

Jooyoung Sung

List of Publications by Year in descending order

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41
papers

1,775
citations

279701

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docs citations

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times ranked

2503
citing authors

#	ARTICLE	IF	CITATIONS
1	Exciton delocalization and dynamics in helical π -stacks of self-assembled perylene bisimides. <i>Chemical Science</i> , 2013, 4, 388-397.	3.7	167
2	Direct observation of ultrafast coherent exciton dynamics in helical π -stacks of self-assembled perylene bisimides. <i>Nature Communications</i> , 2015, 6, 8646.	5.8	148
3	Direct Observation of Excimer-Mediated Intramolecular Electron Transfer in a Cofacially-Stacked Perylene Bisimide Pair. <i>Journal of the American Chemical Society</i> , 2016, 138, 9029-9032.	6.6	124
4	Colloidal Metal-Halide Perovskite Nanoplatelets: Thickness-Controlled Synthesis, Properties, and Application in Light-Emitting Diodes. <i>Advanced Materials</i> , 2022, 34, e2107105.	11.1	124
5	Long-range ballistic propagation of carriers in methylammonium lead iodide perovskite thin films. <i>Nature Physics</i> , 2020, 16, 171-176.	6.5	94
6	Crystallographic, Photophysical, NMR Spectroscopic and Reactivity Manifestations of the α -8-Heteroaryl Effect in 4,4-Difluoro-8-(C ₄ H ₃ X)-4-bora-3,4-diaza-indacene (X = O, S, Se) (BODIPY) Systems. <i>Inorganic Chemistry</i> , 2010, 49, 4881-4894.	1.9	77
7	Nanoscale chemical heterogeneity dominates the optoelectronic response of alloyed perovskite solar cells. <i>Nature Nanotechnology</i> , 2022, 17, 190-196.	15.6	75
8	Efficient energy transport in an organic semiconductor mediated by transient exciton delocalization. <i>Science Advances</i> , 2021, 7, .	4.7	68
9	Solvent-Induced Crystalline State Emission and Multichromism of a Bent π -Surface System Composed of Dibenzocyclooctatetraene Units. <i>Chemistry - A European Journal</i> , 2013, 19, 4110-4116.	1.7	61
10	Modulation of Symmetry-Breaking Intramolecular Charge-Transfer Dynamics Assisted by Pendant Side Chains in π -Linkers in Quadrupolar Diketopyrrolopyrrole Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3060-3066.	2.1	56
11	Characterization of Ultrafast Intramolecular Charge Transfer Dynamics in Pyrenyl Derivatives: Systematic Change of the Number of Peripheral N,N-Dimethylaniline Substituents. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 818-823.	2.1	52
12	Excitation energy migration in covalently linked perylene bisimide macrocycles. <i>Chemical Science</i> , 2012, 3, 2778.	3.7	52
13	β^2 -(Ethynylbenzoic acid)-substituted push-pull porphyrins: DSSC dyes prepared by a direct palladium-catalyzed alkynylation reaction. <i>Chemical Communications</i> , 2013, 49, 9164.	2.2	46
14	Ultrafast Tracking of Exciton and Charge Carrier Transport in Optoelectronic Materials on the Nanometer Scale. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6727-6733.	2.1	42
15	Subporphyrins with an Axial Bi π C Bond. <i>Chemistry - A European Journal</i> , 2013, 19, 11158-11161.	1.7	39
16	meso-meso-Linked Subporphyrin Dimer. <i>Chemistry - A European Journal</i> , 2013, 19, 16523-16527.	1.7	38
17	Controlled positioning of metal nanoparticles in an organic light-emitting device for enhanced quantum efficiency. <i>Organic Electronics</i> , 2014, 15, 491-499.	1.4	38
18	Ultrafast exciton transport at early times in quantum dot solids. <i>Nature Materials</i> , 2022, 21, 533-539.	13.3	38

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19	Tuning the Coherent Propagation of Organic Exciton-Polaritons through Dark State Delocalization. <i>Advanced Science</i> , 2022, 9, e2105569.	5.6	38
20	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.	6.6	37
21	Stable Boron Peroxides with a Subporphyrinato Ligand. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2596-2599.	7.2	34
22	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. <i>Nature Communications</i> , 2021, 12, 6519.	5.8	32
23	Subporphyrinato Boron(III) Hydrides. <i>Journal of the American Chemical Society</i> , 2015, 137, 1056-1059.	6.6	31
24	Directed Energy Transfer from Monolayer WS ₂ to Near-Infrared Emitting PbS/CdS Quantum Dots. <i>ACS Nano</i> , 2020, 14, 15374-15384.	7.3	28
25	Femtosecond Transient Absorption Microscopy of Singlet Exciton Motion in Side-Chain Engineered Perylene-Diimide Thin Films. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2721-2730.	1.1	23
26	S ₂ Fluorescence Dynamics of <i>meso</i> -Aryl-Substituted Subporphyrins. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12632-12635.	7.2	22
27	Covalently Functionalized Graphene Composites: Mechanistic Study of Interfacial Fluorescence Quenching and Recovery Processes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11327-11336.	1.5	18
28	Oxocyclohexadienylidene-Substituted Subporphyrins. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3253-3256.	7.2	17
29	A Directly Fused Subporphyrin Dimer with a Wavelike Structure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9212-9215.	7.2	17
30	Stable Boron Peroxides with a Subporphyrinato Ligand. <i>Angewandte Chemie</i> , 2016, 128, 2642-2645.	1.6	16
31	Ultrafast Intramolecular Energy Relaxation Dynamics of Benzoporphyrins: Influence of Fused Benzo Rings on Singlet Excited States. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3784-3792.	1.2	15
32	The Role of Linkers in the Excited-State Dynamic Planarization Processes of Macrocylic Oligothiophene 12-Mers. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4444-4450.	2.1	15
33	Unique ultrafast energy transfer in a series of phenylene-bridged subporphyrin-porphyrin hybrids. <i>Chemical Communications</i> , 2014, 50, 10424-10426.	2.2	14
34	A Directly Fused Subporphyrin Dimer with a Wavelike Structure. <i>Angewandte Chemie</i> , 2016, 128, 9358-9361.	1.6	13
35	Nonequilibrium Carrier Transport in Quantum Dot Heterostructures. <i>Nano Letters</i> , 2021, 21, 8945-8951.	4.5	13
36	Exciton Diffusion in Highly-Ordered One Dimensional Conjugated Polymers: Effects of Back-Bone Torsion, Electronic Symmetry, Phonons and Annihilation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3669-3678.	2.1	12

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37	<i>meso</i>-Sulfide- and Disulfide-Bridged Subporphyrin Dimers. European Journal of Organic Chemistry, 2016, 2016, 1977-1981.	1.2	10
38	Enhanced Ballistic Transport of Charge Carriers in Alloyed and K-Passivated Alloyed Perovskite Thin Films. Journal of Physical Chemistry Letters, 2020, 11, 5402-5406.	2.1	8
39	Strong Electronic Coupling-Induced Ultrafast Charge Transfer in Donor-Pyrene-Acceptor Systems. Journal of Physical Chemistry Letters, 2021, 12, 2226-2231.	2.1	7
40	Synthesis of stable monoporphyrate lanthanide(III) complexes without ancillary ligands. Chemical Communications, 2012, 48, 5611.	2.2	6
41	Fluorescence Dynamics of meso-Aryl-Substituted Subporphyrins (Angew. Chem.)	1.6	0