

# Hidehiro Sakurai

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/374789/hidehiro-sakurai-publications-by-citations.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

180  
papers

6,831  
citations

37  
h-index

78  
g-index

229  
ext. papers

7,443  
ext. citations

5  
avg, IF

6.08  
L-index

#	Paper	IF	Citations
180	Size-specific catalytic activity of polymer-stabilized gold nanoclusters for aerobic alcohol oxidation in water. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 9374-5	16.4	764
179	Effect of electronic structures of Au clusters stabilized by poly(N-vinyl-2-pyrrolidone) on aerobic oxidation catalysis. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 7086-93	16.4	556
178	A synthesis of sumanene, a fullerene fragment. <i>Science</i> , <b>2003</b> , 301, 1878	33.3	423
177	Colloidal gold nanoparticles as catalyst for carbon-carbon bond formation: application to aerobic homocoupling of phenylboronic acid in water. <i>Langmuir</i> , <b>2004</b> , 20, 11293-6	4	328
176	Structural elucidation of sumanene and generation of its benzylic anions. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 11580-1	16.4	238
175	Pd/C as a reusable catalyst for the coupling reaction of halophenols and arylboronic acids in aqueous media. <i>Journal of Organic Chemistry</i> , <b>2002</b> , 67, 2721-2	4.2	229
174	Thermosensitive gold nanoclusters stabilized by well-defined vinyl ether star polymers: reusable and durable catalysts for aerobic alcohol oxidation. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12060-1	16.4	192
173	Size effect on the catalysis of gold clusters dispersed in water for aerobic oxidation of alcohol. <i>Chemical Physics Letters</i> , <b>2006</b> , 429, 528-532	2.5	175
172	Aerobic oxidations catalyzed by colloidal nanogold. <i>Chemistry - an Asian Journal</i> , <b>2011</b> , 6, 736-48	4.5	155
171	Synthesis of Sumanene and Related Buckybowls. <i>Chemistry Letters</i> , <b>2011</b> , 40, 122-128	1.7	148
170	Enantioselective synthesis of a chiral nitrogen-doped bucky bowl. <i>Nature Communications</i> , <b>2012</b> , 3, 891	17.4	143
169	Effect of Ag-Doping on the Catalytic Activity of Polymer-Stabilized Au Clusters in Aerobic Oxidation of Alcohol. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 4885-4888	3.8	137
168	Figuration of bowl-shaped $\pi$ -conjugated molecules: properties and functions. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 635-661	7.8	133
167	Low-temperature carbon-chlorine bond activation by bimetallic gold/palladium alloy nanoclusters: an application to Ullmann coupling. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 20250-3	16.4	119
166	Asymmetric synthesis of a chiral bucky bowl, trimethylsumanene. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 8592-3	16.4	115
165	Electronic properties of trifluoromethylated corannulenes. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 11385-8	16.4	99
164	Oxidative homo-coupling of potassium aryltrifluoroborates catalyzed by gold nanocluster under aerobic conditions. <i>Journal of Organometallic Chemistry</i> , <b>2007</b> , 692, 368-374	2.3	89

163	Trimethylsumanene: Enantioselective Synthesis, Substituent Effect on Bowl Structure, Inversion Energy, and Electron Conductivity. <i>Bulletin of the Chemical Society of Japan</i> , <b>2012</b> , 85, 450-467	5.1	79
162	Synthetic Application of PVP-stabilized Au Nanocluster Catalyst to Aerobic Oxidation of Alcohols in Aqueous Solution under Ambient Conditions. <i>Chemistry Letters</i> , <b>2007</b> , 36, 212-213	1.7	73
161	Where to bind in buckybowls? The dilemma of a metal ion. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 3057-65	3.6	68
160	N-Formylation of Amines Catalyzed by Nanogold under Aerobic Oxidation Conditions with MeOH or Formalin. <i>Chemistry Letters</i> , <b>2010</b> , 39, 1174-1176	1.7	60
159	Lewis Acid Character of Zero-valent Gold Nanoclusters under Aerobic Conditions: Intramolecular Hydroalkoxylation of Alkenes. <i>Chemistry Letters</i> , <b>2007</b> , 36, 646-647	1.7	58
158	Chitosan-stabilized gold, gold-palladium, and gold-platinum nanoclusters as efficient catalysts for aerobic oxidation of alcohols. <i>Journal of Molecular Catalysis A</i> , <b>2011</b> , 341, 1-6		56
157	Experimental electron density of sumanene, a bowl-shaped fullerene fragment; comparison with the related corannulene hydrocarbon. <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 2218-22	3.9	54
156	Fluorinated and trifluoromethylated corannulenes. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 13872-80	4.8	49
155	Synthesis of bimetallic gold-silver alloy nanoclusters by simple mortar grinding. <i>Nanoscale</i> , <b>2012</b> , 4, 1280-7	4.7	49
154	Oxovanadium(v)-catalyzed oxidative biaryl synthesis from organoborate under O <sub>2</sub> . <i>Chemical Communications</i> , <b>2006</b> , 5042-4	5.8	46
153	A Hydrogen-Bonded Hexagonal Buckybowl Framework. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15294-15298	16.4	44
152	Palladium-Catalyzed Arylation of Methylene-Bridged Polyarenes: Synthesis and Structures of 9-Arylfluorene Derivatives. <i>Advanced Synthesis and Catalysis</i> , <b>2012</b> , 354, 1551-1558	5.6	44
151	Synthesis and characterization of p-phenylenediamine derivatives bearing an electron-acceptor unit. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 2754-62	4.2	44
150	Dual roles of polyhydroxy matrices in the homocoupling of arylboronic acids catalyzed by gold nanoclusters under acidic conditions. <i>Chemistry - an Asian Journal</i> , <b>2012</b> , 7, 55-9	4.5	43
149	Models for Intermediates in Metallocene-Catalyzed Alkene Polymerization: Alkene Dissociation from Cp <sub>2</sub> Zr[ $\eta$ -5-CH <sub>2</sub> Si(CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub> CHCH <sub>2</sub> ][B(C <sub>6</sub> F <sub>5</sub> ) <sub>4</sub> ]. <i>Organometallics</i> , <b>2001</b> , 20, 4262-4265	3.8	42
148	Gold Nanoclusters as a Catalyst for Intramolecular Addition of Primary Amines to Unactivated Alkenes under Aerobic Conditions. <i>Chemistry Letters</i> , <b>2010</b> , 39, 46-48	1.7	39
147	Optical Resolution of Chiral Buckybowls by Chiral HPLC. <i>Chemistry Letters</i> , <b>2010</b> , 39, 646-647	1.7	39
146	Observation of Zwitterionic d <sup>0</sup> Zirconium-Alkyl-Alkene Chelates: Models for Intermediates in Metallocene-Catalyzed Alkene Polymerizations. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 9483-9484	16.4	39

- 145 Bowl Inversion and Electronic Switching of Buckybowls on Gold. *Journal of the American Chemical Society*, **2016**, 138, 12142-9 16.4 38
- 144 C–C Bond Activation on Au/Pd Bimetallic Nanocatalysts Studied by Density Functional Theory and Genetic Algorithm Calculations. *Journal of Physical Chemistry C*, **2014**, 118, 22188-22196 3.8 38
- 143 Oxidative Coupling of Organoboron Compounds. *Asian Journal of Organic Chemistry*, **2014**, 3, 668-684 3 37
- 142 Aerobic oxidation of methanol to formic acid on Au<sub>20</sub>: a theoretical study on the reaction mechanism. *Physical Chemistry Chemical Physics*, **2012**, 14, 3103-11 3.6 37
- 141 Aerobic Oxygenation of Benzylic Ketones Promoted by a Gold Nanocluster Catalyst. *Synlett*, **2009**, 2009, 245-248 2.2 37
- 140 Synthesis of an Enantiopure syn-Benzocyclotrimer through Regio-selective Cyclotrimerization of a Halonorbornene Derivative under Palladium Nanocluster Conditions. *Chemistry Letters*, **2007**, 36, 18-19 1.7 37
- 139 Bimetallic gold-palladium alloy nanoclusters: an effective catalyst for Ullmann coupling of chloropyridines under ambient conditions. *Catalysis Science and Technology*, **2013**, 3, 3030 5.5 35
- 138 The impact of basis set superposition error on the structure of  $\pi$ -dimers. *International Journal of Quantum Chemistry*, **2011**, 111, 1893-1901 2.1 34
- 137 Stereoselective cyclotrimerization of enantiopure iodonorbornenes catalyzed by Pd nanoclusters for C(3) or C(3v) symmetric syn-tris(norborneno)benzenes. *Journal of Organic Chemistry*, **2010**, 75, 4626-8 4.2 34
- 136 Hexathioalkyl sumanenes: an electron-donating buckybowl as a building block for supramolecular materials. *Chemical Science*, **2017**, 8, 8405-8410 9.4 33
- 135 Elektronische Eigenschaften trifluormethylierter Corannulene. *Angewandte Chemie*, **2012**, 124, 11548-11551 3.5 31
- 134 Catalytic activity of gold nanoclusters in intramolecular hydroamination of alkenes and alkynes with toluenesulfonamide under aerobic and basic conditions. *Journal of Organometallic Chemistry*, **2011**, 696, 442-449 2.3 31
- 133 Triazasumanene: An Isoelectronic Heteroanalogue of Sumanene. *Bulletin of the Chemical Society of Japan*, **2018**, 91, 531-537 5.1 30
- 132 Stereoelectronic effect of curved aromatic structures: favoring the unexpected endo conformation of benzylic-substituted sumanene. *Angewandte Chemie - International Edition*, **2013**, 52, 7314-6 16.4 30
- 131 Synthesis of Substituted Sumanenes by Aromatic Electrophilic Substitution Reactions. *Chemistry Letters*, **2013**, 42, 386-388 1.7 30
- 130 Preparation of C(3)-symmetric homochiral syn-trisnorbornabenzenes through regioselective cyclotrimerization of enantiopure iodonorbornenes. *Chemistry - an Asian Journal*, **2009**, 4, 1329-37 4.5 30
- 129 Palladium Catalyzed Coupling Reaction of Acylchromate Complexes and Allylic Bromides. *Chemistry Letters*, **1999**, 28, 309-310 1.7 30
- 128 Size-Controlled Synthesis of Gold Clusters as Efficient Catalysts for Aerobic Oxidation. *Catalysis Surveys From Asia*, **2011**, 15, 230-239 2.8 29

127	The synthesis of hexafluorosumanene and its congeners. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 3282-48	4.8	28
126	Bimetallic AuPd Nanocluster Catalysts with Controlled Atomic Gold Distribution for Oxidative Dehydrogenation of Tetralin. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 26776-26783	3.8	27
125	Oxovanadium(V)-induced oxidative ligand coupling of aryltrimethylzincates prepared from bromoarenes and dilithium tetramethylzincate. <i>Journal of Organic Chemistry</i> , <b>2001</b> , 66, 300-2	4.2	27
124	Synthesis of Triaryltriazasumanenes. <i>Chemistry Letters</i> , <b>2017</b> , 46, 146-148	1.7	25
123	Correlation between bowl-inversion energy and bowl depth in substituted sumanenes. <i>Pure and Applied Chemistry</i> , <b>2014</b> , 86, 747-753	2.1	25
122	Gold/Palladium Bimetallic Alloy Nanoclusters Stabilized by Chitosan as Highly Efficient and Selective Catalysts for Homocoupling of Arylboronic Acid. <i>Australian Journal of Chemistry</i> , <b>2012</b> , 65, 1238	1.2	25
121	Intramolecular Addition of Toluenesulfonamide to Unactivated Alkenes Catalyzed by Gold Nanoclusters under Aerobic Conditions. <i>Chemistry Letters</i> , <b>2009</b> , 38, 908-909	1.7	25
120	Synthesis and characterization of p-phenylenediamine derivatives bearing a thiadiazole unit. <i>Tetrahedron Letters</i> , <b>2002</b> , 43, 9009-9013	2	25
119	Universality of the giant Seebeck effect in organic small molecules. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 1276-1283	7.8	24
118	Structure, Interaction, and Dynamics of Au/Pd Bimetallic Nanoalloys Dispersed in Aqueous Ethylpyrrolidone, a Monomeric Moiety of Polyvinylpyrrolidone. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 17454-17464	3.8	24
117	The Impact of the Polymer Chain Length on the Catalytic Activity of Poly(N-vinyl-2-pyrrolidone)-supported Gold Nanoclusters. <i>Scientific Reports</i> , <b>2017</b> , 7, 9579	4.9	24
116	Selective Synthesis of C3 Symmetric Functionalized Sumanenes. <i>Chemistry Letters</i> , <b>2012</b> , 41, 84-86	1.7	24
115	Tris(2-hydroxyphenyl)triazasumanene: bowl-shaped excited-state intramolecular proton transfer (ESIPT) fluorophore coupled with aggregation-induced enhanced emission (AIEE). <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 514-519	7.8	23
114	Synthesis of a Bis(boronate) Compound Having Indacene Framework and Its Property as a Host Molecule for Dimethylaminopyridine. <i>Bulletin of the Chemical Society of Japan</i> , <b>1996</b> , 69, 2585-2594	5.1	23
113	Gold and gold/palladium/poly(1-vinylpyrrolidin-2-one) nanoclusters as quasi-homogeneous catalyst for aerobic oxidation of glycerol. <i>Tetrahedron Letters</i> , <b>2011</b> , 52, 2633-2637	2	22
112	New tridentate cyclometalated platinum(II) and palladium(II) complexes of N,2-diphenyl-8-quinolinamine: syntheses, crystal structures, and photophysical properties. <i>Tetrahedron Letters</i> , <b>2005</b> , 46, 8419-8422	2	22
111	Palladium-Catalyzed Synthesis of $\beta$ -Diketones from Acylchromates, Iodoarenes, and Carbon Monoxide. <i>Chemistry Letters</i> , <b>2000</b> , 29, 168-169	1.7	22
110	Oxovanadium(V)-induced vicinal dialkylation of cyclic enones with organozinc compounds. <i>Organic Letters</i> , <b>2000</b> , 2, 3659-61	6.2	22

109	Mechanism of the Aerobic Homocoupling of Phenylboronic Acid on Au <sub>8</sub> : A DFT Study. <i>Chemistry - an Asian Journal</i> , <b>2015</b> , 10, 2397-403	4.5	21
108	Aryl iodides as strong inhibitors in gold and gold-based bimetallic quasi-homogeneous catalysis. <i>Chemical Communications</i> , <b>2013</b> , 49, 2542-4	5.8	21
107	A Novel Rearrangement of Chromium Allyloxy(aryl)carbene Complexes Catalyzed by Pd(0). <i>Chemistry Letters</i> , <b>1999</b> , 28, 75-76	1.7	20
106	Significant stabilization of palladium by gold in the bimetallic nanocatalyst leading to an enhanced activity in the hydrodechlorination of aryl chlorides. <i>Chemical Communications</i> , <b>2015</b> , 51, 12724-7	5.8	19
105	Anomalous Efficacy of Bimetallic Au/Pd Nanoclusters in C-Cl Bond Activation and Formal Metathesis-type C-B Bond Activation at Room Temperature. <i>Chemistry Letters</i> , <b>2012</b> , 41, 630-632	1.7	19
104	Mechanism of the aerobic oxidation of methanol to formic acid on Au <sub>8</sub> : A DFT study. <i>International Journal of Quantum Chemistry</i> , <b>2013</b> , 113, 428-436	2.1	17
103	N-Type Superconductivity in an Organic Mott Insulator Induced by Light-Driven Electron-Doping. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606833	24	17
102	Aerobic oxygenation of phenylboronic acid promoted by thiol derivatives under gold-free conditions: a warning against gold nanoparticle catalysis. <i>Tetrahedron Letters</i> , <b>2012</b> , 53, 6104-6106	2	16
101	Emission amplification by sumanene nanocrystals in an onigiri-type organic-organic assembly. <i>Chemical Communications</i> , <b>2012</b> , 48, 9050-2	5.8	16
100	Synthesis and oxidation of (benzimidazolylidene)Cr(CO) <sub>5</sub> complexes. <i>Journal of Organometallic Chemistry</i> , <b>2005</b> , 690, 1750-1755	2.3	16
99	Double Acylation of Alkenes with Acylchromates Promoted by Cationic Pd(II) Complex. <i>Chemistry Letters</i> , <b>2000</b> , 29, 174-175	1.7	16
98	Sumanenylferrocenes and their solid state self-assembly. <i>Dalton Transactions</i> , <b>2013</b> , 42, 13809-12	4.3	15
97	Synthesis of a C <sub>70</sub> Fragment Buckybowl C <sub>28</sub> H <sub>14</sub> from a C <sub>60</sub> Fragment Sumanene. <i>Chemistry Letters</i> , <b>2017</b> , 46, 1556-1559	1.7	15
96	2,3,5,6,8,9-Hexabromosumanene: Synthesis and Its Application to Suzuki-Miyaura Cross-coupling. <i>Chemistry Letters</i> , <b>2017</b> , 46, 1368-1371	1.7	15
95	Formal Lewis acidic character of gold nanocluster catalyst. <i>Pure and Applied Chemistry</i> , <b>2010</b> , 82, 2005-2016	2.1	15
94	Mechanism of Ullmann Coupling Reaction of Chloroarene on Au/Pd Alloy Nanocluster: A DFT Study. <i>Organometallics</i> , <b>2016</b> , 35, 1192-1201	3.8	15
93	Eclipsed Columnar Packing in Crystal Structure of Sumanenetrione. <i>Chemistry Letters</i> , <b>2014</b> , 43, 1294-1296	2.1	14
92	Addition-versus-Oxygenative Cleavage: Two Contradictory Reactivities in the Reaction of N-Benzyl-4-pentenylamine Catalyzed by Colloidal Nanogold under Aerobic Conditions. <i>Chemistry Letters</i> , <b>2012</b> , 41, 1328-1330	1.7	14

91	Magnetically recoverable magnetite/gold catalyst stabilized by poly(N-vinyl-2-pyrrolidone) for aerobic oxidation of alcohols. <i>Molecules</i> , <b>2010</b> , 16, 149-61	4.8	14
90	Iridium(III) Complexes Bearing Quinoxaline Ligands with Efficient Red Luminescence Properties. <i>Bulletin of the Chemical Society of Japan</i> , <b>2007</b> , 80, 783-788	5.1	14
89	Bissilyl Ketone; A Convenient Method for the Synthesis and Its Pd(0) Catalyzed Reaction with Alkenes and Alkynes. <i>Chemistry Letters</i> , <b>1996</b> , 25, 841-842	1.7	14
88	Sumanene derivatives functionalized at the internal carbon. <i>Chemical Communications</i> , <b>2017</b> , 53, 697-700	3.8	13
87	Formation of a Large Confined Spherical Space with a Small Aperture Using Flexible Hexasubstituted Sumanene. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 18099-18103	16.4	13
86	DFT Studies of Mechanism and Origin of Stereoselectivity of Palladium-Catalyzed Cyclotrimerization Reactions Affording syn-Tris(norborneno)benzenes. <i>Organometallics</i> , <b>2014</b> , 33, 3060-3068	3.8	13
85	Synthesis of Re(I) complexes bearing tridentate 2,6-bis(7?-azaindolyl)phenyl ligand with green emission properties. <i>Journal of Organometallic Chemistry</i> , <b>2004</b> , 689, 1665-1674	2.3	13
84	Oxidation of benzylsilanes and benzyltins by oxovanadium(V) compound and molecular oxygen. <i>Tetrahedron</i> , <b>2001</b> , 57, 5073-5079	2.4	13
83	Site-selective cation-π interaction as a way of selective recognition of the caesium cation using sumanene-functionalized ferrocenes. <i>Dalton Transactions</i> , <b>2019</b> , 48, 17147-17152	4.3	13
82	Anisotropic Contraction of a Polyaromatic Capsule and Its Cavity-Induced Compression Effect. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 9599-9603	16.4	12
81	Tris(ferrocenylmethidene)sumanene: synthesis, photophysical properties and applications for efficient caesium cation recognition in water. <i>Dalton Transactions</i> , <b>2020</b> , 49, 9965-9971	4.3	12
80	Columnar/herringbone dual crystal packing of pyrenylsumanene and its photophysical properties. <i>Beilstein Journal of Organic Chemistry</i> , <b>2014</b> , 10, 841-7	2.5	12
79	Partially Fluoride-Substituted Hydroxyapatite as a Suitable Support for the Gold-Catalyzed Homocoupling of Phenylboronic Acid: An Example of Interface Modification. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2998-3003	13.1	11
78	A Hydrogen-Bonded Hexagonal Buckybowl Framework. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15496-15500	3.6	11
77	Synthesis of Hydroxysumanene and Substituent Effect of Hydroxy Group on Bowl Inversion Dynamics and Electronic Structure. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 11978-11981	4.2	11
76	Aerobic Oxidation of Cyclic Amines to Lactams Catalyzed by PVP-Stabilized Nanogold. <i>Synlett</i> , <b>2011</b> , 2011, 1121-1124	2.2	11
75	Chiral phenylazomethine cage. <i>Tetrahedron Letters</i> , <b>2012</b> , 53, 783-785	2	10
74	Gold/Palladium Alloy for Carbon-Halogen Bond Activation: An Unprecedented Halide Dependence. <i>Chemistry - an Asian Journal</i> , <b>2015</b> , 10, 2669-76	4.5	10

73	Sequential double C-H functionalization of 2,5-norbornadiene in flow. <i>Reaction Chemistry and Engineering</i> , <b>2018</b> , 3, 635-639	4.9	9
72	Molecular Packing and Solid-State Photophysical Properties of 1,3,6,8-Tetraalkylpyrenes. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 14817-14825	4.8	9
71	Synthesis of Aromatic Polyketones Bearing 1,1'-Binaphthyl-2,2'-dioxy Units through Suzuki-Miyaura Coupling Polymerization. <i>Chemistry Letters</i> , <b>2011</b> , 40, 1445-1446	1.7	9
70	Oxidation of benzyltins by oxovanadium(V) compound and molecular oxygen. <i>Tetrahedron Letters</i> , <b>2001</b> , 42, 1961-1963	2	9
69	Infrared spectrum of hydrogenated corannulene rim-HCH isolated in solid para-hydrogen. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 044304	3.9	8
68	Dual roles of cellulose monolith in the continuous-flow generation and support of gold nanoparticles for green catalyst. <i>Carbohydrate Polymers</i> , <b>2020</b> , 247, 116723	10.3	8
67	Reductive esterification of aromatic aldehydes using Zn/Ac <sub>2</sub> O/imidazole or Zn/Yb(OTf) <sub>3</sub> /(RCO) <sub>2</sub> O system. <i>Tetrahedron</i> , <b>2003</b> , 59, 10147-10152	2.4	8
66	Oxidative Ligand Coupling of Tetraarylborates Promoted by Chlorosilane and Molecular Oxygen. <i>Chemistry Letters</i> , <b>2001</b> , 30, 1084-1085	1.7	8
65	Electronic and vibrational structures in the S and S states of coronene. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 044309	3.9	7
64	Size-Controlled Preparation of Gold Nanoclusters on Hydroxyapatite Through Trans-Deposition Method. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 4649-4657	1.3	7
63	Excimer Formation of Aryl Iodides Chemisorbed on Gold Nanoparticles for the Significant Enhancement of Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1199-1203	6.4	7
62	Synthesis of thermally stable, wholly aromatic polyketones with 2,2'-dimethoxy-1,1'-binaphthyl-6,6'-diyl units through nanosized-palladium-cluster-catalyzed Suzuki-Miyaura coupling polymerization. <i>Reactive and Functional Polymers</i> , <b>2014</b> , 79, 24-28	4.6	7
61	Nanosized palladium-catalyzed Suzuki-Miyaura coupling polymerization: synthesis of soluble aromatic poly(ether ketone)s. <i>Polymer Journal</i> , <b>2013</b> , 45, 401-405	2.7	7
60	Size-controlled preparation of gold nanoclusters stabilized by high-viscosity hydrophilic polymers using a microflow reactor. <i>Monatshefte für Chemie</i> , <b>2014</b> , 145, 23-28	1.4	7
59	Preparation of <i>o</i> -Acylphenol Derivatives by the Reaction of Tricarbonyl(cyclohexadienone)iron Complex and Higher Order Cuprates. <i>Chemistry Letters</i> , <b>1997</b> , 26, 699-700	1.7	7
58	Generation of "Sumanenylidene": A Ground-State Triplet Carbene on a Curved $\pi$ -Conjugated Periphery. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 1844-1848	4.5	6
57	Thermoelectric and Thermal Transport Properties in Sumanene Crystals. <i>Chemistry Letters</i> , <b>2018</b> , 47, 524-527	1.7	6
56	Intramolecular Hydroamination by a Primary Amine of an Unactivated Alkene on Gold Nanoclusters: A DFT Study. <i>ChemCatChem</i> , <b>2017</b> , 9, 4490-4500	5.2	6



55	Stereoelectronic Effect of Curved Aromatic Structures: Favoring the Unexpected endo Conformation of Benzylic-Substituted Sumanene. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 7455-7457	3.6	6
54	Jet spectroscopy of buckybowls: electronic and vibrational structures in the S0 and S1 states of triphenylene and sumanene. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 044313	3.9	6
53	Crystal Structure and Complexation Behavior of Quinonediimine Bearing Thiadiazole Unit. <i>Heterocycles</i> , <b>2006</b> , 68, 829	0.8	6
52	The Dawn of Sumanene Chemistry: My Personal History with EFiguration. <i>Bulletin of the Chemical Society of Japan</i> , <b>2021</b> , 94, 1579-1587	5.1	6
51	Disaggregation of a sumanene-containing fluorescent probe towards highly sensitive and specific detection of caesium cations. <i>Chemical Communications</i> , <b>2021</b> , 57, 343-346	5.8	6
50	A Sumanene-based Aryne, Bumanyne. <i>Chemistry Letters</i> , <b>2017</b> , 46, 446-448	1.7	5
49	Dielectric and Sorption Responses of Hydrogen-Bonding Network of Amorphous C60(OH)12 and C60(OH)36. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 23545-23553	3.8	5
48	Synthesis of organosoluble and fluorescent aromatic polyketones bearing 1,1'-binaphthyl units through Suzuki-Miyaura coupling polymerization. <i>Polymer Bulletin</i> , <b>2015</b> , 72, 2903-2916	2.4	5
47	Control by one drop of solvent: selective preparation of guest release/trap-triggered interconvertible molecular crystals. <i>Chemical Communications</i> , <b>2020</b> , 56, 9687-9690	5.8	5
46	Time-Dependent Density Functional Theory Investigation of Excited State Intramolecular Proton Transfer in Tris(2-hydroxyphenyl)triazasumanene. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 1227-1234	2.8	5
45	Molecular Arrangements of Corannulene and Sumanene in Single-Walled Carbon Nanotubes. <i>ChemNanoMat</i> , <b>2018</b> , 4, 557-561	3.5	5
44	Sumanenetrione Anions Generated by Electrochemical and Chemical Reduction. <i>Chemistry Letters</i> , <b>2014</b> , 43, 1297-1299	1.7	5
43	Magnetic circular dichroism spectroscopy and electronic structures of C3 symmetry buckybowls. <i>Chemical Physics Letters</i> , <b>2013</b> , 556, 188-194	2.5	5
42	Gold/Palladium Bimetallic Nanoclusters for C-X Bond Activation: A Unique Effect of Gold. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , <b>2015</b> , 73, 1130-1140	0.2	5
41	Lewis acid-mediated Suzuki-Miyaura cross-coupling reaction. <i>Nature Catalysis</i> , <b>2021</b> , 4, 1080-1088	36.5	5
40	Fe, Ru, and Os complexes with the same molecular framework: comparison of structures, properties and catalytic activities. <i>Faraday Discussions</i> , <b>2017</b> , 198, 181-196	3.6	4
39	Internal-peripheral Diosmylation of Sumanene Overcoming the Dearomatization Hurdle by the Distortion of the Curved ESystem. <i>Chemistry Letters</i> , <b>2018</b> , 47, 736-739	1.7	4
38	Investigation of the Dynamic Behavior of Bisumanenyl. <i>Asian Journal of Organic Chemistry</i> , <b>2015</b> , 4, 62-68		4

37	Anti-addition mechanism in the intramolecular hydroalkoxylation of alkenes catalyzed by PVP-stabilized nanogold. <i>Molecules</i> , <b>2012</b> , 17, 2579-86	4.8	4
36	Facile Synthesis of 2,3-Disubstituted Quinoxalines by Suzuki-Miyaura Coupling. <i>Synthesis</i> , <b>2004</b> , 2004, 2535-2539	2.9	4
35	TiCl <sub>4</sub> -Zn Induced Reductive Acylation of Ketones with Acylsilanes. <i>Chemistry Letters</i> , <b>2002</b> , 31, 44-45	1.7	4
34	One-Pot Synthesis of Unsymmetrical Ketones by the Reaction of Decacarbonyldimanganese with Two Kinds of Alkylolithiums. <i>Bulletin of the Chemical Society of Japan</i> , <b>1996</b> , 69, 157-161	5.1	4
33	Two-way correspondence between carbon nanotubes and caps: Development of a numerical algorithm and a tool for organic cap synthesis. <i>Carbon</i> , <b>2017</b> , 116, 678-685	10.4	3
32	Nucleophilic Substitution at the Internal Carbon of Sumanene Framework with Inversion of Configuration. <i>Chemistry Letters</i> , <b>2018</b> , 47, 878-880	1.7	3
31	Synthesis and Characterization of Poly(arylene vinylene ketone)s Bearing 1,1'-Binaphthylene Units through Mizoroki-Eleck Coupling Polymerization. <i>Chemistry Letters</i> , <b>2015</b> , 44, 1780-1782	1.7	3
30	Beam-induced graphitic carbon cage transformation from sumanene aggregates. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 043107	3.4	3
29	Novel Zn/ZnI <sub>2</sub> -promoted cross-coupling of acrylic acid esters with arylaldehydes to alpha-aryladipic acid esters. <i>Chemical Communications</i> , <b>2002</b> , 3048-9	5.8	3
28	Electronic and vibrational structure in the S and S states of corannulene. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 234305	3.9	3
27	Theoretical study on the molecular stacking interactions and charge transport properties of triazasumanene crystals - from explanation to prediction. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 4681-4689	3.6	3
26	Liquid Phase Pulsed Laser Ablation on Pyrite. <i>Chemistry Letters</i> , <b>2019</b> , 48, 712-714	1.7	2
25	Synthesis of C-fragment buckybawls bearing alkoxy substituents. <i>Beilstein Journal of Organic Chemistry</i> , <b>2020</b> , 16, 681-690	2.5	2
24	Pt-Pd Nanoalloy for the Unprecedented Activation of Carbon-Fluorine Bond at Low Temperature. <i>Bulletin of the Chemical Society of Japan</i> , <b>2020</b> , 93, 1180-1185	5.1	2
23	Gold Nanoparticles Stabilized by Molecular Fullerenols. <i>ChemNanoMat</i> , <b>2020</b> , 6, 524-528	3.5	2
22	Synthesis and Dimerization Properties of Cup- and Bowl-shaped Cyclic Trilactams. <i>Asian Journal of Organic Chemistry</i> , <b>2020</b> , 9, 947-952	3	2
21	Intra- and Intermolecular Reactivity of Triplet Sumanenetrione. <i>Bulletin of the Chemical Society of Japan</i> , <b>2015</b> , 88, 1612-1617	5.1	2
20	Theoretical Study on Singlet Fission Dynamics in Sumanene-Fused Acene Dimers. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 19499-19507	3.8	2

19	Application of cup-shaped trilactams for selective extraction of volatile compounds by gas chromatography-mass spectrometry. <i>Analyst, The</i> , <b>2020</b> , 145, 6668-6676	5	2
18	Size-Controlled Preparation of Gold Nanoparticles Deposited on Surface-Fibrillated Cellulose Obtained by Citric Acid Modification. <i>ACS Omega</i> , <b>2020</b> , 5, 33206-33213	3.9	2
17	Thermal stability, solubility, and fluorescence property of poly(arylene vinylene ketone)s bearing 1,1'-binaphthylene units. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 100, 123-129	4.6	2
16	Synthesis of the C Fragment Buckybowl, Homosumanene, and Heterahomosumanenes via Ring-Expansion Reactions from Sumanenone.. <i>Journal of Organic Chemistry</i> , <b>2022</b> ,	4.2	2
15	Sumanene Hexaester: An Electron-Deficient Buckybowl. <i>Synthesis</i> , <b>2019</b> , 51, 4576-4581	2.9	1
14	Microwave-assisted synthesis of methyl (1S,2R,4S,5S)-7-aza-5-hydroxybicyclo[2.2.1]heptane-2-carboxylate through unexpected stereoselective substitution reaction. <i>Tetrahedron Letters</i> , <b>2012</b> , 53, 3710-3712	2	1
13	Cyclization of O-Pentafluorobenzoyloxime Having (diene)Fe(CO) <sub>3</sub> Moiety. <i>Chemistry Letters</i> , <b>2000</b> , 29, 508-509	1.7	1
12	Catalytic Activity of Gold Nanocluster Catalyst Protected by Poly (N-vinyl 2-pyrrolidone). <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , <b>2009</b> , 67, 517-528	0.2	1
11	Selective Oxidative Hydroxylation of Arylboronic Acids by Colloidal Nanogold Catalyzed In Situ Generation of H <sub>2</sub> O <sub>2</sub> from Alcohols under Aerobic Conditions. <i>Bulletin of the Chemical Society of Japan</i> , <b>2020</b> , 93, 299-301	5.1	1
10	Pyridine Ring Modification of Indane-1,3-dione Dimers for Control of their Crystal Structure. <i>Asian Journal of Organic Chemistry</i> , <b>2021</b> , 10, 2690	3	1
9	dl-Selective Pinacol-Type Coupling Using Zinc, Chlorosilane, and Catalytic Amounts of Cp <sub>2</sub> VCl <sub>2</sub> ; dl-1,2-dicyclohexylethanol <b>2005</b> , 26-32		1
8	Growing Buckybowl Chemistry <b>2015</b> , 61-84		0
7	Synthesis and Pyrolysis of Fullerenol-stabilized Pt Nanocolloids as a unique Approach to Pt-doped Carbon. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 2280-2285	4.5	0
6	Volcano-type correlation between particle size and catalytic activity on hydrodechlorination catalyzed by AuPd nanoalloy. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 1496-1501	5.1	0
5	Chiral Sumanene, Triazasumanene, and Related Buckybowls <b>2015</b> , 91-106		
4	Total Synthesis of C <sub>60</sub> <b>2021</b> , 1-35		
3	Tris[2-(deuteriomethyl-sulfanyl)-phenyl]-phosphine deuteriochloroform 0.125-solvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2008</b> , 64, o898		
2	Intramolecular Hydroamination by a Primary Amine of an Unactivated Alkene on Gold Nanoclusters: A DFT Study. <i>ChemCatChem</i> , <b>2017</b> , 9, 4450-4450	5.2	

- 1 Infrared spectra of protonated and hydrogenated corannulene (C<sub>20</sub>H<sub>10</sub>) and sumanene (C<sub>21</sub>H<sub>12</sub>) using matrix isolation in solid para-hydrogen ¶ Implications for the UIR bands. *Proceedings of the International Astronomical Union*, **2019**, 15, 358-360 0.1