

Masaichi Saito

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/563000/publications.pdf>

Version: 2024-02-01

116
papers

2,951
citations

159585

30
h-index

189892

50
g-index

128
all docs

128
docs citations

128
times ranked

1515
citing authors

#	ARTICLE	IF	CITATIONS
1	Siloles, Germales, Stannoles, and Plumboles. , 2022, , 798-832.		2
2	Activating a [FeFe] Hydrogenase Mimic for Hydrogen Evolution under Visible Light**. Angewandte Chemie - International Edition, 2022, , .	13.8	6
3	Frontispiz: Aktivierung eines biomimetischen [FeFe]-Hydrogenase-Komplexes für die H ₂ -Produktion mit sichtbarem Licht. Angewandte Chemie, 2022, 134, .	2.0	0
4	Frontispiece: Activating a [FeFe] Hydrogenase Mimic for Hydrogen Evolution under Visible Light. Angewandte Chemie - International Edition, 2022, 61, .	13.8	0
5	Ferroelectric columnar assemblies from the bowl-to-bowl inversion of aromatic cores. Nature Communications, 2021, 12, 768.	12.8	48
6	Transition-Metal Capping to Suppress Back-Donation to Enhance Donor Ability. Organometallics, 2020, 39, 4191-4194.	2.3	7
7	Stereoselective Thermal Isomerization of Triphosphasumanenes, Utilized for Stereocontrolled Synthesis. Chemistry Letters, 2020, 49, 419-422.	1.3	7
8	Hybrid Molecular Junctions Using Au-S and Au-Te Bindings. Journal of Physical Chemistry C, 2020, 124, 9261-9268.	3.1	7
9	Inverted Sandwich Rh Complex Bearing a Plumbole Ligand and Its Catalytic Activity. Organometallics, 2019, 38, 3099-3103.	2.3	15
10	Synthesis and properties of perfluoroalkylated TIPS-pentacenes. Tetrahedron, 2019, 75, 130678.	1.9	6
11	¹³ C and ²⁰⁷ Pb NMR Chemical Shifts of Dirhodium- and Dilithioplumbole Complexes: A Quantum Chemical Assessment. Inorganic Chemistry, 2019, 58, 14708-14719.	4.0	4
12	Anionic Stannaferrocene and Its Unique Electronic State. Chemistry Letters, 2019, 48, 163-165.	1.3	16
13	Expansion of the Concept of Aromaticity by the Introduction of Heavy Atoms and Application to Coordination Chemistry. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2019, 77, 960-970.	0.1	0
14	Synthesis and properties of spiro-type heterasumanenes containing group 14 elements as bridging atoms. Materials Chemistry Frontiers, 2018, 2, 929-934.	5.9	21
15	Creation of Exotic Te-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
16	Figuration of bowl-shaped Te-conjugated molecules: properties and functions. Materials Chemistry Frontiers, 2018, 2, 635-661.	5.9	195
17	Transition-Metal Complexes Featuring Dianionic Heavy Group 14 Element Aromatic Ligands. Accounts of Chemical Research, 2018, 51, 160-169.	15.6	54
18	Double aromaticity arising from Te- and Te-rings. Communications Chemistry, 2018, 1, .	4.5	38

#	ARTICLE	IF	CITATIONS
19	Heterobimetallic triple-decker complexes derived from a dianionic aromatic stannole ligand. Dalton Transactions, 2018, 47, 8892-8896.	3.3	14
20	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
21	Efficient Synthesis of 1,4-Bis(heteroatom)-substituted Tetraselanylbenzenes via 1,4-Dilithiation of Hexaselanylbenzene and Investigation on Their Electronic Properties. Chemistry - an Asian Journal, 2017, 12, 954-957.	3.3	2
22	Formation of Dibenzopentalene-linking Polymers under the Two-zone CVD and Wet Conditions. Chemistry Letters, 2017, 46, 1099-1101.	1.3	5
23	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
24	Reactions of Dilithium Dibenzopentalenides with $\text{Cr}(\text{CO})_3(\text{CH}_3)_3\text{CN}$: Unexpected Formation of a Cubic Tetramer of an Anionic Hydrodibenzopentalenyl Complex. ChemPlusChem, 2017, 82, 1039-1042.	2.8	2
25	Relativistic Effect on $1J(\text{M}, \text{C})$ in Me_4M , Me_3M^+ , Ph_4M , and Ph_3M^+ ($\text{M}=\text{Pb}, \text{Sn}, \text{Ge}, \text{Si}, \text{and/or C}$): Role of s-Type Lone Pair Orbitals in the Distinct Effect for the Anionic Species. ChemPhysChem, 2017, 18, 2466-2474.	2.1	2
26	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
27	Anisotropic Crystals Based on a Main-Group Coordination Polymer with Alignment of Rigid π Skeletons. Organometallics, 2017, 36, 2487-2490.	2.3	4
28	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
29	(η -4-Butadiene) $\text{Sn}(\text{O})$ Complexes: A New Approach for Zero-Valent p-Block Elements Utilizing a Butadiene as a 4 π -Electron Donor. Journal of the American Chemical Society, 2016, 138, 11378-11382.	13.7	54
30	The Chemistry of Heterasumanenes. Chemical Record, 2016, 16, 64-72.	5.8	52
31	Serendipitous reactions involving a silicone grease. Coordination Chemistry Reviews, 2016, 314, 64-70.	18.8	17
32	A reversible two-electron redox system involving a divalent lead species. Chemical Communications, 2015, 51, 4674-4676.	4.1	28
33	Synthesis of a Stannole Dianion Complex Bearing a $\eta^4\text{-}\eta^1$ -Coordination Mode: Different Electronic State of Stannole Dianion Ligands Depending on Their Hapticity. Organometallics, 2015, 34, 4202-4204.	2.3	23
34	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
35	Synthesis and structures of monomeric group 14 triols and their reactivity. Canadian Journal of Chemistry, 2014, 92, 542-548.	1.1	13
36	Diversity of the Structures in a Distannene Complex and its Reduction to Generate a Six-Membered Ti_2Sn_4 Ring Complex. Angewandte Chemie - International Edition, 2014, 53, 434-438.	13.8	34

#	ARTICLE	IF	CITATIONS
37	Quantum chemical analyses of aromaticity, UV spectra, and NMR chemical shifts in plumbacyclopentadienylidenes stabilized by Lewis bases. <i>Journal of Computational Chemistry</i> , 2014, 35, 847-853.	3.3	8
38	Facile Synthesis of Dibenzopentalene Dianions and Their Application as New π -Extended Ligands. <i>Chemistry - A European Journal</i> , 2014, 20, 7571-7575.	3.3	14
39	Synthesis, Structures, and Electronic Properties of Triple- and Double-Decker Ruthenocenes Incorporated by a Group 14 Metallole Dianion Ligand. <i>Journal of the American Chemical Society</i> , 2014, 136, 13059-13064.	13.7	54
40	Enhancement of Stannylene Character in Stannole Dianion Equivalents Evidenced by NMR and Mössbauer Spectroscopy and Theoretical Studies of Newly Synthesized Silyl-Substituted Dilithiostannoles. <i>Organometallics</i> , 2014, 33, 2910-2913.	2.3	55
41	π -Aromaticity in Hexa-Group 16 Atom-Substituted Benzene Dications: A Theoretical Study. <i>Journal of Organic Chemistry</i> , 2014, 79, 2640-2646.	3.2	11
42	Unexpected Dehalogenation Reactions of Dichloroborane Bearing a NCN-Pincer Ligand: Formation of a Borenium Salt. <i>Heteroatom Chemistry</i> , 2014, 25, 354-360.	0.7	4
43	Unexpected Formation of Ru_2Sn_2 Bicyclic Four-Membered Ring Complexes with Butterfly and Inverse-Sandwich Structures. <i>Inorganic Chemistry</i> , 2013, 52, 3585-3587.	4.0	23
44	Debromination of 1,2-Bis(phenylseleno)benzene Dibromide. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 990-992.	3.2	2
45	Synthesis, Structure, and Reactivity of Lewis Base Stabilized Plumbacyclopentadienylidenes. <i>Chemistry - A European Journal</i> , 2013, 19, 16946-16953.	3.3	32
46	Synthesis, Structures, and Optical Properties of Heterasumanenes Containing Group 14 Elements and Their Related Compounds. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 7135-7142.	2.4	66
47	Molecular Structure and Electronic State of the Dibenzo[<i>a,e</i>]pentalene Anion Radical. <i>Chemistry - an Asian Journal</i> , 2012, 7, 480-483.	3.3	21
48	Inside Cover: Molecular Structure and Electronic State of the Dibenzo[<i>a,e</i>]pentalene Anion Radical (Chem. Asian J. 3/2012). <i>Chemistry - an Asian Journal</i> , 2012, 7, 442-442.	3.3	0
49	Challenge to expand the concept of aromaticity to tin- and lead-containing carbocyclic compounds: Synthesis, structures and reactions of dilithiostannoles and dilithioplumbole. <i>Coordination Chemistry Reviews</i> , 2012, 256, 627-636.	18.8	56
50	Synthesis, structures and optical properties of trisilasumanene and its related compounds. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1731.	2.8	57
51	Synthesis of a Novel Lithocene that has Aromatic-Like Nature with Nonaromatic Rings. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2907-2910.	3.3	12
52	1,1-Di- <i>tert</i> -butyl-2,2,3,3,4,4,5,5-octaethyl-1,1-bistannole. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m949-m949.	0.2	3
53	Synthesis, Structure, and Reaction of Tetraethyldilithiostannole. <i>Chemistry Letters</i> , 2010, 39, 700-701.	1.3	44
54	Synthesis and Structures of Lithium Salts of Stannole Anions. <i>Bulletin of the Chemical Society of Japan</i> , 2010, 83, 825-827.	3.2	20

#	ARTICLE	IF	CITATIONS
55	Synthesis and structures of heterasumanenes having different heteroatom functionalities. <i>Tetrahedron Letters</i> , 2010, 51, 672-675.	1.4	66
56	Formation of Pentaorganostannates from Bis(2-bromo-2-phenyl)stannanes and <i>tert</i> -Butyllithium upon Substitution of Alkyl and Aryl Groups on Tin Atoms. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2153-2157.	2.0	10
57	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. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 1035-1041.	1.8	6
58	1,5-Bis[2,6-bis(2,4,6-triisopropylphenyl)phenyl]-2,3,4,6,7-pentatellura-1,5-distannabicyclo[3.1.1]heptane. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, m885-m886.	0.2	6
59	Synthesis and Reactions of Dibenzo[a,e]pentalenes. <i>Symmetry</i> , 2010, 2, 950-969.	2.2	96
60	Synthesis, Structures, and Properties of Plumboles. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2010, 185, 1068-1076.	1.6	17
61	Dilithioplumbole: A Lead-Bearing Aromatic Cyclopentadienyl Analog. <i>Science</i> , 2010, 328, 339-342.	12.6	112
62	Synthesis and structure of the dithienostannole anion. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 4056-4061.	1.8	15
63	Reinvestigation on the synthesis of hexakis(phenylseleno)benzene. <i>Journal of Sulfur Chemistry</i> , 2009, 30, 469-476.	2.0	11
64	Novel Reactions of Steric Encumbered 1,4-Dilithio-1,3-butadiene with Group 14 Electrophiles: Formation and Structure of Stable Dihydroxygermole. <i>Heterocycles</i> , 2009, 78, 657.	0.7	7
65	Stepwise Oxidation of the Stannole Dianion. <i>Chemistry - A European Journal</i> , 2008, 14, 4068-4073.	3.3	18
66	New Reactions of a Dibenzo[a,e]pentalene. <i>Chemistry - A European Journal</i> , 2008, 14, 6062-6068.	3.3	67
67	Synthesis, structure and reactions of a trianion equivalent, trilithiostannane. <i>Chemical Communications</i> , 2008, , 6495.	4.1	6
68	Dechalcogenation of Pentachalcogenadistannabicyclo[3.1.1]heptanes. <i>Heterocycles</i> , 2008, 76, 515.	0.7	1
69	3,4-Diphenyl-2,5-bis(trimethylsilyl)cyclopentadienone. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o2121-o2121.	0.2	1
70	Synthesis and Structure of Pentaorganostannate Having Five Carbon Substituents. <i>Journal of the American Chemical Society</i> , 2007, 129, 10974-10975.	13.7	30
71	Reduction of Phenyl Silyl Acetylenes with Lithium: Unexpected Formation of a Dilithium Dibenzopentalenide. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1504-1507.	13.8	85
72	Inside Cover: Reduction of Phenyl Silyl Acetylenes with Lithium: Unexpected Formation of a Dilithium Dibenzopentalenide (<i>Angew. Chem. Int. Ed.</i> 9/2007). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1352-1352.	13.8	0

#	ARTICLE	IF	CITATIONS
73	Synthesis and reactions of a novel bulky aryllithium. <i>Applied Organometallic Chemistry</i> , 2007, 21, 604-611.	3.5	4
74	Synthesis and Reactions of Stannole Anions. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1297-1306.	2.0	26
75	Synthesis and structures of polychalcogenadistannabicyclo[k.l.m]alkanes. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 2729-2735.	1.8	39
76	3,5-Bis(trimethylsilyl)triphenylene[1,12-bcd]thiophene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o2923-o2923.	0.2	4
77	Reversible Redox Behavior between Stannole Dianion and Bistannole-1,2-Dianion. <i>Journal of the American Chemical Society</i> , 2006, 128, 4934-4935.	13.7	39
78	Synthesis of Stannaindenyl Anions and a Dianion. <i>Organometallics</i> , 2006, 25, 2967-2971.	2.3	30
79	Synthesis and Characterization of Dimetallostannafluorenes. <i>Chemistry Letters</i> , 2006, 35, 940-941.	1.3	28
80	Formation of the Dianion and the Dimer of 9,10-Distannaanthracene. <i>Chemistry Letters</i> , 2005, 34, 1018-1019.	1.3	5
81	The anions and dianions of group 14 metalloles. <i>Coordination Chemistry Reviews</i> , 2005, 249, 765-780.	18.8	105
82	Synthesis and Structures of Bi(1,1-stannole)s. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3750-3755.	2.0	16
83	The Aromaticity of the Stannole Dianion. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6553-6556.	13.8	90
84	Synthesis and photochemical reactions of 1,2,7-chalcogenadistannacycloheptanes. <i>Applied Organometallic Chemistry</i> , 2005, 19, 551-554.	3.5	1
85	Reduction of dichlorodiphenylstannane. <i>Applied Organometallic Chemistry</i> , 2005, 19, 894-897.	3.5	9
86	Synthesis, Structures, and Reactions of Anions and Dianions of Group 14 Metalloles. <i>ChemInform</i> , 2005, 36, no.	0.0	0
87	Silyl Migration in the Photochemical Reactions of 2-Trimethylsilylmethylphenyl Ketones. <i>Organic Letters</i> , 2005, 7, 3139-3141.	4.6	10
88	SIMPLE METHOD FOR THE SYNTHESIS OF STANNOLE DIANION. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2004, 179, 703-705.	1.6	9
89	SYNTHESIS AND REACTIONS OF THE FIRST 9,9,10,10-TETRAHALO-9,10-DIHYDRO-9,10-DISTANNAANTHRACENES. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2004, 179, 957-958.	1.6	1
90	Synthesis, Structures and Reactions of Novel 9,10-Dihydro-9,10-distannaanthracenes. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 743-748.	2.0	8

#	ARTICLE	IF	CITATIONS
91	Tin ^{IV} -Chalcogen Double-Bond Compounds, Stannanethione and Stannaneselone: Synthesis, Structure, and Reactivities. <i>Journal of the American Chemical Society</i> , 2004, 126, 15572-15582.	13.7	62
92	Synthesis, Structures, and Reactions of Anions and Dianions of Group 14 Metalloles. Yuki Gosei Kagaku Kyokaiishi/ <i>Journal of Synthetic Organic Chemistry</i> , 2004, 62, 790-798.	0.1	2
93	Synthesis of Stannole Anion by Alkylation of Stannole Dianion. <i>Chemistry Letters</i> , 2003, 32, 912-913.	1.3	38
94	FORMATION AND REACTION OF A STANNOLE ANION. <i>Main Group Metal Chemistry</i> , 2002, 25, .	1.6	1
95	Formation of the first monoanion and dianion of stannole Electronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b2/b200238h/ . <i>Chemical Communications</i> , 2002, , 1002-1003.	4.1	63
96	Synthesis and Structures of Two 9,10-Dihydro-9,10-distannaanthracenes. <i>Organometallics</i> , 2001, 20, 749-753.	2.3	21
97	Synthesis of 9,10-Dihydro-9,10-Distannaanthracene. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2001, 168, 249-251.	1.6	1
98	Reactions of 1,3,5,2,4,6-trichalcogenatristannins and their derivatives with a nitrile oxide: synthesis, structure, and thermal behavior of oxachalcogenazastannoles. <i>Tetrahedron Letters</i> , 2001, 42, 7063-7066.	1.4	2
99	Reinvestigation on the halogenation of 1,1,2,3,4,5-hexaphenylstannole. <i>Heteroatom Chemistry</i> , 2001, 12, 349-353.	0.7	14
100	Synthesis of Tin-Containing Heterocyclic Compounds by the Reaction of 1,3,5,2,4,6-Trichalcogenatristannin with 1,3-Dipoles. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2001, 169, 105-108.	1.6	0
101	Thermal reaction of diastereomeric benzocyclobutenols. Evidence for reversible opening of 1,2-dihydrobenzocyclobutenols to hydroxy- <i>o</i> -xylylenes. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 1015-1019.	1.3	3
102	Stereospecific Thermal Isomerization of 2,2-Dimethylbenzocyclobutenols to 2-Isopropenylphenyl Alcohols. <i>Journal of Organic Chemistry</i> , 2000, 65, 4909-4912.	3.2	5
103	Mechanistic Study on Thermal Isomerization of 1-Methylbenzocyclobutenol to 2-Methylacetophenone. <i>Journal of Organic Chemistry</i> , 1999, 64, 7407-7411.	3.2	9
104	The Effect of Solvent Polarity on the Product Distribution in the Reaction of Singlet Oxygen with Enolic Tautomers of 1-(2,4,6-Trialkylphenyl)-2-methyl 1,3-Diketones. <i>Journal of Organic Chemistry</i> , 1999, 64, 9247-9250.	3.2	9
105	Highly Strained C=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). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1998, 54, 1938-1941.	0.4	0
106	Solvent Dependent Photochemical Reactions of 3-(2-Alkylphenyl)-2,2-dimethyl-3-oxopropanoates and Their Related Compounds. <i>Journal of Organic Chemistry</i> , 1998, 63, 9013-9018.	3.2	11
107	Stable Stannaneselone and Diselenastannirane: Novel Organotin Compounds Derived from an Extremely Hindered Tetraselenastannolane. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1997, 124, 363-370.	1.6	2
108	The First Kinetically Stabilized Stannaneselone and Diselenastannirane: Synthesis by Deselenation of a Tetraselenastannolane and Structures. <i>Journal of the American Chemical Society</i> , 1997, 119, 11124-11125.	13.7	93

#	ARTICLE	IF	CITATIONS
109	Synthesis and Reactions of a Stannanethione Derived from a Kinetically Stabilized Diarylstannylene. Organometallics, 1996, 15, 4531-4536.	2.3	43
110	A New Method for the Synthesis of Stannylenes: Exhaustive Desulfurization of Tetrathiastannolanes. Chemistry Letters, 1996, 25, 265-266.	1.3	12
111	Synthesis and reactions of stanneneselone. Journal of Organometallic Chemistry, 1995, 499, 43-48.	1.8	29
112	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
113	NEW ASPECTS IN THE CHEMISTRY OF LOW-COORDINATE COMPOUNDS OF GROUP 14 ELEMENTS. Main Group Metal Chemistry, 1994, 17, .	1.6	26
114	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
115	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
116	Aktivierung eines biomimetischen [FeFe]-Hydrogenase-Komplexes für die H ₂ -Produktion mit sichtbarem Licht**. Angewandte Chemie, 0, , .	2.0	0