

# Ichiro Minami

## List of Publications by Year in descending order

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110  
papers

4,871  
citations

126907

33  
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98798

67  
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135  
all docs

135  
docs citations

135  
times ranked

2503  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and synthetic applications of (4-hydroxyphenyl)perfluoroalkylmethanols. Tetrahedron, 2022, 104, 132574.	1.9	0
2	Ionic Liquids as Performance Ingredients in Space Lubricants. Molecules, 2021, 26, 1013.	3.8	10
3	Tribology in Space Robotic Actuators: Experimental Method for Evaluation and Analysis of Gearboxes. Aerospace, 2021, 8, 75.	2.2	5
4	Performance and mechanisms of silicate tribofilm in heavily loaded rolling/sliding non-conformal contacts. Tribology International, 2018, 123, 130-141.	5.9	13
5	Diallyl disulphide as natural organosulphur friction modifier via the in-situ tribo-chemical formation of tungsten disulphide. Applied Surface Science, 2018, 428, 659-668.	6.1	11
6	Molecular design of advanced lubricant base fluids: hydrocarbon-mimicking ionic liquids. RSC Advances, 2017, 7, 6364-6373.	3.6	22
7	Methionine as a Friction Modifier for Tungsten Carbide-Functionalized Surfaces via in Situ Tribo-Chemical Reactions. ACS Sustainable Chemistry and Engineering, 2017, 5, 7030-7039.	6.7	6
8	Tribochemistry and thermo-oxidative stability of halogen-free ionic liquids. RSC Advances, 2017, 7, 48766-48776.	3.6	12
9	Formation of Boundary Film from Ionic Liquids Enhanced by Additives. Applied Sciences (Switzerland), 2017, 7, 433.	2.5	8
10	Molecular Science of Lubricant Additives. Applied Sciences (Switzerland), 2017, 7, 445.	2.5	98
11	Monitoring of Running-in of an EHL Contact Using Contact Impedance. Tribology Letters, 2016, 63, 1.	2.6	14
12	Study of the effect of tribo-materials and surface finish on the lubricant performance of new halogen-free room temperature ionic liquids. Applied Surface Science, 2016, 366, 464-474.	6.1	29
13	Surface chemistry of wet clutch influenced by water contamination in automatic transmission fluids. Tribology International, 2016, 96, 395-401.	5.9	8
14	Degradation mechanism of automatic transmission fluid by water as a contaminant. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2015, 229, 74-85.	1.8	9
15	Influence of water on the tribological properties of zinc dialkyl-dithiophosphate and over-based calcium sulphonate additives in wet clutch contacts. Tribology International, 2015, 87, 113-120.	5.9	10
16	Reducing Friction and Wear of Tribological Systems through Hybrid Tribofilm Consisting of Coating and Lubricants. Lubricants, 2014, 2, 90-112.	2.9	35
17	Tribological investigations of ionic liquids in ultra-high vacuum environment. Lubrication Science, 2014, 26, 514-524.	2.1	22
18	Coating-lubricant combination for improving tribo-system performance. Lubrication Science, 2014, 26, 375-386.	2.1	5

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19	Boundary and elastohydrodynamic lubrication studies of glycerol aqueous solutions as green lubricants. Tribology International, 2014, 69, 39-45.	5.9	83
20	Lubrication Mechanism of Phosphonium Phosphate Ionic Liquid Additive in Alkylborane-Imidazole Complexes. Tribology Letters, 2014, 53, 421-432.	2.6	48
21	Insight into degradation of ammonium-based ionic liquids and comparison of tribological performance between selected intact and altered ionic liquid. Tribology International, 2013, 65, 13-27.	5.9	23
22	Halogen-free borate ionic liquids as novel lubricants for tribological applications. Tribology International, 2013, 67, 191-198.	5.9	69
23	Ionic Liquid Lubricants. , 2013, , 1866-1866.		0
24	Surface Chemistry of Aluminium Alloy Slid against Steel Lubricated by Organic Friction Modifier in Hydrocarbon Oil. Advances in Tribology, 2012, 2012, 1-7.	2.1	4
25	Semi-deterministic chemo-mechanical model of boundary lubrication. Faraday Discussions, 2012, 156, 343.	3.2	30
26	Tribological properties of halogen-free ionic liquids. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2012, 226, 891-902.	1.8	32
27	Tribo-Chemistry of Phosphonium-Derived Ionic Liquids. Tribology Letters, 2010, 40, 225-235.	2.6	120
28	Molecular Design of Environmentally Adapted Lubricants: Antiwear Additives Derived from Natural Amino Acids. Tribology Transactions, 2010, 53, 713-721.	2.0	26
29	Ionic Liquids in Tribology. Molecules, 2009, 14, 2286-2305.	3.8	594
30	Design of Alkyl Sulfate Ionic Liquids for Lubricants. Chemistry Letters, 2009, 38, 64-65.	1.3	39
31	Proposal of Lubricant Maintenance by Monitoring Peroxide Value. Journal of the Japan Petroleum Institute, 2009, 52, 351-356.	0.6	1
32	Tribochemical investigation of DLC coating in water using stable isotopic tracers. Applied Surface Science, 2008, 254, 3397-3402.	6.1	34
33	The Tribological Properties of Ionic Liquids Composed of Trifluorotris(pentafluoroethyl) Phosphate as a Hydrophobic Anion. Tribology Letters, 2008, 30, 215-223.	2.6	126
34	Improvement in the tribological properties of imidazolium-derived ionic liquids by additive technology. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 2008, 25, 45-55.	0.7	21
35	Boundary film formation from overbased calcium sulfonate additives during running-in process of steel-DLC contact. Wear, 2008, 265, 461-467.	3.1	20
36	Investigation of tribo-chemistry by means of stable isotopic tracers: Mechanism for durability of monomolecular boundary film. Tribology International, 2008, 41, 1056-1062.	5.9	10

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37	Tribochemical reaction of Si-DLC coating in water studied by stable isotopic tracer. Diamond and Related Materials, 2008, 17, 147-153.	3.9	24
38	Effects of fine-dispersed PTFE on load carrying capacity of PEEK. Lubrication Science, 2008, 20, 299-310.	2.1	9
39	Aspartic Acid-derived Wear-preventing and Friction-reducing Agents for Ionic Liquids. Chemistry Letters, 2008, 37, 300-301.	1.3	30
40	Additives for Environmentally Adapted Lubricants - Friction and Wear Protection. Tribology Online, 2008, 3, 163-167.	0.9	12
41	Additives for Environmentally Adapted Lubricants - Tribo Film Formation. Tribology Online, 2008, 3, 168-172.	0.9	4
42	Surface Chemistry for Improvement in Load-Carrying Capacity of Poly(Ether-Ether-Ketone)-Based Materials by Poly(Tetrafluoroethylene). Tribology Online, 2008, 3, 190-194.	0.9	6
43	ã,ã,³ãf³æ¶²ä½“ã®ãf^ãf ©ã,ãfœãfã,ãf¼ç%¹æ€Šã“æ»ãŠã%ã«ã,^ã,æ”¹ã—,,. Journal of the Vacuum Society of Japan, 2008, 151, 476-481.	0.0	0
44	Concept of molecular design towards additive technology for advanced lubricants. Lubrication Science, 2007, 19, 127-149.	2.1	35
45	Investigation of wear mechanism by organic sulphides in vegetable oils. Lubrication Science, 2007, 19, 113-126.	2.1	3
46	Tribochemical investigation of DLC coating tested against steel in water using a stable isotopic tracer. Diamond and Related Materials, 2007, 16, 1760-1764.	3.9	17
47	Investigation of Tribo-Chemistry by Means of Stable Isotopic Tracers, Part 2: Lubrication Mechanism of Friction Modifiers on Diamond-Like Carbon. Tribology Transactions, 2007, 50, 477-487.	2.0	31
48	Chemical Activation of Gold Surface by Mechanical Contacts. Hyomen Kagaku, 2007, 28, 513-517.	0.0	0
49	Thermo-oxidative stability of ionic liquids as lubricating fluids. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 2007, 24, 135-147.	0.7	63
50	Effect and mechanism of additives for ionic liquids as new lubricants. Tribology International, 2007, 40, 620-625.	5.9	200
51	Investigation of anti-wear additives for low viscous synthetic esters: Hydroxyalkyl phosphonates. Tribology International, 2007, 40, 626-631.	5.9	27
52	Effect of self-assembled monolayers modified slider on head-disk tribology under volatile organic contamination. Tribology Letters, 2007, 27, 137-143.	2.6	5
53	Investigation of decomposition of hydrocarbon oil on the nascent surface of steel. Tribology Letters, 2007, 27, 25-30.	2.6	49
54	Study on Decomposition of Multialkylated Cyclopentane Oil with Sulfur-Containing Additive on the Nascent Steel Surface. Tribology Online, 2007, 2, 105-109.	0.9	7

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55	A Cylinder and Assembled Four-Block Type Tribo-Test: Novel Method to Study Tribo-Chemistry of Lubricant and Material. Tribology Online, 2007, 2, 40-43.	0.9	2
56	Investigation of Tribochemical Reactions by Organic Sulfides on Nascent Metal Surfaces. Tribology Online, 2007, 2, 89-92.	0.9	7
57	Tribology of Ionic Liquids. Hyomen Kagaku, 2007, 28, 311-317.	0.0	5
58	Effects of Carboxylic Acids on Friction and Wear Reducing Properties for Alkylmethylimidazolium Derived Ionic liquids. Tribology Online, 2006, 1, 40-43.	0.9	34
59	TOF-SIMS analysis of boundary films derived from calcium sulfonates. Tribology Letters, 2006, 23, 171-176.	2.6	25
60	Effect of volatile organic contamination on head-disk interface tribology and a method for its reduction. Tribology Letters, 2006, 23, 145-154.	2.6	2
61	Additive Effect for Environmental Lubricantsâ€”Decreased Phosphorus Contents in Low Viscosity Base Oils for Antiwear Performanceâ€”. Journal of the Japan Petroleum Institute, 2006, 49, 268-273.	0.6	6
62	Antiwear Additives for Ester Oils. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 2005, 22, 105-121.	0.7	14
63	Scoring-Load Capacities of Vegetable Oils. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2005, 71, 2657-2664.	0.2	2
64	Tribological Performance and Transfer Behavior of Lubricating Oils at Head-Disk Interface under Volatile Organic Contamination. Tribology Letters, 2005, 19, 299-309.	2.6	11
65	Investigation of Tribo-chemistry by means of Stable Isotopic Tracers: TOF-SIMS Analysis of Langmuirâ€”Blodgett Films and Examination of their Tribological Properties. Tribology Letters, 2005, 20, 287-297.	2.6	17
66	Tribochemical approach toward mechanism for synergism of lubricant additives on antiwear and friction reducing properties. Tribology and Interface Engineering Series, 2005, 48, 259-268.	0.0	7
67	Tribological Behaviors of 52100 Steel in Carbon Dioxide Atmosphere. Tribology Letters, 2004, 17, 925-930.	2.6	29
68	Synergistic effect of antiwear additives and antioxidants in vegetable oil. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 2004, 21, 193-205.	0.7	14
69	Effect of Anti-Wear Additives on Seizure Resistance of Vegetable Oils in Four-Ball Test. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2004, 70, 554-559.	0.2	0
70	Antiwear Properties of Phosphorous-Containing Compounds in Vegetable Oils. Tribology Letters, 2002, 13, 95-101.	2.6	20
71	Effect of alkenes on the antiwear mechanism of dialkyl hydrogen phosphites. Lubrication Science, 2001, 13, 219-230.	2.1	5
72	Lubrication performance of model organic compounds in high oleic sunflower oil. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 1999, 16, 1-12.	0.7	19

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73	Anti-wear and friction reducing additives composed of ortho-phenylene phosphate-amine salts for polyether type base stocks. Tribology International, 1998, 31, 305-312.	5.9	19
74	Lubricities of Super Fine SiO <sub>2</sub> Particle as a Solid Lubricant. Journal of the Ceramic Society of Japan, 1997, 105, 867-870.	1.3	5
75	Influence of aldehydes in make-up oils on antioxidation properties. Lubrication Science, 1995, 7, 319-331.	2.1	4
76	Development of novel lubricity additives: hydroxyalkyl ester of ortho-phenylene phosphate. Tribology Letters, 1995, 1, 139.	2.6	10
77	Antioxidation Properties of Zinc Dialkyldithiophosphate in the Presence of Organic Oxides.. Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute), 1995, 38, 19-24.	0.1	0
78	New synthetic reactions of allyl alkyl carbonates, allyl .beta.-keto carboxylates, and allyl vinylic carbonates catalyzed by palladium complexes. Accounts of Chemical Research, 1987, 20, 140-145.	15.6	371
79	Dehydrogenation of alcohols with allyl carbonates catalyzed by palladium or ruthenium complexes. Tetrahedron, 1987, 43, 3903-3915.	1.9	46
80	Preparation of unstable 3-alkylidene furans by the palladium-catalyzed reaction of $\hat{1}\pm$ -alkynyl epoxides with $\hat{1}^2$ -keto esters. Tetrahedron Letters, 1987, 28, 629-632.	1.4	37
81	Preparation of thermodynamically stable enol silyl ethers of $\hat{1}^3,\hat{1}^2$ -unsaturated ketones by palladium-catalyzed decarboxylation-allylation of allyl 2,3-disubstituted 3-trimethylsiloxyacrylates. Tetrahedron Letters, 1987, 28, 2397-2398.	1.4	24
82	1-Isopropylallyloxycarbonyl (IPAoc) as a protective group of amines and its deprotection catalysed by palladium-phosphine complex. Tetrahedron Letters, 1987, 28, 2737-2740.	1.4	23
83	A new furan annelation reaction by the palladium-catalyzed reaction of 2-alkynyl carbonates or 2-(1-alkynyl)oxiranes with $\hat{1}^2$ -keto esters. Journal of Organometallic Chemistry, 1987, 334, 225-242.	1.8	123
84	Palladium-catalysed preparation of 1,2-dienes by selective hydrogenolysis of alk-2-ynyl carbonates with ammonium formate. Journal of the Chemical Society Chemical Communications, 1986, , 922.	2.0	51
85	A new preparative method for $\hat{1}\pm,\hat{1}^2$ -unsaturated nitriles by the palladium-catalysed decarboxylation-dehydrogenation of allyl $\hat{1}\pm$ -cyanocarboxylates. Journal of the Chemical Society Chemical Communications, 1986, , 118-119.	2.0	22
86	New synthetic methods for $\hat{1}\pm,\hat{1}^2$ -unsaturated ketones, aldehydes, esters and lactones by the palladium-catalyzed reactions of silyl enol ethers, ketene silyl acetals, and enol acetates with allyl carbonates. Tetrahedron, 1986, 42, 2971-2977.	1.9	113
87	Palladium-catalyzed carbonylation of propargylic carbonates: Preparation of 2,3- and 2,4-dienyl carboxylates. Tetrahedron Letters, 1986, 27, 731-734.	1.4	93
88	Oxidation of alcohols with allyl methyl carbonate by means of ruthenium catalyst. Tetrahedron Letters, 1986, 27, 1805-1808.	1.4	22
89	Preparation of $\hat{1}\pm$ -methylene ketones by the palladium-catalyzed decarboxylation-deacetoxylation of allyl $\hat{1}\pm$ -acetoxymethyl- $\hat{1}^2$ -keto carboxylates under mild conditions. Tetrahedron Letters, 1986, 27, 2483-2486.	1.4	38
90	Palladium-catalyzed reaction of allyl carbamates; allylation of carbonucleophiles, and protection-deprotection of amines. Tetrahedron Letters, 1985, 26, 2449-2452.	1.4	79

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91	Reactions of allylic carbonates catalyzed by palladium, rhodium, ruthenium, molybdenum, and nickel complexes; allylation of carbonucleophiles and decarboxylation- dehydrogenation. Journal of Organometallic Chemistry, 1985, 296, 269-280.	1.8	119
92	Novel palladium-catalyzed reactions of propargyl carbonates with carbonucleophiles under neutral conditions. Journal of the American Chemical Society, 1985, 107, 2196-2198.	13.7	166
93	Allylic carbonates. Efficient allylating agents of carbonucleophiles in palladium-catalyzed reactions under neutral conditions. Journal of Organic Chemistry, 1985, 50, 1523-1529.	3.2	234
94	Palladium-catalyzed oxidation of alcohols via their allyl carbonates under neutral conditions. Tetrahedron Letters, 1984, 25, 2791-2792.	1.4	25
95	Palladium-catalyzed preparation of $\hat{1}\pm$ -allyl esters and $\hat{1}\pm, \hat{1}^2$ -unsaturated esters from saturated esters via their silyl acetals. Tetrahedron Letters, 1984, 25, 4783-4786.	1.4	47
96	Allylation of carbonucleophiles with allylic carbonates under neutral conditions catalyzed by rhodium complexes. Tetrahedron Letters, 1984, 25, 5157-5160.	1.4	84
97	REGIOSELECTIVE SYNTHESIS OF 1-OLEFINS BY PALLADIUM-CATALYZED HYDROGENOLYSIS OF TERMINAL ALLYLIC COMPOUNDS WITH AMMONIUM FORMATE. Chemistry Letters, 1984, 13, 1017-1020.	1.3	93
98	ENONE FORMATION FROM ALLYL $\hat{1}^2$ -KETO ESTERS, ALKENYL ALLYL CARBONATES, SILYL ENOL ETHERS, AND ENOL ACETATES BY THE PHOSPHINE-FREE PALLADIUM CATALYST. Chemistry Letters, 1984, 13, 1133-1136.	1.3	41
99	SYNTHESIS OF $\hat{1}^3, \hat{1}^1$ -UNSATURATED KETONES BY THE INTRAMOLECULAR DECARBOXYLATIVE ALLYLATION OF ALLYL $\hat{1}^2$ -KETO CARBOXYLATES AND ALKENYL ALLYL CARBONATES CATALYZED BY MOLYBDENUM, NICKEL, AND RHODIUM COMPLEXES. Chemistry Letters, 1984, 13, 1721-1724.	1.3	31
100	A novel palladium-catalyzed preparative method of $\hat{1}\pm, \hat{1}^2$ -unsaturated ketones and aldehydes from saturated ketones and aldehydes via their silyl enol ethers. Tetrahedron Letters, 1983, 24, 5635-5638.	1.4	61
101	Palladium-catalyzed allylation of ketones and aldehydes via allyl enol carbonates. Tetrahedron Letters, 1983, 24, 1793-1796.	1.4	137
102	Palladium-catalyzed synthesis of $\hat{1}\pm, \hat{1}^2$ -unsaturated ketones from ketones via allyl enol carbonates. Tetrahedron Letters, 1983, 24, 1797-1800.	1.4	59
103	Allylation of ketones via their enol acetates catalyzed by palladium-phosphine complexes and organotin compounds. Tetrahedron Letters, 1983, 24, 4713-4714.	1.4	56
104	One-step synthesis of $\hat{1}\pm, \hat{1}^2$ -unsaturated ketones by the reaction of enol acetates with allyl methyl carbonate catalyzed by palladium and tin compounds. Tetrahedron Letters, 1983, 24, 5639-5640.	1.4	40
105	PALLADIUM-CATALYZED ALLYLATION OF KETONES AND ALDEHYDES WITH ALLYLIC CARBONATES VIA SILYL ENOL ETHERS UNDER NEUTRAL CONDITIONS. Chemistry Letters, 1983, 12, 1325-1326.	1.3	104
106	Facile Palladium catalyzed decarboxylative allylation of active methylene compounds under neutral conditions using allylic carbonates. Tetrahedron Letters, 1982, 23, 4809-4812.	1.4	131
107	Title is missing!. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1981, 1981, 776-784.	0.1	1
108	Synthesis of dehydroxy-trans-resorcylic acid by intramolecular alkylation of the protected cyanohydrin using a butadiene telomer as a building block. Tetrahedron Letters, 1981, 22, 2651-2654.	1.4	22

#	ARTICLE	IF	CITATIONS
109	Tribo-chemistry of Boundary Film Studied by Stable Isotopic Tracers. SAE International Journal of Fuels and Lubricants, 0, 1, 1524-1533.	0.2	0
110	A Novel Tool for Mechanistic Investigation of Boundary Lubrication: Stable Isotopic Tracers. , 0, , .		1