

# Hyungjun Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,097  
citations

566801

15  
h-index

414034

32  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1592  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reductive Electrophotocatalysis: Merging Electricity and Light To Achieve Extreme Reduction Potentials. <i>Journal of the American Chemical Society</i> , 2020, 142, 2087-2092.	6.6	263
2	Efficient Multiexciton State Generation in Charge-Transfer-Coupled Perylene Bisimide Dimers via Structural Control. <i>Journal of the American Chemical Society</i> , 2020, 142, 7845-7857.	6.6	99
3	Sustainable and recyclable super engineering thermoplastic from biorenewable monomer. <i>Nature Communications</i> , 2019, 10, 2601.	5.8	83
4	Coupled double triplet state in singlet fission. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30083-30094.	1.3	80
5	New Direct Approach for Determining the Reverse Intersystem Crossing Rate in Organic Thermally Activated Delayed Fluorescent (TADF) Emitters. <i>Journal of the American Chemical Society</i> , 2020, 142, 8074-8079.	6.6	52
6	Charge Transfer and Aggregation Effects on the Performance of Planar vs Twisted Nonfullerene Acceptor Isomers for Organic Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 4263-4276.	3.2	49
7	Enacting Two-Electron Transfer from a Double-Triplet State of Intramolecular Singlet Fission. <i>Journal of the American Chemical Society</i> , 2018, 140, 7760-7763.	6.6	46
8	Achieving Accurate Reduction Potential Predictions for Anthraquinones in Water and Aprotic Solvents: Effects of Inter- and Intramolecular H-Bonding and Ion Pairing. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22235-22247.	1.5	41
9	A protocol to evaluate one electron redox potential for iron complexes. <i>Journal of Computational Chemistry</i> , 2013, 34, 2233-2241.	1.5	36
10	Reducing Agent-Assisted Excessive Galvanic Replacement Mediated Seed-Mediated Synthesis of Porous Gold Nanoplates and Highly Efficient Gene-Thermo Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 35268-35278.	4.0	31
11	Multiexcitonic Triplet Pair Generation in Oligoacene Dendrimers as Amorphous Solid-State Miniatures. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20956-20964.	7.2	30
12	Evaluating the Effect of Heteroatoms on the Photophysical Properties of Donor-Acceptor Conjugated Polymers Based on 2,6-Di(thiophen-2-yl)benzo[1,2-b:4,5-b']difuran: Two-Photon Cross-Section and Ultrafast Time-Resolved Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14382-14392.	1.5	27
13	Activating intramolecular singlet exciton fission by altering $\pi$ -bridge flexibility in perylene diimide trimers for organic solar cells. <i>Chemical Science</i> , 2020, 11, 8757-8770.	3.7	22
14	Heteroatom and Side Chain Effects on the Optical and Photophysical Properties: Ultrafast and Nonlinear Spectroscopy of New Naphtho[1,2-b:5,6-b']difuran Donor Polymers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17049-17066.	1.5	20
15	Colorimetric paper sensor for visual detection of date-rape drug $\gamma$ -hydroxybutyric acid (GHB). <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130598.	4.0	19
16	Using ultra-fast spectroscopy to probe the excited state dynamics of a reported highly efficient thermally activated delayed fluorescence chromophore. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4210-4221.	2.7	16
17	CuCl <sub>2</sub> -promoted decomposition of sulfonyl hydrazides for the synthesis of thiosulfonates. <i>Tetrahedron Letters</i> , 2020, 61, 152112.	0.7	16
18	Energy refinement and analysis of structures in the QM9 database via a highly accurate quantum chemical method. <i>Scientific Data</i> , 2019, 6, 109.	2.4	15

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19	Density Functional Physicality in Electronic Coupling Estimation: Benchmarks and Error Analysis. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3242-3248.	2.1	14
20	Real-time Observation of Structural Dynamics Triggering Excimer Formation in a Perylene Bisimide Foldamer by Ultrafast Time-domain Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	13
21	Machine Learning Applications for Chemical Reactions. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	13
22	Prediction of the reduction potential of tris(2,2'-bipyridinyl)iron(III/II) derivatives. <i>Journal of Computational Chemistry</i> , 2015, 36, 33-41.	1.5	11
23	Investigating the Optical Properties of Thiophene Additions to <i>s</i> -Indacene Donors with Diketopyrrolopyrrole, Isoindigo, and Thienothiophene Acceptors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27713-27733.	1.5	11
24	Electrospun Nanofibrous Membrane-Based Colorimetric Device for Rapid and Simple Screening of Amphetamine-Type Stimulants in Drinks. <i>Analytical Chemistry</i> , 2022, 94, 3535-3542.	3.2	11
25	Origin of Fluoropolymer Affinity toward Water and Its Impact on Membrane Performance. <i>ACS Applied Polymer Materials</i> , 2020, 2, 5249-5258.	2.0	10
26	Synergistic effect of UV and L-ascorbic acid on the reduction of graphene oxide: Reduction kinetics and quantum chemical simulations. <i>Solid State Sciences</i> , 2018, 84, 120-125.	1.5	9
27	The Role of the Core Attachment Positioning in Triggering Intramolecular Singlet Exciton Fission in Perylene Diimide Tetramers. <i>Journal of Physical Chemistry B</i> , 2021, 125, 5114-5131.	1.2	9
28	PIM-PI-1 and Poly(ethylene glycol)/Poly(propylene glycol)-Based Mechanically Robust Copolyimide Membranes with High CO <sub>2</sub> -Selectivity and an Anti-aging Property: A Joint Experimental-Computational Exploration. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 49890-49906.	4.0	9
29	Effect of the Metal within Regioisomeric Paddle-wheel-type Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2019, 25, 14414-14420.	1.7	7
30	Modus Operandi of Simultaneous Covering Synthesis from Precursor Heterogeneity for Shelled Nanorods for Multipotent Cancer Theranostics. <i>Advanced Functional Materials</i> , 2020, 30, 1907203.	7.8	7
31	Spin-Flip Density Functional Theory for the Redox Properties of Organic Photoredox Catalysts in Excited States. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 767-776.	2.3	6
32	Theoretical Engineering of Singlet Fission Kinetics in Perylene Bisimide Dimer with Chromophore Rotation. <i>Journal of Physical Chemistry A</i> , 2021, 125, 875-884.	1.1	6
33	Laser desorption/ionization mass spectrometry-based compositional analysis of Au-Ag nanoplates synthesized by galvanic replacement and their application for small molecule analysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 318-326.	2.9	5
34	Experimental, Structural, and Computational Investigation of Mixed Metal-Organic Frameworks from Regioisomeric Ligands for Porosity Control. <i>Crystal Growth and Design</i> , 2020, 20, 5338-5345.	1.4	3
35	Application of Intramolecular Singlet Fission in Photovoltaics: Control over Multiexciton Generation and Triplet-Triplet Annihilation. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 108-109.	1.0	2
36	Multiexcitonic Triplet Pair Generation in Oligoacene Dendrimers as Amorphous Solid-State Miniatures. <i>Angewandte Chemie</i> , 2020, 132, 21142-21150.	1.6	2

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37	Real-time Observation of Structural Dynamics Triggering Excimer Formation in a Perylene Bisimide Foldamer by Ultrafast Time-Resolved Raman Spectroscopy. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
38	InnenrÄ¼cktitelbild: Multiexcitonic Triplet Pair Generation in Oligoacene Dendrimers as Amorphous Solid-State Miniatures ( <i>Angew. Chem.</i> 47/2020). <i>Angewandte Chemie</i> , 2020, 132, 21431-21431.	1.6	0
39	Innentitelbild: Real-time Observation of Structural Dynamics Triggering Excimer Formation in a Perylene Bisimide Foldamer by Ultrafast Time-Resolved Raman Spectroscopy ( <i>Angew. Chem.</i> 13/2022). <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0
40	Theoretical Protocol Based on Long-Range Corrected Density Functional Theory and Tuning of Range-Split Parameter for Two-Electron Two-Proton Reduction of Phenylazocarboxylates. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2430-2436.	1.1	0