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Prof. Kei Saito is currently a Professor, Graduate School of Advanced Integrated Studies in Human Survivability, Kyoto University, Japan.

Before joining Kyoto University in Oct 2020, he was a tenured Associate Professor (2019-2020), Senior Lecturer (2016-2018), and Lecturer (2007-2015) at School of Chemistry, Monash University, Australia and JST PRESTO researcher (2015-2019), Japan. Before then, a Postdoctoral Fellow at the Centre for Green Chemistry, University of Massachusetts Lowell, USA (2005-2007) and a Visiting Research Associate at the Graduate School of Science and Engineering and at the Faculty of Science and Engineering at Waseda University, Japan (2004-2005). He studied Green Chemistry from one of the founders of Green Chemistry, Prof. John Warner, while he was at University of Massachusetts Lowell and was the member of the ARC Special Research Centre for Green Chemistry at Monash University.

The focus of his current research relates to the innovative development of new synthetic methods for the production of novel sustainable polymeric materials, based on the principles of Green Chemistry and the utilisation of these materials in a variety of industrial applications. For example, Prof. Saito has invented new classes of *photodegradable plastics, self-healing coating materials, and biodegradable plastics* derived *from wood* and filed 2 PCT patents, 5 provisional patents and published 3 book chapters and more than 90 papers and in total of ca. $16 M of external research income through his career. He has published invited manuscripts in special issues of high impact journals, such as in *Green Chemistry* [Impact factor 9.480] - Special Issue on Sustainable Polymers; *ChemCatChem* [Impact factor 4.724] - Special Issue on Catalytic Conversion of Biomass and Biomass Valorization, and also *Chemical Communication* [Impact factor 6.718] – Special Issue on Emerging Investigators, the latter with only a limited number of selected Mid-Career researchers globally invited.

Prof. Saito was elected as a Fellow of the Royal Society of Chemistry (UK) for his achievements in 2018. He has supervised 20 PhD students to completion until now.

Education

Received his B.E. (2000), M.E. (2002) in Applied Chemistry and Ph.D in Engineering (Polymer Chemistry) (2004) degrees from Waseda University, Tokyo, Japan.

Selected Referred Journal Articles

Book Chapter

1. S. Fadlallah, L. M. Mouterde, G. Garnier, K. Saito, F. Allais,* "Cellulose-Derived Levoglucosenone, a Great Versatile Chemical Platform for the Production of Renewable Monomers and Polymers, Sustainability & Green Polymer Chemistry Volume 2: Biocatalysis and Biobased Polymers", ACS Symposium Series, ACS, **2020**, Chapter 5, pp 77-97.
2. J. Dai, A. F. Patti, **K. Saito**,* 'Depolymerization of Lignin by Catalytic Oxidation in Ionic Liquids', Encyclopedia of Ionic Liquids, Zhang S. (eds), Springer Singapore, **2019**, pp. 1–12.
3. L. Lionel, G. Garnier,* **K. Saito**,* "Lignin biodegradation with fungi, bacteria and enzymes for producing chemicals and increasing process efficiency", Book chapter in *Production of Biofuels and Chemicals from Lignin* (Biofuels and Biorefineries; vol. 6), Fang, Z. & Smith, R. L. (eds.). Singapore: Springer, **2016**, p. 147-179.

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4. S. Fadlallah, P. S. Roy, G. Garnier, **K. Saito***, F. Allais,* "Are lignin-derived monomers and polymers truly sustainable? An in-depth green metrics calculations approach", *Green Chem.*, **2021**, *23*, 1495-1535. [Corresponding author - Impact factor 9.812]
5. P. S. Roy, G. Garnier, F. Allais, **K. Saito**,* Effective Lignin Utilization Strategy: Major Depolymerization Technologies, Purification Process and Production of Valuable Material, *Chem. Lett.*, **2021**, *50,* 1123-1130. [Corresponding author - Impact factor 1.389]
6. T. Hughes, G. P. Simon, **K. Saito**,* "Chemistries and capabilities of photo-formable and photo-reversible crosslinked polymer networks, *Mater. Horizons*", **2019**, *6*, 1762-1773. [Corresponding author - Impact factor 14.356]
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8. R. Pal, A. K. Sikder, **K. Saito**,* A. M. Funston,* J. R. Bellare,* "Electron energy loss spectroscopy for polymers: A review", *Polym. Chem.*, **2017**, *8*, 6927 - 6937 [Corresponding author - Impact factor 5.375]

9. P. Ray, C. Smith, G. P. Simon,* **K. Saito**,* "Renewable green platform chemicals for polymers", *Molecules*, **2017**, *22(3)*, 376, [Corresponding author - Impact factor 2.46]
10. V. Dao, N. R. Cameron,* **K. Saito**,* "Synthesis, properties and performance of organic polymers employed in flocculation applications", *Polym. Chem.*, **2016**, *7*, 11-25. [Corresponding author -Impact factor 5.520]
11. J. Dai. A. F. Patti. **K. Saito**,* "Recent developments in chemical degradation of lignin: catalytic oxidation and ionic liquids", *Tetrahedron Lett.*, **2016**, *57*, 4945-4951. [Corresponding author - Impact factor 2.379]
12. G. Kaur, P. Johnston, **K. Saito**,* "Photo-reversible dimerisation reactions and their applications in polymeric systems", *Polym. Chem.*, **2014,** *5*, 2171-2186. [Corresponding author - Impact factor 5.368]

Refereed Journal Articles since 2016

1. M. Inada, A. Udagawa, S. Sato, T. Asahi, **K. Saito**,* "Photo-conversion of self-assembled structures into continuous covalent structures via [2+ 2]-cycloaddition reactions", *Photochem. Photobiol. Sci.* **2022**, *in press*, https://doi.org/10.1007/s43630-022-00286-0
2. R. Pal, A. K. Sikder, K. Saito, A. M Funston, J. R Bellare, Study of polycarbonate‐polystyrene interfaces using Scanning Transmission Electron Microscopy‐Spectrum Imaging (STEM‐SI), *Polym. Int*. **2022**, *in press*, https://doi.org/10.1002/pi.6451
3. P. Vijay, W. Batchelor, **K. Saito**,* "Preparation of coumarin polymer grafted nanocellulose films to form high performance, photoresponsive barrier layers", *J. Polym. Sci.*, **2022**, *in press*, https://doi.org/10.1002/pol.20220248 [Corresponding author - Impact factor 2.97]
4. K. Boga, A. F. Patti, J. C. Warner, G. P. Simon, **K. Saito**,* "Sustainable Light‐Stimulated Synthesis of Cross‐Linked Polymer Microparticles", *Macromol. Chem. Phys.*, **2022**, *217*, 2100493
5. P. Vijay, W. Batchelor, **K. Saito**,* "One-pot treatment of cellulose using iron oxide catalysts to produce nanocellulose and water-soluble oxidised cellulose", *Carbohydr. Polym,*. **2022**, *282*, 119060-
6. P. Roy, M. M. Mention, M. A. P. Turner, F. Brunissen, V. G. Stavros, G. Garnier, F. Allais,* **K. Saito***, "Bio-based photo-reversible self-healing polymer designed from lignin", *Green Chem.*, **2021**, *24*, 10050-10061. [Corresponding author - Impact factor 9.812]
7. P. S. Roy, G. Garnier, F. Allais, **K. Saito**,* "Strategic Approach Towards Plastic Waste Valorization: Challenges and Promising Chemical Upcycling Possibilities", ChemSusChem, **2021**, *14*, 4007-4027.
8. Ruchi Pal, Laure Bourgeois, Matthew Weyland, Arun K. Sikder, **Kei Saito**, Alison M. Funston,* Jayesh R. Bellare,* "Chemical Fingerprinting of Polymers Using Electron Energy-Loss Spectroscopy", *ACS Omega*, **2021**, *6*, 23934−23942
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12. S. Tan, **K, Saito***, M. T. W. Hearn,* Adsorption of a Humanized Monoclonal Antibody onto Thermoresponsive Copolymer-Grafted Sepharose Fast Flow Sorbents, *Langmuir*, **2021**, *37*, 1054–1061. [Corresponding author - Impact factor 3.557]
13. S. Tan, R. I. Boysen, **K. Saito**,* M. T. W. Hearn,* "Dynamic Adsorption/Desorption of Proteins with Thermo-Responsive Polymer Grafted Sepharose Fast Flow Sorbents", *Sep. Purif. Technol.*, **2021**, *259*,118173. [Corresponding author - Impact factor 5.774]
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15. Y. Alqarni, F. Ishizuka, T. D. M. Bell, R. F. Tabor, P. B. Zetterlund, **K. Saito**,* "Confined polymerisation of bis-thyminyl monomers within nanoreactors: towards molecular weight control", *Polym. Chem.*, **2020,** *11*, 4326-4334. [Corresponding author - Impact factor 5.342]
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25. G. A. Hurst. J. C. Slootweg, A. M. Balu, M. S. Climent-Bellido, A. Gomera, P. Gomez, R. Luque, L. Mammino, R. A. Spanevello, **K. Saito**, J. G. Ibanez "International Perspectives on Green and Sustainable Chemistry Education via Systems Thinking", *J. Chem. Educ*. **2019**, *96*, 2794-2804 [Impact factor 1.385]
26. V. Dao, N. R. Cameron,* **K. Saito**,* "Synthesis of UHMW Star-Shaped AB Block Copolymers and Their Flocculation Efficiency in High-Ionic-Strength Environments", *Macromolecules*, **2019**, *52, 7613-7624* [Corresponding author - Impact factor 5.918]
27. R. W. Lewis, N. Malic, **K. Saito,** R. A. Evans,* N. R. Cameron,* "Ultra-high molecular weight linear coordination polymers with terpyridine ligands", *Chem. Sci*., **2019**, *10*, 6174-6183. [Impact factor 9.556]
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33. M. Abdallh, C. Yoshikawa, M. Hearn, G. P Simon,* **K. Saito**,* "Photoreversible Smart Polymers Based on 2π + 2π Cycloaddition Reactions: Nanofilms to Self-Healing Films", *Macromolecules*, **2019**, *52*, 2446-2455. [Corresponding author - Impact factor 5.997]
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39. M. Javid, E. Khera, K. Zia,* **K. Saito**, I. Bhatti, M. Asghar, "Synthesis and characterization of chitosan modified polyurethane bio-nanocomposites with biomedical potential', *Int. J. Biol. Macromol.*, **2018**, *115, 375-384.* [Impact factor 3.671]
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41. P. Ray, C. Smith, G. P. Simon,* **K. Saito**,* "Synthesis of Bio-acrylic Polymers from Dihydro-5-hydroxyl furan-2-one (2H-HBO) by Free and Controlled Radical Polymerization", *ACS Omega*, **2018**, 3, 2040-2048. [Corresponding author - Impact factor 2.584]
42. R. W. Lewis, R. A. Evans, N. Malic, **K. Saito,*** N. R. Cameron,* "Ultra-fast aqueous polymerisation of acrylamides by high power visible light direct photoactivation RAFT polymerisation", *Polym. Chem.*, **2018**, *9*, 60-68. [Corresponding author - Impact factor 5.375]
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Patents since 2016

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