Naoki Aratani

List of Publications by Citations

253 papers	11,760 citations	50 h-index	101 g-index
288 ext. papers	12,754 ext. citations	6.9 avg, IF	6.05 L-index

#	Paper	IF	Citations
253	Ultrahigh porosity in metal-organic frameworks. *Science*, **2010**, 329, 424-8	33.3	2869
252	Discrete cyclic porphyrin arrays as artificial light-harvesting antenna. *Accounts of Chemical Research*, **2009**, 42, 1922-34	24.3	466
251	Cyclic porphyrin arrays as artificial photosynthetic antenna: synthesis and excitation energy transfer. *Chemical Society Reviews*, **2007**, 36, 831-45	58.5	351
250	Extremely Long, Discrete meso - meso-Coupled Porphyrin Arrays This work was supported by Grant-in-Aids for Scientific Research (No. 11136221 and 11223205) from the Ministry of Education, Science, Sports, and Culture of Japan and by CREST (Core Research for Evolutional Science and Technology) from the Japan Science and Technology Corporation (JST). The work at KRISS was	16.4	301
249	Metalation of expanded porphyrins: a chemical trigger used to produce molecular twisting and MÖbius aromaticity. *Angewandte Chemie - International Edition*, **2008**, 47, 681-4	16.4	267
248	Kinetically blocked stable heptazethrene and octazethrene: closed-shell or open-shell in the ground state?. *Journal of the American Chemical Society*, **2012**, 134, 14913-22	16.4	213
247	Photophysical properties of long rodlike meso-meso-linked zinc(II) porphyrins investigated by time-resolved laser spectroscopic methods. *Journal of the American Chemical Society*, **2001**, 123, 76-86	16.4	208
246	A directly fused tetrameric porphyrin sheet and its anomalous electronic properties that arise from the planar cyclooctatetraene core. *Journal of the American Chemical Society*, **2006**, 128, 4119-27	16.4	205
245	Relationship between two-photon absorption and the pi-conjugation pathway in porphyrin arrays through dihedral angle control. *Journal of the American Chemical Society*, **2006**, 128, 1700-4	16.4	193
244	A porphyrin nanobarrel that encapsulates C(60). *Journal of the American Chemical Society*, **2010**, 132, 16356-7	16.4	151
243	Directly meso-meso linked porphyrin rings: synthesis, characterization, and efficient excitation energy hopping. *Journal of the American Chemical Society*, **2005**, 127, 236-46	16.4	146
242	Excitation energy transport processes of porphyrin monomer, dimer, cyclic trimer, and hexamer probed by ultrafast fluorescence anisotropy decay. *Journal of the American Chemical Society*, **2003**, 125, 5849-60	16.4	145
241	Metalation of Expanded Porphyrins: A Chemical Trigger Used To Produce Molecular Twisting and MÖbius Aromaticity. *Angewandte Chemie*, **2008**, 120, 693-696	3.6	138
240	Synthesis, Structure, and Air-stable N-type Field-Effect Transistor Behaviors of Functionalized Octaazanonacene-8,19-dione. *Angewandte Chemie - International Edition*, **2015**, 54, 6292-6	16.4	134
239	Photochemistry of covalently-linked multi-porphyrinic systems. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2002**, 3, 25-52	16.4	126
238	Large two-photon absorption (TPA) cross-section of directly linked fused diporphyrins. *Journal of Physical Chemistry A*, **2005**, 109, 2996-9	2.8	122
237	A dodecameric porphyrin wheel. *Journal of the American Chemical Society*, **2004**, 126, 4468-9	16.4	122

236	meso-Trifluoromethyl-substituted expanded porphyrins. *Chemistry - A European Journal*, **2006**, 12, 4909-18	4.8	116
235	pi-Conjugation enlargement toward the creation of multi-porphyrinic systems with large two-photon absorption properties. *Chemistry - an Asian Journal*, **2009**, 4, 1172-82	4.5	114
234	High fidelity self-sorting assembling of meso-cinchomeronimide appended meso-meso linked Zn(II) diporphyrins. *Journal of the American Chemical Society*, **2006**, 128, 7670-8	16.4	105
233	Efficient excitation energy transfer in long meso-meso linked Zn(II) porphyrin arrays bearing a 5,15-bisphenylethynylated Zn(II) porphyrin acceptor. *Journal of the American Chemical Society*, **2003**, 125, 9668-81	16.4	103
232	Giant meso-meso-linked porphyrin arrays of micrometer molecular length and their fabrication. *Chemistry - A European Journal*, **2005**, 11, 3389-404	4.8	93
231	Synthesis of brominated directly fused diporphyrins through gold(III)-mediated oxidation. *Organic Letters*, **2006**, 8, 4141-4	6.2	92
230	Synthesis of meso-meso linked hybrid porphyrin arrays by Pd-catalyzed cross-coupling reaction. *Organic Letters*, **2001**, 3, 4213-6	6.2	92
229	Thermal splitting of Bis-Cu(II) octaphyrin(1.1.1.1.1.1.1.1) into two Cu(II) porphyrins. *Journal of the American Chemical Society*, **2004**, 126, 3046-7	16.4	86
228	Rylene Ribbons with Unusual Diradical Character. *CheM*, **2017**, 2, 81-92	16.2	82
227	Giant porphyrin wheels with large electronic coupling as models of light-harvesting photosynthetic antenna. *Chemistry - A European Journal*, **2006**, 12, 1319-27	4.8	81
226	Extrem lange, diskrete Ketten aus meso-meso-verknüpften Porphyrinen. *Angewandte Chemie*, **2000**, 112, 1517-1521	3.6	81
225	Switching charge-transfer characteristics from p-type to n-type through molecular "doping" (co-crystallization). *Chemical Science*, **2016**, 7, 3851-3856	9.4	80
224	Excited-State Energy Transfer Processes in Phenylene- and Biphenylene-Linked and Directly-Linked Zinc(II) and Free-Base Hybrid Diporphyrins. *Journal of Physical Chemistry A*, **2001**, 105, 4200-4210	2.8	80
223	Macrocyclic Polyradicaloids with Unusual Super-ring Structure and Global Aromaticity. *CheM*, **2018**, 4, 1586-1595	16.2	79
222	A Diradical Approach towards BODIPY-Based Dyes with Intense Near-Infrared Absorption around ~1100 nm. *Angewandte Chemie - International Edition*, **2016**, 55, 2815-9	16.4	79
221	Two-dimensionally extended porphyrin tapes: synthesis and shape-dependent two-photon absorption properties. *Chemistry - A European Journal*, **2008**, 14, 8279-89	4.8	77
220	Toward Tetraradicaloid: The Effect of Fusion Mode on Radical Character and Chemical Reactivity. *Journal of the American Chemical Society*, **2016**, 138, 1065-77	16.4	76
219	Synthesis of extremely pi-extended porphyrin tapes from hybrid meso-meso linked porphyrin arrays: an approach towards the conjugation length. *Chemistry - an Asian Journal*, **2009**, 4, 1248-56	4.5	74

218	Synthesis of carbazole-containing porphyrinoids by a multiple annulation strategy: a core-modified and □expanded porphyrin. *Angewandte Chemie - International Edition*, **2011**, 50, 5691-4	16.4	72
217	Chiral self-discriminative self-assembling of meso□meso linked diporphyrins. *Coordination Chemistry Reviews*, **2007**, 251, 2743-2752	23.2	70
216	Electrical conduction through linear porphyrin arrays. *Journal of the American Chemical Society*, **2003**, 125, 11062-4	16.4	68
215	Metal-dependent regioselective oxidative coupling of 5,10,15-triarylporphyrins with DDQ-Sc(OTf)3 and formation of an oxo-quinoidal porphyrin. *Organic Letters*, **2003**, 5, 2079-82	6.2	63
214	Synthesis and properties of hybrid porphyrin tapes. *Chemistry - A European Journal*, **2011**, 17, 14400-12	4.8	61
213	A New Strategy for Construction of Covalently Linked Giant Porphyrin Arrays with One, Two, and Three Dimensionally Arranged Architectures. *Bulletin of the Chemical Society of Japan*, **2001**, 74, 1361-1379	5.1	59
212	Rewritable multilevel memory performance of a tetraazatetracene donor-acceptor derivative with good endurance. *Chemistry - an Asian Journal*, **2015**, 10, 116-9	4.5	58
211	2,5-Thienylene-bridged triangular and linear porphyrin trimers. *Angewandte Chemie - International Edition*, **2008**, 47, 6004-7	16.4	58
210	Directly Pd(II)-bridged porphyrin belts with remarkable curvatures. *Journal of the American Chemical Society*, **2010**, 132, 11868-9	16.4	54
209	Bis-rhodium hexaphyrins: metalation of [28]hexaphyrin and a smooth H□kel aromatic-antiaromatic interconversion. *Chemical Communications*, **2009**, 3762-4	5.8	53
208	Porphyrin□hexaphyrin hybrid tapes. *Chemical Science*, **2011**, 2, 1414	9.4	52
207	Pyrene-Containing Twistarene: Twelve Benzene Rings Fused in a Row. *Angewandte Chemie - International Edition*, **2018**, 57, 13555-13559	16.4	51
206	Enhancement of External Quantum Efficiency of Red Phosphorescent Organic Light-Emitting Devices with Facially Encumbered and Bulky PtII Porphyrin Complexes. *Advanced Functional Materials*, **2006**, 16, 515-519	15.6	51
205	Effective meso fabrications of subporphyrins. *Angewandte Chemie - International Edition*, **2012**, 51, 5593-7	16.4	50
204	A stable organic radical delocalized on a highly twisted pi system formed upon palladium metalation of a M□bius aromatic hexaphyrin. *Angewandte Chemie - International Edition*, **2010**, 49, 1489-91	16.4	50
203	Transient absorption anisotropy study of ultrafast energy transfer in porphyrin monomer, its direct meso□meso coupled dimer and trimer. *Journal of Chemical Physics*, **2001**, 114, 6750-6758	3.9	49
202	Excitation energy migration processes in cyclic porphyrin arrays probed by single molecule spectroscopy. *Journal of the American Chemical Society*, **2008**, 130, 1879-84	16.4	47
201	Z-Shaped Pentaleno-Acene Dimers with High Stability and Small Band Gap. *Angewandte Chemie - International Edition*, **2016**, 55, 2693-6	16.4	46

200	Synthesis of nanometer-scale porphyrin wheels of variable size. *Chemistry - A European Journal*, **2008**, 14, 582-95	4.8	43
199	Length and temperature dependence of electrical conduction through dithiolated porphyrin arrays. *Chemical Physics Letters*, **2005**, 412, 303-306	2.5	41
198	Synthesis and characterizations of free base and Cu(II) complex of a porphyrin sheet. *Tetrahedron*, **2008**, 64, 11433-11439	2.4	40
197	Synthesis of Doubly Strapped meso meso-Linked Porphyrin Arrays and Triply Linked Conjugated Porphyrin Tapes. *European Journal of Organic Chemistry*, **2006**, 2006, 3193-3204	3.2	40
196	Directly linked porphyrin arrays. *Chemical Record*, **2003**, 3, 225-34	6.6	40
195	Exploration of Giant Functional Porphyrin Arrays. *Bulletin of the Chemical Society of Japan*, **2015**, 88, 1-27	5.1	39
194	Excitation energy migration in a dodecameric porphyrin wheel. *Journal of Physical Chemistry B*, **2005**, 109, 8643-51	3.4	39
193	Poly(zinc(II)-5,15-porphyrinylene) from silver(I)-promoted oxidation of zinc(II)-5,15-diarylporphyrins. *Chemical Communications*, **2000**, 197-198	5.8	39
192	Ground and excited states of linked and fused zinc porphyrin dimers: Symmetry adapted cluster (SAC) configuration interaction (CI) study. *Journal of Chemical Physics*, **2002**, 117, 11196-11207	3.9	38
191	Directly Linked Corrole Oligomers via Facile Oxidative 3 ? Coupling Reaction. *Bulletin of the Chemical Society of Japan*, **2012**, 85, 558-562	5.1	37
190	Diprotonated [28]hexaphyrins(1.1.1.1.1.1): triangular antiaromatic macrocycles. *Angewandte Chemie - International Edition*, **2014**, 53, 3427-31	16.4	36
189	Structural factors determining photophysical properties of directly linked zinc(II) porphyrin dimers: linking position, dihedral angle, and linkage length. *Journal of Physical Chemistry B*, **2009**, 113, 10619-27	3.4	35
188	Porphyrin "Lego block" strategy to construct directly meso-beta doubly linked porphyrin rings. *Angewandte Chemie - International Edition*, **2010**, 49, 3617-20	16.4	35
187	Single-molecule spectroscopic investigation of energy migration processes in cyclic porphyrin arrays. *Journal of the American Chemical Society*, **2007**, 129, 3539-44	16.4	35
186	Monodisperse Giant Porphyrin Arrays. *Macromolecular Rapid Communications*, **2001**, 22, 725-740	4.8	35
185	Benzo[4,5]cyclohepta[1,2-]fluorene: an isomeric motif for pentacene containing linearly fused five-, six- and seven-membered rings. *Chemical Science*, **2016**, 7, 6176-6181	9.4	33
184	A to-2,5-thienylene-bridged cyclic porphyrin tetramer: its rational synthesis and 1 : 2 binding mode with C60. *Chemical Science*, **2011**, 2, 748	9.4	33
183	Understanding the structure-determining solid fluorescence of an azaacene derivative. *Journal of Materials Chemistry C*, **2017**, 5, 8869-8874	7.1	32

182	Effect of conformational heterogeneity on excitation energy transfer efficiency in directly meso-meso linked Zn(II) porphyrin arrays. *Journal of Physical Chemistry B*, **2005**, 109, 11223-30	3.4	32
181	Discrete Giant Porphyrin Arrays: Challenges to Molecular Size, Length and the Extent of Electronic Conjugation. *Synlett*, **2001**, 2001, 1663-1674	2.2	32
180	Hexaphyrin fused to two anthracenes. *Angewandte Chemie - International Edition*, **2012**, 51, 9856-9	16.4	31
179	Single molecule spectroscopic investigation on conformational heterogeneity of directly linked zinc(II) porphyrin arrays. *Journal of the American Chemical Society*, **2005**, 127, 15201-6	16.4	31
178	Effective meso Fabrications of Subporphyrins. *Angewandte Chemie*, **2012**, 124, 5691-5695	3.6	30
177	A Stable Organic Radical Delocalized on a Highly Twisted System Formed Upon Palladium Metalation of a Möbius Aromatic Hexaphyrin. *Angewandte Chemie*, **2010**, 122, 1531-1533	3.6	30
176	-Cyclopentadienyliron(II)-[14]triphyrin(2.1.1) sandwich compounds: synthesis, characterization, and stable redox interconversion. *Angewandte Chemie - International Edition*, **2013**, 52, 7306-9	16.4	29
175	Structural dependence on excitation energy migration processes in artificial light harvesting cyclic zinc(II) porphyrin arrays. *Journal of Physical Chemistry B*, **2009**, 113, 15074-82	3.4	29
174	Exploration of electronically interactive cyclic porphyrin arrays. *Journal of Organometallic Chemistry* , **2007**, 692, 148-155	2.3	29
173	Experimental and theoretical investigations into the paratropic ring current of a porphyrin sheet. *Chemistry - an Asian Journal*, **2007**, 2, 860-6	4.5	29
172	The importance of a beta-beta bond for long-range antiferromagnetic coupling in directly linked copper(II) and silver(II) diporphyrins. *Angewandte Chemie - International Edition*, **2005**, 44, 6899-901	16.4	29
171	Synthesis, Structure, and Air-stable N-type Field-Effect Transistor Behaviors of Functionalized Octaazanonacene-8,19-dione. *Angewandte Chemie*, **2015**, 127, 6390-6394	3.6	28
170	Crystallization-Induced Emission of Azobenzene Derivatives. *Angewandte Chemie - International Edition*, **2019**, 58, 14173-14178	16.4	28
169	Experimental and Theoretical Investigations of Surface-Assisted Graphene Nanoribbon Synthesis Featuring Carbon-Fluorine Bond Cleavage. *ACS Nano*, **2017**, 11, 6204-6210	16.7	27
168	meso-Trifluoromethyl-substituted Subporphyrin from Ring-splitting Reaction ofmeso-Trifluoromethyl-substituted [32]Heptaphyrin(1.1.1.1.1.1.1). *Chemistry Letters*, **2010**, 39, 439-441	1.7	27
167	2,5-Thienylene-Bridged Triangular and Linear Porphyrin Trimers. *Angewandte Chemie*, **2008**, 120, 6093-6096	3.6	27
166	Synthesis and properties of boron complexes of [14]triphyrins(2.1.1). *Chemical Communications*, **2013**, 49, 8955-7	5.8	26
165	Strategic synthesis of 2,6-pyridylene-bridged beta-to-beta porphyrin nanorings through cross-coupling. *Chemistry - A European Journal*, **2010**, 16, 3009-12	4.8	26

164	Pyrrole-bridged porphyrin nanorings. *Chemistry - A European Journal*, **2010**, 16, 13320-4	4.8	26
163	Perturbation of Electronic States and Energy Relaxation Dynamics in a Series of Phenylene Bridged ZnIIPorphyrin Dimers. *Journal of Physical Chemistry C*, **2007**, 111, 14881-14888	3.8	26
162	Synthesis of a Porphyrin(2.1.2.1) Nanobelt and Its Ability To Bind Fullerene. *Organic Letters*, **2019**, 21, 2069-2072	6.2	25
161	Aromatic-to-antiaromatic switching in triply linked porphyrin bis(rhodium(I)) hexaphyrin hybrids. *Chemistry - an Asian Journal*, **2012**, 7, 889-93	4.5	25
160	Palladium-catalyzed dimerization of meso-bromoporphyrins: highly regioselective meso-beta coupling through unprecedented remote C-H bond cleavage. *Chemistry - A European Journal*, **2009**, 15, 12208-11	4.8	25
159	meso-Triaryl-Substituted Smaragdyrins: Facile Aromaticity Switching. *Journal of the American Chemical Society*, **2018**, 140, 16553-16559	16.4	25
158	An optically and thermally switchable electronic structure based on an anthracene-BODIPY conjugate. *Chemistry - A European Journal*, **2015**, 21, 4966-74	4.8	24
157	Direct comparison of a covalently-linked dyad and a 1:1 mixture of tetrabenzoporphyrin and fullerene as organic photovoltaic materials. *Chemical Communications*, **2014**, 50, 10379-81	5.8	24
156	Tetrabenzoperipentacene: Stable Five-Electron Donating Ability and a Discrete Triple-Layered Graphite Form in the Solid State. *Angewandte Chemie - International Edition*, **2015**, 54, 8175-8	16.4	24
155	Meso-beta doubly linked Zn(II) porphyrin trimers: distinct anti-versus-syn effects on their photophysical properties. *Organic Letters*, **2009**, 11, 3080-3	6.2	24
154	Full Characterization and Photoelectrochemical Behavior of Pyrene-fused Octaazadecacene and Tetraazaoctacene. *Chemistry - an Asian Journal*, **2016**, 11, 482-5	4.5	24
153	Rearrangements of a [36]octaphyrin triggered by nickel(II) metalation: metamorphosis to a directly meso-linked diporphyrin. *Angewandte Chemie - International Edition*, **2011**, 50, 11460-4	16.4	23
152	Möbius aromatic [28]hexaphyrin phosphonium adducts. *Chemistry - A European Journal*, **2011**, 17, 9028-31	4.8	23
151	Rapid intramolecular hole hopping in meso-meso and meta-phenylene linked linear and cyclic multiporphyrin arrays. *Journal of the American Chemical Society*, **2010**, 132, 1383-8	16.4	23
150	Fusing N-heteroacene analogues into one "kinked" molecule with slipped two-dimensional ladder-like packing. *Chemical Science*, **2016**, 7, 1309-1313	9.4	22
149	Synthesis of A2B6-type [36]octaphyrins: copper(II)-metalation-induced fragmentation reactions to porphyrins and N-fusion reactions of meso-(3-thienyl) substituents. *Chemistry - an Asian Journal*, **2012**, 7, 1340-6	4.5	22
148	Facile synthesis of meso-arylamino- and alkylaminosubporphyrins. *Chemistry - A European Journal*, **2012**, 18, 8929-33	4.8	22
147	Synthesis of Carbazole-Containing Porphyrinoids by a Multiple Annulation Strategy: A Core-Modified and Expanded Porphyrin. *Angewandte Chemie*, **2011**, 123, 5809-5812	3.6	22

146	Excitonic coupling strength and coherence length in the singlet and triplet excited states of meso-meso directly linked Zn(II)porphyrin arrays. *ChemPhysChem*, **2004**, 5, 57-67	3.2	22
145	Observation of quantum coherence for recurrence motion of exciton in anthracene dimers in solution. *Journal of the American Chemical Society*, **2003**, 125, 7192-3	16.4	22
144	Resonance Raman Spectroscopic Investigation of Directly Linked Zinc(II) Porphyrin Linear Arrays *Journal of Physical Chemistry A*, **2002**, 106, 2359-2368	2.8	22
143	A Diradical Approach towards BODIPY-Based Dyes with Intense Near-Infrared Absorption around 1100 nm. *Angewandte Chemie*, **2016**, 128, 2865-2869	3.6	21
142	A meso-meso directly linked octameric porphyrin square. *Chemical Communications*, **2008**, 4067-9	5.8	21
141	Synthesis and characterization of fully conjugated porphyrin tapes. *Israel Journal of Chemistry*, **2005** , 45, 293-302	3.4	21
140	A 1,3-phenylene-bridged hexameric porphyrin wheel and efficient excitation energy transfer along the wheel. *Chemistry - A European Journal*, **2013**, 19, 13328-36	4.8	20
139	Direct meso-alkynylation of porphyrins doubly assisted by pyridyl coordination. *Organic Letters*, **2012**, 14, 2778-81	6.2	20
138	Rational synthesis of A2B-type meso-triarylsubporphyrins. *Organic Letters*, **2012**, 14, 2694-7	6.2	20
137	An electron-deficient porphyrin tape. *Chemistry - an Asian Journal*, **2012**, 7, 1811-6	4.5	20
136	1 Synthetic Strategies Toward Multiporphyrinic Architectures. *Handbook of Porphyrin Science*, **2010**, 1-132	2.3	20
135	Fluorescence dynamics of directly meso-meso linked porphyrin rings probed by single molecule spectroscopy. *Journal of the American Chemical Society*, **2009**, 131, 1488-94	16.4	20
134	Synthesis and Characterization of an Iridium Triphyrin Complex. *Inorganic Chemistry*, **2016**, 55, 10106-10109	5.0	20
133	Side-chain engineering in a thermal precursor approach for efficient photocurrent generation. *Journal of Materials Chemistry A*, **2017**, 5, 14003-14011	13	19
132	Synthesis of a diimidazolylporphyrin pincer palladium complex. *Journal of Porphyrins and Phthalocyanines*, **2011**, 15, 534-538	1.8	19
131	Quantum-chemical investigation of the electroabsorption spectra of directly meso-meso-linked porphyrin arrays: essential role of charge-transfer excited states accidentally overlapping with soret bands. *Journal of Physical Chemistry A*, **2005**, 109, 703-13	2.8	19
130	Excitation Energy Migration in Multiporphyrin Arrays. *Bulletin of the Korean Chemical Society*, **2005**, 26, 19-31	1.2	19
129	An Anomalous Antiaromaticity That Arises from the Cycloheptatrienyl Anion Equivalent. *European Journal of Organic Chemistry*, **2018**, 2018, 4508-4511	3.2	19

128	Diprotonated [28]Hexaphyrins(1.1.1.1.1.1): Triangular Antiaromatic Macrocycles. *Angewandte Chemie*, **2014**, 126, 3495-3499	3.6	18
127	A meso-spiro[cyclopentadiene-isoporphyrin] from a phenylethynyl porphyrin platinum(II) pincer complex. *Angewandte Chemie - International Edition*, **2012**, 51, 3174-7	16.4	18
126	Electrical transport properties and their reproducibility for linear porphyrin arrays. *Materials Science and Engineering C*, **2006**, 26, 1023-1027	8.3	18
125	Oxidative direct coupling of metalloporphyrins. *Journal of Porphyrins and Phthalocyanines*, **2003**, 07, 264-269	1.8	18
124	STM images of individual porphyrin hexamers; meso-meso singly linked orthogonal hexamer and meso-meso, beta-beta, beta-beta triply-linked planar hexamer on Cu(100) surface. *Chemical Communications*, **2003**, 2986-7	5.8	18
123	A soluble bispentacenequinone precursor for creation of directly 6,6?-linked bispentacenes and a tetracyanobipentacenequinodimethane. *RSC Advances*, **2013**, 3, 15310	3.7	17
122	Determination of the superradiance coherence length of directly linked linear porphyrin arrays at the single-molecule level. *Angewandte Chemie - International Edition*, **2009**, 48, 4323-7	16.4	17
121	Porphyrin Lego Block Strategy To Construct Directly meso Doubly Linked Porphyrin Rings. *Angewandte Chemie*, **2010**, 122, 3699-3702	3.6	17
120	Directly linked dehydropurpurin-porphyrin dyads from Ag(I)-promoted oxidation of meso-phenylethynyl substituted zinc(II) porphyrins. *Chemical Communications*, **2001**, 1920-1	5.8	17
119	Synthesis and electrochemical properties of porphycene-diketopyrrolopyrrole conjugates. *Organic Letters*, **2014**, 16, 3508-11	6.2	16
118	Observation of Coherent Recurrence Motion of Excitons in Anthracene Dimers. *Bulletin of the Chemical Society of Japan*, **2004**, 77, 1959-1971	5.1	16
117	A novel D A small molecule with N -heteroacene as acceptor moiety for photovoltaic application. *Dyes and Pigments*, **2015**, 122, 231-237	4.6	15
116	Synthesis and Metalation of Doubly o-Phenylene-Bridged Cyclic Bis(dipyrrin)s with Highly Bent Skeleton of Dibenzoporphyrin(2.1.2.1). *Chemistry - A European Journal*, **2016**, 22, 10671-8	4.8	15
115	to- 2,5-Pyrrolylene-Linked Cyclic Porphyrin Oligomers. *Chemistry - A European Journal*, **2016**, 22, 8801-4	4.8	15
114	Pyrene-Containing Twistarene: Twelve Benzene Rings Fused in a Row. *Angewandte Chemie*, **2018**, 130, 13743-13747	3.6	15
113	Solution-processed anthradithiophene-PCBM p-n junction photovoltaic cells fabricated by using the photoprecursor method. *Chemical Communications*, **2013**, 49, 11638-40	5.8	15
112	Evaluation of semiconducting molecular thin films solution-processed via the photoprecursor approach: the case of hexyl-substituted thienoanthracenes. *Journal of Materials Chemistry C*, **2015**, 3, 5995-6005	7.1	15
111	A doubly 2,6-pyridylene-bridged porphyrin-perylene-porphyrin triad. *Chemical Communications*, **2012**, 48, 4317-9	5.8	15

110	Zwitterionic corroles: regioselective nucleophilic pyridination of a doubly linked biscorrole. *Angewandte Chemie - International Edition*, **2009**, 48, 2388-90	16.4	15
109	9,9'-Anthryl-anthroxyl radicals: strategic stabilization of highly reactive phenoxyl radicals. *Chemical Communications*, **2015**, 51, 6734-7	5.8	14
108	Synthesis of [14]Oxatriphyrins(2.1.1) and Their Transformation into Ethane-Bridged Oxatripyrrins by Boron Complexation. *European Journal of Organic Chemistry*, **2018**, 2018, 2122-2129	3.2	14
107	Synthesis and solid-state structures of a tetrathiafulvalene-conjugated bistetracene. *Chemistry - A European Journal*, **2014**, 20, 6309-14	4.8	14
106	A kinetically protected pyrene: molecular design, bright blue emission in the crystalline state and aromaticity relocation in its dicationic species. *Chemical Communications*, **2014**, 50, 10956-8	5.8	14
105	Calix[4]pyrroles bearing proximally meso-meso linking straps: synthesis and anion binding properties. *Chemical Communications*, **2012**, 48, 8060-2	5.8	14
104	Intramolecular and intermolecular energy transfers in donor-acceptor linear porphyrin arrays. *Journal of Chemical Physics*, **2006**, 125, 074902	3.9	14
103	A laterally expanded fluorone dye as an efficient near infrared fluorophore. *Chemical Communications*, **2016**, 52, 4872-5	5.8	13
102	Tetrabenzoperipentacene: Stable Five-Electron Donating Ability and a Discrete Triple-Layered Graphite Form in the Solid State. *Angewandte Chemie*, **2015**, 127, 8293-8296	3.6	13
101	Excited-state energy relaxation dynamics of triply linked Zn(II) porphyrin arrays. *Chemical Communications*, **2011**, 47, 4433-5	5.8	13
100	Selective formation of a single atropisomer of meso-meso-linked Zn(II) diporphyrin through supramolecular self-assembly. *Chemistry - A European Journal*, **2009**, 15, 9681-4	4.8	13
99	Facile synthesis and photophysical properties of 1,2-phenylene-bridged porphyrin dimers. *Tetrahedron Letters*, **2009**, 50, 3333-3337	2	13
98	Energy Relaxation Dynamics of Excited Triplet States of Directly Linked Zn(II)Porphyrin Arrays. *Bulletin of the Korean Chemical Society*, **2002**, 23, 271-276	1.2	13
97	Synthesis and Morphological Control of Organic Semiconducting Materials Using the Precursor Approach. *Bulletin of the Chemical Society of Japan*, **2020**, 93, 1234-1267	5.1	13
96	Fullerene-linked tetrabenzoporphyrins for solution-processed organic photovoltaics: flexible vs. rigid linkers. *Journal of Materials Chemistry A*, **2016**, 4, 15333-15342	13	13
95	Semiconducting Self-Assembled Nanofibers Prepared from Photostable Octafluorinated Bisanthene Derivatives. *Chemistry - A European Journal*, **2017**, 23, 7000-7008	4.8	12
94	Z-Shaped Pentaleno-Acene Dimers with High Stability and Small Band Gap. *Angewandte Chemie*, **2016**, 128, 2743-2746	3.6	12
93	Torsional chirality generation based on cyclic oligomers constructed from an odd number of pyrenes. *Chemical Communications*, **2019**, 55, 9618-9621	5.8	12

92	Synthesis and optical reactivity of 6,13-diketoprecursors of 2,3,9,10-tetraalkylpentacenes in solution, films and crystals. *Journal of Materials Chemistry C*, **2014**, 2, 986-993	7.1	12
91	Synthesis, Characterization and Protonation Behavior of Quinoxaline-Fused Porphycenes. *Molecules*, **2017**, 22,	4.8	12
90	Hexaphyrin Fused to Two Anthracenes. *Angewandte Chemie*, **2012**, 124, 9994-9997	3.6	12
89	A Hexameric Porphyrin Triangle Constructed by Suzuki–Miyaura Cross-coupling Reaction. *Chemistry Letters*, **2011**, 40, 902-903	1.7	12
88	Molecular-shape-dependent photophysical properties of meso-doubly linked Zn(II) porphyrin arrays and their indene-fused analogues. *Journal of Physical Chemistry B*, **2010**, 114, 14528-36	3.4	12
87	Synthesis and Characterization of Facially Encumbered and Soluble Porphyrin Tapes. *Chemistry Letters*, **2006**, 35, 946-947	1.7	12
86	Engineering Thin Films of a Tetrabenzoporphyrin toward Efficient Charge-Carrier Transport: Selective Formation of a Brickwork Motif. *ACS Applied Materials & Interfaces*, **2017**, 9, 8211-8218	9.5	11
85	Small bandgap in atomically precise 17-atom-wide armchair-edged graphene nanoribbons. *Communications Materials*, **2020**, 1,	6	11
84	The role of electronic coupling in linear porphyrin arrays probed by single-molecule fluorescence spectroscopy. *Chemistry - A European Journal*, **2011**, 17, 9219-25	4.8	11
83	Regioselective [3+4] cycloaddition of an azomethine ylide to meso–meso, triply linked diporphyrins. *Tetrahedron Letters*, **2008**, 49, 3308-3311	2	11
82	Aromaticity Relocation in Perylene Derivatives upon Two-Electron Oxidation To Form Anthracene and Phenanthrene. *Chemistry - A European Journal*, **2016**, 22, 14462-6	4.8	10
81	[30]Hexaphyrin(2.1.2.1.2.1) as Aromatic Planar Ligand and Its Trinuclear Rhodium(I) Complex. *Inorganic Chemistry*, **2018**, 57, 9902-9906	5.1	10
80	Semiconducting Extended Tetrathiafulvalene Derivatives. *Chemistry - A European Journal*, **2018**, 24, 18601-18612	4.8	10
79	Crystallization-Induced Emission of Azobenzene Derivatives. *Angewandte Chemie*, **2019**, 131, 14311-14316	3.6	10
78	Synthesis, Characterization, and Memory Performance of Two Phenazine/Triphenylamine-Based Organic Small Molecules through Donor-Acceptor Design. *Asian Journal of Organic Chemistry*, **2015**, 4, 646-651	3	10
77	Post-modification of meso-meso-linked porphyrin arrays by iridium and rhodium catalyses for tuning of energy gap. *Chemistry - an Asian Journal*, **2009**, 4, 1126-33	4.5	10
76	Bithiophene-porphyrin hybrid nanorings. *Chemistry - an Asian Journal*, **2010**, 5, 764-7	4.5	10
75	A hexagonal prismatic porphyrin array: synthesis, STM detection, and efficient energy hopping in near-infrared region. *Journal of Physical Chemistry A*, **2007**, 111, 9233-9	2.8	10

74	Studies on Pyrene and Perylene Derivatives upon Oxidation and Application to a Higher Analogue. *Bulletin of the Chemical Society of Japan*, **2017**, 90, 667-677	5.1	9
73	Rearrangement of an aniline linked perylene bisimide under acidic conditions and visible to near-infrared emission from the intramolecular charge-transfer state of its fused derivatives. *Chemical Communications*, **2017**, 53, 5698-5701	5.8	9
72	A remarkably strained cyclopyrenylene trimer that undergoes metal-free direct oxygen insertion into the biaryl C-C bond. *Chemical Science*, **2019**, 10, 6785-6790	9.4	9
71	Structure engineering: extending the length of azaacene derivatives through quinone bridges. *Journal of Materials Chemistry C*, **2018**, 6, 3628-3633	7.1	9
70	Control of Aromaticity and cis-/trans-Isomeric Structure of Non-Planar Hexaphyrin(2.1.2.1.2.1) and Metal Complexes. *Angewandte Chemie - International Edition*, **2019**, 58, 12524-12528	16.4	9
69	1,4-Phenylene-Bridged Hexaphyrin Dimers. *European Journal of Organic Chemistry*, **2012**, 2012, 1913-1919	3.2	9
68	A meso-Spiro[Cyclopentadiene-Isoporphyrin] from a Phenylethynyl Porphyrin Platinum(II) Pincer Complex. *Angewandte Chemie*, **2012**, 124, 3228-3231	3.6	9
67	Rearrangements of a [36]Octaphyrin Triggered by Nickel(II) Metalation: Metamorphosis to a Directly meso-Linked Diporphyrin. *Angewandte Chemie*, **2011**, 123, 11662-11666	3.6	9
66	Ultrafast all-optical light modulation in the near infrared region by phase sensitive polymer guided wave mode geometry containing porphyrin tapes. *Applied Physics Letters*, **2009**, 94, 253301	3.4	9
65	Excitation energy migration in a dodecameric porphyrin box. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 178, 130-139	4.7	9
64	Fullerene-Based n-Type Materials That Can Be Processed by a Photoprecursor Approach for Photovoltaic Applications. *ECS Journal of Solid State Science and Technology*, **2017**, 6, M3068-M3074	2	8
63	meso-to-meso 2,5-Pyrrolylene bridged zig-zag porphyrin arrays. *Chemical Communications*, **2017**, 53, 11488-11491	5.8	8
62	Effect of alkyl substituents: 5,15-bis(trimethylsilylethynyl)- vs. 5,15-bis(triisopropylsilylethynyl)-tetrabenzoporphyrins and their metal complexes. *Journal of Porphyrins and Phthalocyanines*, **2015**, 19, 465-478	1.8	8
61	The Importance of a Bond for Long-Range Antiferromagnetic Coupling in Directly Linked Copper(II) and Silver(II) Diporphyrins. *Angewandte Chemie*, **2005**, 117, 7059-7061	3.6	8
60	Synthesis, Properties and Crystal Structures of 2,7,12,17-Tetraarylporphycenes. *Heterocycles*, **2015**, 90, 1214	0.8	7
59	Zwitterionic Corroles: Regioselective Nucleophilic Pyridination of a Doubly Linked Biscorrole. *Angewandte Chemie*, **2009**, 121, 2424-2426	3.6	7
58	Bisanthra-thianthrene: synthesis, structure and oxidation properties. *RSC Advances*, **2016**, 6, 70700-70703	3.7	7
57	Dinaphthotetrathiafulvalene Bisimides: A New Member of the Family of Extended TTF Stable p-Type Semiconductors. *Chemistry - A European Journal*, **2017**, 23, 15002-15007	4.8	6

56	An electron-deficient tetrathiafulvalene-conjugated bistetracene. *Tetrahedron Letters*, **2015**, 56, 3804-3808	2	6
55	Synthesis and electronic properties of acetylene- and butadiyne-linked 3,3?-porphycene dimers. *Journal of Porphyrins and Phthalocyanines*, **2014**, 18, 849-855	1.8	6
54	-Cyclopentadienyliron(II)[14]Triphyrin(2.1.1) Sandwich Compounds: Synthesis, Characterization, and Stable Redox Interconversion. *Angewandte Chemie*, **2013**, 125, 7447-7450	3.6	6
53	Synthesis and Crystal Structures of 5,15-bis(triisopropylsilylethynyl)-tetrabenzoporphyrins. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2013**, 26, 213-216	0.7	6
52	Synthesis of three-dimensionally arranged porphyrin arrays via intramolecular meso meso coupling. *Tetrahedron*, **2007**, 63, 7916-7925	2.4	6
51	1,4-Phenylene-bridged meso meso linked diporphyrin array. *Tetrahedron Letters*, **2004**, 45, 4981-4984	2	6
50	Facile synthesis of indolizino[3,4,5-ab]isoindoles by an acid-induced cyclization of 1,2-di(1H-pyrrol-2-yl)benzenes. *Tetrahedron Letters*, **2015**, 56, 5564-5567	2	5
49	Visible-Light-Induced Heptacene Generation under Ambient Conditions: Utilization of Single-crystal Interior as an Isolated Reaction Site. *Chemistry - A European Journal*, **2020**, 26, 15079-15083	4.8	5
48	1,3-Phenylene-bridged naphthalene wheels synthesized by one-pot Suzuki-Miyaura coupling and the complex of the hexamer with C.. *RSC Advances*, **2018**, 8, 20872-20876	3.7	5
47	Contraction of Conjugated Rings upon Oxidation from Cyclooctatetraene to Benzene via the Tropylium Cation. *Chemistry - A European Journal*, **2017**, 23, 16388-16392	4.8	5
46	Indolizino[5,6-b]quinoxaline Derivatives: Intramolecular Charge Transfer Characters and NIR Fluorescence. *Chemistry - an Asian Journal*, **2015**, 10, 2337-41	4.5	5
45	Open-circuit-voltage shift of over 0.5 V in organic photovoltaic cells induced by a minor structural difference in alkyl substituents. *Chemical Science*, **2020**, 11, 1825-1831	9.4	5
44	Orbital-Energy Modulation of Tetrabenzoporphyrin-Derived Non-Fullerene Acceptors for Improved Open-Circuit Voltage in Organic Solar Cells. *Journal of Organic Chemistry*, **2020**, 85, 168-178	4.2	5
43	Response to The Seven-Membered Ring in Bis-Azuleno-Naphthalene is Non-Aromatic *European Journal of Organic Chemistry*, **2019**, 2019, 860-861	3.2	4
42	Direct observation of structural properties and fluorescent trapping sites in macrocyclic porphyrin arrays at the single-molecule level. *Physical Chemistry Chemical Physics*, **2016**, 18, 3871-7	3.6	4
41	An Ethynylene-Bridged Pentacene Dimer: Two-Step Synthesis and Charge-Transport Properties. *Chemistry - A European Journal*, **2018**, 24, 14916-14920	4.8	4
40	Regioselective fabrications of a Mius aromatic [28]hexaphyrin palladium(II) complex. *Journal of Porphyrins and Phthalocyanines*, **2013**, 17, 665-672	1.8	4
39	EXCITATION DYNAMICS AND ITS ELECTRIC FIELD DEPENDENCE OF MESO,MESO-LINKED PORPHYRIN ARRAYS IN A POLYMER FILM. *International Journal of Modern Physics B*, **2001**, 15, 3588-3592	1.1	4

38	Cyclic butadiyne-linked porphyrin(2.1.2.1) oligomers. *Journal of Porphyrins and Phthalocyanines*, **2020**, 24, 489-497	1.8	4
37	Synthesis of Anthracene Derivatives with Azaacene-Containing Iptycene Wings and the Utilization as a Dopant for Solution-Processed Organic Light-Emitting Diodes. *Chemistry - A European Journal*, **2019**, 25, 15565-15571	4.8	3
36	Determination of the Superradiance Coherence Length of Directly Linked Linear Porphyrin Arrays at the Single-Molecule Level. *Angewandte Chemie*, **2009**, 121, 4387-4391	3.6	3
35	Inside Cover: Metalation of Expanded Porphyrins: A Chemical Trigger Used To Produce Molecular Twisting and MÖbius Aromaticity (Angew. Chem. Int. Ed. 4/2008). *Angewandte Chemie - International Edition*, **2008**, 47, 614-614	16.4	3
34	On-surface synthesis and characterization of nitrogen-substituted undecacenes.. *Nature Communications*, **2022**, 13, 511	17.4	3
33	Porphycene dimer-based non-fullerene acceptor for organic solar cell. *Journal of Porphyrins and Phthalocyanines*, **2016**, 20, 1350-1360	1.8	3
32	A Directly-linked Cyclic Pyrene Tetramer as a Back-to-back Receptor for Two Fullerenes. *Chemistry Letters*, **2020**, 49, 892-895	1.7	2
31	Investigation and Control of Single Molecular Structures of Meso- Meso Linked Long Porphyrin Arrays. *Journal of Physical Chemistry B*, **2018**, 122, 5121-5125	3.4	2
30	1D Columnar stacking structures in the single crystals of 5,10-diarylporphyrin metal complexes. *Journal of Porphyrins and Phthalocyanines*, **2017**, 21, 803-810	1.8	2
29	Innentitelbild: Metalation of Expanded Porphyrins: A Chemical Trigger Used To Produce Molecular Twisting and MÖbius Aromaticity (Angew. Chem. 4/2008). *Angewandte Chemie*, **2008**, 120, 624-624	3.6	2
28	Correlation of Fluorescence Anisotropy Decay with Molecular Size and Shape of Covalently and Noncovalently Bound Large Porphyrin Arrays. *Journal of the Chinese Chemical Society*, **2006**, 53, 41-46	1.5	2
27	Photophysical properties and structural analysis of modified methylene blues as near infrared dyes. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 358, 441-446	4.7	2
26	Improvement in interlayer structure of p-i-n-type organic solar cells with the use of fullerene-linked tetrabenzoporphyrin as additive.. *RSC Advances*, **2018**, 8, 35237-35245	3.7	2
25	2,7,12,17-Tetra(2,5-thienylene)-substituted porphycenes. *Journal of Porphyrins and Phthalocyanines* , **2019**, 23, 898-907	1.8	1
24	Vinylene-Bridged Cyclic Dipyrrin and BODIPY Trimers. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	1
23	Direct borylation of terrylene and quaterrylene. *Beilstein Journal of Organic Chemistry*, **2020**, 16, 621-627	2.5	1
22	Benzylic modifications of meso-alkyl-substituted porphyrins via oxidation with DDQ. *Tetrahedron Letters*, **2012**, 53, 1156-1159	2	1
21	Dinaphthotetrathiafulvalene Bisimides: A New Member of the Family of Extended TTF Stable p-Type Semiconductors. *Chemistry - A European Journal*, **2017**, 23, 14979-14979	4.8	1

20	Discrete dihedral-angle modulation in porphyrin wheels adsorbed on Cu(100) observed by scanning tunneling microscopy. *Surface Science*, **2007**, 601, 2178-2181	1.8	1
19	A Windmill-Shaped Molecule with Anthryl Blades to Form Smooth Hole-Transport Layers via a Photoprecursor Approach. *Materials*, **2020**, 13,	3.5	1
18	Binuclear Rhodium(I) Complex of a Dimethylvinylene-Bridged Distorted Hexaphyrin(2.1.2.1.2.1). *Inorganic Chemistry*, **2021**, 60, 16070-16073	5.1	1
17	‘Super’Molecular Electronics. *Kobunshi*, **2003**, 52, 570-570		1
16	Deep-red circularly polarised luminescent C derivatives. *Scientific Reports*, **2021**, 11, 12072	4.9	1
15	Mirror-Image Cofacial Coronene Dimers Characterized by CD and CPL Spectroscopy: A Twisted Bilayer Nanographene. *ChemPhotoChem*,	3.3	1
14	Buckyball as an Electron Donor in a Dyad of C60 and Xanthene Dye. *European Journal of Organic Chemistry*, **2021**, 2021, 3377-3381	3.2	0
13	Synthesis and Properties of the Doubly Oxonium-Embedded Picenes as Electron-Deficient Polycyclic Aromatic Hydrocarbons. *Organic Letters*, **2021**, 23, 3986-3990	6.2	0
12	One-Pot Synthesis of a Cyclic Pyrene Octamer from Two Bifunctionalized Pyrene Monomers. *Synthesis*, **2021**, 53, 344-347	2.9	0
11	Single crystal field-effect transistor of tetrabenzoporphyrin with a one-dimensionally extended columnar packing motif exhibiting efficient charge transport properties. *Journal of Materials Chemistry C*,	7.1	0
10	Directly Linked and Fused Oligoporphyrin Arrays **2003**, 115-123		0
9	Seeing Is Believing: A Wavy N-heteroarene with 20 Six-Membered Rings Linearly Annulated in a Row. *CCS Chemistry*,1-14	7.2	0
8	Control of Aromaticity and cis-/trans-Isomeric Structure of Non-Planar Hexaphyrin(2.1.2.1.2.1) and Metal Complexes. *Angewandte Chemie*, **2019**, 131, 12654-12658	3.6	
7	Innentitelbild: Hexaphyrin Fused to Two Anthracenes (Angew. Chem. 39/2012). *Angewandte Chemie* , **2012**, 124, 9840-9840	3.6	
6	Inside Cover: Strategic Synthesis of 2,6-Pyridylene-Bridged [28]to-[30]Porphyrin Nanorings through Cross-Coupling (Chem. Eur. J. 10/2010). *Chemistry - A European Journal*, **2010**, 16, 2952-2952	4.8	
5	Inside Cover: Pyrrole-Bridged Porphyrin Nanorings (Chem. Eur. J. 45/2010). *Chemistry - A European Journal*, **2010**, 16, 13286-13286	4.8	
4	Ultrafast Energy Transfer in the Soret Band of Linear Porphyrin Arrays. *Springer Series in Chemical Physics*, **2007**, 480-482	0.3	
3	Ultrafast Energy Relaxation Processes of Long Molecular Wires Based on Zinc(II)porphyrins. *Springer Series in Chemical Physics*, **2001**, 601-603	0.3	

2	Development and Application of Extended π-Conjugated Functional Materials for Solution-Processed Organic Devices. *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, **2015**, 73, 1232-1244	0.2
1	Synthesis and Evaluation of Charge Transport Property of Ethynylene-Bridged Anthracene Oligomers. *Macromolecular Chemistry and Physics*, **2021**, 222, 2100024	2.6