

Juwon Oh

List of Publications by Year in descending order

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69
papers

1,669
citations

257450

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315739

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74
times ranked

1600
citing authors

#	ARTICLE	IF	CITATIONS
1	Control and Switching of Aromaticity in Various All-Aza-Expanded Porphyrins: Spectroscopic and Theoretical Analyses. <i>Chemical Reviews</i> , 2017, 117, 2257-2312.	47.7	155
2	Spectroscopic Diagnosis of Excited-State Aromaticity: Capturing Electronic Structures and Conformations upon Aromaticity Reversal. <i>Accounts of Chemical Research</i> , 2018, 51, 1349-1358.	15.6	85
3	A boronic acid-functionalized phthalocyanine with an aggregation-enhanced photodynamic effect for combating antibiotic-resistant bacteria. <i>Chemical Science</i> , 2020, 11, 5735-5739.	7.4	75
4	Three-dimensional aromaticity in an antiaromatic cyclophane. <i>Nature Communications</i> , 2019, 10, 3576.	12.8	73
5	Triarylporphyrin <i>meso</i> -Oxy Radicals: Remarkable Chemical Stabilities and Oxidation to Oxophlorin I ⁺ -Cations. <i>Journal of the American Chemical Society</i> , 2015, 137, 15584-15594.	13.7	67
6	Highly planar diarylamine-fused porphyrins and their remarkably stable radical cations. <i>Chemical Science</i> , 2017, 8, 189-199.	7.4	64
7	<i>meso</i> -Hydroxysubporphyrins: A Cyclic Trimeric Assembly and a Stable <i>meso</i> -Oxy Radical. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6613-6617.	13.8	57
8	Switching between Aromatic and Antiaromatic 1,3-Phenylene-Strapped [26]- and [28]Hexaphyrins upon Passage to the Singlet Excited State. <i>Journal of the American Chemical Society</i> , 2015, 137, 11856-11859.	13.7	53
9	Spontaneous Formation of an Air-Stable Radical upon the Direct Fusion of Diphenylmethane to a Triarylporphyrin. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8711-8714.	13.8	53
10	Directly Diphenylborane-Fused Porphyrins. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3196-3199.	13.8	51
11	Dark to light! A new strategy for large Stokes shift dyes: coupling of a dark donor with tunable high quantum yield acceptors. <i>Chemical Science</i> , 2014, 5, 4812-4818.	7.4	46
12	Guest-Induced Modulation of the Energy Transfer Process in Porphyrin-Based Artificial Light Harvesting Dendrimers. <i>Journal of the American Chemical Society</i> , 2017, 139, 993-1002.	13.7	37
13	5,20-Di(pyridin-2-yl)-[28]hexaphyrin(1.1.1.1.1.1): A Stable H ₄ Antiaromatic Hexaphyrin Stabilized by Intramolecular Hydrogen Bonding and Protonation-Induced Conformational Twist To Gain Möbius Aromaticity. <i>Journal of Organic Chemistry</i> , 2015, 80, 11726-11733.	3.2	36
14	Spontaneous Formation of an Air-Stable Radical upon the Direct Fusion of Diphenylmethane to a Triarylporphyrin. <i>Angewandte Chemie</i> , 2016, 128, 8853-8856.	2.0	36
15	Unraveling Excited-Singlet-State Aromaticity via Vibrational Analysis. <i>Chem</i> , 2017, 3, 870-880.	11.7	35
16	π-Functionalized Push-Pull Porphyrin Sensitizers in Dye-Sensitized Solar Cells: Effect of π-Conjugated Spacers. <i>ChemSusChem</i> , 2015, 8, 2967-2977.	6.8	34
17	Evolution from unimolecular to colloidal-quantum-dot-like character in chlorine or zinc incorporated InP magic size clusters. <i>Nature Communications</i> , 2020, 11, 3127.	12.8	34
18	A Description of Vibrational Modes in Hexaphyrins: Understanding the Aromaticity Reversal in the Lowest Triplet State. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11930-11934.	13.8	32

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19	Porphyrinoids, a unique platform for exploring excited-state aromaticity. <i>Chemical Society Reviews</i> , 2022, 51, 268-292.	38.1	32
20	Aromaticity Reversal in the Lowest Excited Triplet State of Archetypical Möbius Heteroannulenic Systems. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6487-6491.	13.8	31
21	Multiexcitonic Triplet Pair Generation in Oligoacene Dendrimers as Amorphous Solid-State Miniatures. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20956-20964.	13.8	30
22	The effects of discrete and gradient mid-shell structures on the photoluminescence of single InP quantum dots. <i>Nanoscale</i> , 2019, 11, 23251-23258.	5.6	28
23	Table-top extreme ultraviolet second harmonic generation. <i>Science Advances</i> , 2021, 7, .	10.3	26
24	Spectroscopic Studies on Intramolecular Charge-Transfer Characteristics in Small-Molecule Organic Solar Cell Donors: A Case Study on ADA and DAD Triad Donors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18502-18512.	3.1	24
25	The Extension of Baird's Rule to Twisted Heteroannulenes: Aromaticity Reversal of Singly and Doubly Twisted Molecular Systems in the Lowest Triplet State. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2932-2936.	13.8	23
26	Conformational Fixation of a Rectangular Antiaromatic [28]Hexaphyrin Using Rationally Installed Peripheral Straps. <i>Chemistry - A European Journal</i> , 2016, 22, 4413-4417.	3.3	21
27	Two-electron transfer stabilized by excited-state aromatization. <i>Nature Communications</i> , 2019, 10, 4983.	12.8	21
28	Modeling Electron-Transfer Degradation of Organic Light-Emitting Devices. <i>Advanced Materials</i> , 2021, 33, e2003832.	21.0	21
29	<i>meso</i> -Oxoisocorroles: Tunable Antiaromaticity by Metalation and Coordination of Lewis Acids as Well as Aromaticity Reversal in the Triplet Excited State. <i>Journal of the American Chemical Society</i> , 2021, 143, 7958-7967.	13.7	21
30	Synthesis of Di- <i>peri</i> -dinaphthoporphyrins by PtCl ₂ -Mediated Cyclization of Quinodimethane-type Porphyrins. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6305-6309.	13.8	20
31	A Directly Fused Subporphyrin Dimer with a Wavelike Structure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9212-9215.	13.8	17
32	Switchable π -electronic network of bis(\pm -oligothienyl)-substituted hexaphyrins between helical versus rectangular circuit. <i>Chemical Science</i> , 2016, 7, 2239-2245.	7.4	16
33	Synthesis of Ag/Mn Co-Doped CdS/ZnS (Core/Shell) Nanocrystals with Controlled Dopant Concentration and Spatial Distribution and the Dynamics of Excitons and Energy Transfer between Co-Dopants. <i>Nano Letters</i> , 2019, 19, 308-317.	9.1	16
34	Modulation of Axial-Ligand Binding and Releasing Processes onto the Triazole-Bearing Nickel(II) Picket-Fence Porphyrins: Steric Repulsion versus Hydrogen-Bonding Effects. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7053-7061.	2.6	15
35	Changes in macrocyclic aromaticity and formation of a charge-separated state by complexation of expanded porphyrin and C60. <i>Chemical Communications</i> , 2019, 55, 8301-8304.	4.1	15
36	Unique ultrafast energy transfer in a series of phenylene-bridged subporphyrin-porphyrin hybrids. <i>Chemical Communications</i> , 2014, 50, 10424-10426.	4.1	14

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37	A Description of Vibrational Modes in Hexaphyrins: Understanding the Aromaticity Reversal in the Lowest Triplet State. <i>Angewandte Chemie</i> , 2016, 128, 12109-12113.	2.0	14
38	A Directly Fused Subporphyrin Dimer with a Wavelike Structure. <i>Angewandte Chemie</i> , 2016, 128, 9358-9361.	2.0	13
39	Directly Diphenylborane- π -Fused Porphyrins. <i>Angewandte Chemie</i> , 2016, 128, 3248-3251.	2.0	13
40	Coupled valence carrier and core-exciton dynamics in WS_2 probed by few-femtosecond extreme ultraviolet transient absorption spectroscopy. <i>Physical Review B</i> , 2021, 104, .	3.2	13
41	Heteroleptic Tetrapyrrole- π -Fused Dimeric and Trimeric Skeletons with Unusual Non-Frustrated Fluorescence. <i>Chemistry - A European Journal</i> , 2016, 22, 4492-4499.	3.3	12
42	Excited-State Aromaticity of Gold(III) Hexaphyrins and Metalation Effect Investigated by Time-Resolved Electronic and Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5129-5134.	13.8	12
43	Aromatic Fused [30] Heteroannulenes with NIR Absorption and NIR Emission: Synthesis, Characterization, and Excited-State Dynamics. <i>Chemistry - A European Journal</i> , 2016, 22, 8026-8031.	3.3	11
44	Influence of Intramolecular Charge-Transfer Characteristics of Excitons on Polaron Generation at the Donor/Acceptor Interface in Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18352-18361.	3.1	11
45	Exciton coupling dynamics in syn- and anti-type $\text{Zn}(\text{porphyrin})_2$ porphyrin linear arrays. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23105-23110.	2.8	10
46	Protonation Dependent Topological Dichotomy of Core Modified Hexaphyrins: Synthesis, Characterization, and Excited State Dynamics. <i>Journal of Organic Chemistry</i> , 2017, 82, 556-566.	3.2	10
47	Modulations of a Metal-Ligand Interaction and Photophysical Behaviors by H ₂ O-Mediated Aromatic Switching. <i>Journal of the American Chemical Society</i> , 2022, 144, 582-589.	13.7	10
48	Aromaticity Reversal in the Lowest Excited Triplet State of Archetypical π -Fused Heteroannulenic Systems. <i>Angewandte Chemie</i> , 2016, 128, 6597-6601.	2.0	9
49	Synthesis of Di- π -conjugated Dinaphthoporphyrins by PtCl ₂ -Mediated Cyclization of Quinodimethane-Type Porphyrins. <i>Angewandte Chemie</i> , 2016, 128, 6413-6417.	2.0	8
50	Noncovalent Intermolecular Interaction in Cofacially Stacked π -Antiaromatic Hexaphyrin Dimer. <i>Chemistry - A European Journal</i> , 2020, 26, 16434-16440.	3.3	8
51	The first porphyrin-subphthalocyaninaboron(Zn)-fused hybrid with unique conformation and intramolecular charge transfer behavior. <i>Chemical Communications</i> , 2016, 52, 10517-10520.	4.1	7
52	Intramolecular electron transfer reactions in meso-(4-nitrophenyl)-substituted subporphyrins. <i>Chemical Communications</i> , 2016, 52, 1424-1427.	4.1	7
53	Induced Correspondence of a Local π -Aromatic Sextet in Heteroannulenes: Synthesis and Characterization. <i>Chemistry - A European Journal</i> , 2016, 22, 5504-5508.	3.3	6
54	meso-Arylethynyl subporphyrins as efficient and tunable photo-induced electron transfer units. <i>Journal of Porphyrins and Phthalocyanines</i> , 2017, 21, 152-157.	0.8	6

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55	Site-Selective N-Methylation of 5,15-Diazaporphyrins: Reactive Cationic Porphyrinoids that Provide Isoporphyrin Analogues. <i>Chemistry - A European Journal</i> , 2020, 26, 2754-2760.	3.3	6
56	Charge Recombination in Polaron Pairs: A Key Factor for Operational Stability of Blue-Phosphorescent Light-Emitting Devices. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000028.	2.8	6
57	Magnetic-Field-Induced Modulation of Charge-Recombination Dynamics in a Rosarin-Fullerene Complex. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9379-9383.	13.8	6
58	The Extension of Baird's Rule to Twisted Heteroannulenes: Aromaticity Reversal of Singly and Doubly Twisted Molecular Systems in the Lowest Triplet State. <i>Angewandte Chemie</i> , 2017, 129, 2978-2982.	2.0	5
59	Ligand-to-metal charge transfer driven by excited-state antiaromaticity in metallohexaphyrins. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 508-513.	1.9	5
60	Photoinduced Intermolecular Electron Transfer Mediated by the Colloidal Tyrosyl Bolaamphiphile Assembly. <i>ChemPhysChem</i> , 2018, 19, 643-650.	2.1	4
61	Femtosecond Transient Absorption Studies of Polymer Aggregation on Photovoltaic Performance: Role of an Integrated Aggregation Promotor in the Polymer Chain. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7568-7580.	3.1	3
62	Multiexcitonic Triplet Pair Generation in Oligoacene Dendrimers as Amorphous Solid-State Miniatures. <i>Angewandte Chemie</i> , 2020, 132, 21142-21150.	2.0	2
63	Impact of Cyclic Strain on the Structural Relaxation Dynamics of Macrocyclic Thiophenes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1947-1953.	3.1	2
64	Organic Light-Emitting Diodes: Modeling Electron-Transfer Degradation of Organic Light-Emitting Devices (Adv. Mater. 12/2021). <i>Advanced Materials</i> , 2021, 33, 2170090.	21.0	1
65	Frontispiece: Aromatic Fused [30] Heteroannulenes with NIR Absorption and NIR Emission: Synthesis, Characterization, and Excited-State Dynamics. <i>Chemistry - A European Journal</i> , 2016, 22, .	3.3	0
66	Innenteilbild: A Description of Vibrational Modes in Hexaphyrins: Understanding the Aromaticity Reversal in the Lowest Triplet State (Angew. Chem. 39/2016). <i>Angewandte Chemie</i> , 2016, 128, 11864-11864.	2.0	0
67	Rückteilbild: Aromaticity Reversal in the Lowest Excited Triplet State of Archetypical Möbius Heteroannulenic Systems (Angew. Chem. 22/2016). <i>Angewandte Chemie</i> , 2016, 128, 6672-6672.	2.0	0
68	Innenrückteilbild: Multiexcitonic Triplet Pair Generation in Oligoacene Dendrimers as Amorphous Solid-State Miniatures (Angew. Chem. 47/2020). <i>Angewandte Chemie</i> , 2020, 132, 21431-21431.	2.0	0
69	Excited-State Aromaticity of Gold(III) Hexaphyrins and Metalation Effect Investigated by Time-Resolved Electronic and Vibrational Spectroscopy. <i>Angewandte Chemie</i> , 2020, 132, 5167-5172.	2.0	0