## Masaichi Saito

## List of Publications by Year in descending order

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159585 189892 2,951 116 30 50 citations h-index g-index papers 128 128 128 1515 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Figuration of bowl-shaped π-conjugated molecules: properties and functions. Materials Chemistry Frontiers, 2018, 2, 635-661.	5.9	195
2	The first stable stannanethione in solution derived from a kinetically stabilized diarylstannylene. Journal of the American Chemical Society, 1993, 115, 2065-2066.	13.7	120
3	Dilithioplumbole: A Lead-Bearing Aromatic Cyclopentadienyl Analog. Science, 2010, 328, 339-342.	12.6	112
4	The anions and dianions of group 14 metalloles. Coordination Chemistry Reviews, 2005, 249, 765-780.	18.8	105
5	Synthesis and Reactions of Dibenzo[a,e]pentalenes. Symmetry, 2010, 2, 950-969.	2.2	96
6	The First Kinetically Stabilized Stannaneselone and Diselenastannirane:  Synthesis by Deselenation of a Tetraselenastannolane and Structures. Journal of the American Chemical Society, 1997, 119, 11124-11125.	13.7	93
7	The Aromaticity of the Stannole Dianion. Angewandte Chemie - International Edition, 2005, 44, 6553-6556.	13.8	90
8	Reduction of Phenyl Silyl Acetylenes with Lithium: Unexpected Formation of a Dilithium Dibenzopentalenide. Angewandte Chemie - International Edition, 2007, 46, 1504-1507.	13.8	85
9	Triphosphasumanene Trisulfide: High Out-of-Plane Anisotropy and Janus-Type π-Surfaces. Journal of the American Chemical Society, 2017, 139, 5787-5792.	13.7	75
10	New Reactions of a Dibenzo[ <i>a</i> , <i>e</i> ]pentalene. Chemistry - A European Journal, 2008, 14, 6062-6068.	3.3	67
11	Synthesis and structures of heterasumanenes having different heteroatom functionalities. Tetrahedron Letters, 2010, 51, 672-675.	1.4	66
12	Synthesis, Structures, and Optical Properties of Heterasumanenes Containing Group 14 Elements and Their Related Compounds. European Journal of Organic Chemistry, 2012, 2012, 7135-7142.	2.4	66
13	Formation of the first monoanion and dianion of stannoleElectronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b2/b200238h/. Chemical Communications, 2002, , 1002-1003.	4.1	63
14	Tinâ^'Chalcogen Double-Bond Compounds, Stannanethione and Stannaneselone:Â Synthesis, Structure, and Reactivities. Journal of the American Chemical Society, 2004, 126, 15572-15582.	13.7	62
15	Synthesis, structures and optical properties of trisilasumanene and its related compounds. Organic and Biomolecular Chemistry, 2011, 9, 1731.	2.8	57
16	Challenge to expand the concept of aromaticity to tin- and lead-containing carbocyclic compounds: Synthesis, structures and reactions of dilithiostannoles and dilithioplumbole. Coordination Chemistry Reviews, 2012, 256, 627-636.	18.8	56
17	Enhancement of Stannylene Character in Stannole Dianion Equivalents Evidenced by NMR and M¶ssbauer Spectroscopy and Theoretical Studies of Newly Synthesized Silyl-Substituted Dilithiostannoles. Organometallics, 2014, 33, 2910-2913.	2.3	55
18	Synthesis, Structures, and Electronic Properties of Triple- and Double-Decker Ruthenocenes Incorporated by a Group 14 Metallole Dianion Ligand. Journal of the American Chemical Society, 2014, 136, 13059-13064.	13.7	54

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19	(η4-Butadiene)Sn(0) Complexes: A New Approach for Zero-Valent p-Block Elements Utilizing a Butadiene as a 4π-Electron Donor. Journal of the American Chemical Society, 2016, 138, 11378-11382.	13.7	54
20	Transition-Metal Complexes Featuring Dianionic Heavy Group 14 Element Aromatic Ligands. Accounts of Chemical Research, 2018, 51, 160-169.	15.6	54
21	The Chemistry of Heterasumanenes. Chemical Record, 2016, 16, 64-72.	5.8	52
22	Ferroelectric columnar assemblies from the bowl-to-bowl inversion of aromatic cores. Nature Communications, 2021, 12, 768.	12.8	48
23	Synthesis, Structure, and Reaction of Tetraethyldilithiostannole. Chemistry Letters, 2010, 39, 700-701.	1.3	44
24	Synthesis and Reactions of a Stannanethione Derived from a Kinetically Stabilized Diarylstannylene. Organometallics, 1996, 15, 4531-4536.	2.3	43
25	Reversible Redox Behavior between Stannole Dianion and Bistannole-1,2-Dianion. Journal of the American Chemical Society, 2006, 128, 4934-4935.	13.7	39
26	Synthesis and structures of polychalcogenadistannabicyclo[k.l.m]alkanes. Journal of Organometallic Chemistry, 2007, 692, 2729-2735.	1.8	39
27	Synthesis of Stannole Anion by Alkylation of Stannole Dianion. Chemistry Letters, 2003, 32, 912-913.	1.3	38
28	Double aromaticity arising from $\ddot{l}_f$ - and $\ddot{l}_f$ -rings. Communications Chemistry, 2018, 1, .	4.5	38
29	Diversity of the Structures in a Distannene Complex and its Reduction to Generate a Sixâ€Membered Ti <sub>2</sub> Sn <sub>4</sub> Ring Complex. Angewandte Chemie - International Edition, 2014, 53, 434-438.	13.8	34
30	Synthesis, Structure, and Reactivity of Lewis Base Stabilized Plumbacyclopentadienylidenes. Chemistry - A European Journal, 2013, 19, 16946-16953.	3.3	32
31	Synthesis of Stannaindenyl Anions and a Dianion. Organometallics, 2006, 25, 2967-2971.	2.3	30
32	Synthesis and Structure of Pentaorganostannate Having Five Carbon Substituents. Journal of the American Chemical Society, 2007, 129, 10974-10975.	13.7	30
33	Synthesis and reactions of stanneneselone. Journal of Organometallic Chemistry, 1995, 499, 43-48.	1.8	29
34	Reaction of a Stannylene with Carbon Disulfide: Formation of a Novel Tin-Containing 1,3-Dipole and Its Reactivity. Organometallics, 1995, 14, 3620-3622.	2.3	28
35	Synthesis and Characterization of Dimetallostannafluorenes. Chemistry Letters, 2006, 35, 940-941.	1.3	28
36	A reversible two-electron redox system involving a divalent lead species. Chemical Communications, 2015, 51, 4674-4676.	4.1	28

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37	Synthesis and reactivity of a ruthenocene-type complex bearing an aromatic π-ligand with the heaviest group 14 element. Chemical Science, 2017, 8, 3092-3097.	7.4	27
38	NEW ASPECTS IN THE CHEMISTRY OF LOW-COORDINATE COMPOUNDS OF GROUP 14 ELEMENTS. Main Group Metal Chemistry, 1994, 17, .	1.6	26
39	Synthesis and Reactions of Stannole Anions. European Journal of Inorganic Chemistry, 2007, 2007, 1297-1306.	2.0	26
40	Unexpected Formation of Ru <sub>2</sub> Sn <sub>2</sub> Bicyclic Four-Membered Ring Complexes with Butterfly and Inverse-Sandwich Structures. Inorganic Chemistry, 2013, 52, 3585-3587.	4.0	23
41	Synthesis of a Stannole Dianion Complex Bearing a μ-Î- <sup>1</sup> ;Î- <sup>1</sup> -Coordination Mode: Different Electronic State of Stannole Dianion Ligands Depending on Their Hapticity. Organometallics, 2015, 34, 4202-4204.	2.3	23
42	Synthesis and Structures of Two 9,10-Dihydro-9,10-distannaanthracenes. Organometallics, 2001, 20, 749-753.	2.3	21
43	Molecular Structure and Electronic State of the Dibenzo[ <i>a,e</i> )]pentalene Anion Radical. Chemistry - an Asian Journal, 2012, 7, 480-483.	3.3	21
44	Synthesis and properties of spiro-type heterasumanenes containing group 14 elements as bridging atoms. Materials Chemistry Frontiers, 2018, 2, 929-934.	5.9	21
45	Synthesis and Structures of Lithium Salts of Stannole Anions. Bulletin of the Chemical Society of Japan, 2010, 83, 825-827.	3.2	20
46	Diverse coordination modes in tin analogues of a cyclopentadienyl anion depending on the substituents on the tin atom. Dalton Transactions, 2015, 44, 16266-16271.	3.3	19
47	Stepwise Oxidation of the Stannole Dianion. Chemistry - A European Journal, 2008, 14, 4068-4073.	3.3	18
48	Synthesis, Structures, and Properties of Plumboles. Phosphorus, Sulfur and Silicon and the Related Elements, 2010, 185, 1068-1076.	1.6	17
49	Serendipitous reactions involving a silicone grease. Coordination Chemistry Reviews, 2016, 314, 64-70.	18.8	17
50	Creation of Exotic π-Electron Systems by Introduction of Heavy Elements and Expansion of the Concept of Aromaticity. Bulletin of the Chemical Society of Japan, 2018, 91, 1009-1019.	3.2	17
51	Synthesis and Structures of Bi(1,1-stannole)s. European Journal of Inorganic Chemistry, 2005, 2005, 3750-3755.	2.0	16
52	Anionic Stannaferrocene and Its Unique Electronic State. Chemistry Letters, 2019, 48, 163-165.	1.3	16
53	Synthesis and structure of the dithienostannole anion. Journal of Organometallic Chemistry, 2009, 694, 4056-4061.	1.8	15
54	Inverted Sandwich Rh Complex Bearing a Plumbole Ligand and Its Catalytic Activity. Organometallics, 2019, 38, 3099-3103.	2.3	15

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55	Reinvestigation on the halogenation of $1,1,2,3,4,5$ -hexaphenylstannole. Heteroatom Chemistry, 2001, 12, 349-353.	0.7	14
56	Facile Synthesis of Dibenzopentalene Dianions and Their Application as New Ï€â€Extended Ligands. Chemistry - A European Journal, 2014, 20, 7571-7575.	3.3	14
57	Heterobimetallic triple-decker complexes derived from a dianionic aromatic stannole ligand. Dalton Transactions, 2018, 47, 8892-8896.	3.3	14
58	Synthesis and structures of monomeric group 14 triols and their reactivity. Canadian Journal of Chemistry, 2014, 92, 542-548.	1.1	13
59	A New Method for the Synthesis of Stannylenes: Exhaustive Desulfurization of Tetrathiastannolanes. Chemistry Letters, 1996, 25, 265-266.	1.3	12
60	Synthesis of a Novel Lithocene that has Aromaticâ€Like Nature with Nonaromatic Rings. Chemistry - an Asian Journal, 2011, 6, 2907-2910.	3.3	12
61	Solvent Dependent Photochemical Reactions of 3-(2-Alkylphenyl)-2,2-dimethyl-3-oxopropanoates and Their Related Compounds. Journal of Organic Chemistry, 1998, 63, 9013-9018.	3.2	11
62	Reinvestigation on the synthesis of hexakis(phenylseleno)benzene. Journal of Sulfur Chemistry, 2009, 30, 469-476.	2.0	11
63	Ïf-Aromaticity in Hexa-Group 16 Atom-Substituted Benzene Dications: A Theoretical Study. Journal of Organic Chemistry, 2014, 79, 2640-2646.	3.2	11
64	Soft wet-chemical synthesis of Ru-Sn nanoparticles from single-source ruthenocene-stannole precursors in an ionic liquid. Journal of Organometallic Chemistry, 2016, 821, 192-196.	1.8	11
65	Silyl Migration in the Photochemical Reactions of 2-Trimethylsilylmethylphenyl Ketones. Organic Letters, 2005, 7, 3139-3141.	4.6	10
66	Formation of Pentaorganostannates from Bis(2â€bromoâ€2â€2â€biphenyl)stannanes and <i>tert</i> à€Butyllith upon Substitution of Alkyl and Aryl Groups on Tin Atoms. European Journal of Inorganic Chemistry, 2010, 2010, 2153-2157.	ium 2.0	10
67	Mechanistic Study on Thermal Isomerization of 1-Methylbenzocyclobutenol to 2-Methylacetophenone. Journal of Organic Chemistry, 1999, 64, 7407-7411.	3.2	9
68	The Effect of Solvent Polarity on the Product Distribution in the Reaction of Singlet Oxygen with Enolic Tautomers of 1-(2â€~,4â€~,6â€~-Trialkylphenyl)-2-methyl 1,3-Diketones. Journal of Organic Chemistry, 1999, 64, 9247-9250.	3.2	9
69	SIMPLE METHOD FOR THE SYNTHESIS OF STANNOLE DIANION. Phosphorus, Sulfur and Silicon and the Related Elements, 2004, 179, 703-705.	1.6	9
70	Reduction of dichlorodiphenylstannane. Applied Organometallic Chemistry, 2005, 19, 894-897.	3.5	9
71	Synthesis, Structures and Reactions of Novel 9,10-Dihydro-9,10-distannaanthracenes. European Journal of Inorganic Chemistry, 2004, 2004, 743-748.	2.0	8
72	Quantum hemical analyses of aromaticity, UV spectra, and NMR chemical shifts in plumbacyclopentadienylidenes stabilized by Lewis bases. Journal of Computational Chemistry, 2014, 35, 847-853.	3.3	8

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73	Transition-Metal Capping to Suppress Back-Donation to Enhance Donor Ability. Organometallics, 2020, 39, 4191-4194.	2.3	7
74	Stereoselective Thermal Isomerization of Triphosphasumanenes, Utilized for Stereocontrolled Synthesis. Chemistry Letters, 2020, 49, 419-422.	1.3	7
75	Hybrid Molecular Junctions Using Au–S and Auâ^Ï∈ Bindings. Journal of Physical Chemistry C, 2020, 124, 9261-9268.	3.1	7
76	Novel Reactions of Steric Encumbered 1,4-Dilithio-1,3-butadiene with Group 14 Electrophiles: Formation and Structure of Stable Dihydroxygermole. Heterocycles, 2009, 78, 657.	0.7	7
77	Synthesis, structure and reactions of a trianion equivalent, trilithiostannane. Chemical Communications, 2008, , 6495.	4.1	6
78	Arching a bay area of triphenyleno[1,12-bcd]thiophene with group 14 functionalities: Synthesis of the first triphenylene derivatives having thiophene and metallafluorene moieties. Journal of Organometallic Chemistry, 2010, 695, 1035-1041.	1.8	6
79	1,5-Bis[2,6-bis(2,4,6-triisopropylphenyl)phenyl]-2,3,4,6,7-pentatellura-1,5-distannabicyclo[3.1.1]heptane. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, m885-m886.	0.2	6
80	Synthesis and properties of perfluoroalkylated TIPS-pentacenes. Tetrahedron, 2019, 75, 130678.	1.9	6
81	Activating a [FeFe] Hydrogenase Mimic for Hydrogen Evolution under Visible Light**. Angewandte Chemie - International Edition, 2022, , .	13.8	6
82	Stereospecific Thermal Isomerization of 2,2-Dimethylbenzocyclobutenols to 2-Isopropenylphenyl Alcohols. Journal of Organic Chemistry, 2000, 65, 4909-4912.	3.2	5
83	Formation of the Dianion and the Dimer of 9,10-Distannaanthracene. Chemistry Letters, 2005, 34, 1018-1019.	1.3	5
84	Formation of Dibenzopentalene-linking Polymers under the Two-zone CVD and Wet Conditions. Chemistry Letters, 2017, 46, 1099-1101.	1.3	5
85	Synthesis and reactions of a novel bulky aryllithium. Applied Organometallic Chemistry, 2007, 21, 604-611.	3.5	4
86	3,5-Bis(trimethylsilyl)triphenyleno[1,12-bcd]thiophene. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o2923-o2923.	0.2	4
87	Unexpected Dehalogenation Reactions of Dichloroborane Bearing a NCNâ€Pincer Ligand: Formation of a Borenium Salt. Heteroatom Chemistry, 2014, 25, 354-360.	0.7	4
88	Synthesis and Structures of Sterically Encumbered Group 14 Monolithio Compounds and Unexpected Differences in Their Reactivity. European Journal of Inorganic Chemistry, 2017, 2017, 4969-4975.	2.0	4
89	Anisotropic Crystals Based on a Main-Group Coordination Polymer with Alignment of Rigid π Skeletons. Organometallics, 2017, 36, 2487-2490.	2.3	4
90	<sup>13</sup> C and <sup>207</sup> Pb NMR Chemical Shifts of Dirhodio- and Dilithioplumbole Complexes: A Quantum Chemical Assessment. Inorganic Chemistry, 2019, 58, 14708-14719.	4.0	4

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91	Thermal reaction of diastereomeric benzocyclobutenols. Evidence for reversible opening of 1,2-dihydrobenzocyclobutenols to hydroxy-o-xylylenes. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 1015-1019.	1.3	3
92	1,1′-Di-tert-butyl-2,2′,3,3′,4,4′,5,5′-octaethyl-1,1′-bistannole. Acta Crystallographica Section E: S Reports Online, 2011, 67, m949-m949.	tructure 0.2	3
93	Stable Stannaneselone and Diselenastannirane: Novel Organotin Compounds Derived from an Extremely Hindered Tetraselenastannolane. Phosphorus, Sulfur and Silicon and the Related Elements, 1997, 124, 363-370.	1.6	2
94	Reactions of 1,3,5,2,4,6-trichalcogenatristannins and their derivatives with a nitrile oxide: synthesis, structure, and thermal behavior of oxachalcogenazastannoles. Tetrahedron Letters, 2001, 42, 7063-7066.	1.4	2
95	Debromination of 1,2-Bis(phenylseleno)benzene Dibromide. Bulletin of the Chemical Society of Japan, 2013, 86, 990-992.	3.2	2
96	Efficient Synthesis of 1,4â€Bisâ€heteroatomâ€substituted Tetraselanylbenzenes via 1,4â€Dilithiation of Hexaselanylbenzene and Investigation on Their Electronic Properties. Chemistry - an Asian Journal, 2017, 12, 954-957.	3.3	2
97	Reactions of Dilithium Dibenzopentalenides with Cr(CO) <sub>3</sub> (CH <sub>3</sub> CN) <sub>3</sub> : Unexpected Formation of a Cubic Tetramer of an Anionic Hydrodibenzopentalenyl Complex. ChemPlusChem, 2017, 82, 1039-1042.	2.8	2
98	Relativistic Effect on 1 J (M,C) in Me4 M, Me3 Mâ^', Ph4 M, and Ph3 Mâ^' (M=Pb, Sn, Ge, Si, and/or C): Role of s-Type Lone Pair Orbitals in the Distinct Effect for the Anionic Species. ChemPhysChem, 2017, 18, 2466-2474.	2.1	2
99	Siloles, Germoles, Stannoles, and Plumboles. , 2022, , 798-832.		2
100	Synthesis, Structures, and Reactions of Anions and Dianions of Group 14 Metalloles. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2004, 62, 790-798.	0.1	2
101	Synthesis of Small-Ring Sulfur Compounds Containing Germanium and Tin. Phosphorus, Sulfur and Silicon and the Related Elements, 1993, 74, 397-398.	1.6	1
102	Synthesis of 9,10-Dihydro-9,10-Distannaanthracene. Phosphorus, Sulfur and Silicon and the Related Elements, 2001, 168, 249-251.	1.6	1
103	FORMATION AND REACTION OF A STANNOLE ANION. Main Group Metal Chemistry, 2002, 25, .	1.6	1
104	SYNTHESIS AND REACTIONS OF THE FIRST 9,9,10,10-TETRAHALO-9,10-DIHYDRO-9,10-DISTANNAANTHRACENES. Phosphorus, Sulfur and Silicon and the Related Elements, 2004, 179, 957-958.	1.6	1
105	Synthesis and photochemical reactions of 1,2,7-chalcogenadistannacycloheptanes. Applied Organometallic Chemistry, 2005, 19, 551-554.	3.5	1
106	Dechalcogenation of Pentachalcogenadistannabicyclo [3.1.1] heptanes. Heterocycles, 2008, 76, 515.	0.7	1
107	3,4-Diphenyl-2,5-bis(trimethylsilyl)cyclopentadienone. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o2121-o2121.	0.2	1
108	Highly Strained Câ€"C Bonds: 3-(1'-Hydroxy-4'-isopropyl-2',2'-dimethyl-1',2'-dihydrobenzocyclobuten-1'-yl)-3-methyl-2-butanone Ethylene Acetal, (I), and (3S*,1'S*)-3-Acetoxy-2-(1'-hydroxy-1',2'-dihydrobenzocyclobuten-1'-yl)-2-methylpentane, (II). Acta Crystallographica Section C: Crystal Structure Communications, 1998, 54, 1938-1941.	0.4	0

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109	Synthesis of Tin-Containing Heterocyclic Compounds by the Reaction of $1,3,5,2,4,6$ -Trichalcogenatristannin with $1,3$ -Dipoles. Phosphorus, Sulfur and Silicon and the Related Elements, $2001, 169, 105$ - $108$ .	1.6	O
110	Synthesis, Structures, and Reactions of Anions and Dianions of Group 14 Metalloles. ChemInform, 2005, 36, no.	0.0	0
111	Inside Cover: Reduction of Phenyl Silyl Acetylenes with Lithium: Unexpected Formation of a Dilithium Dibenzopentalenide (Angew. Chem. Int. Ed. 9/2007). Angewandte Chemie - International Edition, 2007, 46, 1352-1352.	13.8	o
112	Inside Cover: Molecular Structure and Electronic State of the Dibenzo[ <i>a,e</i> )pentalene Anion Radical (Chem. Asian J. 3/2012). Chemistry - an Asian Journal, 2012, 7, 442-442.	3.3	0
113	Expansion of the Concept of Aromaticity by the Introduction of Heavy Atoms and Application to Coordination Chemistry. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2019, 77, 960-970.	0.1	O
114	Aktivierung eines biomimetischen [FeFe]â€Hydrogenaseâ€Komplexes für die H <sub>2</sub> â€Produktion mit sichtbarem Licht**. Angewandte Chemie, 0, , .	t 2.0	0
115	Frontispiz: Aktivierung eines biomimetischen [FeFe]â€Hydrogenaseâ€Komplexes fÃ⅓r die H <sub>2</sub> â€Produktion mit sichtbarem Licht. Angewandte Chemie, 2022, 134, .	2.0	O
116	Frontispiece: Activating a [FeFe] Hydrogenase Mimic for Hydrogen Evolution under Visible Light. Angewandte Chemie - International Edition, 2022, 61, .	13.8	0