Kenichiro Itami

List of Publications by Citations

265 papers	20,491 citations	75 h-index	136 g-index
293 ext. papers	23,350 ext. citations	10.4 avg, IF	7.55 L-index

#	Paper	IF	Citations
265	C-H bond functionalization: emerging synthetic tools for natural products and pharmaceuticals. *Angewandte Chemie - International Edition*, **2012**, 51, 8960-9009	16.4	2343
264	Synthesis of extended -systems through C-H activation. *Angewandte Chemie - International Edition*, **2015**, 54, 66-81	16.4	511
263	Recent Progress in Nickel-Catalyzed Biaryl Coupling. *European Journal of Organic Chemistry*, **2013**, 2013, 19-30	3.2	459
262	A grossly warped nanographene and the consequences of multiple odd-membered-ring defects. *Nature Chemistry*, **2013**, 5, 739-44	17.6	441
261	Potassium t-butoxide alone can promote the biaryl coupling of electron-deficient nitrogen heterocycles and haloarenes. *Organic Letters*, **2008**, 10, 4673-6	6.2	412
260	Catalytic Methods for Aromatic C–H Amination: An Ideal Strategy for Nitrogen-Based Functional Molecules. *ACS Catalysis*, **2016**, 6, 610-633	13.1	379
259	Selective synthesis of [12]cycloparaphenylene. *Angewandte Chemie - International Edition*, **2009**, 48, 6112-6	16.4	366
258	Structurally uniform and atomically precise carbon nanostructures. *Nature Reviews Materials*, **2016**, 1,	73.3	322
257	Nickel-catalyzed C-H/C-O coupling of azoles with phenol derivatives. *Journal of the American Chemical Society*, **2012**, 134, 169-72	16.4	318
256	C-H Functionalization of Azines. *Chemical Reviews*, **2017**, 117, 9302-9332	68.1	304
255	Synthesis of a carbon nanobelt. *Science*, **2017**, 356, 172-175	33.3	301
254	Initiation of carbon nanotube growth by well-defined carbon nanorings. *Nature Chemistry*, **2013**, 5, 572-6	17.6	297
253	Direct C-H arylation of (hetero)arenes with aryl iodides via rhodium catalysis. *Journal of the American Chemical Society*, **2006**, 128, 11748-9	16.4	293
252	Decarbonylative C-H coupling of azoles and aryl esters: unprecedented nickel catalysis and application to the synthesis of muscoride A. *Journal of the American Chemical Society*, **2012**, 134, 13573-6	16.4	284
251	Design and Synthesis of Carbon Nanotube Segments. *Angewandte Chemie - International Edition*, **2016**, 55, 5136-58	16.4	227
250	Programmed synthesis of tetraarylthiophenes through sequential C-H arylation. *Journal of the American Chemical Society*, **2009**, 131, 14622-3	16.4	224
249	A general catalyst for the -selective C-H bond arylation of thiophenes with iodoarenes. *Angewandte Chemie - International Edition*, **2010**, 49, 8946-9	16.4	214

248	Theoretical studies on the structures and strain energies of cycloparaphenylenes. *Organic Letters*, **2010**, 12, 2262-5	6.2	208
247	Concise synthesis and crystal structure of [12]cycloparaphenylene. *Angewandte Chemie - International Edition*, **2011**, 50, 3244-8	16.4	205
246	Oxidative biaryl coupling of thiophenes and thiazoles with arylboronic acids through palladium catalysis: otherwise difficult C4-selective C-H arylation enabled by boronic acids. *Angewandte Chemie - International Edition*, **2011**, 50, 2387-91	16.4	204
245	Combined experimental and theoretical studies on the photophysical properties of cycloparaphenylenes. *Organic and Biomolecular Chemistry*, **2012**, 10, 5979-84	3.9	202
244	Decarbonylative organoboron cross-coupling of esters by nickel catalysis. *Nature Communications*, **2015**, 6, 7508	17.4	199
243	Synthesis, Structures, and Properties of π-Extended Double Helicene: A Combination of Planar and Nonplanar π-Systems. *Journal of the American Chemical Society*, **2015**, 137, 7763-8	16.4	193
242	A modular and size-selective synthesis of [n]cycloparaphenylenes: a step toward the selective synthesis of [n,n] single-walled carbon nanotubes. *Angewandte Chemie - International Edition*, **2010**, 49, 10202-5	16.4	191
241	Iridium catalysis for C-H bond arylation of heteroarenes with iodoarenes. *Angewandte Chemie - International Edition*, **2009**, 48, 3644-7	16.4	189
240	Hindered biaryls by C–H coupling: bisoxazoline-Pd catalysis leading to enantioselective C–H coupling. *Chemical Science*, **2012**, 3, 2165	9.4	187
239	Diversity-oriented synthesis of tamoxifen-type tetrasubstituted olefins. *Journal of the American Chemical Society*, **2003**, 125, 14670-1	16.4	186
238	Programmed synthesis of arylthiazoles through sequential C–H couplings. *Chemical Science*, **2014**, 5, 123-135	9.4	172
237	Synthese von Materialien mit erweitertem π-System durch C-H-Aktivierung. *Angewandte Chemie*, **2015**, 127, 68-83	3.6	165
236	Annulative π-Extension (APEX): Rapid Access to Fused Arenes, Heteroarenes, and Nanographenes. *Angewandte Chemie - International Edition*, **2017**, 56, 11144-11164	16.4	163
235	PARASITIC PLANTS. Probing strigolactone receptors in Striga hermonthica with fluorescence. *Science*, **2015**, 349, 864-8	33.3	162
234	Diversity-oriented synthesis of multisubstituted olefins through the sequential integration of palladium-catalyzed cross-coupling reactions. 2-pyridyldimethyl(vinyl)silane as a versatile platform for olefin synthesis. *Journal of the American Chemical Society*, **2001**, 123, 11577-85	16.4	162
233	para-C-H Borylation of Benzene Derivatives by a Bulky Iridium Catalyst. *Journal of the American Chemical Society*, **2015**, 137, 5193-8	16.4	157
232	Synthesis and properties of [9]cyclo-1,4-naphthylene: a π-extended carbon nanoring. *Journal of the American Chemical Society*, **2012**, 134, 2962-5	16.4	154
231	Isolation, structure, and reactivity of an arylnickel(II) pivalate complex in catalytic C-H/C-O biaryl coupling. *Journal of the American Chemical Society*, **2013**, 135, 16384-7	16.4	150

230	Key mechanistic features of Ni-catalyzed C-H/C-O biaryl coupling of azoles and naphthalen-2-yl pivalates. *Journal of the American Chemical Society*, **2014**, 136, 14834-44	16.4	147
229	Triarylethene-based extended pi-systems: programmable synthesis and photophysical properties. *Journal of Organic Chemistry*, **2005**, 70, 2778-92	4.2	146
228	Pyrimidine-core extended pi-systems: general synthesis and interesting fluorescent properties. *Journal of the American Chemical Society*, **2004**, 126, 15396-7	16.4	145
227	Nickel-catalyzed □-arylation of ketones with phenol derivatives. *Angewandte Chemie - International Edition*, **2014**, 53, 6791-4	16.4	144
226	One-shot K-region-selective annulative □-extension for nanographene synthesis and functionalization. *Nature Communications*, **2015**, 6, 6251	17.4	142
225	[9]Cycloparaphenylene: Nickel-mediated Synthesis and Crystal Structure. *Chemistry Letters*, **2011**, 40, 423-425	1.7	136
224	Sequential assembly strategy for tetrasubstituted olefin synthesis using vinyl 2-pyrimidyl sulfide as a platform. *Journal of the American Chemical Society*, **2004**, 126, 11778-9	16.4	131
223	Polycyclic Arene Synthesis by Annulative □-Extension. *Journal of the American Chemical Society*, **2019**, 141, 3-10	16.4	131
222	Direct arylation of polycyclic aromatic hydrocarbons through palladium catalysis. *Journal of the American Chemical Society*, **2011**, 133, 10716-9	16.4	129
221	C-H alkenylation of azoles with enols and esters by nickel catalysis. *Angewandte Chemie - International Edition*, **2013**, 52, 10048-51	16.4	128
220	One-shot indole-to-carbazole □-extension by a Pd□Cu□Ag trimetallic system. *Chemical Science*, **2013**, 4, 3416	9.4	127
219	Synthesis and characterization of hexaarylbenzenes with five or six different substituents enabled by programmed synthesis. *Nature Chemistry*, **2015**, 7, 227-33	17.6	124
218	Aromatic C□H coupling with hindered arylboronic acids by Pd/Fe dual catalysts. *Chemical Science*, **2013**, 4, 3753	9.4	124
217	Size-selective synthesis of [9]□11] and [13]cycloparaphenylenes. *Chemical Science*, **2012**, 3, 2340	9.4	123
216	Size-selective complexation and extraction of endohedral metallofullerenes with cycloparaphenylene. *Angewandte Chemie - International Edition*, **2014**, 53, 3102-6	16.4	121
215	Selective Synthesis of [12]Cycloparaphenylene. *Angewandte Chemie*, **2009**, 121, 6228-6232	3.6	121
214	Synthesis and Structural Features of Quadruple Helicenes: Highly Distorted □Systems Enabled by Accumulation of Helical Repulsions. *Journal of the American Chemical Society*, **2016**, 138, 3587-95	16.4	121
213	Synthesis and racemization process of chiral carbon nanorings: a step toward the chemical synthesis of chiral carbon nanotubes. *Organic Letters*, **2011**, 13, 2480-3	6.2	120

212	Catalytic C-H imidation of aromatic cores of functional molecules: ligand-accelerated Cu catalysis and application to materials- and biology-oriented aromatics. *Journal of the American Chemical Society*, **2015**, 137, 2460-3	16.4	115
211	Concise syntheses of dictyodendrins A and F by a sequential C-H functionalization strategy. *Journal of the American Chemical Society*, **2015**, 137, 644-7	16.4	107
210	Cycloparaphenylene-based ionic donor-acceptor supramolecule: isolation and characterization of Li+@C60?[10]CPP. *Angewandte Chemie - International Edition*, **2015**, 54, 3707-11	16.4	106
209	Topological molecular nanocarbons: All-benzene catenane and trefoil knot. *Science*, **2019**, 365, 272-276	33.3	104
208	Synthesis and properties of all-benzene carbon nanocages: a junction unit of branched carbon nanotubes. *Chemical Science*, **2013**, 4, 84-88	9.4	104
207	CH activation route to dibenzo[a,e]pentalenes: annulation of arylacetylenes promoted by PdCl2/AgOTf/p-chloranil. *Chemical Science*, **2013**, 4, 2369	9.4	99
206	Synthesis of partially and fully fused polyaromatics by annulative chlorophenylene dimerization. *Science*, **2018**, 359, 435-439	33.3	97
205	Thiophene-Fused Systems from Diarylacetylenes and Elemental Sulfur. *Journal of the American Chemical Society*, **2016**, 138, 10351-5	16.4	97
204	A Quintuple [6]Helicene with a Corannulene Core as a C -Symmetric Propeller-Shaped System. *Angewandte Chemie - International Edition*, **2018**, 57, 1337-1341	16.4	96
203	Synthesis and Size-Dependent Properties of [12], [16], and [24]Carbon Nanobelts. *Journal of the American Chemical Society*, **2018**, 140, 10054-10059	16.4	95
202	C-H arylation and alkenylation of imidazoles by nickel catalysis: solvent-accelerated imidazole C-H activation. *Chemical Science*, **2015**, 6, 6792-6798	9.4	93
201	Decarbonylative Diaryl Ether Synthesis by Pd and Ni Catalysis. *Journal of the American Chemical Society*, **2017**, 139, 3340-3343	16.4	92
200	Synthesis and properties of cycloparaphenylene-2,5-pyridylidene: a nitrogen-containing carbon nanoring. *Organic Letters*, **2012**, 14, 1888-91	6.2	92
199	Iron-catalyzed cross-coupling of alkenyl sulfides with Grignard reagents. *Organic Letters*, **2005**, 7, 1219-22	6.2	88
198	Excited States in Cycloparaphenylenes: Dependence of Optical Properties on Ring Length. *Journal of Physical Chemistry Letters*, **2012**, 3, 3125-8	6.4	85
197	Selective synthesis of [7]- and [8]cycloparaphenylenes. *Chemical Communications*, **2014**, 50, 954-6	5.8	84
196	All-benzene carbon nanocages: size-selective synthesis, photophysical properties, and crystal structure. *Journal of the American Chemical Society*, **2014**, 136, 16452-8	16.4	84
195	Palladium-catalyzed C-H activation taken to the limit. Flattening an aromatic bowl by total arylation. *Journal of the American Chemical Society*, **2012**, 134, 15664-7	16.4	84

194	Rapid Access to Nanographenes and Fused Heteroaromatics by Palladium-Catalyzed Annulative □Extension Reaction of Unfunctionalized Aromatics with Diiodobiaryls. *Angewandte Chemie - International Edition*, **2017**, 56, 12224-12228	16.4	80
193	Design und Synthese von Kohlenstoffnanor□rensegmenten. *Angewandte Chemie*, **2016**, 128, 5222-5245	3.6	80
192	Metal-catalyzed hydrosilylation of alkenes and alkynes using dimethyl(pyridyl)silane. *Journal of Organic Chemistry*, **2002**, 67, 2645-52	4.2	79
191	Ni-Catalyzed □arylation of esters and amides with phenol derivatives. *Chemical Communications*, **2015**, 51, 855-7	5.8	76
190	Curved Oligophenylenes as Donors in Shape-Persistent Donor-Acceptor Macrocycles with Solvatofluorochromic Properties. *Angewandte Chemie - International Edition*, **2015**, 54, 9646-9	16.4	74
189	Strength of carbon nanotubes depends on their chemical structures. *Nature Communications*, **2019**, 10, 3040	17.4	70
188	Toward controlled synthesis of carbon nanotubes and graphenes. *Pure and Applied Chemistry*, **2012**, 84, 907-916	2.1	68
187	Catalytic Asymmetric [4 + 1] Cycloaddition of Vinylallenes with Carbon Monoxide: Reversal of the Induced Chirality by the Choice of Metal. *Journal of the American Chemical Society*, **1999**, 121, 4130-4135	16.4	68
186	Annulative □Extension (APEX) of Heteroarenes with Dibenzosiloles and Dibenzogermoles by Palladium/o-Chloranil Catalysis. *Organic Letters*, **2017**, 19, 1930-1933	6.2	67
185	Chemical hijacking of auxin signaling with an engineered auxin-TIR1 pair. *Nature Chemical Biology*, **2018**, 14, 299-305	11.7	66
184	□-Cycloparaphenylene transition metal complexes: synthesis, structure, photophysical properties, and application to the selective monofunctionalization of cycloparaphenylenes. *Journal of the American Chemical Society*, **2015**, 137, 1356-61	16.4	66
183	Origin of the size-dependent fluorescence blueshift in [n]cycloparaphenylenes. *Chemical Science*, **2013**, 4, 187-195	9.4	66
182	Rapid construction of multisubstituted olefin structures using vinylboronate ester platform leading to highly fluorescent materials. *Organic Letters*, **2004**, 6, 4093-6	6.2	66
181	Thiophene-based, radial □conjugation: synthesis, structure, and photophysical properties of cyclo-1,4-phenylene-2□,5□thienylenes. *Angewandte Chemie - International Edition*, **2015**, 54, 159-63	16.4	65
180	A Water-Soluble Warped Nanographene: Synthesis and Applications for Photoinduced Cell Death. *Angewandte Chemie - International Edition*, **2018**, 57, 2874-2878	16.4	65
179	Catalytic Dehydrogenative C□H Imidation of Arenes Enabled by Photo-generated Hole Donation to Sulfonimide. *CheM*, **2017**, 2, 383-392	16.2	63
178	Carbon Nanosheets by Morphology-Retained Carbonization of Two-Dimensional Assembled Anisotropic Carbon Nanorings. *Angewandte Chemie - International Edition*, **2018**, 57, 9679-9683	16.4	63
177	Rhodium-Catalyzed Intermolecular [4+2] Cycloaddition of Unactivated Substrates. *Angewandte Chemie - International Edition*, **1998**, 37, 2248-2250	16.4	63

176	A general and straightforward route toward diarylmethanes. Integrated cross-coupling reactions using (2-pyridyl)silylmethylstannane as an air-stable, storable, and versatile coupling platform. *Organic Letters*, **2002**, 4, 3635-8	6.2	62
175	Cyanation of Phenol Derivatives with Aminoacetonitriles by Nickel Catalysis. *Organic Letters*, **2016**, 18, 4428-31	6.2	62
174	Palladium-catalyzed convergent synthesis and properties of conjugated dendrimers based on triarylethene branching. *Angewandte Chemie - International Edition*, **2006**, 45, 2404-9	16.4	61
173	Stereodivergent synthesis of arylcyclopropylamines by sequential C-H borylation and Suzuki-Miyaura coupling. *Angewandte Chemie - International Edition*, **2015**, 54, 846-51	16.4	60
172	Nickel-Catalyzed Aromatic C-H Functionalization. *Topics in Current Chemistry*, **2016**, 374, 55	7.2	60
171	Pd(OAc)2/o-chloranil/M(OTf)n: a catalyst for the direct C-H arylation of polycyclic aromatic hydrocarbons with boryl-, silyl-, and unfunctionalized arenes. *Organic Letters*, **2012**, 14, 418-21	6.2	58
170	Die anellierende Erweiterung von π-Systemen (APEX-Reaktion): ein rascher Zugang zu kondensierten Arenen, Heteroarenen und Nanographenen. *Angewandte Chemie*, **2017**, 129, 11296-11317	3.6	57
169	Synthesis and properties of cycloparaphenylene-2,7-pyrenylene: a pyrene-containing carbon nanoring. *Chemical Communications*, **2014**, 50, 957-9	5.8	57
168	Synthesis, Properties, and Packing Structures of Corannulene-Based π-Systems Containing Heptagons. *Chemistry - an Asian Journal*, **2015**, 10, 1635-9	4.5	57
167	Mechanistic studies on the Pd-catalyzed direct C-H arylation of 2-substituted thiophene derivatives with arylpalladium bipyridyl complexes. *Chemistry - an Asian Journal*, **2012**, 7, 1256-60	4.5	57
166	Living annulative π-extension polymerization for graphene nanoribbon synthesis. *Nature*, **2019**, 571, 387-392	50.4	56
165	Regiodivergent Cross-Dehydrogenative Coupling of Pyridines and Benzoxazoles: Discovery of Organic Halides as Regio-Switching Oxidants. *Organic Letters*, **2016**, 18, 2415-8	6.2	56
164	Stereoselective synthesis of multisubstituted butadienes through directed Mizoroki-Heck reaction and homocoupling reaction of vinyl(2-pyridyl)silane. *Organic Letters*, **2004**, 6, 3695-8	6.2	55
163	A pyridylsilyl group expands the scope of catalytic intermolecular Pauson-Khand reactions. *Angewandte Chemie - International Edition*, **2002**, 41, 3481-4	16.4	55
162	Cell-based screen identifies a new potent and highly selective CK2 inhibitor for modulation of circadian rhythms and cancer cell growth. *Science Advances*, **2019**, 5, eaau9060	14.3	54
161	Recent Advances in C–H Activation for the Synthesis of π-Extended Materials **2020**, 2, 951-974		53
160	A Quintuple [6]Helicene with a Corannulene Core as a C5-Symmetric Propeller-Shaped π-System. *Angewandte Chemie*, **2018**, 130, 1351-1355	3.6	53
159	One-Step Annulative π-Extension of Alkynes with Dibenzosiloles or Dibenzogermoles by Palladium/o-chloranil Catalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 1361-1364	16.4	52

158	A Theoretical Study on the Strain Energy of Carbon Nanobelts. *Organic Letters*, **2016**, 18, 1430-3	6.2	52
157	Synthesis and dimerization of chloro[10]cycloparaphenylene: a directly connected cycloparaphenylene dimer. *Organic Letters*, **2014**, 16, 2174-6	6.2	51
156	Construction of Covalent Organic Nanotubes by Light-Induced Cross-Linking of Diacetylene-Based Helical Polymers. *Journal of the American Chemical Society*, **2016**, 138, 11001-8	16.4	51
155	C-H activation generates period-shortening molecules that target cryptochrome in the mammalian circadian clock. *Angewandte Chemie - International Edition*, **2015**, 54, 7193-7	16.4	50
154	Catalytic intermolecular Pauson-Khand-type reaction: strong directing effect of pyridylsilyl and pyrimidylsilyl groups and isolation of Ru complexes relevant to catalytic reaction. *Journal of the American Chemical Society*, **2004**, 126, 11058-66	16.4	50
153	Electrically Activated Conductivity and White Light Emission of a Hydrocarbon Nanoring-Iodine Assembly. *Angewandte Chemie - International Edition*, **2017**, 56, 11196-11202	16.4	49
152	Platform synthesis: A useful strategy for rapid and systematic generation of molecular diversity. *Chemistry - A European Journal*, **2006**, 12, 3966-74	4.8	47
151	Coordination Modes and Catalytic Carbonylative [4 + 1] Cycloaddition of Vinylallenes. *Organometallics*, **1999**, 18, 1326-1336	3.8	47
150	Corannulene-Helicene Hybrids: Chiral Systems Comprising Both Bowl and Helical Motifs. *Organic Letters*, **2016**, 18, 3992-5	6.2	46
149	Synthesis of a zigzag carbon nanobelt. *Nature Chemistry*, **2021**, 13, 255-259	17.6	46
148	Topologically Unique Molecular Nanocarbons. *Accounts of Chemical Research*, **2019**, 52, 2760-2767	24.3	45
147	A Nonalternant Aromatic Belt: Methylene-Bridged [6]Cycloparaphenylene Synthesized from Pillar[6]arene. *Journal of the American Chemical Society*, **2020**, 142, 12850-12856	16.4	45
146	Synthesis, properties, and crystal structures of extended double [6]helicenes: contorted multi-dimensional stacking lattice. *Organic and Biomolecular Chemistry*, **2017**, 15, 4697-4703	3.9	44
145	Cycloparaphenylene as a molecular porous carbon solid with uniform pores exhibiting adsorption-induced softness. *Chemical Science*, **2016**, 7, 4204-4210	9.4	44
144	Cu-Catalyzed aromatic C-H imidation with -fluorobenzenesulfonimide: mechanistic details and predictive models. *Chemical Science*, **2017**, 8, 988-1001	9.4	44
143	Palladium-catalyzed Decarbonylative Alkynylation of Aromatic Esters. *Chemistry Letters*, **2017**, 46, 218-220	1.7	44
142	A Quest for Structurally Uniform Graphene Nanoribbons: Synthesis, Properties, and Applications. *Journal of Organic Chemistry*, **2020**, 85, 4-33	4.2	44
141	Symmetric Multiple Carbohelicenes. *Synlett*, **2019**, 30, 370-377	2.2	44

140	Casein kinase 1 family regulates PRR5 and TOC1 in the Arabidopsis circadian clock. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 11528-11536	11.5	43
139	Molecular catalysis for fullerene functionalization. *Chemical Record*, **2011**, 11, 226-35	6.6	43
138	Annulative extension of indoles and pyrroles with diiodobiaryls by Pd catalysis: rapid synthesis of nitrogen-containing polycyclic aromatic compounds. *Chemical Science*, **2018**, 9, 7556-7561	9.4	42
137	Regioselective Catalytic Allylic Alkylation Directed by Removable 2-PyMe2Si Group. *Journal of the American Chemical Society*, **2001**, 123, 6957-6958	16.4	42
136	A Study on Rhodium Vinylallene Complexes Leading to a New Reaction, Rhodium-Catalyzed Carbonylative [4 + 1]Cycloaddition. *Angewandte Chemie International Edition in English*, **1996**, 34, 2691-2694		42
135	Synthesis and structural features of thiophene-fused analogues of warped nanographene and quintuple helicene. *Chemical Science*, **2019**, 10, 2326-2330	9.4	41
134	Laterally Extended Dithia[6]helicenes with Heptagons: Saddle-Helix Hybrid Molecules. *Journal of Organic Chemistry*, **2017**, 82, 7745-7749	4.2	41
133	Directed Intermolecular Carbomagnesation across Vinylsilanes: 2-PyMe Si Group as a Removable Directing Group. *Angewandte Chemie - International Edition*, **2001**, 40, 2337-2339	16.4	40
132	Phenanthro[9,10-a]corannulene by one-step annulative extension of corannulene. *Canadian Journal of Chemistry*, **2017**, 95, 329-333	0.9	39
131	Efficient and rapid C-Si bond cleavage in supercritical water. *Journal of the American Chemical Society*, **2003**, 125, 6058-9	16.4	39
130	Pyridylidene ligand facilitates gold-catalyzed oxidative C-H arylation of heterocycles. *Beilstein Journal of Organic Chemistry*, **2015**, 11, 2737-46	2.5	38
129	Catalytic Carbometalation/Cross-Coupling Sequence across Alkynyl(2-pyridyl)silanes Leading to a Diversity-Oriented Synthesis of Tamoxifen-Type Tetrasubstituted Olefins. *Advanced Synthesis and Catalysis*, **2004**, 346, 1824-1835	5.6	38
128	Palladium-Catalyzed Decarbonylative Cross-Coupling of Azinecarboxylates with Arylboronic Acids. *Organic Letters*, **2016**, 18, 5106-5109	6.2	38
127	[Bis]. *Organic Letters*, **2000**, 2, 1299-302	6.2	37
126	Helically Twisted Tetracene: Synthesis, Crystal Structure, and Photophysical Properties of Hexabenzo[a,c,fg,j,l,op]tetracene. *Synlett*, **2016**, 27, 2081-2084	2.2	37
125	Exciton recombination dynamics in nanoring cycloparaphenylenes. *Chemical Science*, **2014**, 5, 2293	9.4	36
124	Single-Step Construction of a Nine-Membered Carbocycle by a New [4+4+1] Cycloaddition. *Angewandte Chemie - International Edition*, **1998**, 37, 3418-3420	16.4	36
123	Synthesis and Structure of a Propeller-Shaped Polycyclic Aromatic Hydrocarbon Containing Seven-Membered Rings. *Organic Letters*, **2018**, 20, 1932-1935	6.2	35

122	C?H Alkenylation of Azoles with Enols and Esters by Nickel Catalysis. *Angewandte Chemie*, **2013**, 125, 10232-10235	3.6	35
121	Palladium-catalyzed rearrangement/arylation of 2-allyloxypyridine leading to the synthesis of N-substituted 2-pyridones. *Organic Letters*, **2003**, 5, 2161-4	6.2	35
120	Rapid Access to Nanographenes and Fused Heteroaromatics by Palladium-Catalyzed Annulative □Extension Reaction of Unfunctionalized Aromatics with Diiodobiaryls. *Angewandte Chemie*, **2017**, 129, 12392-12396	3.6	34
119	Nickel-Catalyzed □Arylation of Ketones with Phenol Derivatives. *Angewandte Chemie*, **2014**, 126, 6909-6913	3.6	34
118	Synthesis of Triarylpyridines in Thiopeptide Antibiotics by Using a C-H Arylation/Ring-Transformation Strategy. *Chemistry - A European Journal*, **2016**, 22, 4384-8	4.8	33
117	Synthetic Strategies of Carbon Nanobelts and Related Belt-Shaped Polycyclic Aromatic Hydrocarbons. *Chemistry - A European Journal*, **2020**, 26, 14791-14801	4.8	32
116	Isoform-selective regulation of mammalian cryptochromes. *Nature Chemical Biology*, **2020**, 16, 676-685	11.7	30
115	Synthesis and properties of [8]-, [10]-, [12]-, and [16]cyclo-1,4-naphthylenes. *Chemical Science*, **2017**, 8, 661-667	9.4	29
114	Palladium-catalysed asymmetric [4 + 2] cycloaddition of vinylallene with 1,3-diene. *Chemical Communications*, **2000**, 2293-2294	5.8	29
113	Synthesis, Structure, and Reactivity of a Cylinder-Shaped Cyclo[12]orthophenylene[6]ethynylene: Toward the Synthesis of Zigzag Carbon Nanobelts. *Organic Letters*, **2016**, 18, 5352-5355	6.2	29
112	Eine Studie zur Koordination von Vinylallenen und zu einer Folgereaktion □der neuen Rhodium-katalysierten carbonylierenden [4 + 1]-Cycloaddition. *Angewandte Chemie*, **1995**, 107, 2943-2946	3.6	28
111	Aromatic C-H amination: a radical approach for adding new functions into biology- and materials-oriented aromatics. *Organic and Biomolecular Chemistry*, **2017**, 15, 6071-6075	3.9	27
110	Die 1,1-Carboborierung von Bis(alkinyl)phosphanen als Zugang zum Phospholgerüst. *Angewandte Chemie*, **2012**, 124, 1990-1993	3.6	27
109	2-Pyridyldimethylsilyl as a Removable Hydrophilic Group in Aqueous Diels-Alder Reactions This work was supported by a Grant-in-Aid for Scientific Research from the Ministry of Education, Science, Sports, and Culture, Japan, and in part by the Mitsubishi Foundation. We thank Professor Kazunari Akiyoshi (Kyoto University) for assistance with dynamic light-scattering experiments and	16.4	27
108	Oxidation of 2-Pyridyldimethylsilyl Group to Hydroxyl Group by H2O2/KF. Implication of Fluoride Ion Accelerated 2-Pyridyl□Silyl Bond Cleavage. *Journal of Organic Chemistry*, **1999**, 64, 8709-8714	4.2	27
107	Synthesis of Nitrogen-Containing Polyaromatics by Aza-Annulative □Extension of Unfunctionalized Aromatics. *Angewandte Chemie - International Edition*, **2020**, 59, 6383-6388	16.4	26
106	Synthesis of open-shell ladder □ystems by catalytic C-H annulation of diarylacetylenes. *Chemical Science*, **2016**, 7, 650-654	9.4	25
105	A Remarkable Effect of Silyl Substitution on Electrocyclization of Vinylallenes. *Angewandte Chemie International Edition in English*, **1995**, 34, 1476-1477		25

104	Synthesis of Octaaryl Naphthalenes and Anthracenes with Different Substituents. *Angewandte Chemie - International Edition*, **2017**, 56, 15010-15013	16.4	24
103	Palladium-catalyzed tetraallylation of C60 with allyl chloride and allylstannane: mechanism, regioselectivity, and enantioselectivity. *Chemical Science*, **2012**, 3, 3474	9.4	24
102	Controlling the Circadian Clock with High Temporal Resolution through Photodosing. *Journal of the American Chemical Society*, **2019**, 141, 15784-15791	16.4	23
101	C-H Arylation of Phenanthrene with Trimethylphenylsilane by Pd/o-Chloranil Catalysis: Computational Studies on the Mechanism, Regioselectivity, and Role of o-Chloranil. *Journal of the American Chemical Society*, **2018**, 140, 2196-2205	16.4	23
100	Late-Stage Functionalization of Arylacetic Acids by Photoredox-Catalyzed Decarboxylative Carbon-Heteroatom Bond Formation. *Chemistry - A European Journal*, **2018**, 24, 9254-9258	4.8	23
99	Photopatterning of Poly(arylene dienylene) by the Photoacid-Catalyzed Deprotection–Elimination Reaction of a Precursor Polymer. *Macromolecules*, **2010**, 43, 1425-1429	5.5	23
98	Synthesis of multiply arylated pyridines. *Tetrahedron*, **2017**, 73, 3669-3676	2.4	22
97	Palladium-free synthesis of [10]cycloparaphenylene. *Tetrahedron*, **2015**, 71, 4500-4503	2.4	21
96	Discovery of Shoot Branching Regulator Targeting Strigolactone Receptor DWARF14. *ACS Central Science*, **2018**, 4, 230-234	16.8	20
95	Late-Stage C–H Bond Arylation of Spirocyclic π Ligands for Analysis of Complementary π Receptor Surface. *European Journal of Organic Chemistry*, **2012**, 2012, 5972-5979	3.2	20
94	Palladium-catalyzed direct phenylation of perylene: structural and optical properties of 3,4,9-triphenylperylene and 3,4,9,10-tetraphenylperylene. *Tetrahedron*, **2013**, 69, 4371-4374	2.4	20
93	One-Step Annulative π-Extension of Alkynes with Dibenzosiloles or Dibenzogermoles by Palladium/o-chloranil Catalysis. *Angewandte Chemie*, **2017**, 129, 1381-1384	3.6	19
92	Polymorphism of [6]Cycloparaphenylene for Packing Structure-dependent Host–Guest Interaction. *Chemistry Letters*, **2017**, 46, 855-857	1.7	19
91	Einstufiger Aufbau neungliedriger Kohlenstoffringe durch eine neue [4+4+1]-Cycloaddition. *Angewandte Chemie*, **1998**, 110, 3616-3619	3.6	19
90	Step-Growth Annulative π-Extension Polymerization for Synthesis of Cove-Type Graphene Nanoribbons. *Journal of the American Chemical Society*, **2020**, 142, 1686-1691	16.4	19
89	Dehydrogenative Synthesis of 2,2′-Bipyridyls through Regioselective Pyridine Dimerization. *Angewandte Chemie - International Edition*, **2019**, 58, 8341-8345	16.4	18
88	Discovery of synthetic small molecules that enhance the number of stomata: C-H functionalization chemistry for plant biology. *Chemical Communications*, **2017**, 53, 9632-9635	5.8	18
87	Rhodium-vermittelte, intermolekulare [4+2]-Cycloadditionen von nichtaktivierten Substraten. *Angewandte Chemie*, **1998**, 110, 2362-2364	3.6	18

86	Palladium-Catalyzed Convergent Synthesis and Properties of Conjugated Dendrimers Based on Triarylethene Branching. *Angewandte Chemie*, **2006**, 118, 2464-2469	3.6	18
85	Double-Helix Supramolecular Nanofibers Assembled from Negatively Curved Nanographenes. *Journal of the American Chemical Society*, **2021**, 143, 5465-5469	16.4	18
84	Rh-catalyzed regiodivergent hydrosilylation of acyl aminocyclopropanes controlled by monophosphine ligands. *Chemical Science*, **2017**, 8, 3799-3803	9.4	17
83	Recent advances in acetylene-based helical oligomers and polymers: Synthesis, structures, and properties. *Tetrahedron Letters*, **2018**, 59, 1531-1547	2	17
82	Electrically Activated Conductivity and White Light Emission of a Hydrocarbon Nanoring□Iodine Assembly. *Angewandte Chemie*, **2017**, 129, 11348-11354	3.6	16
81	Catalytic □Arylation of Ketones with Heteroaromatic Esters. *Synlett*, **2017**, 28, 2599-2603	2.2	16
80	Two-step synthesis of a red-emissive warped nanographene derivative a ten-fold C-H borylation. *Chemical Science*, **2019**, 10, 9038-9041	9.4	16
79	2-Pyridyldimethylsilyl Group as a Removable Hydrophilic Group in Aqueous Organic Reactions: Formation of Molecular Aggregates and Dramatic Rate Enhancement in Diels□Alder Reactions. *Advanced Synthesis and Catalysis*, **2002**, 344, 441-451	5.6	16
78	Construction of Heptagon-Containing Molecular Nanocarbons. *Angewandte Chemie - International Edition*, **2021**, 60, 23508-23532	16.4	16
77	Synthesis of Highly Twisted, Nonplanar Aromatic Macrocycles Enabled by an Axially Chiral 4,5-Diphenylphenanthrene Building Block. *Journal of the American Chemical Society*, **2020**, 142, 3246-3253	16.4	15
76	A Water-Soluble Warped Nanographene: Synthesis and Applications for Photoinduced Cell Death. *Angewandte Chemie*, **2018**, 130, 2924-2928	3.6	15
75	Modular synthesis of heptaarylindole. *Organic and Biomolecular Chemistry*, **2018**, 16, 3771-3776	3.9	15
74	Carbon Nanosheets by Morphology-Retained Carbonization of Two-Dimensional Assembled Anisotropic Carbon Nanorings. *Angewandte Chemie*, **2018**, 130, 9827-9831	3.6	15
73	Palladium-Catalyzed Esterification of Carboxylic Acids with Aryl Iodides. *Organic Letters*, **2018**, 20, 2428-2432	5.2	14
72	The use of hydrophilic groups in aqueous organic reactions. *Chemical Record*, **2002**, 2, 213-24	6.6	14
71	Chemical Synthesis of Carbon Nanorings and Nanobelts. *Accounts of Materials Research*, **2021**, 2, 681-691	7.5	14
70	Synthesis of Polybenzoacenes: Annulative Dimerization of Phenylene Triflate by Twofold C-H Activation. *Angewandte Chemie - International Edition*, **2020**, 59, 6551-6554	16.4	13
69	A Super Strong Engineered Auxin-TIR1 Pair. *Plant and Cell Physiology*, **2018**, 59, 1538-1544	4.9	13

68	Graphene Nanoribbon Dielectric Passivation Layers for Graphene Electronics. *ACS Applied Nano Materials*, **2019**, 2, 4825-4831	5.6	13
67	Oxidative Homocoupling Reaction of Aryltrimethylsilanes by Pd/o-Chloranil Catalysis. *Chemistry Letters*, **2017**, 46, 1701-1704	1.7	13
66	Theoretical Elucidation of Potential Enantioselectivity in a Pd-Catalyzed Aromatic C-H Coupling Reaction. *Journal of Organic Chemistry*, **2017**, 82, 4900-4906	4.2	12
65	Direct Coupling of Naphthalene and Sulfonimides Promoted by DDQ and Blue Light. *Chemistry Letters*, **2017**, 46, 1014-1016	1.7	12
64	Synthesis of Octaaryl Naphthalenes and Anthracenes with Different Substituents. *Angewandte Chemie*, **2017**, 129, 15206-15209	3.6	12
63	Bay-Region-Selective Annulative Extension (APEX) of Perylene Diimides with Arynes. *Synlett*, **2019**, 30, 423-428	2.2	12
62	Microwave-assisted regioselective direct CH arylation of thiazole derivatives leading to increased 1 receptor affinity. *MedChemComm*, **2016**, 7, 327-331	5	12
61	Toward Ideal Arene Assembly: Catalytic C-H Bond Arylation of Aromatic Compounds. *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, **2010**, 68, 1132-1141	0.2	12
60	Creation of negatively curved polyaromatics enabled by annulative coupling that forms an eight-membered ring. *Nature Catalysis*, **2020**, 3, 710-718	36.5	12
59	Reductive stability evaluation of 6-azopurine photoswitches for the regulation of CKI activity and circadian rhythms. *Organic and Biomolecular Chemistry*, **2021**, 19, 2312-2321	3.9	12
58	Infinitene: A Helically Twisted Figure-Eight [12]Circulene Topoisomer.. *Journal of the American Chemical Society*, **2021**,	16.4	12
57	Molecular Nanocarbon Science: Present and Future. *Nano Letters*, **2020**, 20, 4718-4720	11.5	11
56	Negatively Curved Warped Nanographene Self-Assembled on Metal Surfaces. *Journal of the American Chemical Society*, **2019**, 141, 13158-13164	16.4	11
55	2,4- and 2,5-Disubstituted Arylthiazoles: Rapid Synthesis by CH Coupling and Biological Evaluation. *European Journal of Organic Chemistry*, **2014**, 2014, 3387-3394	3.2	11
54	Photopharmacological Manipulation of Mammalian CRY1 for Regulation of the Circadian Clock. *Journal of the American Chemical Society*, **2021**, 143, 2078-2087	16.4	11
53	Bond Hydroboration of Cyclopropanes. *Journal of the American Chemical Society*, **2020**, 142, 11306-11313	16.4	10
52	An Isoform-Selective Modulator of Cryptochrome 1 Regulates Circadian Rhythms in Mammals. *Cell Chemical Biology*, **2020**, 27, 1192-1198.e5	8.2	10
51	Synthesis and Structure of [9]Cycloparaphenylene Catenane: An All-Benzene Catenane Consisting of Small Rings. *Organic Letters*, **2020**, 22, 1067-1070	6.2	10

50	Hole-transporting materials based on thiophene-fused arenes from sulfur-mediated thienannulations. *Materials Chemistry Frontiers*, **2018**, 2, 275-280	7.8	10
49	Six-fold C-H borylation of hexa--hexabenzocoronene. *Beilstein Journal of Organic Chemistry*, **2020**, 16, 391-397	2.5	9
48	Palladium-catalyzed CH Arylation of Pyridines with Aryl Triflates. *Chemistry Letters*, **2016**, 45, 529-531	1.7	9
47	Directed Intermolecular Carbomagnesation across Vinylsilanes: 2-PyMe2Si Group as a Removable Directing Group. *Angewandte Chemie*, **2001**, 113, 2399-2401	3.6	9
46	Pyridylsilyl Group as a Multifunctional Phase Tag for Solution-Phase Synthesis.. *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, **2001**, 59, 1086-1094	0.2	9
45	"Janus" efficacy of CX-5011: CK2 inhibition and methuosis induction by independent mechanisms. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2020**, 1867, 118807	4.9	9
44	Reversible modulation of circadian time with chronophotopharmacology. *Nature Communications*, **2021**, 12, 3164	17.4	9
43	Discovery of Plant Growth Stimulants by C-H Arylation of 2-Azahypoxanthine. *Organic Letters*, **2018**, 20, 5684-5687	6.2	9
42	An axially chiral 1,1Pbiazulene and its Extended derivative: synthesis, structures and properties. *Chemical Communications*, **2019**, 55, 9606-9609	5.8	8
41	Roles of Base in the Pd-Catalyzed Annulative Chlorophenylene Dimerization. *ACS Catalysis*, **2020**, 10, 3059-3073	13.1	7
40	Chelation-Controlled MizorokiHeck Reactions259-279		7
39	2-Pyridyldimethylsilyl as a Removable Hydrophilic Group in Aqueous DielsAlder Reactions. *Angewandte Chemie*, **2001**, 113, 1108-1110	3.6	7
38	Diversity-oriented synthesis of nanographenes enabled by dearomative annulative extension. *Nature Communications*, **2021**, 12, 3940	17.4	7
37	Synthesis of Natural Products and Pharmaceuticals via Catalytic C?H Functionalization **2016**, 505-550		7
36	Dissecting plant hormone signaling with synthetic molecules: perspective from the chemists. *Current Opinion in Plant Biology*, **2019**, 47, 32-37	9.9	7
35	Programmable synthesis of multiply arylated cubanes through C-H metalation and arylation. *Chemical Science*, **2020**, 11, 7672-7675	9.4	7
34	Synthesis of cycloiptycenes from carbon nanobelts. *Chemical Science*, **2020**, 11, 6775-6779	9.4	6
33	Selective Transformation of Strychnine and 1,2-Disubstituted Benzenes by CH Borylation. *CheM*, **2020**, 6, 985-993	16.2	6

32	Synthesis of Nitrogen-Containing Polyaromatics by Aza-Annulative Extension of Unfunctionalized Aromatics. *Angewandte Chemie*, **2020**, 132, 6445-6450	3.6	6
31	Ultra-narrow-band near-infrared thermal exciton radiation in intrinsic one-dimensional semiconductors. *Nature Communications*, **2018**, 9, 3144	17.4	6
30	Gold-Catalyzed CH Imidation of Polycyclic Aromatic Hydrocarbons. *Asian Journal of Organic Chemistry*, **2018**, 7, 1372-1375	3	6
29	A theoretical study on the strain energy of helicene-containing carbon nanobelts. *Chemical Communications*, **2020**, 56, 15044-15047	5.8	6
28	Thiazole-Based Receptor Ligands: Diversity by Late-Stage C-H Arylation of Thiazoles, Structure-Affinity and Selectivity Relationships, and Molecular Interactions. *ChemMedChem*, **2017**, 12, 1070-1080	3.7	5
27	Chemical Synthesis of Cycloparaphenylenes. *ChemistrySelect*, **2017**, 2,	1.8	5
26	Pd-Catalyzed Decarbonylative C-H Coupling of Azoles and Aromatic Esters. *Chemistry - an Asian Journal*, **2018**, 13, 2393-2396	4.5	5
25	Synthesis of a Heptaarylisoquinoline: Unusual Disconnection for Constructing Isoquinoline Frameworks. *Chemistry Letters*, **2018**, 47, 968-970	1.7	5
24	Carbomagnesiation Reactions631-679		5
23	Bemerkenswerter Einfluß von Silylsubstituenten auf den elektrocyclischen Ringschluß von Vinylallenen. *Angewandte Chemie*, **1995**, 107, 1649-1650	3.6	5
22	A N-terminally deleted form of the CK2 catalytic subunit is sufficient to support cell viability. *Biochemical and Biophysical Research Communications*, **2020**, 531, 409-415	3.4	5
21	Photoredox-Catalyzed Benzylic Esterification via Radical-Polar Crossover. *Organic Letters*, **2021**,	6.2	5
20	Construction of Heptagon-Containing Molecular Nanocarbons. *Angewandte Chemie*, **2021**, 133, 23700	3.6	5
19	Armchair and Chiral Carbon Nanobelts: Scholl Reaction in Strained Nanorings. *CheM*, **2019**, 5, 746-748	16.2	4
18	Unidirectional molecular assembly alignment on graphene enabled by nanomechanical symmetry breaking. *Scientific Reports*, **2018**, 8, 2333	4.9	4
17	Synthesis of a Zigzag Carbon Nanobelt		4
16	Rapid Access to Kinase Inhibitor Pharmacophores by Regioselective C-H Arylation of Thieno[2,3-]pyrimidine. *Organic Letters*, **2020**, 22, 1547-1551	6.2	4
15	Synthesis of sterically hindered 4,5-diarylphenanthrenes acid-catalyzed bisannulation of benzenediacetaldehydes with alkynes. *Chemical Science*, **2019**, 10, 5470-5475	9.4	3

14	Synthesis of Polybenzoacenes: Annulative Dimerization of Phenylene Triflate by Twofold C–H Activation. *Angewandte Chemie*, **2020**, 132, 6613-6616	3.6	3
13	Synthesis of octagon-containing molecular nanocarbons.. *Chemical Science*, **2022**, 13, 1848-1868	9.4	3
12	Synthesis of a Zigzag Carbon Nanobelt		2
11	Stepwise Generation of Mono-, Di-, and Triply-Reduced Warped Nanographenes: Charge-Dependent Aromaticity, Surface Nonequivalence, Swing Distortion, and Metal Binding Sites. *Angewandte Chemie - International Edition*, **2021**, 60, 25445-25453	16.4	2
10	C-H Acyloxylation of Polycyclic Aromatic Hydrocarbons.. *Organic Letters*, **2022**, 24, 602-607	6.2	1
9	Annulative π-Extension (APEX) Reactions for Precise Synthesis of Polycyclic Aromatic Compounds. *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, **2020**, 78, 671-682	0.2	1
8	Small Molecules Modulating Mammalian Biological Clocks: Exciting New Opportunities for Synthetic Chemistry. *CheM*, **2020**, 6, 2186-2198	16.2	1
7	Exciton Spatial Dynamics and Self-Trapping in Carbon Nanocages. *Journal of Physical Chemistry Letters*, **2021**, 12, 224-231	6.4	1
6	Directed Intermolecular Carbomagnesation across Vinylsilanes: 2-PyMe(2)Si Group as a Removable Directing Group This work was supported by a Grant-in-Aid for Scientific Research from the Ministry of Education, Science, Sports, and Culture, Japan, and in part by the Mitsubishi Foundation. K.M. thanks the Japan Society for the Promotion of Science for Young Scientists.. *Angewandte Chemie* -	16.4	1
5	Identification of stomatal-regulating molecules from de novo arylamine collection through aromatic C-H amination.. *Scientific Reports*, **2022**, 12, 949	4.9	0
4	Development of potent inhibitors for strigolactone receptor DWARF 14. *Chemical Communications*, **2020**, 56, 14917-14919	5.8	0
3	Dehydrogenative Synthesis of 2,2?-Bipyridyls through Regioselective Pyridine Dimerization. *Angewandte Chemie*, **2019**, 131, 8429	3.6	
2	Titelbild: Synthesis of Polybenzoacenes: Annulative Dimerization of Phenylene Triflate by Twofold C–H Activation (Angew. Chem. 16/2020). *Angewandte Chemie*, **2020**, 132, 6353-6353	3.6	
1	Synthesis and properties of helically-folded poly(arylenediethynylene)s. *Polymer Chemistry*, **2021**, 12, 3290-3298	4.9	