

Ichiro Minami

List of Publications by Year in descending order

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times ranked

2782
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and synthetic applications of (4-hydroxyphenyl)perfluoroalkylmethanols. <i>Tetrahedron</i> , 2022, 104, 132574.	1.0	0
2	Ionic Liquids as Performance Ingredients in Space Lubricants. <i>Molecules</i> , 2021, 26, 1013.	1.7	10
3	Tribology in Space Robotic Actuators: Experimental Method for Evaluation and Analysis of Gearboxes. <i>Aerospace</i> , 2021, 8, 75.	1.1	5
4	Performance and mechanisms of silicate tribofilm in heavily loaded rolling/sliding non-conformal contacts. <i>Tribology International</i> , 2018, 123, 130-141.	3.0	13
5	Diallyl disulphide as natural organosulphur friction modifier via the in-situ tribo-chemical formation of tungsten disulphide. <i>Applied Surface Science</i> , 2018, 428, 659-668.	3.1	11
6	Molecular design of advanced lubricant base fluids: hydrocarbon-mimicking ionic liquids. <i>RSC Advances</i> , 2017, 7, 6364-6373.	1.7	22
7	Methionine as a Friction Modifier for Tungsten Carbide-Functionalized Surfaces via in Situ Tribo-Chemical Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7030-7039.	3.2	6
8	Tribochemistry and thermo-oxidative stability of halogen-free ionic liquids. <i>RSC Advances</i> , 2017, 7, 48766-48776.	1.7	12
9	Formation of Boundary Film from Ionic Liquids Enhanced by Additives. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 433.	1.3	8
10	Molecular Science of Lubricant Additives. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 445.	1.3	98
11	Monitoring of Running-in of an EHL Contact Using Contact Impedance. <i>Tribology Letters</i> , 2016, 63, 1.	1.2	14
12	Study of the effect of tribo-materials and surface finish on the lubricant performance of new halogen-free room temperature ionic liquids. <i>Applied Surface Science</i> , 2016, 366, 464-474.	3.1	29
13	Surface chemistry of wet clutch influenced by water contamination in automatic transmission fluids. <i>Tribology International</i> , 2016, 96, 395-401.	3.0	8
14	Degradation mechanism of automatic transmission fluid by water as a contaminant. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2015, 229, 74-85.	1.0	9
15	Influence of water on the tribological properties of zinc dialkyl-dithiophosphate and over-based calcium sulphonate additives in wet clutch contacts. <i>Tribology International</i> , 2015, 87, 113-120.	3.0	10
16	Reducing Friction and Wear of Tribological Systems through Hybrid Tribofilm Consisting of Coating and Lubricants. <i>Lubricants</i> , 2014, 2, 90-112.	1.2	35
17	Tribological investigations of ionic liquids in ultra-high vacuum environment. <i>Lubrication Science</i> , 2014, 26, 514-524.	0.9	22
18	Coating-lubricant combination for improving tribo-system performance. <i>Lubrication Science</i> , 2014, 26, 375-386.	0.9	5

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19	Boundary and elastohydrodynamic lubrication studies of glycerol aqueous solutions as green lubricants. <i>Tribology International</i> , 2014, 69, 39-45.	3.0	83
20	Lubrication Mechanism of Phosphonium Phosphate Ionic Liquid Additive in Alkylborane-Imidazole Complexes. <i>Tribology Letters</i> , 2014, 53, 421-432.	1.2	48
21	Insight into degradation of ammonium-based ionic liquids and comparison of tribological performance between selected intact and altered ionic liquid. <i>Tribology International</i> , 2013, 65, 13-27.	3.0	23
22	Halogen-free borate ionic liquids as novel lubricants for tribological applications. <i>Tribology International</i> , 2013, 67, 191-198.	3.0	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. <i>Advances in Tribology</i> , 2012, 2012, 1-7.	2.1	4
25	Semi-deterministic chemo-mechanical model of boundary lubrication. <i>Faraday Discussions</i> , 2012, 156, 343.	1.6	30
26	Tribological properties of halogen-free ionic liquids. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2012, 226, 891-902.	1.0	32
27	Tribo-Chemistry of Phosphonium-Derived Ionic Liquids. <i>Tribology Letters</i> , 2010, 40, 225-235.	1.2	120
28	Molecular Design of Environmentally Adapted Lubricants: Antiwear Additives Derived from Natural Amino Acids. <i>Tribology Transactions</i> , 2010, 53, 713-721.	1.1	26
29	Ionic Liquids in Tribology. <i>Molecules</i> , 2009, 14, 2286-2305.	1.7	594
30	Design of Alkyl Sulfate Ionic Liquids for Lubricants. <i>Chemistry Letters</i> , 2009, 38, 64-65.	0.7	39
31	Proposal of Lubricant Maintenance by Monitoring Peroxide Value. <i>Journal of the Japan Petroleum Institute</i> , 2009, 52, 351-356.	0.4	1
32	Tribochemical investigation of DLC coating in water using stable isotopic tracers. <i>Applied Surface Science</i> , 2008, 254, 3397-3402.	3.1	34
33	The Tribological Properties of Ionic Liquids Composed of Trifluorotris(pentafluoroethyl) Phosphate as a Hydrophobic Anion. <i>Tribology Letters</i> , 2008, 30, 215-223.	1.2	126
34	Improvement in the tribological properties of imidazolium-derived ionic liquids by additive technology. <i>Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids</i> , 2008, 25, 45-55.	0.7	21
35	Boundary film formation from overbased calcium sulfonate additives during running-in process of steel-DLC contact. <i>Wear</i> , 2008, 265, 461-467.	1.5	20
36	Investigation of tribo-chemistry by means of stable isotopic tracers: Mechanism for durability of monomolecular boundary film. <i>Tribology International</i> , 2008, 41, 1056-1062.	3.0	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.	1.8	24
38	Effects of fine-dispersed PTFE on load carrying capacity of PEEK. Lubrication Science, 2008, 20, 299-310.	0.9	9
39	Aspartic Acid-derived Wear-preventing and Friction-reducing Agents for Ionic Liquids. Chemistry Letters, 2008, 37, 300-301.	0.7	30
40	Additives for Environmentally Adapted Lubricants - Friction and Wear Protection. Tribology Online, 2008, 3, 163-167.	0.2	12
41	Additives for Environmentally Adapted Lubricants - Tribo Film Formation. Tribology Online, 2008, 3, 168-172.	0.2	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.	0.2	6
43	Journal of the Vacuum Society of Japan, 2008, 51, 476-481.		
44	Concept of molecular design towards additive technology for advanced lubricants. Lubrication Science, 2007, 19, 127-149.	0.9	35
45	Investigation of wear mechanism by organic sulphides in vegetable oils. Lubrication Science, 2007, 19, 113-126.	0.9	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.	1.8	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.	1.1	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.	3.0	200
51	Investigation of anti-wear additives for low viscous synthetic esters: Hydroxyalkyl phosphonates. Tribology International, 2007, 40, 626-631.	3.0	27
52	Effect of self-assembled monolayers modified slider on head-disk tribology under volatile organic contamination. Tribology Letters, 2007, 27, 137-143.	1.2	5
53	Investigation of decomposition of hydrocarbon oil on the nascent surface of steel. Tribology Letters, 2007, 27, 25-30.	1.2	49
54	Study on Decomposition of Multialkylated Cyclopentane Oil with Sulfur-Containing Additive on the Nascent Steel Surface. Tribology Online, 2007, 2, 105-109.	0.2	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. <i>Tribology Online</i> , 2007, 2, 40-43.	0.2	2
56	Investigation of Tribochemical Reactions by Organic Sulfides on Nascent Metal Surfaces. <i>Tribology Online</i> , 2007, 2, 89-92.	0.2	7
57	Tribology of Ionic Liquids. <i>Hyomen Kagaku</i> , 2007, 28, 311-317.	0.0	5
58	Effects of Carboxylic Acids on Friction and Wear Reducing Properties for Alkylmethylimidazolium Derived Ionic liquids. <i>Tribology Online</i> , 2006, 1, 40-43.	0.2	34
59	TOF-SIMS analysis of boundary films derived from calcium sulfonates. <i>Tribology Letters</i> , 2006, 23, 171-176.	1.2	25
60	Effect of volatile organic contamination on head-disk interface tribology and a method for its reduction. <i>Tribology Letters</i> , 2006, 23, 145-154.	1.2	2
61	Additive Effect for Environmental Lubricants"Decreased Phosphorus Contents in Low Viscosity Base Oils for Antiwear Performance". <i>Journal of the Japan Petroleum Institute</i> , 2006, 49, 268-273.	0.4	6
62	Antiwear Additives for Ester Oils. <i>Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids</i> , 2005, 22, 105-121.	0.7	14
63	Scoring-Load Capacities of Vegetable Oils. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2005, 71, 2657-2664.	0.2	2
64	Tribological Performance and Transfer Behavior of Lubricating Oils at Head-Disk Interface under Volatile Organic Contamination. <i>Tribology Letters</i> , 2005, 19, 299-309.	1.2	11
65	Investigation of Tribo-chemistry by means of Stable Isotopic Tracers: TOF-SIMS Analysis of Langmuir"Blodgett Films and Examination of their Tribological Properties. <i>Tribology Letters</i> , 2005, 20, 287-297.	1.2	17
66	Tribochemical approach toward mechanism for synergism of lubricant additives on antiwear and friction reducing properties. <i>Tribology and Interface Engineering Series</i> , 2005, 48, 259-268.	0.0	7
67	Tribological Behaviors of 52100 Steel in Carbon Dioxide Atmosphere. <i>Tribology Letters</i> , 2004, 17, 925-930.	1.2	29
68	Synergistic effect of antiwear additives and antioxidants in vegetable oil. <i>Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids</i> , 2004, 21, 193-205.	0.7	14
69	Effect of Anti-Wear Additives on Seizure Resistance of Vegetable Oils in Four-Ball Test. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , 2004, 70, 554-559.	0.2	0
70	Antiwear Properties of Phosphorous-Containing Compounds in Vegetable Oils. <i>Tribology Letters</i> , 2002, 13, 95-101.	1.2	20
71	Effect of alkenes on the antiwear mechanism of dialkyl hydrogen phosphites. <i>Lubrication Science</i> , 2001, 13, 219-230.	0.9	5
72	Lubrication performance of model organic compounds in high oleic sunflower oil. <i>Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids</i> , 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. <i>Tribology International</i> , 1998, 31, 305-312.	3.0	19
74	Lubricities of Super Fine SiO ₂ Particle as a Solid Lubricant. <i>Journal of the Ceramic Society of Japan</i> , 1997, 105, 867-870.	1.3	5
75	Influence of aldehydes in make-up oils on antioxidation properties. <i>Lubrication Science</i> , 1995, 7, 319-331.	0.9	4
76	Development of novel lubricity additives: hydroxyalkyl ester of ortho-phenylene phosphate. <i>Tribology Letters</i> , 1995, 1, 139.	1.2	10
77	Antioxidation Properties of Zinc Dialkyldithiophosphate in the Presence of Organic Oxides.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , 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. <i>Accounts of Chemical Research</i> , 1987, 20, 140-145.	7.6	371
79	Dehydrogenation of alcohols with allyl carbonates catalyzed by palladium or ruthenium complexes. <i>Tetrahedron</i> , 1987, 43, 3903-3915.	1.0	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. <i>Tetrahedron Letters</i> , 1987, 28, 629-632.	0.7	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. <i>Tetrahedron Letters</i> , 1987, 28, 2397-2398.	0.7	24
82	1-Isopropylallyloxycarbonyl (IPAoc) as a protective group of amines and its deprotection catalysed by palladium-phosphine complex. <i>Tetrahedron Letters</i> , 1987, 28, 2737-2740.	0.7	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. <i>Journal of Organometallic Chemistry</i> , 1987, 334, 225-242.	0.8	123
84	Palladium-catalysed preparation of 1,2-dienes by selective hydrogenolysis of alk-2-ynyl carbonates with ammonium formate. <i>Journal of the Chemical Society Chemical Communications</i> , 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. <i>Journal of the Chemical Society Chemical Communications</i> , 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. <i>Tetrahedron</i> , 1986, 42, 2971-2977.	1.0	113
87	Palladium-catalyzed carbonylation of propargylic carbonates: Preparation of 2,3- and 2,4-dienyl carboxylates. <i>Tetrahedron Letters</i> , 1986, 27, 731-734.	0.7	93
88	Oxidation of alcohols with allyl methyl carbonate by means of ruthenium catalyst. <i>Tetrahedron Letters</i> , 1986, 27, 1805-1808.	0.7	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. <i>Tetrahedron Letters</i> , 1986, 27, 2483-2486.	0.7	38
90	Palladium-catalyzed reaction of allyl carbamates; allylation of carbonucleophiles, and protection-deprotection of amines. <i>Tetrahedron Letters</i> , 1985, 26, 2449-2452.	0.7	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.	0.8	119
92	Novel palladium-catalyzed reactions of propargyl carbonates with carbonucleophiles under neutral conditions. Journal of the American Chemical Society, 1985, 107, 2196-2198.	6.6	166
93	Allylic carbonates. Efficient allylating agents of carbonucleophiles in palladium-catalyzed reactions under neutral conditions. Journal of Organic Chemistry, 1985, 50, 1523-1529.	1.7	234
94	Palladium-catalyzed oxidation of alcohols via their allyl carbonates under neutral conditions. Tetrahedron Letters, 1984, 25, 2791-2792.	0.7	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.	0.7	47
96	Allylation of carbonucleophiles with allylic carbonates under neutral conditions catalyzed by rhodium complexes. Tetrahedron Letters, 1984, 25, 5157-5160.	0.7	84
97	REGIOSELECTIVE SYNTHESIS OF 1-OLEFINS BY PALLADIUM-CATALYZED HYDROGENOLYSIS OF TERMINAL ALLYLIC COMPOUNDS WITH AMMONIUM FORMATE. Chemistry Letters, 1984, 13, 1017-1020.	0.7	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.	0.7	41
99	SYNTHESIS OF $\hat{1}^3, \hat{1}^2$ -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.	0.7	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.	0.7	61
101	Palladium-catalyzed allylation of ketones and aldehydes via allyl enol carbonates. Tetrahedron Letters, 1983, 24, 1793-1796.	0.7	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.	0.7	59
103	Allylation of ketones via their enol acetates catalyzed by palladium-phosphine complexes and organotin compounds. Tetrahedron Letters, 1983, 24, 4713-4714.	0.7	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.	0.7	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.	0.7	104
106	Facile Palladium catalyzed decarboxylative allylation of active methylene compounds under neutral conditions using allylic carbonates. Tetrahedron Letters, 1982, 23, 4809-4812.	0.7	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.	0.7	22

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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