

Masato Ohashi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93 papers	3,280 citations	32 h-index	55 g-index
101 ext. papers	3,754 ext. citations	10.3 avg, IF	5.68 L-index

#	Paper	IF	Citations
93	Overlooked Factors Required for Electrolyte Solvents in Li-O ₂ Battery: Capabilities of Quenching O ₂ and Forming Highly-decomposable Li ₂ O ₂ . <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	4
92	Synthesis of Fluoroalkyl Sulfides via Additive-Free Hydrothiolation and Sequential Functionalization Reactions. <i>Journal of Organic Chemistry</i> , 2021 , 86, 6015-6024	4.2	2
91	Development and Mechanistic Studies of (E)-Selective Isomerization/Tandem Hydroarylation Reactions of Alkenes with a Nickel(0)/Phosphine Catalyst. <i>ACS Catalysis</i> , 2021 , 11, 6741-6749	13.1	5
90	N-Phosphine Oxide-Substituted Imidazolylidenes (Poxlms) as Multifunctional Multipurpose N-Heterocyclic Carbenes. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2021 , 79, 632-641	0.2	
89	CsF-Catalyzed Fluoroacylation of Tetrafluoroethylene Using Acyl Fluorides for the Synthesis of Pentafluoroethyl Ketones. <i>Synthesis</i> , 2021 , 53, 3137-3143	2.9	1
88	Sm(II)-mediated Single-electron Reduction of Pentafluorophenylcopper(I). <i>Chemistry Letters</i> , 2021 , 50, 1394-1396	1.7	
87	Development of Metal Complexes Equipped with Structurally Flexible Carbenes. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 327-338	5.1	2
86	Enantioselective Synthesis of Polycyclic Lactams with Multiple Chiral Carbon Centers via Ni(0)-Catalyzed Asymmetric Carbonylative Cycloadditions without Stirring. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1594-1602	16.4	25
85	Axial Chirality around N-P Bonds Induced by Complexation between E(CF) (E = B, Al) and an -Phosphine Oxide-Substituted Imidazolylidene: A Key Intermediate in the Catalytic Phosphinoylation of CO. <i>Journal of Organic Chemistry</i> , 2020 , 85, 14333-14341	4.2	4
84	C-C Bond Functionalization 2020 , 103-121		0
83	Carbon Dioxide Fixation via Nickelacycle 2020 , 249-283		0
82	Cross-Electrophile Coupling 2020 , 183-222		30
81	Catalytic Synthesis of Isoquinolines via Intramolecular Migration of N-Aryl Sulfonyl Groups on 1,5-Diynes-Imines. <i>Bulletin of the Chemical Society of Japan</i> , 2020 , 93, 182-186	5.1	3
80	Organometallic Chemistry of High-Valent Ni(III) and Ni(IV) Complexes 2020 , 223-248		1
79	Formation of Nickelacycles and Reaction with Carbon Monoxide 2020 , 1-11		1
78	Relevance of Ni(I) in Catalytic Carboxylation Reactions 2020 , 285-330		2
77	Transformation of Aldehydes via Nickelacycles 2020 , 13-27		

76	Asymmetric C?C Bond Formation Reactions via Nickelacycles 2020 , 39-67		
75	Recent Advances in Ni-Catalyzed Chelation-Assisted Direct Functionalization of Inert C ? H Bonds 2020 , 69-101		
74	C?O Bond Transformations 2020 , 123-149		2
73	Photo-Assisted Nickel-Catalyzed Cross-Coupling Processes 2020 , 151-181		1
72	Direct Transformation of Tetrafluoroethylene to Trifluorovinylzinc via sp C-F Bond Activation. <i>Organic Letters</i> , 2020 , 22, 8167-8172	6.2	4
71	Cleavage of C(sp)-F Bonds in Trifluoromethylarenes Using a Bis(NHC)nickel(0) Complex. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19360-19367	16.4	27
70	Rotation-Triggered Transmetalation on a Heterobimetallic Cu/Al -Phosphine-Oxide-Substituted Imidazolylidene Complex. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9772-9784	16.4	8
69	Complexation between MOTf (M = Li and Na) and N-Phosphine Oxide-substituted Imidazolyldenes via Coordination of the N-Phosphoryl Groups. <i>Chemistry Letters</i> , 2019 , 48, 230-233	1.7	7
68	Nickel-catalyzed decarbonylation of -acylated N-heteroarenes. <i>Chemical Science</i> , 2019 , 10, 6666-6671	9.4	24
67	Triarylborane-Catalyzed Reductive N-Alkylation of Amines: A Perspective. <i>ACS Catalysis</i> , 2019 , 9, 5439-5444	13.1	24
66	Ni(0)-Catalyzed Three-Component Coupling Reaction of Tetrafluoroethylene and N-Sulfonyl-Substituted Imines with Silanes via Aza-Nickelacycles. <i>Organic Letters</i> , 2019 , 21, 851-856	6.2	11
65	Nickel-Catalyzed Three-Component Coupling Reaction of Tetrafluoroethylene and Aldehydes with Silanes via Oxa-Nickelacycles. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 1883-1887	3.2	9
64	Strain-Induced Double Carbon-Carbon Bond Activations of Cycloparaphenylenes by a Platinum Complex: Application to the Synthesis of Cyclic Diketones. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11418-11421	16.4	14
63	Fluorinated Vinylsilanes from the Copper-Catalyzed Defluorosilylation of Fluoroalkene Feedstocks. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 328-332	16.4	77
62	Selective Catalytic Formation of Cross-Tetramers from Tetrafluoroethylene, Ethylene, Alkynes, and Aldehydes via Nickelacycles as Key Reaction Intermediates. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17423-17427	16.4	14
61	Cu -Catalyzed Pentafluoroethylation of Aryl Iodides in the Presence of Tetrafluoroethylene and Cesium Fluoride: Determining the Route to the Key Pentafluoroethyl Cu Intermediate. <i>Chemistry - A European Journal</i> , 2018 , 24, 9794-9798	4.8	27
60	Nickel(0)-Mediated Transformation of Tetrafluoroethylene and Vinylarenes into Fluorinated Cyclobutyl Compounds. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2435-2439	16.4	26
59	Efficient Synthesis of Polycyclic Lactams by Catalytic Carbonylation of Ene-Imines via Nickelacycle Intermediates. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8206-8210	16.4	31

58	Synthesis and Reactivity of Fluoroalkyl Copper Complexes by the Oxycupration of Tetrafluoroethylene. <i>Angewandte Chemie</i> , 2017 , 129, 12073-12077	3.6	8
57	Transition-Metal-Free Catalytic Hydrodefluorination of Polyfluoroarenes by Concerted Nucleophilic Aromatic Substitution with a Hydrosilicate. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16191-16196	16.4	49
56	Reaktitelbild: Synthesis and Reactivity of Fluoroalkyl Copper Complexes by the Oxycupration of Tetrafluoroethylene (Angew. Chem. 39/2017). <i>Angewandte Chemie</i> , 2017 , 129, 12178-12178	3.6	
55	Copper-Catalyzed Regioselective Monodefluoroborylation of Polyfluoroalkenes en Route to Diverse Fluoroalkenes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12855-12862	16.4	145
54	Synthesis and Reactivity of Fluoroalkyl Copper Complexes by the Oxycupration of Tetrafluoroethylene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11911-11915	16.4	25
53	N-Phosphine Oxide-Substituted Imidazolylidenes (Poxlms): Multifunctional Multipurpose Carbenes. <i>Chemistry - A European Journal</i> , 2017 , 23, 15238-15243	4.8	20
52	Nickel-Catalyzed Formation of 1,3-Dienes via a Highly Selective Cross-Tetramerization of Tetrafluoroethylene, Styrenes, Alkynes, and Ethylene. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17795-17798	16.4	21
51	Two-step synthesis of chiral fused tricyclic scaffolds from phenols via desymmetrization on nickel. <i>Nature Communications</i> , 2017 , 8, 32	17.4	51
50	Kinetic and Theoretical Studies on Ni /N-Heterocyclic Carbene-Catalyzed Intramolecular Alkene Hydroacylation. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 278-282	4.5	11
49	Highly Atom Economical Molecular Transformation via Hetero-Nickelacycle. <i>Bulletin of the Chemical Society of Japan</i> , 2017 , 90, 1401-1406	5.1	14
48	Copper-Catalyzed Reaction of Trifluoromethylketones with Aldehydes via a Copper Difluoroenolate. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 341-4	16.4	48
47	Transition-Metal Mediated Transformations of Tetrafluoroethylene into Various Polyfluorinated Organic Compounds. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2016 , 74, 1047-1057	9.2	10
46	Nickel-Catalyzed Enantioselective Synthesis of Cyclobutenes via [2+2] Cycloaddition of π -Unsaturated Carbonyls with 1,3-Enynes. <i>Synthesis</i> , 2016 , 48, 2789-2794	2.9	23
45	Strategic Utilization of Multifunctional Carbene for Direct Synthesis of Carboxylic-Phosphinic Mixed Anhydride from CO. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 16075-16079	16.4	24
44	Nickel(0)-catalyzed intramolecular reductive coupling of alkenes and aldehydes or ketones with hydrosilanes. <i>Chemical Communications</i> , 2016 , 52, 6237-40	5.8	20
43	Synthesis, characterization, and unique catalytic activities of a fluorinated nickel enolate. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3276-82	16.4	43
42	Nickel-Catalyzed Formation of Fluorine-Containing Ketones via the Selective Cross-Trimerization Reaction of Tetrafluoroethylene, Ethylene, and Aldehydes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6496-9	16.4	50
41	Catalytic Transformation of Aldehydes with Nickel Complexes through η^2 Coordination and Oxidative Cyclization. <i>Accounts of Chemical Research</i> , 2015 , 48, 1746-55	24.3	76

40	Aza-nickelacycle key intermediate in nickel(0)-catalyzed transformation reactions. <i>Dalton Transactions</i> , 2015 , 44, 12060-73	4.3	22
39	Nickel(0)/N-Heterocyclic Carbene-Catalyzed Asymmetric [2 + 2 + 2] Cycloaddition of Two Enones and an Alkyne: Access to Cyclohexenes with Four Contiguous Stereogenic Centers. <i>Organic Letters</i> , 2015 , 17, 6018-21	6.2	28
38	A Strategy to Control the Reactivation of Frustrated Lewis Pairs from Shelf-Stable Carbene Borane Complexes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11666-71	16.4	30
37	Pentacoordinated carboxylate allyl nickel complexes as key intermediates for the Ni-catalyzed direct amination of allylic alcohols. <i>Chemistry - A European Journal</i> , 2015 , 21, 14571-8	4.8	48
36	Nickel(0)-catalyzed [2 + 2 + 1] carbonylative cycloaddition of imines and alkynes or norbornene leading to lactams. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15877-80	16.4	75
35	Fluoroalkylcopper(I) complexes generated by the carbocupration of tetrafluoroethylene: construction of a tetrafluoroethylene-bridging structure. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15158-61	16.4	54
34	Nickel-catalyzed synthesis of N-aryl-1,2-dihydropyridines by [2+2+2] cycloaddition of imines with alkynes through T-shaped 14-electron aza-nickelacycle key intermediates. <i>Chemistry - A European Journal</i> , 2014 , 20, 4105-10	4.8	44
33	Regioselective C-F bond activation of hexafluoropropylene on palladium(0): formation of a cationic (η ²)-perfluoroallylpalladium complex. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13578-82	16.4	31
32	Palladium-Catalyzed Cross-Coupling Reactions of Perfluoro Organic Compounds. <i>Catalysts</i> , 2014 , 4, 321-345	12	
31	Palladium-Catalyzed Base-Free Suzuki-Miyaura Coupling Reactions of Fluorinated Alkenes and Arenes via a Palladium Fluoride Key Intermediate. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 443-447	3.2	99
30	Synthesis of Five- and Six-Membered Benzocyclic Ketones through Intramolecular Alkene Hydroacylation Catalyzed by Nickel(0)/N-Heterocyclic Carbenes. <i>Angewandte Chemie</i> , 2012 , 124, 10970-10973	3.6	14
29	Nickel-catalyzed intermolecular [2 + 2] cycloaddition of conjugated enynes with alkenes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15692-5	16.4	100
28	Nickel-catalyzed selective conversion of two different aldehydes to cross-coupled esters. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4668-71	16.4	103
27	Palladium-catalyzed coupling reactions of tetrafluoroethylene with arylzinc compounds. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3256-9	16.4	139
26	[3+2] Cycloaddition Reaction of Cyclopropyl Ketones with Alkynes Catalyzed by Nickel/Dimethylaluminum Chloride. <i>Angewandte Chemie</i> , 2011 , 123, 12273-12276	3.6	15
25	Metallocenoids of platinum: Syntheses and structures of triangular triplatinum sandwich complexes of cycloheptatrienyl. <i>Chemical Science</i> , 2011 , 2, 117-122	9.4	46
24	Nickel-catalyzed [2 + 2 + 2] cycloaddition of two enones and an alkyne. <i>Organic Letters</i> , 2010 , 12, 3450-2	6.2	69
23	Nickel-catalyzed Tishchenko reaction via hetero-nickelacycles by oxidative cyclization of aldehydes with nickel(0) complex. <i>Chemical Communications</i> , 2010 , 46, 3354-6	5.8	60

22	Nickel-catalyzed direct conjugate addition of simple alkenes to enones. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10350-1	16.4	69
21	Ni(0)-catalyzed formation of azaaluminacyclopentenes via azanickelacyclopentenes: a unique nickel/aluminum double transmetalation reaction. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9160-1	16.4	41
20	Hetero-Nickelacycles as Key Reaction Intermediate in Catalytic Reactions. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2009 , 67, 507-516	0.2	6
19	Nickeladihydrofuran. Key intermediate for nickel-catalyzed reaction of alkyne and aldehyde. <i>Chemical Communications</i> , 2008 , 1347-9	5.8	83
18	Formation of acylruthenium promoted by coordination of AlMe(3) to (eta(4)-cyclopentadienone)Ru(CO)(3). <i>Dalton Transactions</i> , 2008 , 2232-4	4.3	4
17	Nickel-catalyzed [2+2+2] cycloaddition of two alkynes and an imine. <i>Pure and Applied Chemistry</i> , 2008 , 80, 1115-1125	2.1	28
16	Linear metal-metal-bonded tetranuclear M-Mo-Mo-M complexes (M = Ir and Rh): oxidative metal-metal bond formation in a tetrametallic system and 1,4-addition reaction of alkyl halides. <i>Inorganic Chemistry</i> , 2007 , 46, 6702-14	5.1	21
15	Tetraplatinum precursors for supramolecular assemblies: syntheses, crystal structures, and stereoselective self-assemblies of [Pt4(micro-OCOCH3)6(kappa4-N4-DArBp)] (DArBp = 1,3-bis(arylbenzamidinate)propane). <i>Chemical Communications</i> , 2007 , 3103-5	5.8	23
14	Formation of an aza-nickelacycle by reaction of an imine and an alkyne with nickel(0): oxidative cyclization, insertion, and reductive elimination. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4930-2	16.4	89
13	Reversible carbon-carbon bond formation between 1,3-dienes and aldehyde or ketone on nickel(0). <i>Journal of the American Chemical Society</i> , 2006 , 128, 7077-86	16.4	126
12	Formation of nickeladihydropyran by oxidative addition of cyclopropyl ketone. Key intermediate in nickel-catalyzed cycloaddition. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5350-1	16.4	111
11	AlMe3-promoted oxidative cyclization of eta2-alkene and eta2-ketone on nickel(0). Observation of intermediate in methyl transfer process. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12810-1	16.4	115
10	Dimerization of terminal alkynes catalyzed by a nickel complex having a bulky phosphine ligand. <i>Chemical Communications</i> , 2004 , 2732-3	5.8	98
9	Direct observation of oxidative cyclization of eta2-alkene and eta2-aldehyde on Ni(0) center. Significant acceleration by addition of Me3SiOTf. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11802-3	16.4	121
8	Synthesis, structure, and reactivity of a eta(3)-1-hydroxyallyl complex: protonation of an alpha,beta-unsaturated carbonyl compound bound to palladium(0) and platinum(0). <i>Journal of the American Chemical Society</i> , 2003 , 125, 9020-1	16.4	19
7	Palladium/Me(3)SiOTf-catalyzed bis-silylation of alpha,beta-unsaturated carbonyl compounds without involving oxidative addition of disilane. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11598-9	16.4	58
6	Novel role of carbon monoxide as a Lewis acid catalyst for Friedel-Crafts reaction. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8626-7	16.4	17
5	Carbon-carbon bond formation by electrophilic addition at the central carbon of the mu-eta(3)-allenyl/propargyl ligand on the Pd-Pd bond. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3223-8	16.4	23

4	Coordination of Lewis acid to η^2 -enonepalladium(0) leading to continuous structure variation from η^2 -olefin type to η^3 -allyl type. <i>Journal of the American Chemical Society</i> , 2001 , 123, 1944-50	16.4	38
3	Synthesis, Structure, and Reactivity of Neutral β -Propargylpalladium Complexes. <i>Journal of the American Chemical Society</i> , 1998 , 120, 1938-1939	16.4	94
2	Novel syn oxidative addition of allylic halides to olefin complexes of palladium(0) and platinum(0). <i>Journal of the American Chemical Society</i> , 1992 , 114, 8417-8424	16.4	82
1	Other Reactions of Allylpalladium and Related Derivatives: Cycloaddition Reactions of Allylpalladium and Related Derivatives 1995-2009		