

Hayato Sakai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2140567/publications.pdf>

Version: 2024-02-01

68
papers

1,690
citations

279487

23
h-index

315357

38
g-index

71
all docs

71
docs citations

71
times ranked

2047
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Lived Triplet Excited States of Bent-Shaped Pentacene Dimers by Intramolecular Singlet Fission. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1867-1875.	1.1	133
2	Highly Fluorescent [7]Carbohelicene Fused by Asymmetric 1,2-Dialkyl-Substituted Quinoxaline for Circularly Polarized Luminescence and Electroluminescence. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13937-13947.	1.5	101
3	Siloxy Group-Induced Highly Efficient Room Temperature Phosphorescence with Long Lifetime. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11631-11639.	1.5	95
4	Synthetic Control of the Excited-State Dynamics and Circularly Polarized Luminescence of Fluorescent "Push-Pull" Tetrathia[9]helicenes. <i>Chemistry - A European Journal</i> , 2016, 22, 4263-4273.	1.7	83
5	Supramolecular Structures and Photoelectronic Properties of the Inclusion Complex of a Cyclic Free-Base Porphyrin Dimer and C ₆₀ . <i>Chemistry - A European Journal</i> , 2010, 16, 11611-11623.	1.7	79
6	Multiexciton Dynamics Depending on Intramolecular Orientations in Pentacene Dimers: Recombination and Dissociation of Correlated Triplet Pairs. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3354-3360.	2.1	73
7	Synthetic Control of Photophysical Process and Circularly Polarized Luminescence of [5]Carbohelicene Derivatives Substituted by Maleimide Units. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7860-7869.	1.5	63
8	Controlled Excited-State Dynamics and Enhanced Fluorescence Property of Tetrasulfone[9]helicene by a Simple Synthetic Process. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7421-7427.	1.5	55
9	One-Pot/Four-Step/Palladium-Catalyzed Synthesis of Indole Derivatives: The Combination of Heterogeneous and Homogeneous Systems. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2498-2502.	2.1	46
10	Enhanced photoelectrochemical performance of composite photovoltaic cells of Li ⁺ @C ₆₀ -sulfonated porphyrin supramolecular nanoclusters. <i>Chemical Communications</i> , 2013, 49, 4474.	2.2	45
11	Remarkable Enhancement of Photocatalytic Hydrogen Evolution Efficiency Utilizing An Internal Cavity of Supramolecular Porphyrin Hexagonal Nanocylinders Under Visible-Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4441-4449.	1.5	41
12	Significant Enhancement of Absorption and Luminescence Dissymmetry Factors in the Far-Red Region: A Zinc(II) Homoleptic Helicate Formed by a Pair of Achiral Dipyrromethene Ligands. <i>Chemistry - A European Journal</i> , 2018, 24, 16889-16894.	1.7	40
13	Protonation-induced red-coloured circularly polarized luminescence of [5]carbohelicene fused by benzimidazole. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6738-6743.	1.5	39
14	High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5230-5234.	7.2	35
15	Ultrafast photoinduced electron transfer in face-to-face charge-transfer π -complexes of planar porphyrins and hexaazatriphenylene derivatives. <i>Chemical Science</i> , 2015, 6, 1498-1509.	3.7	33
16	Systematic Control of Structural and Photophysical Properties of π -Extended Mono- and Bis-BODIPY Derivatives. <i>Chemistry - A European Journal</i> , 2020, 26, 316-325.	1.7	33
17	Quantitative Sequential Photoenergy Conversion Process from Singlet Fission to Intermolecular Two-Electron Transfers Utilizing Tetracene Dimer. <i>ACS Energy Letters</i> , 2019, 4, 26-31.	8.8	32
18	Synthesis and Photodynamics of Tetragematetrathia[8]circulene. <i>Organic Letters</i> , 2018, 20, 304-307.	2.4	31

#	ARTICLE	IF	CITATIONS
19	Electron-Transfer Reduction Properties and Excited-State Dynamics of Benzo[<i>ghi</i>]peryleneimide and Coroneneimide Derivatives. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7710-7720.	1.5	30
20	Controlled Orientations of Neighboring Tetracene Units by Mixed Self-Assembled Monolayers on Gold Nanoclusters for High-Yield and Long-Lived Triplet Excited States through Singlet Fission. <i>Journal of the American Chemical Society</i> , 2019, 141, 14720-14727.	6.6	30
21	Synthesis of Tetrasilatetraphia[8]circulenes by a Fourfold Intramolecular Dehydrogenative Silylation of C-H Bonds. <i>Chemistry - A European Journal</i> , 2017, 23, 6948-6952.	1.7	28
22	Formation of One-Dimensional Helical Columns and Excimerlike Excited States by Racemic Quinoxaline-Fused [7]Carbohelicenes in the Crystal. <i>Chemistry - A European Journal</i> , 2014, 20, 10099-10109.	1.7	27
23	The effect of a highly twisted C=C double bond on the electronic structures of 9,9-bifluorenylidene derivatives in the ground and excited states. <i>Organic Chemistry Frontiers</i> , 2017, 4, 650-657.	2.3	26
24	Multi-color light-emitting transistors composed of organic single crystals. <i>Organic Electronics</i> , 2013, 14, 2737-2742.	1.4	25
25	A Pentacene-Based Nanotube Displaying Enriched Electrochemical and Photochemical Activities. <i>Angewandte Chemie</i> , 2019, 131, 1127-1131.	1.6	25
26	A Pentacene-Based Nanotube Displaying Enriched Electrochemical and Photochemical Activities. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1115-1119.	7.2	23
27	Preparation and structural control of metal coordination-assisted supramolecular architectures of porphyrins. Nanocubes to microrods. <i>Chemical Communications</i> , 2012, 48, 4441.	2.2	22
28	Systematic Control of the Excited-State Dynamics and Carrier-Transport Properties of Functionalized Benzo[<i>ghi</i>]perylene and Coronene Derivatives. <i>Chemistry - A European Journal</i> , 2014, 20, 9081-9093.	1.7	22
29	Synergetic Role of Conformational Flexibility and Electronic Coupling for Quantitative Intramolecular Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18287-18296.	1.5	21
30	Controllable Electronic Structures and Photoinduced Processes of Bay-Linked Peryleneimide Dimers and a Ferrocene-Linked Triad. <i>Chemistry - A European Journal</i> , 2016, 22, 9631-9641.	1.7	20
31	Supramolecular Singlet Fission of Pentacene Dimers within Polyaromatic Capsules. <i>Journal of the American Chemical Society</i> , 2021, 143, 9361-9367.	6.6	19
32	Synthesis and aggregate formation of triphenylene core-centered porphyrin hexamers. <i>Chemical Communications</i> , 2010, 46, 889-891.	2.2	18
33	An Air- and Water-Stable B ₄ N ₄ -Heteropentalene Serving as a Host Material for a Phosphorescent OLED. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23812-23818.	7.2	18
34	Near-Infrared Photoelectrochemical Conversion via Photoinduced Charge Separation in Supramolecular Complexes of Anionic Phthalocyanines with Li ⁺ @C60. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7690-7697.	1.2	17
35	Molecular nanoarchitectures composed of porphyrins and carbon nanomaterials for light energy conversion. <i>Journal of Porphyrins and Phthalocyanines</i> , 2011, 15, 301-311.	0.4	16
36	Efficient Near-Infrared Light-Driven Hydrogen Evolution Catalyzed by a Saddle-Distorted Porphyrin as a Photocatalyst. <i>ACS Applied Energy Materials</i> , 2020, 3, 3193-3197.	2.5	16

#	ARTICLE	IF	CITATIONS
37	Coronene-tetraimide-Centered Cruciform Pentamers Containing Multiporphyrin Units: Synthesis and Sequential Photoinduced Energy- and Electron-Transfer Dynamics. <i>Chemistry - A European Journal</i> , 2015, 21, 11196-11205.	1.7	15
38	Control of local structures and photophysical properties of zinc porphyrin-based supramolecular assemblies structurally organized by regioselective ligand coordination. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5453-5463.	1.3	15
39	High-Yield Excited Triplet States in Pentacene Self-Assembled Monolayers on Gold Nanoparticles through Singlet Exciton Fission. <i>Angewandte Chemie</i> , 2016, 128, 5316-5320.	1.6	14
40	Control of the electrochemical and photophysical properties of N-substituted benzo[ghi]perylene derivatives. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2299-2308.	3.2	14
41	High-Yield Generation of Triplet Excited States by an Efficient Sequential Photoinduced Process from Energy Transfer to Singlet Fission in Pentacene-Modified CdSe/ZnS Quantum Dots. <i>Chemistry - A European Journal</i> , 2018, 24, 17062-17071.	1.7	13
42	Efficient photocatalytic proton-coupled electron-transfer reduction of O ₂ using a saddle-distorted porphyrin as a photocatalyst. <i>Chemical Communications</i> , 2019, 55, 4925-4928.	2.2	13
43	Electrochemical Properties and Excited-State Dynamics of Azaperylene Derivatives. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9921-9930.	1.2	13
44	Enthalpy-Entropy Compensation Effect for Triplet Pair Dissociation of Intramolecular Singlet Fission in Phenylene Spacer-Bridged Hexacene Dimers. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6457-6463.	2.1	13
45	Photo-induced glycosylation using a diaryl disulfide as an organo-Lewis photoacid catalyst. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 851-855.	1.5	11
46	Graphene oxide-Li ⁺ @C ₆₀ donor-acceptor composites for photoenergy conversion. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15732-15738.	1.3	10
47	Near-Unity Singlet Fission on a Quantum Dot Initiated by Resonant Energy Transfer. <i>Journal of the American Chemical Society</i> , 2021, 143, 17388-17394.	6.6	10
48	Photoinduced Processes of Supramolecular Nanoarrays Composed of Porphyrin and Benzo[ghi]perylene-triimide Units through Triple Hydrogen Bonds with One-Dimensional Columnar Phases. <i>Chemistry - an Asian Journal</i> , 2016, 11, 613-624.	1.7	9
49	Synthesis, Structural and Photophysical Properties of Pentacene Alkanethiolate Monolayer-Protected Gold Nanoclusters and Nanorods: Supramolecular Intercalation and Photoinduced Electron Transfer with C ₆₀ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 9043-9052.	1.5	8
50	Inter- and Intramolecular Electron-Transfer Reduction Properties of Coronene-diimide Derivatives via Photoinduced Processes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13333-13346.	1.5	8
51	Excimer Formation of Aryl Iodides Chemisorbed on Gold Nanoparticles for the Significant Enhancement of Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1199-1203.	2.1	8
52	Tetraaryldiborane(4) Can Emit Dual Fluorescence Responding to the Structural Change around the B-B Bond. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	7
53	Photoelectrochemical properties of supramolecular composites of an anionic zinc chlorin and Li ⁺ @C ₆₀ on SnO ₂ . <i>Journal of Porphyrins and Phthalocyanines</i> , 2014, 18, 982-990.	0.4	6
54	Concentration-dependent photophysical switching in mixed self-assembled monolayers of pentacene and perylene-diimide on gold nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8695-8706.	1.3	6

#	ARTICLE	IF	CITATIONS
55	A Diprotonated Porphyrin as an Electron Mediator in Photoinduced Electron Transfer in Hydrogen-Bonded Supramolecular Assemblies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11529-11538.	1.5	6
56	Preparation and Photoelectrochemical Properties of Supramolecular Assemblies of Nanoscale Carbon Material Composites. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, M3015-M3022.	0.9	5
57	Synthesis and Electrochemical and Photophysical Properties of Azaterrylene Derivatives. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1754-1762.	1.7	5
58	An Air- and Water-Stable B ₄ N ₄ -Heteropentalene Serving as a Host Material for a Phosphorescent OLED. <i>Angewandte Chemie</i> , 2021, 133, 24005-24011.	1.6	5
59	Porphyrin hexamer with a triphenylene core unit: Spectroscopy, electrochemistry and controllable supramolecular formation. <i>Journal of Porphyrins and Phthalocyanines</i> , 2011, 15, 639-651.	0.4	4
60	Supramolecular photovoltaic cells utilizing inclusion complexes composed of Li ⁺ @C ₆₀ and cyclic porphyrin dimer. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015, 19, 242-250.	0.4	4
61	Supramolecular Porphyrin Nanorods for Light Energy Conversion. , 2015, , 475-491.		2
62	Room-Temperature Pentacene Fluids: Oligoethylene Glycol Substituent-Controlled Morphologies and Singlet Fission. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11910-11918.	1.2	2
63	Mono- or Diplatinum Complexes Containing a π -Conjugated Pentadiynyl Ligand. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2361-2368.	1.0	1
64	Titelbild: Tetraaryldiborane(4) Can Emit Dual Fluorescence Responding to the Structural Change around the B-B Bond (<i>Angew. Chem.</i> 1/2022). <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1
65	Ultrafast Singlet Fission and Efficient Carrier Transport in a Lamellar Assembly of Bis[(trialkoxypheyl)ethynyl]pentacene. <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	1
66	Solid surface free energy analysis using inkjet droplets. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1360, 151001.	0.1	0
67	Frontispiece: Synthesis of Tetrasilatetrathia[8]circulenes by a Fourfold Intramolecular Dehydrogenative Silylation of C-H Bonds. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0
68	Tetraaryldiborane(4) Can Emit Dual Fluorescence Responding to the Structural Change around the B-B Bond. <i>Angewandte Chemie</i> , 0, , .	1.6	0