Hisanori Senboku

List of Publications by Year
in descending order

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89 papers	2,033 citations	186265 28 h-index	276875 41 g-index
126 all docs	126 docs citations	126 times ranked	1478 citing authors

#	Article	IF	Citations
1	Rhodium-Catalyzed Ring-Opening Reactions of N-Boc-Azabenzonorbornadienes with Amine Nucleophiles. Journal of the American Chemical Society, 2006, 128, 6837-6846.	13.7	141
2	Efficient Electrochemical Dicarboxylation of Phenyl-substituted Alkenes: Synthesis of 1-Phenylalkane-1,2-dicarboxylic Acids. Synlett, 2001, 2001, 0418-0420.	1.8	82
3	Electrochemical carboxylation with carbon dioxide. Current Opinion in Green and Sustainable Chemistry, 2017, 3, 50-54.	5.9	82
4	Three-component coupling reaction of benzylic halides, carbon dioxide, and N,N-dimethylformamide by using paired electrolysis: sacrificial anode-free efficient electrochemical carboxylation of benzylic halides. Tetrahedron, 2015, 71, 3850-3856.	1.9	60
5	Stereoselective Synthesis of (E)-Î²-Arylvinyl Bromides by Microwave-Induced Hunsdiecker-Type Reaction. Synthesis, 2005, 2005, 1319-1325.	2.3	58
6	Facile and stereoselective synthesis of (E)-vinyl bromides by microwave-induced reaction of 1,1-dibromoalkenes using a diethyl phosphonate/EtONa/EtOH system. Tetrahedron, 2002, 58, 1491-1496.	1.9	51
7	Preparation of Cyclic Urethanes from Amino Alcohols and Carbon Dioxide Using Ionic Liquid Catalysts with Alkali Metal Promoters. International Journal of Molecular Sciences, 2006, 7, 438-450.	4.1	51
8	Synthesis of Phenanthro[9,10â€b]indolizidinâ€9â€one, Phenanthro[9,10â€b]quinolizidinâ€9â€one, and Related Benzolactams by Pd(OAc)₂â€Catalyzed Direct Aromatic Carbonylation. European Journal of Organic Chemistry, 2009, 2009, 1173-1180.	2.4	51
9	Hg cathode-free electrochemical detosylation of N,N-disubstituted p-toluenesulfonamides: mild, efficient, and selective removal of N-tosyl group. Tetrahedron Letters, 2010, 51, 435-438.	1.4	51
10	Convenient and stereoselective synthesis of (Z)-1-bromo-1-alkenes by microwave-induced reaction. Tetrahedron Letters, 2001, 42, 3893-3896.	1.4	50
11	Synthesis of (Z)-1-bromo-1-alkenes and terminal alkynes from anti-2,3-dibromoalkanoic acids by microwave-induced reaction. Tetrahedron, 2005, 61, 4043-4052.	1.9	50
12	Development of a novel electrochemical carboxylation system using a microreactor. RSC Advances, 2015, 5, 98721-98723.	3.6	47
13	Electrochemical carboxylation of benzylic carbonates: alternative method for efficient synthesis of arylacetic acids. Tetrahedron, 2010, 66, 7732-7737.	1.9	46
14	Aryl radical cyclization with alkyne followed by tandem carboxylation in methyl 4-tert-butylbenzoate-mediated electrochemical reduction of 2-(2-propynyloxy)bromobenzenes inÂthe presence of carbon dioxide. Tetrahedron, 2016, 72, 4626-4636.	1.9	44
15	New electrochemical carboxylation of vinyl triflates. Synthesis of Î²-keto carboxylic acids. Tetrahedron Letters, 1998, 39, 1591-1594.	1.4	43
16	Facile synthesis of aryl-substituted 2-alkenoic acids by electroreductive carboxylation of vinylic bromides using a magnesium anode. Electrochimica Acta, 1997, 42, 2117-2123.	5.2	42
17	Synthesis of Isoindolobenzazepine Alkaloids Based on Radical Reactions or Pd(0)-Catalyzed Reactions. Journal of Organic Chemistry, 2009, 74, 5486-5495.	3.2	42
18	Synthesis of 2-aryl-3,3,3-trifluoropropanoic acids using electrochemical carboxylation of (1-bromo-2,2,2-trifluoroethyl)arenes and its application to the synthesis of Î²,Î²,Î²-trifluorinated non-steroidal anti-inflammatory drugs. Tetrahedron, 2010, 66, 473-479.	1.9	41

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19	Electrochemical carboxylation of Î±-chloroethylbenzene in ionic liquids compressed with carbon dioxide. Physical Chemistry Chemical Physics, 2010, 12, 1953.	2.8	41
20	Electrochemical Fixation of Carbon Dioxide: Synthesis of Carboxylic Acids. Chemical Record, 2021, 21, 2354-2374.	5.8	41
21	Electrochemical carboxylation of bicyclo[n.1.0]alkylidene derivatives. Tetrahedron, 2004, 60, 475-481.	1.9	36
22	Exclusive 1,4-aryl migration in a stereoselective cyclization of N-benzylalk-4-enylaminyl radicals. Tetrahedron Letters, 2000, 41, 5699-5703.	1.4	35
23	An in situ high pressure FTIR study on molecular interactions of ketones, esters, and amides with dense phase carbon dioxide. Journal of Supercritical Fluids, 2008, 46, 197-205.	3.2	35
24	Divergent electrochemical carboxylation of vinyl triflates: new electrochemical synthesis of phenyl-substituted Î±,Î²-unsaturated carboxylic acids and aliphatic Î²-keto carboxylic acids. Electrochimica Acta, 2000, 45, 2995-3003.	5.2	34
25	Facile Synthesis of 2,3-Dihydrobenzofuran-3-ylacetic Acids by Novel Electrochemical Sequential Aryl Radical Cyclization-Carboxylation of 2-Allyloxybromobenzenes Using Methyl 4-tert-Butylbenzoate as an Electron-Transfer Mediator. Synlett, 2011, 2011, 1567-1572.	1.8	34
26	Electrochemical fixation of CO2 to organohalides in room-temperature ionic liquids under supercritical CO2. Electrochimica Acta, 2015, 161, 212-218.	5.2	34
27	Synthesis of N-Boc-Î±-amino Acids from Carbon Dioxide by Electrochemical Carboxylation of N-Boc-Î±-aminosulfones. Journal of Organic Chemistry, 2021, 86, 16077-16083.	3.2	32
28	Electrochemical direct carboxylation of benzyl alcohols having an electron-withdrawing group on the phenyl ring: one-step formation of phenylacetic acids from benzyl alcohols under mild conditions. Tetrahedron Letters, 2015, 56, 6772-6776.	1.4	31
29	Stereoselective synthesis of (E)-Î²-arylvinyl bromides by microwave-induced reaction of anti-3-aryl-2,3-dibromopropanoic acids using an AgOAcâ€“AcOH system. Tetrahedron, 2005, 61, 637-642.	1.9	30
30	Some mechanistic studies on electrochemical carboxylation of flavones to yield flavanone-2-carboxylic acids. Electrochimica Acta, 2012, 82, 450-456.	5.2	28
31	Stereospecific Electrochemical Carboxylation of Î²-Bromostyrene by Use of Nickel(II) Catalyst. Chemistry Letters, 2005, 34, 528-529.	1.3	27
32	Integrated Flow Synthesis of Î±-Amino Acids by In Situ Generation of Aldimines and Subsequent Electrochemical Carboxylation. Journal of Organic Chemistry, 2021, 86, 15953-15960.	3.2	27
33	Synthesis ofÎ±,Î²-Unsaturated Carboxylic Acids by Nickel(II)-Catalyzed Electrochemical Carboxylation of Vinyl Bromides. Chemistry Letters, 1997, 26, 917-918.	1.3	26
34	Convenient Synthesis of Cyclic Î±-Alkoxyl-Î±,Î²-unsaturated Carboxylic Acids by Nickel-catalyzed Electrochemical Carboxylation of Lactone Enol Triflates. Synlett, 2002, 2002, 0140-0142.	1.8	26
35	Tandem cyclization of N-allylaminyl radicals: Stereoselective synthesis of 1,2,5-trisubstituted pyrrolizidines. Tetrahedron, 1999, 55, 6465-6474.	1.9	23
36	New and Convenient Synthesis of 3-Methylenepent-4-enoic Acid by Electrochemical Carboxylation. Synthesis, 1997, 1997, 1143-1145.	2.3	22

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37	Electrochemical Carboxylation of Î±,Î±-Difluorotoluene Derivatives and Its Application to the Synthesis of Î±-Fluorinated Nonsteroidal Anti-Inflammatory Drugs. Synlett, 2008, 2008, 438-442.	1.8	22
38	Photoinduced molecular transformations. Part 131. Synthesis of 18-norsteroids, deoxofukujusonorone and the related steroids, based on a selective Î²-scission of alkoxyl radicals as the key step. Journal of the Chemical Society Perkin Transactions 1, 1992, , 1837-1842.	0.9	21
39	Stereoselective synthesis of 2-methylenepyrrolizidines by tandem cyclization of N-propargylaminyl radicals. Tetrahedron, 2003, 59, 827-832.	1.9	21
40	Efficient Synthesis of Mandel Acetates by Electrochemical Carboxylation of Benzal Diacetates. ChemElectroChem, 2019, 6, 4158-4164.	3.4	21
41	New Stereoselective Synthesis of (Â±)-trans-2-Butyl-5-heptyl-1-methylpyrrolidine, Ant Venom Alkaloid, by Aminyl Radical Cyclization. Heterocycles, 1999, 50, 333.	0.7	20
42	Regioselective Electrochemical Carboxylation of Polyfluoroarenes. Electrochemistry, 2013, 81, 380-382.	1.4	19
43	A new synthesis of ring-fused alkylidenecyclobutanes by ring-enlargement reaction of bicyclo[n.1.0]alkylidene derivatives. Tetrahedron Letters, 2003, 44, 3329-3332.	1.4	18
44	Phosphaneâ€Free Pd⁰â€Catalyzed Cycloamination and Carbonylation with Pd(OAc)₂ and Cu(OAc)₂ in the Presence of K₂CO₃: Preparation of Benzocyclic Amines and Benzolactams. European Journal of Organic Chemistry, 2012, 2012, 366-379.	2.4	18
45	Electrochemical Carboxylation of Flavones: Facile Synthesis of Flavanone-2-carboxylic Acids. Electrochemistry, 2011, 79, 862-864.	1.4	17
46	A new aromatization of ring-A of steroids. Synthesis of estrone. Tetrahedron Letters, 1988, 29, 79-80.	1.4	16
47	Photoinduced molecular transformations. Part 156. New photoadditions of 2-hydroxy-1,4-naphthoquinones with naphthols and their derivatiyes. Tetrahedron, 1995, 51, 1377-1386.	1.9	16
48	Stereoselective Synthesis of 5-7 membered Cyclic Ethers by Deiodonative Ring-Enlargement Using Hypervalent Iodine Reagents. Molecules, 2005, 10, 183-189.	3.8	16
49	Electrochemical Carboxylation of Aliphatic Ketones: Synthesis of .BETA.-Keto Carboxylic Acids. Electrochemistry, 2006, 74, 612-614.	1.4	16
50	Sequential Vinyl Radical Cyclization/Fixation of Carbon Dioxide through Electrochemical Reduction of Vinyl Bromide in the Presence of an Electronâ€Transfer Mediator. ChemElectroChem, 2016, 3, 2052-2057.	3.4	16
51	Synthesis of Benzo[c]phenanthridine Alkaloids by Pd(OAc)₂â€Induced Direct Aromatic Carbonylation. European Journal of Organic Chemistry, 2012, 2012, 4622-4633.	2.4	13
52	Photoinduced molecular transformations. Part 159. Formation of some furonaphthyridinones by selective Î²-scission of cyclobutanoxyl radicals generated from [2+2] photoadducts of 4-hydroxy-1-phenyl [1,8] naphthyridin-2(1H)-one with alkenes. Tetrahedron, 1996, 52, 6125-6138.	1.9	12
53	A One-pot Synthesis of Terminal Alkynes fromanti-3-Aryl-2,3-dibromopropanoic Acids under Microwave Irradiation. Chemistry Letters, 2005, 34, 28-29.	1.3	12
54	Bioinspired synthesis of pentalene-based chromophores from an oligoketone chain. Chemical Communications, 2018, 54, 6788-6791.	4.1	12

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55	An efficient synthesis of fluorocyclopentenes using fluoroalkylidenecarbenes. Tetrahedron Letters, 2008, 49, 76-79.	1.4	11
56	Photoinduced molecular transformations. Part 130. Novel stereospecific photorearrangement and stereospecific addition of methanol in steroidal Î±,Î²-unsaturated cyclic ketone oximes. Journal of the Chemical Society Perkin Transactions 1, 1992, , 427-432.	0.9	10
57	Photoinduced Molecular Transformations. part 147. [2+2]Photoaddition of Protected 4-Hydroxy-1(2H)-isoquinolinone with an Electrondeficient Alkene and the Formation of a 3,6-Epoxy-3,4,5,6-tetrahydro-2-benzazocin-1(2H)-one via a b-Scission of Cyclobutanoxyl Radicals Generated from the Resulting photoadduct. Heterocycles, 1994, 37, 283.	0.7	10
58	Electrochemical Carboxylation of Several Organic Halides in Supercritical Carbon Dioxide. , 1998, , 245-246.		9
59	A facile synthesis of ring-fused alkylidenecyclopropanes by olefination reaction of bicyclo[n.1.0]alkanone N,O-hemiacetals with Wittig reagents. Tetrahedron Letters, 2001, 42, 7075-7078.	1.4	9
60	Polycyclic Aromatic Compounds-mediated Electrochemical Reduction of Alkyl Mesylates. Chemistry Letters, 2007, 36, 228-229.	1.3	9
61	Synthesis of 2-Aryl-2,3,3,3-tetrafluoropropanoic Acids, Tetrafluorinated Fenoprofen and Ketoprofen by Electrochemical Carboxylation of Pentafluoroethylarenes. Synthesis, 2009, 2009, 3375-3377.	2.3	9
62	Photoinduced molecular transformations. Part 112. Transformation of steroids into ring-A-aromatized steroids and 19-norsteroids involving a regioselective Î²-scission of alkoxyl radicals; synthesis of two marine natural products, 19-nor-5Î±-cholestan-3Î²-ol and 19-norcholest-4-en-3-one, and new synthesis of estrone and 19-nortestosterone. Journal of the Chemical Society Perkin Transactions 1, 1990, , 2199-2205.	0.9	8
63	Photoinduced molecular transformations. Part 133. New photoinduced deconjugation of steroidal Î±,Î²-unsaturated cyclic ketone oxime into the Î²,Î³-unsaturated isomer involving stereospecific proton transfer. Journal of the Chemical Society Perkin Transactions 1, 1992, , 1849-1854.	0.9	7
64	Photoinduced molecular transformations. Part 149. Stereospecific photoadditions and photorearrangements of the oximes of some steroidal Î±,Î²-unsaturated cyclic ketones and their deuterio derivatives. Journal of the Chemical Society Perkin Transactions 1, 1994, , 3239-3250.	0.9	7
65	Photoinduced molecular transformations. Part 145. Regioselective [3 + 2] photoadditions of 2-hydroxyphenanthrene-1,4-dione with electron-rich alkenes and phenylacetylene: new one-step synthesis of 9,10-dihydrophenanthro[2,3-b]furan-7,11-diones and 2-phenylphenanthro[2,3-b]furan-7,11-dione. Journal of the Chemical Society Perkin Transactions 1, 1994, , 471-...	0.9	7
66	Selective Hydrogenation of Phenylacetylene with Graphite Intercalated Platinum Nanosheets.. Journal of the Japan Petroleum Institute, 2002, 45, 420-421.	0.6	6
67	Photoinduced molecular transformations. Part 134. Photoinduced stereospecific addition of methanol to 5Î²-cholest-1-en-3-one oxime and photoinduced deconjugation of its 1-methyl derivative involving stereospecific proton transfer. Journal of the Chemical Society Perkin Transactions 1, 1992, , 3103-3110.	0.9	5
68	Synthesis of indolo[2,1â€‹a]isoquinolines by <scp>CF₃COOH</scp>â€‹induced cyclization. Journal of Heterocyclic Chemistry, 2020, 57, 3703-3708.	2.6	5
69	Rapid Debromination of Vic-dibromoalkanes with Zinc Powder in Acetic Acid under Microwave Irradiation. Journal of Chemical Research, 2005, 2005, 282-284.	1.3	4
70	Synthesis of 8â€Oxoberbines and Related Benzolactams by Pd(OAc)₂â€Catalyzed Direct Aromatic Carbonylation. Journal of Heterocyclic Chemistry, 2013, 50, E48.	2.6	4
71	Stereoselective preparation of 7-exo-amino-7-endo-substituted bicyclo[4.1.0]heptanes. Tetrahedron, 2002, 58, 1673-1677.	1.9	3
72	Electrochemical Fixation of Carbon Dioxide. Green Chemistry and Sustainable Technology, 2014, , 245-262.	0.7	3

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73	Efficient formation of a spirotetrahydrofuran ring by the ionic cyclization of bishomoallyl tertiary alcohols via their hypoiodites. Journal of the Chemical Society Perkin Transactions 1, 1992, , 2917.	0.9	2
74	Photoinduced molecular transformations. Part 154. On the mechanism of the formation of the 5-iodopentyl formate in the photolysis of cyclopentanol hypoiodite in solution in the presence of mercury(II) oxide-iodine.. Tetrahedron, 1994, 50, 13101-13112.	1.9	1
75	Synthesis of Î±,Î²-Unsaturated Carboxylic Acids by Electrochemical Carboxylation of Vinyl Bromides and Its Application to the Synthesis of Anti-Inflammatory Agents. , 1998, , 239-242.		1
76	Synthesis of Î²-Keto Acids by Electrochemical Carboxylation of Vinyl Triflates. , 1998, , 247-248.		1
77	A Convenient Synthesis of Highly Substituted Furans by Microwave Irradiation of Ring-Fused Alkylidenecyclopropanes. Synlett, 2004, 2004, 1933-1936.	1.8	1
78	Rhodium-Catalyzed Ring-Opening Reactions of N-Boc-azabenzonorÂbornadiene with Chiral Amine Nucleophiles Derived from Amino Acids. Synthesis, 2008, 2008, 2467-2475.	2.3	1
79	Stereoselective Synthesis of 2-Methylenepyrrolizidines by Tandem Cyclization of N-Propargylaminyl Radicals.. ChemInform, 2003, 34, no.	0.0	0
80	A New Synthesis of Ring-Fused Alkylidenecyclobutanes by Ring-Enlargement Reaction of Bicyclo[n.1.0]alkylidene Derivatives.. ChemInform, 2003, 34, no.	0.0	0
81	Electrochemical Carboxylation of Bicyclo[n.1.0]alkylidene Derivatives.. ChemInform, 2004, 35, no.	0.0	0
82	Stereoselective Synthesis of (E)-?-Arylvinyl Bromides by Microwave-Induced Reaction of anti-3-Aryl-2,3-dibromopropanoic Acids Using an AgOAc?AcOH System.. ChemInform, 2005, 36, no.	0.0	0
83	A One-Pot Synthesis of Terminal Alkynes from anti-3-Aryl-2,3-dibromopropanoic Acids under Microwave Irradiation.. ChemInform, 2005, 36, no.	0.0	0
84	Synthesis of (Z)-1-Bromo-1-alkenes and Terminal Alkynes from anti-2,3-Dibromoalkanoic Acids by Microwave-Induced Reaction.. ChemInform, 2005, 36, no.	0.0	0
85	Stereospecific Electrochemical Carboxylation of Î²-Bromostyrene by Use of Nickel(II) Catalyst.. ChemInform, 2005, 36, no.	0.0	0
86	Rapid Debromination of vic-Dibromoalkanes with Zinc Powder in Acetic Acid under Microwave Irradiation.. ChemInform, 2005, 36, no.	0.0	0
87	Stereoselective Synthesis of (E)-Î²-Arylvinyl Bromides by Microwave-Induced Hunsdiecker-Type Reaction.. ChemInform, 2005, 36, no.	0.0	0
88	Three Component Coupling Reaction of Benzyl Halides, CO2, and DMF by Using Paired Electrosynthesis; Sacrificial Anode Free Electrochemical Carboxylation of Benzyl halides. ECS Meeting Abstracts, 2008, , .	0.0	0
89	Electrochemical Fixation of Carbon Dioxide (Cathodic Reduction in the Presence of Carbon Dioxide). , 2014, , 469-474.		0