

Akira Matsumoto

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	New Generation of Organosilyl Radicals by Photochemically Induced Homolytic Cleavage of Silicon-Boron Bonds. <i>Journal of Organic Chemistry</i> , 2000, 65, 5707-5711.	1.7	66
2	Cu-Catalyzed Enantioselective Alkylarylation of Vinylarenes Enabled by Chiral Binaphthyl-BOX Hybrid Ligands. <i>Journal of the American Chemical Society</i> , 2020, 142, 19017-19022.	6.6	50
3	Organocatalytic enantio- and diastereoselective cycloetherification via dynamic kinetic resolution of chiral cyanohydrins. <i>Nature Communications</i> , 2017, 8, 1397.	5.8	33
4	Enantioselective fluorination of homoallylic alcohols enabled by the tuning of non-covalent interactions. <i>Chemical Science</i> , 2018, 9, 7153-7158.	3.7	30
5	<i>trans</i> -Cyclooctenes as Halolactonization Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13863-13867.	7.2	29
6	Cationic DABCO-Based Catalyst for Site-Selective C-H Alkylation via Photoinduced Hydrogen-Atom Transfer. <i>ACS Catalysis</i> , 2022, 12, 2045-2051.	5.5	29
7	A chiral phosphoric acid catalyst for asymmetric construction of 1,3-dioxanes. <i>Chemical Communications</i> , 2015, 51, 11693-11696.	2.2	28
8	Development of Organosilicon Peroxides as Practical Alkyl Radical Precursors and Their Applications to Transition Metal Catalysis. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 513-524.	2.0	24
9	<i>N</i> -Hydroxybenzimidazole as a structurally modifiable platform for <i>N</i> -oxyl radicals for direct C-H functionalization reactions. <i>Chemical Science</i> , 2020, 11, 5772-5778.	3.7	23
10	Efficient cleavage of tertiary amide bonds via radical-polar crossover using a copper(ii) bromide/Selectfluor hybrid system. <i>Chemical Science</i> , 2020, 11, 12323-12328.	3.7	22
11	Iron-Catalyzed Radical Cleavage/C-C Bond Formation of Acetal-Derived Alkylsilyl Peroxides. <i>Chemistry - an Asian Journal</i> , 2020, 15, 573-576.	1.7	22
12	Organocatalytic Enantio- and Diastereoselective Construction of <i>syn</i> -1,3-Diol Motifs via Dynamic Kinetic Resolution of In Situ Generated Chiral Cyanohydrins. <i>Organic Letters</i> , 2019, 21, 2688-2692.	2.4	19
13	Desymmetrization of <i>gem</i> -diols via water-assisted organocatalytic enantio- and diastereoselective cycloetherification. <i>Chemical Communications</i> , 2020, 56, 12335-12338.	2.2	18
14	Asymmetric Cycloetherification via the Kinetic Resolution of Alcohols Using Chiral Phosphoric Acid Catalysts. <i>Chemistry Letters</i> , 2016, 45, 1300-1303.	0.7	16
15	Ni-Catalyzed C(sp ²)-H alkylation of <i>N</i> -quinolybenzamides using alkylsilyl peroxides as structurally diverse alkyl sources. <i>Chemical Communications</i> , 2021, 57, 7942-7945.	2.2	14
16	Kinetic Resolution of Acylsilane Cyanohydrins via Organocatalytic Cycloetherification. <i>Chemistry - an Asian Journal</i> , 2019, 14, 116-120.	1.7	13
17	Enantioselective bromination of axially chiral cyanoarenes in the presence of bifunctional organocatalysts. <i>RSC Advances</i> , 2019, 9, 31654-31658.	1.7	12
18	Radical-Mediated Activation of Esters with a Copper/Selectfluor System: Synthesis of Bulky Amides and Peptides. <i>Journal of Organic Chemistry</i> , 2021, 86, 5401-5411.	1.7	12

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19	Fe-Catalyzed Dicarbofunctionalization of Vinylarenes with Alkylsilyl Peroxides and β -Keto Carbonyl Substrates. <i>Organic Letters</i> , 2022, 24, 2641-2645.	2.4	10
20	Diastereoselective Reduction of β -(1,3-Dioxan-4-yl)ketones. <i>Synlett</i> , 2015, 26, 1872-1874.	1.0	9
21	Development of New Radical-Mediated Selective Reactions Promoted by Hypervalent Iodine(III) Reagents. <i>Chemical Record</i> , 2021, 21, 1342-1357.	2.9	9
22	Bifunctional organocatalysts for the asymmetric synthesis of axially chiral benzamides. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1518-1523.	1.3	8
23	Asymmetric syn-1,3-Dioxane Construction via Kinetic Resolution of Secondary Alcohols Using Chiral Phosphoric Acid Catalysts. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 814-818.	1.3	7
24	trans-Cyclooctenes as Halolactonization Catalysts. <i>Angewandte Chemie</i> , 2018, 130, 14059-14063.	1.6	5
25	Synthesis of Functionalized Aliphatic Acid Esters via the Generation of Alkyl Radicals from Silylperoxyacetals. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2431-2434.	1.7	4
26	Non-enzymatic catalytic asymmetric cyanation of acylsilanes. <i>Communications Chemistry</i> , 2022, 5, .	2.0	3
27	Deacylative Carbon-Carbon Bond Cleavage of Ketone Equivalents: Applications to Radical Carbon-Carbon Bond Formation Reactions. <i>Chemistry - an Asian Journal</i> , 2021, 16, 282-286.	1.7	2