## Nobuharu Iwasawa

List of Publications by Year in descending order

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105 papers 4,921 citations

33 h-index 95266 68 g-index

109 all docs

109 docs citations

109 times ranked 3556 citing authors

#	Article	IF	CITATIONS
1	Hydrocarboxylation of Allenes with CO <sub>2</sub> Catalyzed by Silyl Pincer-Type Palladium Complex. Journal of the American Chemical Society, 2008, 130, 15254-15255.	13.7	352
2	Rhodium(I)-Catalyzed Carboxylation of Aryl- and Alkenylboronic Esters with CO2. Journal of the American Chemical Society, 2006, 128, 8706-8707.	13.7	303
3	Rhodium(I)-Catalyzed Direct Carboxylation of Arenes with CO <sub>2</sub> via Chelation-Assisted Câ^'H Bond Activation. Journal of the American Chemical Society, 2011, 133, 1251-1253.	13.7	294
4	Palladium(II)-Catalyzed Direct Carboxylation of Alkenyl C–H Bonds with CO <sub>2</sub> . Journal of the American Chemical Society, 2013, 135, 10954-10957.	13.7	240
5	Visible-Light-Driven Carboxylation of Aryl Halides by the Combined Use of Palladium and Photoredox Catalysts. Journal of the American Chemical Society, 2017, 139, 9467-9470.	13.7	221
6	Catalytic, Direct Synthesis of Bis(boronate) Compounds. ACS Catalysis, 2012, 2, 1993-2006.	11.2	216
7	Synthesis, Structure, and Catalysis of Palladium Complexes Bearing a Group 13 Metalloligand: Remarkable Effect of an Aluminum-Metalloligand in Hydrosilylation of CO <sub>2</sub> . Journal of the American Chemical Society, 2017, 139, 6074-6077.	13.7	160
8	Generation and Reaction of Metal-Containing Carbonyl Ylides:Â Tandem [3+2]-Cycloadditionâ°Carbene Insertion Leading to Novel Polycyclic Compounds. Journal of the American Chemical Society, 2001, 123, 5814-5815.	13.7	155
9	Efficient Synthesis of Diborylalkenes from Alkenes and Diboron by a New PSiP-Pincer Palladium-Catalyzed Dehydrogenative Borylation. Journal of the American Chemical Society, 2011, 133, 12980-12983.	13.7	144
10	Boronic Esters as a System for Crystallization-Induced Dynamic Self-Assembly Equipped with an "Onâ^'Off―Switch for Equilibration. Journal of the American Chemical Society, 2007, 129, 7754-7755.	13.7	133
11	Direct carboxylation of simple arenes with CO <sub>2</sub> through a rhodium-catalyzed C–H bond activation. Chemical Communications, 2014, 50, 14360-14363.	4.1	132
12	Construction of a visible light-driven hydrocarboxylation cycle of alkenes by the combined use of Rh( <scp>i</scp> ) and photoredox catalysts. Chemical Communications, 2017, 53, 3098-3101.	4.1	128
13	Efficient One-to-One Coupling of Easily Available 1,3-Dienes with Carbon Dioxide. Organic Letters, 2011, 13, 1698-1701.	<b>4.</b> 6	122
14	Platinum(II)-Catalyzed Generation and [3+2] Cycloaddition Reaction of $\hat{l}\pm,\hat{l}^2$ -Unsaturated Carbene Complex Intermediates for the Preparation of Polycyclic Compounds. Journal of the American Chemical Society, 2011, 133, 689-691.	13.7	102
15	Bis( <i>&gt;o</i> -phosphinophenyl)silane as a Scaffold for Dynamic Behavior of Hâ^'Si and Câ^'Si Bonds with Palladium(0). Organometallics, 2009, 28, 6636-6638.	2.3	99
16	An Efficient Method for Cyclopentene Annulation onto α,β-Unsaturated Ketones:  W(CO)5(L)-Catalyzed 5-Endo-Dig Cyclization of 6-Siloxy-5-en-1-ynes. Organic Letters, 2002, 4, 4463-4466.	4.6	95
17	Novel Synthesis of Pentacarbonylbenzopyranylidenetungsten(0) Complexes and Their Dielsâ^'Alder Reaction with Electron-Rich Alkenes. Journal of the American Chemical Society, 2000, 122, 10226-10227.	13.7	89
18	Self-Assembly of Nanometer-Sized Boroxine Cages from Diboronic Acids. Journal of the American Chemical Society, 2015, 137, 7015-7018.	13.7	86

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19	Rutheniumâ€Catalyzed <i>ortho</i> Câ^'H Borylation of Arylphosphines. Angewandte Chemie - International Edition, 2019, 58, 2850-2853.	13.8	77
20	A Novel Reaction for Annulation onto $\hat{l}\pm,\hat{l}^2$ -Unsaturated Ketones: W(CO)5 $\hat{A}$ -L PromotedExo-andEndo-Selective Cyclizations of $l\%$ -Acetylenic Silyl Enol Ethers Prepared by 1,4-Addition of Propargyl Malonate to Enones. Organic Letters, 2001, 3, 3871-3873.	4.6	74
21	Reaction of bis(o-phosphinophenyl)silane with M(PPh3)4 (M = Ni, Pd, Pt): synthesis and structural analysis of î·2-(Si–H) metal(0) and pentacoordinate silyl metal(ii) hydride complexes of the Ni triad bearing a PSiP-pincer ligand. Dalton Transactions, 2011, 40, 8814.	3.3	72
22	Synthesis and Reactivity of Iron– and Cobalt–Dinitrogen Complexes Bearing PSiPâ€√ype Pincer Ligands toward Nitrogen Fixation. European Journal of Inorganic Chemistry, 2017, 2017, 3769-3778.	2.0	70
23	Fluorine-controlled C–H borylation of arenes catalyzed by a PSiN-pincer platinum complex. Chemical Communications, 2015, 51, 17662-17665.	4.1	69
24	Mechanistic study of the rhodium-catalyzed carboxylation of simple aromatic compounds with carbon dioxide. Chemical Science, 2017, 8, 1454-1462.	7.4	64
25	PSiP-Pincer Type Palladium-Catalyzed Dehydrogenative Borylation of Alkenes and 1,3-Dienes. Bulletin of the Chemical Society of Japan, 2013, 86, 784-799.	3.2	60
26	Guestâ€Induced Dynamic Selfâ€Assembly of Two Diastereomeric Cageâ€Like Boronic Esters. Chemistry - A European Journal, 2009, 15, 13327-13330.	3.3	58
27	Use of Formate Salts as a Hydride and a CO <sub>2</sub> Source in <i>PGeP</i> -Palladium Complex-Catalyzed Hydrocarboxylation of Allenes. Organic Letters, 2015, 17, 1814-1817.	4.6	58
28	Indium-Mediated β-Allylation, β-Propargylation, and β-Allenylation onto α,β-Unsaturated Ketones:  Reaction of in-Situ-Generated 3-tert-Butyldimethylsilyloxyalk-2-enylsulfonium Salts with in-Situ-Generated Organoindium Reagents. Journal of the American Chemical Society, 2003, 125, 9682-9688.	ons 13.7	53
29	Palladium-Catalyzed Visible-Light-Driven Carboxylation of Aryl and Alkenyl Triflates by Using Photoredox Catalysts. Organic Letters, 2019, 21, 4486-4489.	4.6	52
30	Dynamic Behavior of Covalent Organic Cages. Chemistry - A European Journal, 2018, 24, 17856-17868.	3.3	50
31	Total Synthesis of (±)â€Englerinâ€A Using An Intermolecular [3+2] Cycloaddition Reaction of Platinumâ€Containing Carbonyl Ylide. Chemistry - an Asian Journal, 2016, 11, 64-67.	3.3	40
32	Synthesis, Structure, and Catalytic Activity of Palladium Complexes Bearing a Tridentate PXP-Pincer Ligand of Heavier Group 14 Element (X = Ge, Sn). Chemistry Letters, 2012, 41, 967-969.	1.3	39
33	Two Reversible Ïf-Bond Metathesis Pathways for Boron–Palladium Bond Formation: Selective Synthesis of Isomeric Five-Coordinate Borylpalladium Complexes. Journal of the American Chemical Society, 2013, 135, 2493-2496.	13.7	38
34	Rhenium(I)â€Catalyzed Generation of α,βâ€Unsaturated Carbene Complex Intermediates from Propargyl Ethers for the Preparation of Cycloheptadiene Derivatives. Angewandte Chemie - International Edition, 2016, 55, 10057-10060.	13.8	33
35	Complexation-Initiated Intramolecular [4+2] Cycloaddition: Construction of Bridged-Type Cycloadducts. Angewandte Chemie - International Edition, 2005, 44, 7447-7450.	13.8	31
36	Controlled Self-Assembly of Multiple Diastereomeric Macrocyclic Boronic Esters Composed of Two Chiral Units. Journal of the American Chemical Society, 2012, 134, 13962-13965.	13.7	30

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37	Development of <i>N</i> â€Phosphinomethylâ€Substituted NHCâ€Nickel(0) Complexes as Robust Catalysts for Acrylate Salt Synthesis from Ethylene and CO <sub>2</sub> . Chemistry - A European Journal, 2019, 25, 13504-13508.	3.3	30
38	Silyl Ligand Mediated Reversible βâ€Hydrogen Elimination and Hydrometalation at Palladium. Chemistry - A European Journal, 2014, 20, 11812-11819.	3.3	29
39	Supramolecular Photocatalysis by Utilizing the Host–Guest Chargeâ€Transfer Interaction: Visibleâ€Lightâ€Induced Generation of Triplet Anthracenes for [4+2] Cycloaddition Reactions. Angewandte Chemie - International Edition, 2020, 59, 7403-7408.	13.8	29
40	Construction of Cyclohepta[b]indoles via Platinum-Catalyzed Intermolecular Formal [4+3]-Cycloaddition Reaction of $\hat{l}\pm,\hat{l}^2$ -Unsaturated Carbene Complex Intermediates with Siloxydienes. Synlett, 2013, 24, 1364-1370.	1.8	28
41	Rhodiumâ€Catalyzed Câ^'H Activation Enabled by an Indium Metalloligand. Angewandte Chemie - International Edition, 2019, 58, 17251-17254.	13.8	27
42	Rutheniumâ€Catalyzed ortho Câ^'H Borylation of Arylphosphines. Angewandte Chemie, 2019, 131, 2876-2879.	2.0	27
43	Synthesis of a Bis(boronate) Compound Havings-Indacene Framework and Its Property as a Host Molecule for Dimethylaminopyridine. Bulletin of the Chemical Society of Japan, 1996, 69, 2585-2594.	3.2	26
44	Guest-induced self-assembly of a macrocyclic boronic ester containing diarylethene units: enhancement of photoresponsivity. Chemical Communications, 2012, 48, 7477.	4.1	26
45	Release and Recovery of Guest Molecules during the Reversible Borate Gel Formation of Guestâ€Included Macrocyclic Boronic Esters. Angewandte Chemie - International Edition, 2013, 52, 11045-11048.	13.8	26
46	Stabilized Gallylene in a Pincerâ€Type Ligand: Synthesis, Structure, and Reactivity of PGa <sup>I</sup> Pâ€Ir Complexes. Angewandte Chemie - International Edition, 2019, 58, 9998-10002.	13.8	26
47	Dynamic Interconversion between Boroxine Cages Based on Pyridine Ligation. Angewandte Chemie - International Edition, 2018, 57, 3113-3117.	13.8	25
48	Re(I)-Catalyzed Hydropropargylation of Silyl Enol Ethers Utilizing Dynamic Interconversion of Vinylidene–Alkenylmetal Intermediates via 1,5-Hydride Transfer. Journal of the American Chemical Society, 2018, 140, 7769-7772.	13.7	24
49	Crystallizationâ€Controlled Dynamic Selfâ€Assembly and an On/Off Switch for Equilibration Using Boronic Ester Formation. Chemistry - A European Journal, 2010, 16, 13680-13688.	3.3	23
50	Metallic reductant-free synthesis of $\hat{l}_{\pm}$ -substituted propionic acid derivatives through hydrocarboxylation of alkenes with a formate salt. Chemical Communications, 2017, 53, 3982-3985.	4.1	23
51	Reactivity of a Ruthenium(0) Complex Bearing a Tetradentate Phosphine Ligand: Applications to Catalytic Acrylate Salt Synthesis from Ethylene and CO <sub>2</sub> . Organometallics, 2019, 38, 205-209.	2.3	21
52	Selfâ€Assembly of Macrocyclic Boronic Esters Bearing Tellurophene Moieties and Their Guestâ€Responsive Phosphorescence. Chemistry - A European Journal, 2019, 25, 8479-8483.	3.3	20
53	Synthesis, Structure, and Reactivity of a Mononuclear η <sup>2</sup> â€(Ge–H)palladium(0) Complex Bearing a PGePâ€Pincerâ€Type Germyl Ligand: Reactivity Differences between Silicon and Germanium. European Journal of Inorganic Chemistry, 2018, 2018, 5012-5018.	2.0	19
54	Ruthenium-catalyzed regio- and site-selective <i>ortho</i> C–H borylation of phenol derivatives. Chemical Communications, 2020, 56, 10710-10713.	4.1	19

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55	Total Synthesis of Proposed Structure of Yuremamine and All Diastereomers Using [3+2]â€Cycloaddition of Platinumâ€Containing Azomethine Ylide. Chemistry - an Asian Journal, 2015, 10, 1850-1853.	3.3	18
56	Improved Conditions for the Visible-Light Driven Hydrocarboxylation by Rh(I) and Photoredox Dual Catalysts Based on the Mechanistic Analyses. Frontiers in Chemistry, 2019, 7, 371.	3.6	18
57	Selective Intermolecular [2 + 2] Cycloaddition Reaction Using Platinum(II) Catalyst with Hollow-shaped Triethynylphosphine. Chemistry Letters, 2012, 41, 786-788.	1.3	17
58	Reactions of Novel Reactive Species Generated by Samarium(II)-Mediated One-Electron Reduction of Fischer-Type Carbene Complexes. Organic Letters, 2000, 2, 3297-3299.	4.6	15
59	Rhodium-Catalyzed Chemoselective Hydrosilylation of Nitriles to an Imine Oxidation Level Enabled by a Pincer-type Group 13 Metallylene Ligand. ACS Catalysis, 2020, 10, 12223-12228.	11.2	15
60	Rhâ€Catalyzed Direct Carboxylation of Alkenyl Câ^'H Bonds of Alkenylpyrazoles. Chemistry - an Asian Journal, 2020, 15, 1941-1944.	3.3	15
61	Synthesis, Structure, and Reactivity of Naphthalyneâ^'Co2(CO)6 Complexes. Journal of the American Chemical Society, 2008, 130, 6328-6329.	13.7	14
62	Procedure-dependent construction of two isomers of trimeric self-assembled boronic esters. Chemical Communications, 2014, 50, 13683-13686.	4.1	14
63	1,2â€Dihydroâ€1â€hydroxyâ€2,3,1â€benzodiazaborine Bearing an Acridine Moiety as a Circular Dichroism Probe for Determination of Absolute Configuration of Monoâ€Alcohols. Chemistry - A European Journal, 2019, 25, 3790-3794.	3.3	14
64	Mechanistic Investigations of the Ruthenium-Catalyzed Synthesis of Acrylate Salt from Ethylene and CO <sub>2</sub> . Organometallics, 2020, 39, 1561-1572.	2.3	14
65	Metalâ€Free Photoredoxâ€Catalyzed Hydrodefluorination of Fluoroarenes Utilizing Amide Solvent as Reductant. Chemistry - A European Journal, 2021, 27, 12635-12641.	3.3	14
66	Mechanistic Studies on the Stereoisomerization between Two Stereoisomeric, Isolable Five-Coordinate Borylpalladium(II) Complexes Bearing a Phenylene-Bridged PSiP-Pincer Type Ligand. Organometallics, 2014, 33, 1499-1502.	2.3	13
67	Utilization of Donor–Acceptor Interactions for the Catalytic Acceleration of Nucleophilic Additions to Aromatic Carbonyl Compounds. Angewandte Chemie - International Edition, 2018, 57, 2130-2133.	13.8	13
68	Controlled release of the guest molecule <i>via</i> borate formation of a fluorinated boronic ester cage. Chemical Communications, 2020, 56, 5613-5616.	4.1	13
69	Visibleâ€Lightâ€Enabled Carboxylation of Benzyl Alcohol Derivatives with CO <sub>2</sub> Using a Palladium/Iridium Dual Catalyst. ChemSusChem, 2022, 15, .	6.8	13
70	( <i>Z</i> )-Selective Hydroboration of Terminal Alkynes Catalyzed by a PSP–Pincer Rhodium Complex. Organic Letters, 2021, 23, 9262-9266.	4.6	13
71	Catalytic Synthesis of a Methylmalonate Salt from Ethylene and Carbon Dioxide through Photoinduced Activation and Photoredox-Catalyzed Reduction of Nickelalactones. ACS Catalysis, 2022, 12, 3776-3781.	11.2	13
72	Inclusion of Two Different Guest Molecules within a Rationally Designed Macrocyclic Boronic Ester in Organic Solvent. Chemistry - A European Journal, 2014, 20, 15737-15741.	3.3	12

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73	Synthesis, structure, and reactivity of pincer-type iridium complexes having gallyl- and indyl-metalloligands utilizing 2,5-bis(6-phosphino-2-pyridyl)pyrrolide as a new scaffold for metal–metal bonds. Dalton Transactions, 2019, 48, 14606-14610.	3.3	12
74	[4+2]â€Cycloaddition Reaction of Cyclic Alkyne–{Co <sub>2</sub> (CO) <sub>6</sub> } Complexes with Dienes. Angewandte Chemie - International Edition, 2010, 49, 7534-7537.	13.8	11
75	Enhancement of Host–Guest Interactions Using Rationally Designed Macrocyclic Boronic Esters with a Naphthalene Core. Chemistry - an Asian Journal, 2014, 9, 1001-1005.	3.3	11
76	Total Synthesis of (±)â€Integrifolin. Chemistry - A European Journal, 2016, 22, 9953-9957.	3.3	11
77	Supramolecular Photocatalysis by Utilizing the Host–Guest Chargeâ€Transfer Interaction: Visibleâ€Lightâ€Induced Generation of Triplet Anthracenes for [4+2] Cycloaddition Reactions. Angewandte Chemie, 2020, 132, 7473-7478.	2.0	11
78	Rhodiumâ€Catalyzed <i>meta</i> å€Selective Câ^'H Carboxylation Reaction of 1,1â€Diarylethylenes via Hydrorhodationâ€Rhodium Migration. Angewandte Chemie - International Edition, 2021, 60, 23349-23356.	13.8	11
79	Photoâ€promoted Skeletal Rearrangement of Phosphine–Borane Frustrated Lewis Pairs Involving Cleavage of Unstrained Câ^'C Ïfâ€Bonds. Angewandte Chemie - International Edition, 2020, 59, 11913-11917.	13.8	10
80	Use of Isopropyl Alcohol as a Reductant for Catalytic Dehydoxylative Dimerization of Benzylic Alcohols Utilizing Tiâ <sup>*</sup> O Bond Photohomolysis. European Journal of Organic Chemistry, 2021, 2021, 2474-2478.	2.4	10
81	Mechanistic Studies into Visible Light-Driven Carboxylation of Aryl Halides/Triflates by the Combined Use of Palladium and Photoredox Catalysts. Bulletin of the Chemical Society of Japan, 2021, 94, 1846-1853.	3.2	10
82	A K <sup>+</sup> -promoted Diels–Alder reaction by using a self-assembled macrocyclic boronic ester containing two crown ether moieties. Chemical Science, 2019, 10, 7627-7632.	7.4	9
83	Switching of the solid-state guest selectivity: solvent-dependent selective guest inclusion in a crystalline macrocyclic boronic ester. Chemical Science, 2016, 7, 5765-5769.	7.4	6
84	Rhodiumâ€Catalyzed Câ^'H Activation Enabled by an Indium Metalloligand. Angewandte Chemie, 2019, 131, 17411-17414.	2.0	6
85	Organometallic Chemistry for Enabling Carbon Dioxide Utilization. Organometallics, 2020, 39, 1457-1460.	2.3	6
86	Dynamic Interconversion between Boroxine Cages Based on Pyridine Ligation. Angewandte Chemie, 2018, 130, 3167-3171.	2.0	5
87	Utilization of Donor–Acceptor Interactions for the Catalytic Acceleration of Nucleophilic Additions to Aromatic Carbonyl Compounds. Angewandte Chemie, 2018, 130, 2152-2155.	2.0	5
88	Stabilized Gallylene in a Pincerâ€Type Ligand: Synthesis, Structure, and Reactivity of PGa I Pâ€Ir Complexes. Angewandte Chemie, 2019, 131, 10103-10107.	2.0	5
89	Oligoboroxine-based architectures. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2021, 101, 19-29.	1.6	5
90	3Dâ€Boronic Ester Architectures: Synthesis, Hostâ€Guest Chemistry, Dynamic Behavior, and Supramolecular Catalysis. Chemical Record, 2022, 22, .	5.8	5

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91	Control of the reversibility during boronic ester formation: application to the construction of ferrocene dimers and trimers. Dalton Transactions, 2017, 46, 2370-2376.	3.3	4
92	Visibleâ€Lightâ€Enabled Carboxylation of Benzyl Alcohol Derivatives with CO <sub>2</sub> Using a Palladium/Iridium Dual Catalyst. ChemSusChem, 2022, 15, e202200021.	6.8	3
93	Synthesis and Reactivity of Iron- and Cobalt-Dinitrogen Complexes Bearing PSiP-Type Pincer Ligands toward Nitrogen Fixation. European Journal of Inorganic Chemistry, 2017, 2017, 3768-3768.	2.0	2
94	Re(I)-catalyzed hydropropargylation of enamides: a useful method for the preparation of 4-pentynylamine derivatives. Journal of Antibiotics, 2019, 72, 490-493.	2.0	2
95	Octacarbonyldicobalt Mediated Rearrangement of 1-Alkynyl and 1-Allenylcyclopropanols Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 1998, 56, 1058-1068.	0.1	2
96	Facile synthesis and utilization of bis( <i>&gt;o</i> -phosphinophenyl)zinc as isolable PZnP-pincer ligands enabled by boron–zinc double transmetallation. Dalton Transactions, 2022, 51, 7035-7039.	3.3	2
97	Photo-promoted Skeletal Rearrangement of <i>&gt;o</i> -Anisyldimesitylborane Involving C–H/C–O/C–B Bond Cleavage. Chemistry Letters, 2022, 51, 570-573.	1.3	2
98	Group 6 Metal Vinylidenes in Catalysis (Cr, Mo, W)., 0,, 159-191.		1
99	Rhodiumâ€Catalyzed meta â€Selective Câ^H Carboxylation Reaction of 1,1â€Diarylethylenes via Hydrorhodationâ€Rhodium Migration. Angewandte Chemie, 2021, 133, 23537.	2.0	1
100	Reversible C–C Double Bond Cleavage to Form a Metal Carbene and an Alkene Enabled on an Iridium Complex Bearing a Pincer-type Alkoxycarbene Ligand. Organometallics, 0, , .	2.3	1
101	Frontispiece: Dynamic Behavior of Covalent Organic Cages. Chemistry - A European Journal, 2018, 24, .	3.3	0
102	Rýcktitelbild: Dynamic Interconversion between Boroxine Cages Based on Pyridine Ligation (Angew.) Tj ETQqC	0 0 rgBT .	/Oyerlock 10
103	Photoâ€promoted Skeletal Rearrangement of Phosphine–Borane Frustrated Lewis Pairs Involving Cleavage of Unstrained Câ^'C Ïfâ€Bonds. Angewandte Chemie, 2020, 132, 12011-12015.	2.0	O
104	2â€Quinolyl Benzodiazaborine: A Tunable Platform for Aggregationâ€Induced Emission Luminogens via Formation of Dimeric Borate Crystals with Acid Additives. ChemPhotoChem, 0, , .	3.0	0
105	Front Cover: Visibleâ€Lightâ€Enabled Carboxylation of Benzyl Alcohol Derivatives with CO <sub>2</sub> Using a Palladium/Iridium Dual Catalyst (ChemSusChem 3/2022). ChemSusChem, 2022, 15, .	6.8	0