

Toru Amaya

List of Publications by Year in Descending Order

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

110 papers	2,510 citations	27 h-index	46 g-index
143 ext. papers	2,758 ext. citations	5.5 avg, IF	5.22 L-index

#	Paper	IF	Citations
110	Overlooked Factors Required for Electrolyte Solvents in Li-O ₂ Battery: Capabilities of Quenching O ₂ and Forming Highly-decomposable Li ₂ O ₂ . <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	4
109	Relevant synthesis to manipulating non-planarity in dibenzo[g,p]chrysene: Substitution reactions at the bay. <i>Tetrahedron Letters</i> , 2022 , 153664	2	0
108	Chemo- and regioselective cross-dehydrogenative coupling reaction of 3-hydroxycarbazoles with arenols catalyzed by a mesoporous silica-supported oxovanadium.. <i>RSC Advances</i> , 2021 , 11, 35342-35350	3.7	2
107	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
106	Solution-Processable Multi-Substituted Buckybowls: Synthesis of Diindeno(1,2,3,4-defg:1',2',3',4'-lmnop)chrysene Derivatives. <i>European Journal of Organic Chemistry</i> , 2021 , 2021, 5343	3.2	1
105	Pyrolysis of Iron-Containing Polyanilines under Micropore Generation Control: Electrocatalytic Performance in the Oxygen Reduction Reaction. <i>ChemPlusChem</i> , 2020 , 85, 1964-1967	2.8	1
104	Chiral cyclic [3]spirobifluorenylenes: carbon nanorings consisting of helically arranged quaterphenyl rods illustrating partial units of woven patterns. <i>Chemical Science</i> , 2020 , 11, 9604-9610	9.4	8
103	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
102	Synthesis of a sumanenyl hafnocene complex. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 1032-1037	5.2	2
101	Recent advances in Gomberg-Backmann biaryl synthesis. <i>Tetrahedron Letters</i> , 2019 , 60, 151062	2	14
100	Linear [3]Spirobifluorenylene: An S-Shaped Molecular Geometry of -Oligophenyls. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18238-18245	16.4	27
99	Synthesis of self-doped polyaniline bearing phosphonic acid moiety via Pd-catalyzed phosphonation of poly(2-bromoaniline). <i>Tetrahedron Letters</i> , 2018 , 59, 1715-1718	2	1
98	Synthesis and Isomerization Behavior of a Macrocyclic with Four Photoresponsive Moieties. <i>Organic Letters</i> , 2018 , 20, 2055-2058	6.2	2
97	Electrolytic Cross-Coupling of Arenediazonium Salts and Heteroarenes. <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 1749-1751	5.1	10
96	Iron(III) nitrate-induced aerobic and catalytic oxidative cleavage of olefins. <i>Tetrahedron Letters</i> , 2018 , 59, 2657-2660	2	10
95	Polyaniline-Induced Arylation with Arenediazonium Salts Derived from Anilines. <i>Chemistry - A European Journal</i> , 2017 , 23, 7703-7709	4.8	14
94	Double Concave Cesium Encapsulation by Two Charged Sumanenyl Bowls. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2582-2587	16.4	33

93	Double Concave Cesium Encapsulation by Two Charged Sumanenyl Bowls. <i>Angewandte Chemie</i> , 2017 , 129, 2626-2631	3.6	15
92	Structural Characterization of Chirality-Organized FerroceneDipeptide Conjugates that Contain Pyridine N-Oxide Moieties. <i>Asian Journal of Organic Chemistry</i> , 2017 , 6, 1250-1256	3	3
91	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
90	Radical Ions of a Bowl Sumanene: Effects of Strained Structure on the Electronic Transitions. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 4902-4906	2.8	1
89	Development of Self-Doped Conducting Polyaniline Bearing Phosphonic Acid Moiety. <i>Kobunshi Ronbunshu</i> , 2017 , 74, 473-481	0	1
88	Syntheses, Properties, and Catalytic Activities of Metal(II) Complexes and Free Bases of Redox-Switchable 20 π 19 π and 18 π ,10,15,20-Tetraaryl-5,15-diazaporphyrinoids. <i>Chemistry - A European Journal</i> , 2017 , 23, 16364-16373	4.8	26
87	Synthesis of phosphonic acid ring-substituted polyanilines via direct phosphonation to polymer main chains. <i>RSC Advances</i> , 2017 , 7, 39306-39313	3.7	15
86	Crown Ether Assisted Convex Cesium Binding to a Sumanenyl Bowl. <i>Organometallics</i> , 2017 , 36, 4961-4967	3.8	8
85	Chemistry of Bowl-shaped Conjugated Molecule Sumanene. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2017 , 75, 659-670	0.2	
84	Bowl-to-Bowl Inversion Accelerated by the Introduction of Bulky 1,1,4,4-Tetramethylbutane-1,4-diyl Groups on Sumanene. <i>Synlett</i> , 2016 , 27, 2128-2132	2.2	4
83	Synthesis of oxindoles via reductive CO ₂ fixation. <i>Organic Chemistry Frontiers</i> , 2016 , 3, 929-933	5.2	6
82	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
81	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
80	Palladium(II)-Catalyzed Dehydroboration via Generation of Boron Enolates. <i>Chemistry - A European Journal</i> , 2016 , 22, 18686-18689	4.8	15
79	Construction of a hemifullerene skeleton: a regioselective intramolecular oxidative cyclization. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5483-7	16.4	31
78	Selective Intermolecular Oxidative Cross-Coupling of Enolates. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10072-5	16.4	39
77	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
76	Regioselective functionalization of sumanene. <i>Tetrahedron</i> , 2015 , 71, 5906-5909	2.4	6

75	Construction of a Hemifullerene Skeleton: A Regioselective Intramolecular Oxidative Cyclization. <i>Angewandte Chemie</i> , 2015 , 127, 5573-5577	3.6	12
74	Investigation of thresholds in laser-induced carbonization of sumanene derivatives through in situ observation utilizing a Raman spectroscope. <i>RSC Advances</i> , 2015 , 5, 18523-18530	3.7	5
73	Chemistry of sumanene. <i>Chemical Record</i> , 2015 , 15, 310-21	6.6	87
72	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
71	Polyaniline-Induced C-H Arylation of Arenes with Arenediazonium Salts. <i>Chemistry - A European Journal</i> , 2015 , 21, 16427-33	4.8	19
70	Hybrid Systems Consisting of Redox-Active π Conjugated Polymers and Transition Metals or Nanoparticles. <i>Green Chemistry and Sustainable Technology</i> , 2015 , 497-511	1.1	
69	Investigation of the Dynamic Behavior of Bisumanenyl. <i>Asian Journal of Organic Chemistry</i> , 2015 , 4, 62-68	3.8	4
68	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
67	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
66	π Conjugated Systems with Coenzyme PQQ, Polyanilines or Quinonediimines, and Sumanene 2015 , 51-109		3
65	Synthetic Methods for Redox Reactions Using Phosphorus, Vanadium and Samarium Compounds 2015 , 5-50		0
64	Synthesis and Characterization of Bisumanenylidene. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 3531-3535	3.2	8
63	Synthesis of heterodinuclear hemisalen complexes on a hexaarylbenzene scaffold and their application for the cross-pinacol coupling reaction. <i>Chemistry - A European Journal</i> , 2014 , 20, 1615-21	4.8	14
62	Oxovanadium(V)-induced diastereoselective oxidative homocoupling of boron enolates. <i>Chemical Communications</i> , 2014 , 50, 2279-81	5.8	16
61	Deprotonation-Induced Efficient Delocalization of Polaron in Self-Doped Poly(anilinephosphonic acid). <i>Macromolecules</i> , 2014 , 47, 8115-8118	5.5	5
60	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
59	Characterization of self-doped conducting polyanilines bearing phosphonic acid and phosphonic acid monoester. <i>Synthetic Metals</i> , 2014 , 197, 240-245	3.6	11
58	Synthesis of self-doped conducting polyaniline bearing phosphonic acid monoester. <i>Synthetic Metals</i> , 2014 , 195, 137-140	3.6	15

57	Conductivity of poly(2-methoxyaniline-5-phosphonic acid)/amine complex and its charge dissipation property in electron beam lithography. <i>Synthetic Metals</i> , 2014 , 198, 88-92	3.6	6
56	Bowl inversion of surface-adsorbed sumanene. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13666-13671	6.41	33
55	Quinonedimine-induced oxidative coupling of organomagnesium reagents. <i>Chemistry - A European Journal</i> , 2014 , 20, 653-6	4.8	18
54	Synthesis of self-doped conducting polyaniline bearing phosphonic acid. <i>Tetrahedron Letters</i> , 2014 , 55, 3976-3978	2	25
53	Preparation of Polyaniline@Pt Nanoparticles via Ligand Exchange from Starch@Pt Nanoparticles. <i>Bulletin of the Chemical Society of Japan</i> , 2014 , 87, 1130-1132	5.1	3
52	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
51	Sumanenemonoone imines bridged by redox-active π -conjugated unit: synthesis, stepwise coordination to palladium(II), and laser-induced formation of nitrogen-doped graphitic carbon. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 2568-75	4.5	13
50	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
49	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
48	Synthesis and Characterization of Bisumanenyl. <i>Asian Journal of Organic Chemistry</i> , 2013 , 2, 642-645	3	16
47	Nitrogen-doped graphitic carbon synthesized by laser annealing of sumanenemonoone imine as a bowl-shaped π -conjugated molecule. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2569-74	4.5	16
46	Selective Cross-Dehydrogenative Coupling of N-Phenyltetrahydroisoquinolines in Aqueous Media Using Poly(Aniline Sulfonic Acid)/Gold Nanoparticles. <i>Heterocycles</i> , 2012 , 86, 927	0.8	20
45	Design and synthesis of dinuclear hemisalen complex on hexaarylbenzene scaffold. <i>Tetrahedron Letters</i> , 2012 , 53, 5589-5592	2	3
44	Gold nanoparticles catalyst with redox-active poly(aniline sulfonic acid): application in aerobic dehydrogenative oxidation of cyclic amines in aqueous solution. <i>Tetrahedron Letters</i> , 2012 , 53, 6144-6147	4.7	19
43	Bowl-to-bowl inversion of sumanene derivatives. <i>Pure and Applied Chemistry</i> , 2012 , 84, 1089-1100	2.1	27
42	A molecular bowl sumanene. <i>Chemical Communications</i> , 2011 , 47, 10524-35	5.8	180
41	Metal atom dynamics of CpFe ligated to a concave π -bowl sumanene. <i>Journal of Organometallic Chemistry</i> , 2011 , 696, 3895-3899	2.3	15
40	Sumanenes: Synthesis and Complexation 2011 , 187-203		1

39	Synthesis of oxosumanenes through benzylic oxidation. <i>Journal of Organic Chemistry</i> , 2011 , 76, 8049-52	4.2	50
38	Synthesis of three-dimensionally arranged bis-biphenol ligand on hexaaryl benzene scaffold and its application for cross-pinacol coupling reaction. <i>Tetrahedron Letters</i> , 2011 , 52, 4567-4569	2	4
37	Synthesis and Application of Redox-Active Hybrid Catalytic Systems Consisting of Polyanilines and Transition Metals. <i>Synlett</i> , 2011 , 2011, 435-448	2.2	4
36	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
35	Redox-Induced Reversible Conformational Switching of Poly(aniline sulfonic acid) with Transition Metals in Aqueous Solution. <i>Macromolecules</i> , 2010 , 43, 1175-1177	5.5	15
34	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
33	A Dynamically Inverting EBowl Complex. <i>Angewandte Chemie</i> , 2010 , 122, 413-416	3.6	22
32	A dynamically inverting pi-bowl complex. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 403-6	16.4	71
31	Transition metal-directed self-assembly of porphyrins bearing redox-active phenylenediamine pendant. <i>Tetrahedron Letters</i> , 2010 , 51, 2416-2419	2	4
30	Coordination-induced branched self-assembly of porphyrins bearing two redox-active phenylenediamine chains. <i>Tetrahedron Letters</i> , 2010 , 51, 3376-3379	2	4
29	Selective Oxidative Ligand Coupling of Organoborates Bearing an Alkynyl Group. <i>Advanced Synthesis and Catalysis</i> , 2009 , 351, 1025-1028	5.6	11
28	A Chiral Concave-Bound Cyclopentadienyl Iron Complex of Sumanene. <i>Angewandte Chemie</i> , 2009 , 121, 1668-1671	3.6	11
27	A chiral concave-bound cyclopentadienyl iron complex of sumanene. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1640-3	16.4	56
26	Redox interaction of sulfonated polyaniline with vanadium(IV) in water. <i>Tetrahedron Letters</i> , 2009 , 50, 1032-1034	2	7
25	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
24	Synthesis of highly strained pi-bowls from sumanene. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10810-1	16.4	89
23	Anisotropic electron transport properties in sumanene crystal. <i>Journal of the American Chemical Society</i> , 2009 , 131, 408-9	16.4	185
22	The electrochemical inspection of the redox activity of sumanene and its concave CpFe complex. <i>Dalton Transactions</i> , 2009 , 9192-7	4.3	30

21	A Three-Dimensionally Oriented π -Conjugated System: Synthesis of the Porphyrins Bearing Terthiophene Pendant Strands. <i>Heterocycles</i> , 2009 , 78, 2729	0.8	4
20	Bowl-to-bowl inversion of sumanene derivatives. <i>Chemical Communications</i> , 2008 , 765-7	5.8	109
19	Versatile Synthesis of Polyaniline/Pd Nanoparticles and Catalytic Application. <i>Macromolecular Symposia</i> , 2008 , 270, 88-94	0.8	19
18	Hybrid of Polyaniline/Iron Oxide Nanoparticles: Facile Preparation and Catalytic Application. <i>Chemistry Letters</i> , 2008 , 37, 68-69	1.7	17
17	Synthesis and characterization of π -extended bowl-shaped π -conjugated molecules. <i>Chemical Communications</i> , 2007 , 1902-4	5.8	67
16	A concave-bound CpFe complex of sumanene as a metal in a π bowl. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8376-9	16.4	95
15	A Concave-Bound CpFe Complex of Sumanene as a Metal in a π Bowl. <i>Angewandte Chemie</i> , 2007 , 119, 8528-8531	3.6	36
14	Template synthesis of polyaniline/Pd nanoparticle and its catalytic application. <i>Tetrahedron Letters</i> , 2007 , 48, 2729-2732	2	58
13	Oxovanadium(v)-catalyzed oxidative biaryl synthesis from organoborate under O ₂ . <i>Chemical Communications</i> , 2006 , 5042-4	5.8	46
12	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
11	Combinatorial Synthesis of Carbohydrate Cluster on Tree-Type Linker with Orthogonally Cleavable Parts. <i>Synlett</i> , 2004 , 2004, 497-502	2.2	2
10	Coencapsulation of three different guests in a cylindrical host. <i>Chemical Communications</i> , 2004 , 1802-3	5.8	16
9	Hydrogen-bonded encapsulation complexes in protic solvents. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14149-56	16.4	25
8	Steric and magnetic asymmetry distinguished by encapsulation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6216-7	16.4	28
7	Synthesis of 2,3,6-Trideoxysugar-Containing Disaccharides by Cyclization and Glycosidation through the Sequential Activation of Sulfoxide and Methylsulfanyl Groups in a One-Pot Procedure. <i>Angewandte Chemie</i> , 2003 , 115, 1877-1880	3.6	3
6	Synthesis of 2,3,6-trideoxysugar-containing disaccharides by cyclization and glycosidation through the sequential activation of sulfoxide and methylsulfanyl groups in a one-pot procedure. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1833-6	16.4	18
5	Parallel synthesis of multi-branched oligosaccharides related to elicitor active pentasaccharide in rice cell based on orthogonal deprotection and glycosylation strategy. <i>Tetrahedron Letters</i> , 2003 , 44, 3053-3057	2	28
4	Solid-Phase Synthesis of a Phytoalexin Elicitor-Active Tetraglucosyl Glucitol. <i>Synlett</i> , 2002 , 2002, 0911-0914	2.2	8

- 3 The first synthesis of tetraglucosyl glucitol having phytoalexin-elicitor activity in rice cells based on a sequential glycosylation strategy. *Tetrahedron Letters*, **2001**, 42, 9191-9194 2 9
- 2 9-Iodo-9-Borabicyclo[3.3.1]nonane1-4
- 1 Organometallic Complexes of Sumanene473-483 2