

Toshikazu Hirao

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126
papers

4,615
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31
h-index

66
g-index

135
ext. papers

5,031
ext. citations

5.5
avg. IF

5.52
L-index

#	Paper	IF	Citations
126	Synthesis of .alpha.,.beta.-unsaturated carbonyl compounds by palladium(II)-catalyzed dehydrosilylation of silyl enol ethers. <i>Journal of Organic Chemistry</i> , 1978 , 43, 1011-1013	4.2	746
125	A synthesis of sumanene, a fullerene fragment. <i>Science</i> , 2003 , 301, 1878	33.3	423
124	Vanadium in Modern Organic Synthesis. <i>Chemical Reviews</i> , 1997 , 97, 2707-2724	68.1	282
123	Structural elucidation of sumanene and generation of its benzylic anions. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11580-1	16.4	238
122	A Novel Synthesis of Dialkyl Arenephosphonates. <i>Synthesis</i> , 1981 , 1981, 56-57	2.9	233
121	Stereoselective synthesis of vinylphosphonate. <i>Tetrahedron Letters</i> , 1980 , 21, 3595-3598	2	205
120	Anisotropic electron transport properties in sumanene crystal. <i>Journal of the American Chemical Society</i> , 2009 , 131, 408-9	16.4	185
119	A molecular bowl sumanene. <i>Chemical Communications</i> , 2011 , 47, 10524-35	5.8	180
118	Cyclization reactions via oxo-.pi.-allylpalladium(II) intermediates. <i>Journal of the American Chemical Society</i> , 1979 , 101, 494-496	16.4	128
117	Surface-active properties of novel cationic surfactants with two alkyl chains and two ammonio groups. <i>JAOCS, Journal of the American Oil Chemistsl Society</i> , 1996 , 73, 907-911	1.8	104
116	A concave-bound CpFe complex of sumanene as a metal in a pi bowl. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8376-9	16.4	95
115	Chemistry of sumanene. <i>Chemical Record</i> , 2015 , 15, 310-21	6.6	87
114	A dynamically inverting pi-bowl complex. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 403-6	16.4	71
113	Cp2VCl2-Catalyzed Meso-Selective Pinacol Coupling Reaction of Aldimines in the Presence of Chlorosilane and Zinc Metal. <i>Journal of Organic Chemistry</i> , 1998 , 63, 9421-9424	4.2	68
112	A Novel Photoinduced Thioselenation of Allenes by Use of a DisulfideDiselenide Binary System. <i>Journal of Organic Chemistry</i> , 1998 , 63, 4277-4281	4.2	63
111	Oxovanadium-induced oxidative desilylation for the selective synthesis of 1,4-diketones. <i>Tetrahedron Letters</i> , 1992 , 33, 5823-5826	2	59
110	A Catalytic System Consisting of Vanadium, Chlorosilane, and Aluminum Metal in the Stereoselective Pinacol Coupling Reaction of Benzaldehyde Derivatives. <i>Journal of Organic Chemistry</i> , 1999 , 64, 7665-7667	4.2	58

109	A chiral concave-bound cyclopentadienyl iron complex of sumanene. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1640-3	16.4	56
108	Preparation of bis-quaternary ammonium salts from epichlorohydrin. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 1996 , 73, 67-71	1.8	47
107	Oxovanadium(v)-catalyzed oxidative biaryl synthesis from organoborate under O ₂ . <i>Chemical Communications</i> , 2006 , 5042-4	5.8	46
106	Highly Selective Three-Component Coupling of Ethyl Propiolate, Alkenes, and Diphenyl Diselenide under Visible-Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2027-2029	16.4	41
105	A Novel Redox-Active Conjugated Palladium Homobimetallic Complex. <i>European Journal of Inorganic Chemistry</i> , 2001 , 2001, 651-657	2.3	40
104	Selective Intermolecular Oxidative Cross-Coupling of Enolates. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10072-5	16.4	39
103	A theoretical study of the bowl-to-bowl inversion of sumanene derivatives. <i>Pure and Applied Chemistry</i> , 2010 , 82, 969-978	2.1	37
102	Synthesis of vinylsilanes by palladium-catalyzed reaction of trimethylsilylallyl acetates with nucleophiles. <i>Tetrahedron Letters</i> , 1981 , 22, 3079-3080	2	36
101	Redox-Active Catalyst Based on Poly(Anilinesulfonic Acid)-Supported Gold Nanoparticles for Aerobic Alcohol Oxidation in Water. <i>Advanced Synthesis and Catalysis</i> , 2010 , 352, 2177-2182	5.6	35
100	An Organic Catalytic System for Dehydrogenative Oxidation. <i>Journal of Organic Chemistry</i> , 1998 , 63, 7534-7535	4.7	35
99	Oxovanadium(V)-Induced Oxidative Coupling of Organolithium and -magnesium Compounds. <i>Organometallics</i> , 1998 , 17, 5713-5716	3.8	34
98	Double Concave Cesium Encapsulation by Two Charged Sumanenyl Bowls. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2582-2587	16.4	33
97	Bowl inversion of surface-adsorbed sumanene. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13666-71	16.4	33
96	Sumanenyl metallocenes: synthesis and structure of mono- and trinuclear zirconocene complexes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12794-8	16.4	32
95	Convex and Concave Encapsulation of Multiple Potassium Ions by Sumanenyl Anions. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9768-71	16.4	31
94	The electrochemical inspection of the redox activity of sumanene and its concave CpFe complex. <i>Dalton Transactions</i> , 2009 , 9192-7	4.3	30
93	Bowl-to-bowl inversion of sumanene derivatives. <i>Pure and Applied Chemistry</i> , 2012 , 84, 1089-1100	2.1	27
92	Selective synthetic methods using vanadium-mediated redox reactions. <i>Pure and Applied Chemistry</i> , 2005 , 77, 1539-1557	2.1	27

91	Oxovanadium(V)-induced cross-coupling reaction between two ligands of organozinc compounds. <i>Journal of Organic Chemistry</i> , 2000 , 65, 1511-5	4.2	25
90	Oxovanadium(V)-induced vicinal dialkylation of cyclic enones with organozinc compounds. <i>Organic Letters</i> , 2000 , 2, 3659-61	6.2	22
89	Ruthenium complexes bearing π -conjugated pendant moieties for a redox-switching system. <i>Chemical Communications</i> , 2001 , 431-432	5.8	21
88	Polyaniline-Induced C-H Arylation of Arenes with Arenediazonium Salts. <i>Chemistry - A European Journal</i> , 2015 , 21, 16427-33	4.8	19
87	Versatile Synthesis of Polyaniline/Pd Nanoparticles and Catalytic Application. <i>Macromolecular Symposia</i> , 2008 , 270, 88-94	0.8	19
86	Versatile desilylative cross-coupling of silyl enol ethers and allylic silanes via oxovanadium-induced chemoselective one-electron oxidation. <i>Tetrahedron</i> , 1994 , 50, 10207-10214	2.4	19
85	Synthetic Strategy: Palladium-Catalyzed Dehydrogenation of Carbonyl Compounds. <i>Journal of Organic Chemistry</i> , 2019 , 84, 1687-1692	4.2	18
84	PALLADIUM-PROMOTED TRANSFORMATION OF β -EPOXYSILANES TO α -UNSATURATED CARBONYL COMPOUNDS. <i>Chemistry Letters</i> , 1982 , 11, 1997-2000	1.7	18
83	Synthesis of (arylimido)vanadium complexes and their application for oxidative coupling reactions of silyl enol ether derivatives. <i>Dalton Transactions</i> , 2010 , 39, 9936-40	4.3	17
82	Arylimidovanadium(V) complexes for a tridendritic centrosymmetric structural motif or axial chirality. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 83-6	16.4	17
81	One-Step Synthesis of Oxodimethylenemethane-Transition Metal Complexes and Palladium-Catalyzed Cycloaddition Reaction. <i>Journal of Organic Chemistry</i> , 1996 , 61, 4971-4974	4.2	17
80	Oxovanadium(V)-induced diastereoselective oxidative homocoupling of boron enolates. <i>Chemical Communications</i> , 2014 , 50, 2279-81	5.8	16
79	Nickel enolates in the Ni(CO) ₄ -induced carbonylation of gem-dibromocyclopropanes with silylamine or silylsulfide. <i>Tetrahedron Letters</i> , 1985 , 26, 5061-5064	2	16
78	Tetracarbonyl nickel induced reaction of gem-dibromocyclopropanes with alcohols or amines.. <i>Tetrahedron Letters</i> , 1983 , 24, 1255-1258	2	16
77	Double Concave Cesium Encapsulation by Two Charged Sumanenyl Bowls. <i>Angewandte Chemie</i> , 2017 , 129, 2626-2631	3.6	15
76	Synthesis of self-doped conducting polyaniline bearing phosphonic acid monoester. <i>Synthetic Metals</i> , 2014 , 195, 137-140	3.6	15
75	Metal atom dynamics of CpFe ligated to a concave β -bowl sumanene. <i>Journal of Organometallic Chemistry</i> , 2011 , 696, 3895-3899	2.3	15
74	Structural Control of (Arylimido)vanadium(V) Compounds through π -Conjugation. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 1969-1973	2.3	15

73	Quinone Oxygen-Coordinated Palladium(II) Complexes with Anthraquinone Ligands Bearing N-Heterocyclic Coordination Sites. <i>European Journal of Inorganic Chemistry</i> , 2001 , 2001, 277-287	2.3	15
72	Palladium(II)-Catalyzed Dehydroboration via Generation of Boron Enolates. <i>Chemistry - A European Journal</i> , 2016 , 22, 18686-18689	4.8	15
71	Polyaniline-Induced Arylation with Arenediazonium Salts Derived from Anilines. <i>Chemistry - A European Journal</i> , 2017 , 23, 7703-7709	4.8	14
70	Vanadium(V)-Induced Oxidative Cross-Coupling of Various Boron and Silyl Enolates. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 1301-1304	4.5	14
69	Synthesis of Polyaniline/Pd Nanoparticles via Ligand Exchange. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2009 , 19, 79-84	3.2	14
68	A Zinc(II) Complex Composed of a Tridentate Ligand Bearing Podand Pyrenyl Moieties. <i>European Journal of Inorganic Chemistry</i> , 2002 , 2002, 447-451	2.3	13
67	Vanadium-catalyzed chlorination under molecular oxygen. <i>Journal of Inorganic Biochemistry</i> , 2015 , 147, 177-80	4.2	12
66	Dipeptide-induced chirality organization. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2012 , 74, 23-40		12
65	Quinonediimines as redox-active organocatalysts for oxidative coupling of aryl- and alkenylmagnesium compounds under molecular oxygen. <i>Chemical Communications</i> , 2016 , 52, 7790-3	5.8	12
64	One-Step Synthesis and Association of Alkylimidovanadium(V) Compounds. <i>Bulletin of the Chemical Society of Japan</i> , 2012 , 85, 606-612	5.1	11
63	Poly(L-glutamic acid)-modulated Emission Properties of Iridium(III) Complexes in an Aqueous Media. <i>Chemistry Letters</i> , 2012 , 41, 310-312	1.7	11
62	A novel redox system consisting of π -conjugated polymers and transition metals. <i>Macromolecular Symposia</i> , 1998 , 131, 59-68	0.8	11
61	PALLADIUM-PROMOTED REACTION OF ALLYL TRIMETHYLSILYL ETHERS WITH ARYL IODIDES. <i>Chemistry Letters</i> , 1981 , 10, 403-406	1.7	11
60	La(OTf) ₃ -mediated self-organization of guanosine with an alkynyl-Au(I)PPh ₃ moiety to induce Au(I)⋯Au(I) interactions. <i>RSC Advances</i> , 2012 , 2, 4359	3.7	10
59	Aerobic dehydrogenative imination in complete aqueous media catalyzed by poly(aniline sulfonic acid)/gold nanoparticles. <i>Tetrahedron Letters</i> , 2013 , 54, 2409-2411	2	10
58	Trimethylsilylmethyl Isothiocyanate, An Isothiocyanatomethanide Equivalent. <i>Angewandte Chemie International Edition in English</i> , 1981 , 20, 126-127		10
57	Practical Synthesis of Poly(2-methoxyaniline-5-phosphonic acid), a Self-Doped Conducting Polyaniline Bearing Phosphonic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 2014 , 87, 1026-1028	5.1	9
56	Dinuclear organogold(I) complexes bearing uracil moieties: chirality of Au(I)⋯Au(I) axis and self-assembly. <i>CrystEngComm</i> , 2015 , 17, 3460-3467	3.3	8

55	Synthesis and Characterization of Bisumanenylidene. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 3531-3535	3.2	8
54	Crown Ether Assisted Convex Cesium Binding to a Sumanenyl Bowl. <i>Organometallics</i> , 2017 , 36, 4961-4967	3.8	8
53	Structural tuning and self-association of (arylimido)vanadium(V) compounds. <i>Pure and Applied Chemistry</i> , 2009 , 81, 1187-1195	2.1	8
52	Oxovanadium(V)-Catalyzed Direct Amination of Allyl Alcohols. <i>ChemCatChem</i> , 2019 , 11, 1175-1178	5.2	8
51	Theoretical investigation for the stability of the concave-bound cyclopentadienyl iron complex of sumanene. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 437-442	2.1	7
50	Control of Helical Chirality of Ferrocene-Dipeptide Conjugates by the Secondary Structure of Dipeptide Chains. <i>Chemistry - A European Journal</i> , 2017 , 23, 12704-12708	4.8	7
49	Synthesis of Polyaniline and Transition Metal Nanoparticles Hybrids. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015 , 25, 145-152	3.2	7
48	Self-Assembly Properties of NCN Pincer Palladium(II) Complexes Bearing a Uracil Moiety. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 4626-4631	2.3	7
47	Hochselektive Dreikomponentenkupplung von Ethylpropiolat mit einem Alken und Diphenyldiselenid durch Bestrahlung mit sichtbarem Licht. <i>Angewandte Chemie</i> , 1999 , 111, 2066-2069	3.6	7
46	Oxovanadium-Induced or-Catalyzed Oxidative Allylation of 1,3-Dicarbonyl Compounds with Allylsilanes. <i>Synthetic Communications</i> , 1995 , 25, 2579-2585	1.7	7
45	Synthesis of oxindoles via reductive CO ₂ fixation. <i>Organic Chemistry Frontiers</i> , 2016 , 3, 929-933	5.2	6
44	Self-doped polyaniline derived from poly(2-methoxyaniline-5-phosphonic acid) and didodecyldimethylammonium salt. <i>RSC Advances</i> , 2016 , 6, 22447-22452	3.7	6
43	Selective synthesis of organic sulfides and disulfides by the reduction of elemental sulfur with samarium diiodide. <i>Heteroatom Chemistry</i> , 1998 , 9, 581-584	1.2	6
42	Ferrocenyl-Capped p-Phenylenediamine as a Redox-Switching System. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 3877-3882	2.3	6
41	Oxovanadium(v)-catalyzed oxidative cross-coupling of enolates using O as a terminal oxidant. <i>Chemical Communications</i> , 2020 , 56, 11697-11700	5.8	6
40	Controlled coordination in vanadium(V) dimethylhydrazido compounds. <i>Journal of Inorganic Biochemistry</i> , 2016 , 164, 77-81	4.2	6
39	Investigation of thresholds in laser-induced carbonization of sumanene derivatives through in situ observation utilizing a Raman spectroscopy. <i>RSC Advances</i> , 2015 , 5, 18523-18530	3.7	5
38	Deprotonation-Induced Efficient Delocalization of Polaron in Self-Doped Poly(anilinephosphonic acid). <i>Macromolecules</i> , 2014 , 47, 8115-8118	5.5	5

37	Emission properties of platinum(II) terpyridyl complexes with hydrophobic poly-l-glutamic acid. <i>Supramolecular Chemistry</i> , 2011 , 23, 113-116	1.8	5
36	Dimensionally oriented redox-active π -conjugated systems. <i>Macromolecular Symposia</i> , 2003 , 204, 103-112	0.8	5
35	Layer Formation and Its Spectral Behavior of Double-Chain Amphiphiles Having Cinnamate Units. <i>Langmuir</i> , 1996 , 12, 2785-2790	4	5
34	SYNTHESIS OF α -UNSATURATE CARBOXYLIC ACID DERIVATIVES BY THE NOVEL Ni(CO) ₄ -INDUCED RING-OPENING CARBONYLATION REACTION OF 1,1-DIBROMO-2-CHLOROCYCLOPROPANES. <i>Chemistry Letters</i> , 1985 , 14, 1625-1628	1.7	5
33	Controlled self-assembling structures of ferrocene-dipeptide conjugates composed of Ala-Pro-NHCHCHSH chain. <i>Journal of Inorganic Biochemistry</i> , 2017 , 177, 259-265	4.2	4
32	Structural Characterization of Chiral Vanadium(V) Compounds with V=N Bond. <i>Chemistry Letters</i> , 2017 , 46, 844-847	1.7	4
31	Trimethylsilyl-methylisothiocyanat, ein Isothiocyanatomethanid- π -equivalent. <i>Angewandte Chemie</i> , 2006 , 93, 95-96	3.6	4
30	Conjugated complex system composed of quinonediimine unit. <i>Macromolecular Symposia</i> , 2002 , 186, 75-80	0.8	4
29	Preparation of Polyaniline β t Nanoparticles via Ligand Exchange from Starch β t Nanoparticles. <i>Bulletin of the Chemical Society of Japan</i> , 2014 , 87, 1130-1132	5.1	3
28	Chiral Homobimetallic Palladium(II) Complexes Composed of Chirality-Organized Quinonediimines Bearing Amino Acid Moieties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013 , 23, 251-255	3.2	3
27	Oxidative Bromination Reactions in Aqueous Media by Using Bu ₄ NBr/TFA/H ₂ O ₂ System. <i>Chemistry Letters</i> , 2017 , 46, 1708-1710	1.7	3
26	Polypeptides-Induced Self-Aggregation and Tuning of Emission Properties of Luminescent Complexes. <i>Macromolecular Symposia</i> , 2012 , 317-318, 206-214	0.8	3
25	Molecular Structures of Dipeptide β alladium(II) Conjugated Complexes. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 4669-4674	2.3	3
24	Highly Selective Three-Component Coupling of Ethyl Propiolate, Alkenes, and Diphenyl Diselenide under Visible-Light Irradiation 1999 , 38, 2027		3
23	Synthesis of a sumanenyl hafnocene complex. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 1032-1037	5.2	2
22	Polypeptide-induced Fluorescence of Pyrene Derivatives Based on Coordination Programming. <i>Chemistry Letters</i> , 2014 , 43, 1101-1103	1.7	2
21	Structural Characterization of (Arylimido)vanadium(V) Compounds with 2,6-Difluorophenoxide Ligand. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 1173-1177	1.3	2
20	Laser-Induced Carbonization of Sumanene Derivatives: Exposure-Time Dependence of Time-Resolved Microwave Conductivity. <i>Bulletin of the Chemical Society of Japan</i> , 2015 , 88, 330-332	5.1	2

19	Hydrogen Peroxide Generation Using Polyaniline/Transition Metal Nanohybrid Electrodes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015 , 25, 855-859	3.2	2
18	Synthetic Transformations via Vanadium-Induced Redox Reactions. <i>ACS Symposium Series</i> , 2007 , 2-27	0.4	2
17	Selective transformations of functional groups by use of dialkyl phosphonates.. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 1987 , 45, 784-791	0.2	2
16	Oxovanadium(v)-catalyzed amination of carbon dioxide under ambient pressure for the synthesis of ureas.. <i>RSC Advances</i> , 2021 , 11, 27121-27125	3.7	2
15	Organometallic Complexes of Sumanene473-483		2
14	Development of Self-Doped Conducting Polyaniline Bearing Phosphonic Acid Moiety. <i>Kobunshi Ronbunshu</i> , 2017 , 74, 473-481	0	1
13	Sumanenes: Synthesis and Complexation 2011 , 187-203		1
12	Efficient System for Oxidation Induced by Transition Metal Complex Catalyst.. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 1992 , 50, 997-1004	0.2	1
11	Alkoxide ligand controlled self-assembling of (imido)vanadium(V) compounds having a tetrahedral VON geometry. <i>Journal of Inorganic Biochemistry</i> , 2020 , 203, 110880	4.2	1
10	Structural Consequences of Two-Fold Deprotonation of Sumanene: Embedding Two Cp-rings into a Nonplanar Carbon Framework. <i>Organometallics</i> , 2021 , 40, 2023-2026	3.8	1
9	Selective synthesis of organic sulfides and disulfides by the reduction of elemental sulfur with samarium diiodide 1998 , 9, 581		1
8	dl-Selective Pinacol-Type Coupling Using Zinc, Chlorosilane, and Catalytic Amounts of Cp ₂ VCl ₂ ; dl-1,2-dicyclohexylethanol 2005 , 26-32		1
7	Front Cover: Structural Characterization of (Arylimido)vanadium(V) Compounds with 2,6-Difluorophenoxide Ligand (Z. Anorg. Allg. Chem. 18/2017). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 1145-1145	1.3	
6	Metal Conjugates with Redox-Active π -Conjugated Polymers or Molecules 2005 , 209-226		
5	Chemistry of π -Epoxy silanes. <i>Journal of Japan Oil Chemists Society</i> , 1983 , 32, 355-360		
4	Facile Synthesis of Alkenylphosphonates. <i>Journal of Japan Oil Chemists Society</i> , 1983 , 32, 274-276		
3	10-Undecenoic Acid in Total Syntheses of Naturally Occurring Compounds. <i>Journal of Japan Oil Chemists Society</i> , 1992 , 41, 804-809		
2	Self-Assemblies of Bioorganometallic Conjugates. <i>Kobunshi Ronbunshu</i> , 2016 , 73, 1-11	0	

- 1 Cocrystal Structure of the Redox-active Phenylenediamine and Quinonedimine Derivatives. *X-ray Structure Analysis Online*, **2019**, 35, 63-65

0.2