techniques
The 104th Chemical Society of Japan Annual Meeting, Nihon University, Chiba, Japan (2024)
180. Supramolecular Chemical Sensors for Real-Sample Analysis
The Japan Association for Chemical Innovation (JACI) Seminar, online (2024)
181. Organic transistors for chemical sensing applications
Center Seminar, Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Dresden, Germany (2024)
182. Organic transistor-based chemical sensors for real-sample analysis
Seminar at Institute of Nanoscale and Biobased Materials, Freiberg University of Mining and Technology, Freiberg, Germany (2024)
183. Supramolecular sensor devices based on organic transistors
Seminar at Munich Institute of Biomedical Engineering, Technical University of Munich, Munich, Germany (2024)
184. Organic FET-based Chemical Sensors
NanoSeries 2024, Lisbon, Portugal (2024)
185. Molecular self-assembled chemosensors and their arrays toward on-site analysis
Organic Seminar at Department of Chemistry, University of Bath, Bath, England (2024)
186. Organic field-effect transistors for chemical sensing applications
Lecture at School of Chemistry, University of Edinburgh, Edinburgh, Scotland (2024)
187. Pattern recognition-driven chemosensing based on self-assemblies
6th International Caparica Conference on Chromogenic and Emissive Materials (6th IC3EM-2024), Lisbon, Portugal (2024) (Plenary Lecture)
188. Organic transistor-based Chemical Sensors
SmartNano 2024, Denpasar, Indonesia (2024)
189. Introduction of supramolecular chemistry and pattern recognition-based optical chemosensing.
Lecture at the Bachelor Program in Nanotechnology Engineering, Airlangga University, Surabaya, Indonesia (2024)
190. The detection of taste components and freshness by artificial chemosensors
Dining Lab Research Society 3rd Koma II Salon, The University of Tokyo, Tokyo, Japan (2024)
191. Real-sample analysis using organic transistor-based chemical sensors
The 21st Physical Pharma Forum for the Next Generation (PPF2024), Shonan Village Center, Kanagawa, Japan (2024)
192. Strategy for the acquisition of multi-dimensional chemical information for chemometric-based sensing
2nd Public Lecture of JSPS R053 Committee on Collaboration Platform of Design, Measurement and Analysis, Makuhari Messe, Chiba, Japan (2024)
193. Supramolecular Materials and Devices toward Cross-Scale Analysis
73rd Annual Meeting of the Japan Society for Analytical Chemistry, Nagoya Institute of Technology, Aichi, Japan (2024)
194. Organic Thin-Film Transistor-based Chemical Sensors for Real-Sample Analysis
The 85th Autumn Meeting of the Japan Society of Applied Physics, Toki Messe, Niigata, Japan (2024)
195. Molecular self-assembled chemosensors and their arrays toward on-site analysis
Department Seminar at Guangxi Minzu University, Nanning, China (2024)
196. Organic transistor-based chemical sensors for real-sample analysis
Europe/Asia Workshop on Energy, Bioengineering and Quantum & Molecular technologies (EURALIMMS 2024), The University of Tokyo, Tokyo, Japan (2024)
197. Organic FET-based Chemical Sensors for Real-sample Analysis. 4th CNRS-AMU-UTokyo Workshop, Aix-Marseille University, Marseille, France (2024)
198. Organic FET-based Chemical Sensors
Public LIMMS evaluation committee presentation, CNRS, Paris, France (2024)
199. Real-sample Analysis Using Organic Thin-Film Transistors
Sensor & IoT Consortium public symposium 2024, The University of Tokyo, Tokyo, Japan (2024)

200. Organic FET-based Chemical Sensors for Real-sample Analysis
LIMMS Workshop in Bordeaux 2024, University of Bordeaux, Bordeaux, France (2024)
201. Real-sample Analysis Using Organic Transistor-based Chemical Sensors
The 14th International Conference on Electronics, Communications and Networks (CECNet 2024), Shimane, Japan (2024)
202. Real-Sample Analysis Based on Supramolecular Chemical Sensing
The 2nd Research Meeting on Introduction and Utilization of New Technologies, Japan Measuring Instruments Federation, Tokyo, Japan (2024)
203. Supramolecular chemical sensing enabling real sample analysis, General Education Course, Industrial Property Cooperation Center (IPCC), Tokyo, Japan (2024)
204. Supramolecular sensor devices based on organic transistors
2024 UTokyo-SNU Joint Symposium on Chemical Engineering, Seoul National University, Seoul, South Korea (2024)
205. Chemical Sensors for One Health, One World
The 3rd International Symposium on One Health, One World (OHOW 2024), Mercure Living Putrajaya Hotel, Putrajaya, Malaysia (2024) (Keynote Lecture)
206. Real-Sample Sensing Based on Organic Field-Effect Transistors
International Chemistry Conference (SICC-12), Singapore Expo, Singapore (2024)
207. Supramolecular Chemical Sensing of Steroid Hormones
Post-Conference of 24th Forum on Biomolecular Chemistry, The Chemical Society of Japan, Kinugawa Park Hotels, Tochigi, Japan (2024)
208. Supramolecular sensor devices based on organic transistors
Organic Seminar, University of Maryland, College Park, Maryland, USA (2025)
209. Printed paper-based optical sensor array devices
SPIE Photonics West 2025, Moscone Center, San Francisco, California, USA (2025)
210. Sensors for biochips
5th International School on BioMEMS (SMMiL-E School 2025), University of Technology of Compiegne, Oise, France (2025)
211. Organic transistor-based chemical sensors for real-sample analysis
Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy 2025 (Pittcon 2025), Boston Convention and Exhibition Center, Massachusetts, USA (2025)
212. Microfluidic Organic FETs for Chemical Sensing Applications
1st IIT Madras–UTokyo IIS Bilateral Symposium on Microfluidics and Its Applications, online (2025)
213. Research × Career: Find your options
CHEMINAS 51, Osaka Metropolitan University, Osaka, Japan (2025)
214. Chemical sensors based on molecular recognition and their challenges
1st Regular Lecture in 2025, Printed Electronics Association, The University of Tokyo, Tokyo, Japan (2025)
215. Organic Field-Effect Transistors for Interfacial Chemistry: Monitoring Reactions on SAMs at the Solid–Liquid Interface
EURALIMMS25: A Europe/Asia School on Bioengineering, Energy and Quantum & Molecular Technologies, IGESA center, Porquerolles, France (2025)
216. Organic Field-Effect Transistors for Interfacial Chemistry: Monitoring Reactions on SAMs at the Solid–Liquid Interface
NanoSeries 2025, University of Valencia, Valencia, Spain (2025)
217. Development of Ubiquitous Chemical Sensors
4th International Joint Student Seminar on “One health, One World”, Asian Institute of Technology, Pathum Thani, Thailand (2025)
218. Development of Organic Field-Effect Transistor-Based Chemical Sensors for Real-Sample Analysis
2025 ECSJ Fall Meeting, Tottori University, Tottori, Japan (2025)
219. Development of Chemical Sensor Devices Based on π-Conjugated Polymers for Real-Sample Analysis
74th Symposium on Macromolecules, Kansai University, Osaka, Japan (2025)
220. Extended-Gate-Type Organic Field-Effect Transistors for Chemical Sensing Applications
Materials Oceania 2025, Yonsei University, Seoul, South Korea (2025)
221. How to detect molecules and ions
Workshop on IHRP 2025, online (2025)

222. Cross-scale Analysis from Cells to Environmental Water
ASIANALYSIS XVII 2025, Hokkaido University, Hokkaido, Japan (2025)
223. Organic TFT-based Chemical Sensors for Real Sample Analysis
Networking Event at the Japan Association for Chemical Innovation, the Electronics and Information Technology Subcommittee, Sanbancho KS Bldg., Tokyo, Japan (2025)
224. Organic Transistor-based Chemical Sensors Functionalized with Artificial Receptors
Sensors & Biomaterials 2025, online (2025)
225. Pattern Recognition-driven Chemical Sensing using Single Chemosensors
3rd WMC, 9th WMS & IUMRS-ICA2025, Guilin International Conference Exhibition Center, Guilin, China (2025)
226. Optical chemosensor arrays based on molecular self-assemblies for real-sample analysis
The 5th Asian Conference on Chemosensors and Imaging Probes (Asian-ChIP), The Chinese University of Hong Kong, Shenzhen, Shenzhen, China (2025)
227. Supramolecular chemical sensors toward practical applications
KISTEC Education Course 2025, Kanagawa Institute of Industrial Science and Technology, Kanagawa, Japan (2025)
228. Organic Field-Effect Transistors for Bio/Chemical Sensors
The 3rd edition of the International Conference on Materials Science, Engineering and Technology, online (2025)
229. Research activities in Quantum & Molecular technologies
30th Anniversary of LIMMS/CNRS-IIS (IRL 2820), CNRS, Paris, France (2025)
230. Organic Transistors for Monitoring Chemical Reactions
ESPCI X LiMMS Workshop, ESPCI, Paris, France (2025)
231. Extended-Gate-Type Organic Field-Effect Transistors with Self-Assembled Monolayers for Chemical Sensing Applications
12th International Workshop on Surface Modification for Chemical and Biochemical Sensing, Hotel Bristol Tradition & Luxury, Rzeszów, Poland (2025)
232. Self-assembled Chemosensor Arrays
Chemistry Colloquium, Department of Chemistry, Indian Institute of Technology Palakkad, Kerala, India (2025)
233. Organic Electronic Devices for Chemical Sensing
4th International Symposium on One Health, One World (OHOW 2025), Hotel Clarks Safari, Uttarakhand, India (2025) (Keynote Lecture)
234. Frontiers in Supramolecular Chemical Sensors
Chuo University Research Cluster Formation Support Symposium, Chuo University, Tokyo, Japan (2025)
235. Organic Electronic Devices for Chemical Sensing
The 15th International Conference on Electronics, Communications and Networks (CECNet 2025), online (2025)
236. Organic Field-Effect Transistor-based Chemical Sensors
Cambodian Chemical Society International Symposium, Hotel Cambodiana Phnom Penh, Cambodia (2025)
237. Optical chemosensor arrays for taste components
SPIE Photonics West, Moscone Center, San Francisco, California, USA (2026)
238. Organic FET-based Chemical Sensors for Real-Sample Analysis
SAKURA SCIENCE Exchange Program, Next-Generation Biomedical Devices: Exchange and Training for Young Innovators, The University of Tokyo, Tokyo, Japan (2026)
239. Development of Chemical Sensor Devices based on π-Conjugated Polymers for Real-Sample Analysis
SPSJ Resonac Award Commemorative Lecture, RESONAC Innovation Center, Tokyo, Japan (2026)
240. Supramolecular Chemical Sensor Devices
LIMMS/CNRS-IIS Information Meeting/Short Talk, The University of Tokyo, Tokyo, Japan (2026)
241. Sensors for biochips
6th International School on BioMEMS, online (2026)
242. Supramolecular Materials for Chemical Sensing: Developments and Prospects
Scientific Forum of the Science Council of Japan: The Power of Chemistry to Enrich Our Daily Lives – A Future Opened Up by the Fusion of Materials and Analytical Science, the Science Council of Japan, Tokyo, Japan (2026)

243. Supramolecular sensor devices based on organic field-effect transistors
Polymer Physics Seminar, Pennsylvania State University, Pennsylvania, USA (2026)
244. Supramolecular sensor devices based on organic field-effect transistors
Department Seminar, University of Cincinnati, Ohio, USA (2026)
245. Cross-scale Analysis from Cells to Environmental Water
Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy 2026 (Pittcon 2026), Henry B. González Convention Center, San Antonio, Texas, USA (2026)
246. Chemical detection in mixtures by sensor devices functionalized with artificial receptors
JST CREST Symposium Integrating Continuous & Discrete Data & Structures: From Mathematical Basis to Biological Applications, The University of Tokyo, Tokyo, Japan (2026)
247. Research activities of Quantum & Molecular technologies
30th Anniversary of LIMMS/CNRS-IIS (IRL 2820), Meiji Memorial Hall, Tokyo, Japan (2026)
248. Supramolecular Chemical Sensor Devices
LIMMS/IIS U. Tokyo–EPFL Workshop, The University of Tokyo, Tokyo, Japan (2026)
249. Supramolecular chemical sensors for medicines
The 146th Annual Meeting of the Pharmaceutical Society of Japan, Kansai University, Osaka, Japan (2026)
250. Development of Molecular Recognition Materials and Chemical Sensor Devices Based on Supramolecular Approaches
The 53rd Research Meeting of the Society for Chemistry and Micro-Nano Systems, The University of Tokyo, Tokyo, Japan (2026)
251. Molecular Self-Assembled Chemosensors and Their Arrays for Real-Sample Analysis
The 2nd International Symposium on Chemical & Biomedical Imaging, The Hong Kong Polytechnic University, Hong Kong, China (2026)
252. Supramolecular sensor devices based on organic field-effect transistors
11th Catalysis and Sensing for Our Environment Symposium and Networking Event (CASE 2026), Silpakorn University, Bangkok, Thailand (2026) (Keynote Lecture)
253. Organic Transistor-based Chemical Sensors by Supramolecular Approaches
EURALIMMS 2026: Europe/Asia Workshop on Energy and Quantum Materials, National Taiwan University, Taipei, Taiwan (2026)
254. Paper-based chemosensor array devices with phenylboronic acid
11th Catalysis and Sensing for Our Environment Symposium and Networking Event (CASE 2026), Xiamen University Malaysia, Selangor, Malaysia (2026) (Keynote Lecture)
255. Supramolecular Sensor Devices Based on Organic Field-Effect Transistors
#NanoSeries 2026, the Polytechnic University of Turin, Turin, Italy (2026)
256. Self-assembled Chemosensor Arrays
Department Seminar, Department of Chemistry, University of Pavia, Pavia, Italy (2026)
257. Self-assembled Chemosensor Array
Department Seminar, Department of Chemical Sciences and Technology, University of Rome Tor Vergata, Rome, Italy (2026)
258. Real-Sample Analysis Based on Organic Field-Effect Transistors Functionalized with Artificial Receptors
XXIX International Symposium on Bioelectrochemistry and Bioenergetics of the Bioelectrochemical Society (BES 2026), the University of Bari Aldo Moro, Bari, Italy (2026) (Keynote Lecture)
259. Self-assembled Chemosensor Arrays
Special Seminar, Department of Physics and Astronomy, University of Georgia, Georgia, USA (2026)
260. Paper-Based Chemosensor Array Devices for Pattern Recognition-Driven Sensing
Optica Advanced Photonics Congress 2026: Novel Optical Materials and Applications (NOMA), Hilton Long Beach, California, USA (2026)
261. Cross-scale design of optical chemosensor arrays for paper-based analytical devices
SPIE Sensors + Imaging 2026: Sensors and Communication Technologies in the 1 GHz to 10 THz Band III, Edinburgh International Conference Centre, Edinburgh, UK (2026)
262. Self-Assembled Chemosensor Arrays for Pattern-Based Chemical Analysis
Department of Chemistry Ad Hoc Seminar, King's College London, London, UK (2026)
263. Self-Assembled Chemosensor Arrays for Pattern-Based Chemical Analysis
Seminar, School of Chemistry and Chemical Engineering, University of Southampton, Southampton, UK (2026)

264. Organic Transistor-Based Chemical Sensors with Molecular Recognition Materials
Organic Chemistry Research Seminar, Department of Chemistry, University of Bath, Bath, UK (2026)
265. Organic Transistor-Based Chemical Sensors with Molecular Recognition Materials
Functional Molecules and Materials Seminar, School of Chemistry, University of Bristol, Bristol, UK (2026)
266. Supramolecular Chemical Sensing of Steroid Hormones: Selective Recognition and Pattern-Recognition-Driven Analysis
BioNanoSeries 2026, B CUBE - Center for Molecular Bioengineering, TUD Dresden University of Technology, Dresden, Germany (2026) (Keynote Lecture)
267. Frontiers in Sensors Based on Supramolecular Analytical Chemistry
The 20th Metabolome Symposium, Tsuruoka, Yamagata, Japan (2026)
268. Pattern-recognition-driven chemical sensing with organic transistors and cross-reactive nanointerfaces
Beilstein Nanotechnology Symposium 2026: Shaping the Future of Nanotechnology, Dom Hotel, Limburg, Germany (2026)
269. Extended-gate-type organic field-effect transistors for chemical sensing
nanoSeminar, TUD Dresden University of Technology, Dresden, Germany (2026)

COMMUNICATIONS, PAPERS AND REVIEWS (total citations 4,100; *h*-index 39, Web of Science)

1. Highly Selective Fluoride Ion Detection Based on a Fluorescent Alizarin-*o*-Aminomethylphenylboronic Acid Ensemble in Aqueous MeOH Solution.
Y. Kubo*, T. Ishida, **T. Minami**, T. D. James, Chem. Lett. 35, 996–997 (2006)
2. Isothiouronium-based amphiphilic gold nanoparticles with a colorimetric response to hydrophobic anions in water: a new strategy for fluoride ion detection in the presence of a phenylboronic acid.
T. Minami, K. Kaneko, T. Nagasaki, Y. Kubo*, Tetrahedron Lett. 49, 432–436 (2008)
3. Development of Chemical Stimuli-responsive Organogel Using Boronate Ester-substituted Cyclotricatechylene.
Y. Kubo*, W. Yoshizumi, **T. Minami**, Chem. Lett. 37, 1238–1239 (2008)
4. Amine-triggered molecular capsules using dynamic boronate esterification.
K. Kataoka, S. Okuyama, **T. Minami**, T. D. James, Y. Kubo*, Chem. Commun. 1682–1684 (2009)
5. Fluorescence Sensing of Phytate in Water Using an Isothiouronium-attached Polythiophene.
T. Minami, Y. Kubo*, Chem. Asian J. 5, 605–611 (2010)
6. Shape-controllable gold nanocrystallization using an amphiphilic polythiophene.
T. Minami, R. Nishiyabu, M. Iyoda, Y. Kubo*, Chem. Commun. 46, 8603–8605 (2010)
7. Selective anion-induced helical aggregation of chiral amphiphilic polythiophenes with isothiouronium-appended pendants.
T. Minami, Y. Kubo*, Supramol. Chem. 23, 13–18 (2011)
8. Templated Synthesis of Glycoluril Hexamer and Monofunctionalized Cucurbit[6]uril Derivatives.
D. Lucas, **T. Minami**, G. Iannuzzi, L. Cao, J. B. Wittenberg, P. Anzenbacher Jr.*, L. Isaacs*, J. Am. Chem. Soc. 133, 17966–17976 (2011)
9. Supramolecular Sensor for Cancer-Associated Nitrosamines.
T. Minami, N. A. Esipenko, B. Zhang, M. E. Kozelkova, L. Isaacs*, R. Nishiyabu, Y. Kubo, P. Anzenbacher Jr.*, J. Am. Chem. Soc. 134, 20021–20024 (2012)
10. Sensing of Carboxylate Drugs in Urine by a Supramolecular Sensor Array.
Y. Liu, **T. Minami**, R. Nishiyabu, Z. Wang, P. Anzenbacher Jr.*, J. Am. Chem. Soc. 135, 7705–7712 (2013)
11. Leveraging Material Properties in Fluorescence Anion Sensor Arrays: A General Approach.
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