

# Shingo Ito

## List of Publications by Year in descending order

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85  
papers

4,743  
citations

109137

35  
h-index

98622

67  
g-index

99  
all docs

99  
docs citations

99  
times ranked

3030  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Coordination~Insertion Copolymerization of Fundamental Polar Monomers. <i>Chemical Reviews</i> , 2009, 109, 5215-5244.  | 23.0 | 780       |
| 2  | Iron-Catalyzed Cross-Coupling of Primary and Secondary Alkyl Halides with Aryl Grignard Reagents. <i>Journal of the American Chemical Society</i> , 2004, 126, 3686-3687.   | 6.6  | 493       |
| 3  | Copolymerization of Vinyl Acetate with Ethylene by Palladium/Alkylphosphine~Sulfonate Catalysts. <i>Journal of the American Chemical Society</i> , 2009, 131, 14606-14607.  | 6.6  | 198       |
| 4  | Benzene~Fused Azacorannulene Bearing an Internal Nitrogen Atom. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7256-7260.   | 7.2  | 174       |
| 5  | Iron-Catalyzed Chemoselective Cross-Coupling of Primary and Secondary Alkyl Halides with Arylzinc Reagents. <i>Synlett</i> , 2005, 2005, 1794-1798.   | 1.0  | 159       |
| 6  | Quantification of the Steric Influence of Alkylphosphine~Sulfonate Ligands on Polymerization, Leading to High-Molecular-Weight Copolymers of Ethylene and Polar Monomers. <i>Journal of the American Chemical Society</i> , 2014, 136, 11898-11901. | 6.6  | 141       |
| 7  | Copolymerization of carbon dioxide and butadiene via a lactone intermediate. <i>Nature Chemistry</i> , 2014, 6, 325-331.  | 6.6  | 138       |
| 8  | Coordination~Insertion Copolymerization of Allyl Monomers with Ethylene. <i>Journal of the American Chemical Society</i> , 2011, 133, 1232-1235.  | 6.6  | 124       |
| 9  | Copolymerization of Ethylene and Polar Monomers by Using Ni/IzQO Catalysts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2835-2839.   | 7.2  | 120       |
| 10 | Structural Basis for the ADP-Specificity of a Novel Glucokinase from a Hyperthermophilic Archaeon. <i>Structure</i> , 2001, 9, 205-214.   | 1.6  | 98        |
| 11 | Crystalline Isotactic Polar Polypropylene from the Palladium~Catalyzed Copolymerization of Propylene and Polar Monomers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7505-7509.  | 7.2  | 95        |
| 12 | Iron-catalysed fluoroaromatic coupling reactions under catalytic modulation with 1,2-bis(diphenylphosphino)benzene. <i>Chemical Communications</i> , 2009, , 1216.  | 2.2  | 94        |
| 13 | Iron-Catalyzed Cross-Coupling of Alkyl Sulfonates with Arylzinc Reagents. <i>Organic Letters</i> , 2009, 11, 4306-4309.   | 2.4  | 92        |
| 14 | Diastereoselective Carbometalation of Oxa~and Azabicyclic Alkenes under Iron Catalysis. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 454-457.   | 7.2  | 80        |
| 15 | A Hybrid of Corannulene and Azacorannulene: Synthesis of a Highly Curved Nitrogen~Containing Buckybowl. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9818-9822.   | 7.2  | 77        |
| 16 | Elucidating the Key Role of Phosphine~Sulfonate Ligands in Palladium-Catalyzed Ethylene Polymerization: Effect of Ligand Structure on the Molecular Weight and Linearity of Polyethylene. <i>ACS Catalysis</i> , 2016, 6, 6101-6113.                | 5.5  | 75        |
| 17 | Palladium/IzQO-Catalyzed Coordination~Insertion Copolymerization of Ethylene and 1,1-Disubstituted Ethylenes Bearing a Polar Functional Group. <i>Journal of the American Chemical Society</i> , 2018, 140, 1876-1883.                              | 6.6  | 74        |
| 18 | Coordination~insertion copolymerization of polar vinyl monomers by palladium catalysts. <i>Chemical Record</i> , 2010, 10, 315-325.   | 2.9  | 70        |

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|----|---|-----|-----------|
| 19 | Ethylene/allyl monomer copolymerization by nickel/phosphine-sulfonate catalysts. Dalton Transactions, 2012, 41, 13807.  | 1.6 | 68        |
| 20 | Isoquinolino[4,3,2-de]phenanthridine: synthesis and its use in 1,3-dipolar cycloadditions to form nitrogen-containing polyaromatic hydrocarbons. Chemical Communications, 2015, 51, 221-224.                | 2.2 | 68        |
| 21 | Methylene-Bridged Bisphosphine Monoxide Ligands for Palladium-Catalyzed Copolymerization of Ethylene and Polar Monomers. ACS Macro Letters, 2018, 7, 305-311.   | 2.3 | 65        |
| 22 | Competing Annulene and Radialene Structures in a Single Anti-Aromatic Molecule Studied by High-Resolution Atomic Force Microscopy. ACS Nano, 2017, 11, 8122-8130.   | 7.3 | 64        |
| 23 | Pd-Catalyzed Copolymerization of Methyl Acrylate with Carbon Monoxide: Structures, Properties and Mechanistic Aspects toward Ligand Design. Journal of the American Chemical Society, 2011, 133, 6761-6779. | 6.6 | 63        |
| 24 | Ligand-controlled insertion regioselectivity accelerates copolymerisation of ethylene with methyl acrylate by cationic bisphosphine monoxide-palladium catalysts. Chemical Science, 2016, 7, 737-744.       | 3.7 | 63        |
| 25 | Copolymerisation of ethylene with polar monomers by using palladium catalysts bearing an N-heterocyclic carbene-phosphine oxide bidentate ligand. Chemical Communications, 2017, 53, 2630-2633.             | 2.2 | 61        |
| 26 | Synthesis of Pyrrole-Fused Corannulenes: 1,3-Dipolar Cycloaddition of Azomethine Ylides to Corannulene. Angewandte Chemie - International Edition, 2017, 56, 15560-15564.                                   | 7.2 | 59        |
| 27 | Nickel-Catalyzed Propylene/Polar Monomer Copolymerization. ACS Macro Letters, 2018, 7, 213-217.   | 2.3 | 55        |
| 28 | Synthesis and Reactivity of Bucky Ruthenocene Ru( $\eta$ -5-C <sub>6</sub> Me <sub>5</sub> )( $\eta$ -5-C <sub>5</sub> H <sub>5</sub> ). Chemistry Letters, 2004, 33, 68-69.                                | 0.7 | 54        |
| 29 | Chiral Phosphine-Sulfonate/Palladium-Catalyzed Asymmetric Copolymerization of Vinyl Acetate with Carbon Monoxide. Journal of the American Chemical Society, 2012, 134, 12366-12369.                         | 6.6 | 49        |
| 30 | Palladium-Catalyzed Homo- and Copolymerization of Polar Monomers: Synthesis of Aliphatic and Aromatic Polymers. Bulletin of the Chemical Society of Japan, 2018, 91, 251-261.                               | 2.0 | 47        |
| 31 | Alkylation of Magnesium Enamide with Alkyl Chlorides and Fluorides. Journal of the American Chemical Society, 2005, 127, 14192-14193.   | 6.6 | 44        |
| 32 | Formal Aryne Polymerization: Use of [2.2.1]Oxabicyclic Alkenes as Aryne Equivalents. Journal of the American Chemical Society, 2014, 136, 7547-7550.  | 6.6 | 43        |
| 33 | Selective synthesis of unsymmetric dibenzo[a,e]pentalenes by a rhodium-catalysed stitching reaction. Chemical Science, 2017, 8, 101-107.  | 3.7 | 43        |
| 34 | Crystalline Isotactic Polar Polypropylene from the Palladium-Catalyzed Copolymerization of Propylene and Polar Monomers. Angewandte Chemie, 2016, 128, 7631-7635.   | 1.6 | 41        |
| 35 | Stepwise Reduction of Azapentabenzocorannulene. Angewandte Chemie - International Edition, 2019, 58, 12107-12111.   | 7.2 | 35        |
| 36 | On-Surface Synthesis of a $\pi$ -Extended Diaza[8]circulene. Journal of the American Chemical Society, 2020, 142, 11363-11369.  | 6.6 | 34        |

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|----|--|-----|-----------|
| 37 | A Hybrid of Corannulene and Azacorannulene: Synthesis of a Highly Curved Nitrogen-Containing Buckybowl. <i>Angewandte Chemie</i> , 2018, 130, 9966-9970.   | 1.6 | 33        |
| 38 | Functionalization of Azapentabenzocorannulenes by Fivefold C-H Borylation and Cross-Coupling Arylation: Application to Columnar Liquid-Crystalline Materials. <i>Chemistry - A European Journal</i> , 2018, 24, 14075-14078. | 1.7 | 31        |
| 39 | Copolymerization of Ethylene and Polar Monomers by Using Ni/IzQO Catalysts. <i>Angewandte Chemie</i> , 2016, 128, 2885-2889.   | 1.6 | 30        |
| 40 | Surface plasmon and guided optical wave microscopies. <i>Scanning</i> , 1994, 16, 353-362.   | 0.7 | 27        |
| 41 | An Endergonic Synthesis of Single Sondheimer-Wong Diyne by Local Probe Chemistry. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10842-10847.  | 7.2 | 27        |
| 42 | Vinylarene/CO Copolymerization and Vinylarene/Polar Vinyl Monomer/CO Terpolymerization Using Palladium/Phosphine-Sulfonate Catalysts. <i>Chemistry - an Asian Journal</i> , 2011, 6, 690-697.                                | 1.7 | 26        |
| 43 | Diazapentabenzocorannulene: A Hydrophilic/Biophilic Cationic Buckybowl. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .   | 7.2 | 26        |
| 44 | Iron-catalysed homo- and copolymerisation of propylene: steric influence of bis(imino)pyridine ligands. <i>Dalton Transactions</i> , 2015, 44, 20745-20752.  | 1.6 | 23        |
| 45 | Synthesis and Reactivity of Methylpalladium Complexes Bearing a Partially Saturated IzQO Ligand. <i>Organometallics</i> , 2018, 37, 2286-2296.   | 1.1 | 22        |
| 46 | Palladium complexes bearing an N-heterocyclic carbene-sulfonamide ligand for cooligomerization of ethylene and polar monomers. <i>Journal of Polymer Science Part A</i> , 2019, 57, 474-477.                                 | 2.5 | 22        |
| 47 | Synthesis of Pyrrole-Fused Corannulenes: 1,3-Dipolar Cycloaddition of Azomethine Ylides to Corannulene. <i>Angewandte Chemie</i> , 2017, 129, 15766-15770.   | 1.6 | 20        |
| 48 | SPECIFIC PHOTOCOUPLING OF 5-BROMOURIDINE TO TRYPTOPHAN IN AQUEOUS FROZEN SOLUTIONS. <i>Photochemistry and Photobiology</i> , 1981, 33, 15-19.  | 1.3 | 18        |
| 49 | Ritter-type iodoamidation of unactivated alkynes for the stereoselective synthesis of multisubstituted enamides. <i>Chemical Science</i> , 2021, 12, 15128-15133.  | 3.7 | 17        |
| 50 | Synthesis of a -Extended Azacorannulenophane Enabled by Strain-Induced 1,3-Dipolar Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .   | 7.2 | 17        |
| 51 | Fully conjugated azacorannulene dimer as large diaza[80]fullerene fragment. <i>Nature Communications</i> , 2022, 13, 1498.   | 5.8 | 16        |
| 52 | Ethylene Polymerization by Palladium/Phosphine-Sulfonate Catalysts in the Presence and Absence of Protic Solvents: Structural and Mechanistic Differences. <i>Organometallics</i> , 2011, 30, 6049-6052.                     | 1.1 | 15        |
| 53 | Synthesis of -Extended Imidazoles by 1,3-Dipolar Cycloaddition of Polycyclic Aromatic Azomethine Ylides with Nitriles. <i>Organic Letters</i> , 2020, 22, 6132-6137.   | 2.4 | 15        |
| 54 | Stepwise Reduction of Azapentabenzocorannulene. <i>Angewandte Chemie</i> , 2019, 131, 12235-12239.   | 1.6 | 14        |

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|----|--|-----|-----------|
| 55 | Formal Aryne/Carbon Monoxide Copolymerization To Form Aromatic Polyketones/Polyketals. <i>Macromolecules</i> , 2015, 48, 1959-1962.  | 2.2 | 13        |
| 56 | Regioselective $\hat{\text{I}}\pm$ -alkylation of ketones with alkyl chlorides and fluorides via highly nucleophilic magnesium enamides. <i>Tetrahedron</i> , 2007, 63, 8440-8448.                 | 1.0 | 12        |
| 57 | Direct Aldol Polymerization of Acetaldehyde with Organocatalyst/Brønsted Acid Systems. <i>Asian Journal of Organic Chemistry</i> , 2013, 2, 977-982.   | 1.3 | 12        |
| 58 | Diazapentabenzocorannulenium: A Hydrophilic/Biophilic Cationic Buckybowl. <i>Angewandte Chemie</i> , 2022, 134, .  | 1.6 | 10        |
| 59 | Surface plasmon and guided optical wave microscopies. <i>Scanning</i> , 1994, 16, 353-361.   | 0.7 | 9         |
| 60 | Regio- and Stereoselective Synthesis of Enol Carboxylate, Phosphate, and Sulfonate Esters via Iodo(III)functionalization of Alkynes. <i>Organic Letters</i> , 2022, 24, 430-434.                   | 2.4 | 7         |
| 61 | Ping-pong polymerization by allylation and hydroformylation for alternating vinyl alcohol/vinyl monomer copolymers. <i>Chemical Communications</i> , 2012, 48, 10481.                              | 2.2 | 6         |
| 62 | Friedel-Crafts functionalization of the cyclopentadienyl ligand in buckymetalloenes. <i>Dalton Transactions</i> , 2014, 43, 7407.  | 1.6 | 6         |
| 63 | Formal aryne/ethylene copolymerization to form polyethylene containing o-arylene units in the main chain. <i>Polymer Journal</i> , 2015, 47, 474-480.  | 1.3 | 6         |
| 64 | Chain-growth polymerization enabling formation/introduction of arylene groups into polymer main chains. <i>Polymer Journal</i> , 2016, 48, 667-677.  | 1.3 | 6         |
| 65 | Synthesis of a $\hat{\text{I}}\text{E}$ -Extended Azacorannulenophane Enabled by Strain-Induced 1,3-Dipolar Cycloaddition. <i>Angewandte Chemie</i> , 0, , .                                       | 1.6 | 6         |
| 66 | Alkene/CO Copolymerization. , 2012, , 825-842.   |     | 5         |
| 67 | Equivalent Circuit Modeling of DC and AC Ferrite Magnetic Properties Using H-Input and B-Input Play Models. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 1985-1988.                           | 1.2 | 5         |
| 68 | Effect of the backbone structure of bidentate ligands in palladium- and nickel-catalyzed polar monomer copolymerization. <i>Science China Chemistry</i> , 2018, 61, 1349-1350.                     | 4.2 | 5         |
| 69 | Iron-catalysed enantioselective carbometalation of azabicycloalkenes. <i>Chemical Communications</i> , 2021, 57, 6975-6978.  | 2.2 | 5         |
| 70 | 1,3-Dipolar cycloaddition of azomethine ylides and imidoyl halides for synthesis of $\hat{\text{I}}\text{E}$ -extended imidazolium salts. <i>Organic Chemistry Frontiers</i> , 2022, 9, 4128-4134. | 2.3 | 5         |
| 71 | The Rapid Synthesis of $\hat{\text{I}}\text{E}$ -Extended Azacorannulenes. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2019, 77, 1128-1135.                        | 0.0 | 4         |
| 72 | High sensitive photopolymers containing dibenz[b,f]azepine group. <i>Journal of Polymer Science, Part C: Polymer Letters</i> , 1987, 25, 223-227.  | 0.7 | 3         |

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|----|--|-----|-----------|
| 73 | Finite element analysis of a ferrite-core inductor with direct current bias current using an equivalent-circuit model of dynamic hysteretic properties. <i>Journal of Applied Physics</i> , 2014, 115, 17A330.       | 1.1 | 2         |
| 74 | Low-frequency Magnetic Fluctuation Measurement during Magnetic Reconnection in Counter-helicity Plasma Merging Experiment. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2012, 132, 233-238.              | 0.2 | 2         |
| 75 | Carbon-Carbon Bond Forming Reactions by Direct Use of Simple Alcohols. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2007, 65, 618-619.  | 0.0 | 1         |
| 76 | An Endergonic Synthesis of Single Sondheimerâ€Wong Diyne by Local Probe Chemistry. <i>Angewandte Chemie</i> , 2020, 132, 10934-10939.  | 1.6 | 1         |
| 77 | MHD Simulation of Dynamic Divertor by Plasmoid Ejection. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2011, 131, 963-964.  | 0.2 | 1         |
| 78 | Dynamics of the Reorientation of a Ferroelectric Liquid Crystal Under an Electric Field Studied by Time-Resolved Optical Waveguide Spectroscopy. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 308, 001-026. | 0.3 | 0         |
| 79 | Iron-Catalyzed Cross-Coupling of Primary and Secondary Alkyl Halides with Aryl Grignard Reagents.. <i>ChemInform</i> , 2004, 35, no.   | 0.1 | 0         |
| 80 | Iron-Catalyzed Chemoselective Cross-Coupling of Primary and Secondary Alkyl Halides with Arylzinc Reagents.. <i>ChemInform</i> , 2005, 36, no.   | 0.1 | 0         |
| 81 | Development of new ion beam monitor system using conductive mesh. , 2013, , .  |     | 0         |
| 82 | Frontispiz: Benzene-Fused Azacorannulene Bearing an Internal Nitrogen Atom. <i>Angewandte Chemie</i> , 2015, 127, n/a-n/a.   | 1.6 | 0         |
| 83 | Frontispiece: Benzene-Fused Azacorannulene Bearing an Internal Nitrogen Atom. <i>Angewandte Chemie - International Edition</i> , 2015, 54, n/a-n/a.  | 7.2 | 0         |
| 84 | Titelbild: Stepwise Reduction of Azapentabenzocorannulene ( <i>Angew. Chem.</i> 35/2019). <i>Angewandte Chemie</i> , 2019, 131, 12051-12051.   | 1.6 | 0         |
| 85 | 2 or 3 Things I Know about Chemistry. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2022, 80, 66-68.   | 0.0 | 0         |