

# Oh Kyu Kwon

## List of Publications by Citations

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72  
papers

4,083  
citations

32  
h-index

63  
g-index

77  
ext. papers

4,635  
ext. citations

10.8  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
72	Advanced organic optoelectronic materials: harnessing excited-state intramolecular proton transfer (ESIPT) process. <i>Advanced Materials</i> , <b>2011</b> , 23, 3615-42	24	810
71	A white-light-emitting molecule: frustrated energy transfer between constituent emitting centers. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 14043-9	16.4	479
70	Tailor-made highly luminescent and ambipolar transporting organic mixed stacked charge-transfer crystals: an isometric donor-acceptor approach. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 4757-64	16.4	243
69	An all-small-molecule organic solar cell with high efficiency nonfullerene acceptor. <i>Advanced Materials</i> , <b>2015</b> , 27, 1951-6	24	172
68	A High Efficiency Nonfullerene Organic Solar Cell with Optimized Crystalline Organizations. <i>Advanced Materials</i> , <b>2016</b> , 28, 910-6	24	164
67	Realizing molecular pixel system for full-color fluorescence reproduction: RGB-emitting molecular mixture free from energy transfer crosstalk. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 11239-46	16.4	141
66	High Energy Organic Cathode for Sodium Rechargeable Batteries. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 7258-64	16.4	122
65	Stimuli-Responsive Reversible Fluorescence Switching in a Crystalline Donor-Acceptor Mixture Film: Mixed Stack Charge-Transfer Emission versus Segregated Stack Monomer Emission. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 203-7	16.4	119
64	Organic Light-Emitting Diodes with a White-Emitting Molecule: Emission Mechanism and Device Characteristics. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 644-651	15.6	115
63	Fluorescent zinc sensor with minimized proton-induced interferences: photophysical mechanism for fluorescence turn-on response and detection of endogenous free zinc ions. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 8760-74	5.1	109
62	Indolo[3,2-]indole-based crystalline hole-transporting material for highly efficient perovskite solar cells. <i>Chemical Science</i> , <b>2017</b> , 8, 734-741	9.4	83
61	Strategic emission color tuning of highly fluorescent imidazole-based excited-state intramolecular proton transfer molecules. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 8878-84	3.6	82
60	Highly Luminescent 2D-Type Slab Crystals Based on a Molecular Charge-Transfer Complex as Promising Organic Light-Emitting Transistor Materials. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701346	24	80
59	A ferroelectric photocatalyst for enhancing hydrogen evolution: polarized particulate suspension. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 10408-13	3.6	74
58	Photoisomerization-induced gel-to-sol transition and concomitant fluorescence switching in a transparent supramolecular gel of a cyanostilbene derivative. <i>Chemical Science</i> , <b>2014</b> , 5, 4845-4850	9.4	71
57	Soluble Dicyanodistyrylbenzene-Based Non-Fullerene Electron Acceptors with Optimized Aggregation Behavior for High-Efficiency Organic Solar Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1400929	21.8	66
56	Fully Reversible Multistate Fluorescence Switching: Organogel System Consisting of Luminescent Cyanostilbene and Turn-On Diarylethene. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1706213	15.6	62

55	Gelation-induced enhanced fluorescence emission from organogels of salicylanilide-containing compounds exhibiting excited-state intramolecular proton transfer: synthesis and self-assembly. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 7437-47	4.8	58
54	Triptycene-based quinone molecules showing multi-electron redox reactions for large capacity and high energy organic cathode materials in Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3134-3140	13.140	57
53	Food waste-driven N-doped carbon dots: Applications for Fe sensing and cell imaging. <i>Materials Science and Engineering C</i> , <b>2019</b> , 102, 106-112	8.3	55
52	Wholly E-conjugated low-molecular-weight organogelator that displays triple-channel responses to fluoride ions. <i>Langmuir</i> , <b>2014</b> , 30, 2842-51	4	52
51	Dual-color fluorescent nanoparticles showing perfect color-specific photoswitching for bioimaging and super-resolution microscopy. <i>Nature Communications</i> , <b>2019</b> , 10, 3089	17.4	48
50	High-Performance n-Type Organic Transistor with a Solution-Processed and Exfoliation-Transferred Two-Dimensional Crystalline Layered Film. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 3263-3268	9.6	47
49	Photophysical, amplified spontaneous emission and charge transport properties of oligofluorene derivatives in thin films. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 16941-56	3.6	43
48	Structure-Property Correlation in Luminescent Indolo[3,2-b]indole (IDID) Derivatives: Unraveling the Mechanism of High Efficiency Thermally Activated Delayed Fluorescence (TADF). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 41413-41420	9.5	43
47	Excited State Features and Dynamics in a Distyrylbenzene-Based Mixed Stack Donor-Acceptor Cocrystal with Luminescent Charge Transfer Characteristics. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3682-7	6.4	38
46	High performance all-small-molecule solar cells: engineering the nanomorphology via processing additives. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14234-14240	13	36
45	Excimer formation in organic emitter films associated with a molecular orientation promoted by steric hindrance. <i>Chemical Communications</i> , <b>2014</b> , 50, 14145-8	5.8	35
44	Smart Fluorescent Nanoparticles in Water Showing Temperature-Dependent Ratiometric Fluorescence Color Change. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2883-2890	9.5	33
43	Bio-inspired Molecular Redesign of a Multi-redox Catholyte for High-Energy Non-aqueous Organic Redox Flow Batteries. <i>CheM</i> , <b>2019</b> , 5, 2642-2656	16.2	32
42	Highly Sensitive and Selective Fluorescent Probe for Ascorbic Acid with a Broad Detection Range through Dual-Quenching and Bimodal Action of Nitronyl-Nitroxide. <i>ACS Sensors</i> , <b>2016</b> , 1, 392-398	9.2	32
41	Stimuli-Responsive Reversible Fluorescence Switching in a Crystalline Donor-Acceptor Mixture Film: Mixed Stack Charge-Transfer Emission versus Segregated Stack Monomer Emission. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 211-215	3.6	32
40	Highly sensitive metal-enhanced fluorescence biosensor prepared on electrospun fibers decorated with silica-coated silver nanoparticles. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 284, 140-147	8.5	30
39	Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(N-vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2746-2753	15.6	27
38	Designing high performance all-small-molecule solar cells with non-fullerene acceptors: comprehensive studies on photoexcitation dynamics and charge separation kinetics. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 211-220	35.4	27

37	Phenoxazine as a high-voltage p-type redox center for organic battery cathode materials: small structural reorganization for faster charging and narrow operating voltage. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 4142-4156	35.4	25
36	Crystallization-Induced Emission Enhancement and Amplified Spontaneous Emission from a CF <sub>3</sub> -Containing Excited-State Intramolecular-Proton-Transfer Molecule. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700353	8.1	25
35	Is Color-Specific Photoswitching in Dual-Color Fluorescence Systems Possible? Manipulating Intermolecular Energy Transfer among Two Different Fluorophores and One Photoswitch. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 790-797	8.1	24
34	The role of substituents in determining the redox potential of organic electrode materials in Li and Na rechargeable batteries: electronic effects vs. substituent-Li/Na ionic interaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11438-11443	13	23
33	Utilizing Latent Multi-Redox Activity of p-Type Organic Cathode Materials toward High Energy Density Lithium-Organic Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001635	21.8	22
32	A Novel Bis-Lactam Acceptor with Outstanding Molar Extinction Coefficient and Structural Planarity for Donor-Acceptor Type Conjugated Polymer. <i>Macromolecules</i> , <b>2016</b> , 49, 8489-8497	5.5	20
31	A stereoregular Edicyanodistyrylbenzene (EDCS)-based conjugated polymer for high-performance organic solar cells with small energy loss and high quantum efficiency. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16681-16688	13	20
30	Anchored Mediator Enabling Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5376-5380	16.4	18
29	Improvement of Electrical Conductivity in Conjugated Polymers through Cascade Doping with Small-Molecular Dopants. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005129	24	17
28	Photoinduced structural changes of cationic azo dyes confined in a two dimensional nanospace by two different mechanisms. <i>RSC Advances</i> , <b>2017</b> , 7, 8077-8081	3.7	16
27	s-Tetrazines as a New Electrode-Active Material for Secondary Batteries. <i>ChemSusChem</i> , <b>2019</b> , 12, 503-510	10.5	15
26	Signal-amplifying nanoparticle/hydrogel hybrid microarray biosensor for metal-enhanced fluorescence detection of organophosphorus compounds. <i>Biofabrication</i> , <b>2018</b> , 10, 035002	10.5	14
25	Characterization of food waste-driven carbon dot focusing on chemical structural, electron relaxation behavior and Fe selective sensing. <i>Data in Brief</i> , <b>2019</b> , 25, 104038	1.2	13
24	An efficient nonfullerene acceptor for all-small-molecule solar cells with versatile processability in environmentally benign solvents. <i>Organic Electronics</i> , <b>2016</b> , 30, 105-111	3.5	11
23	Highly fluorescent and water soluble turn-on type diarylethene for super-resolution bioimaging over a broad pH range. <i>Dyes and Pigments</i> , <b>2018</b> , 158, 36-41	4.6	11
22	An exotic band structure of a supramolecular honeycomb lattice formed by a pancake $\pi$ interaction between triradical trianions of triptycene tribenzoquinone. <i>Chemical Communications</i> , <b>2018</b> , 54, 3815-3818	5.8	10
21	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> , <b>2020</b> , 124, 18502-18512	3.8	9
20	NO-Affinitive Conjugated Polymer for Selective Sub-Parts-Per-Billion NO Detection in a Field-Effect Transistor Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 31910-31918	9.5	9

19	Anchored Mediator Enabling Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5414-5418	3.6	9
18	Instantaneous detection of explosive and toxic nitroaromatic compounds via donor-acceptor complexation. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9257-9262	7.1	7
17	Mellitic Triimides Showing Three One-Electron Redox Reactions with Increased Redox Potential as New Electrode Materials for Li-Ion Batteries. <i>ChemSusChem</i> , <b>2020</b> , 13, 2303-2311	8.3	5
16	Ultra-pH-Sensitive Small Molecule Probe Showing a Ratiometric Fluorescence Color Change. <i>ChemPhotoChem</i> , <b>2020</b> , 4, 393-397	3.3	4
15	Instantaneous Detection of Trichlorinated Carbon via Photo-Induced Electron Transfer toward Chemosensor for Toxic Organochlorides. <i>ACS Sensors</i> , <b>2018</b> , 3, 1831-1837	9.2	4
14	Redox Potential Tuning of s-Tetrazine by Substitution of Electron-Withdrawing/Donating Groups for Organic Electrode Materials. <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
13	NO <sub>2</sub> -Affinitive Amorphous Conjugated Polymer for Field-Effect Transistor Sensor toward Improved NO <sub>2</sub> Detection Capability. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2100580	6.8	4
12	Highly persistent triphenylamine-based catholyte for durable organic redox flow batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 185-192	19.4	4
11	Threshold voltage modulation of polymer transistors by photoinduced charge-transfer between donor-acceptor dyads. <i>Dyes and Pigments</i> , <b>2017</b> , 142, 387-393	4.6	3
10	Exploration of Molecular Shape-Dependent Luminescence Behavior: Fluorogenic Organic Nanoparticles Based on Bent Shaped Excited-State Intramolecular Proton-Transfer Dyes. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 136-145	4.1	3
9	Strategic Approach for Enhancing Sensitivity of Ammonia Gas Detection: Molecular Design Rule and Morphology Optimization for Stable Radical Anion Formation of Rylene Diimide Semiconductors. <i>Advanced Functional Materials</i> , 2101981	15.6	3
8	Comparative study on the intrinsic NO <sub>2</sub> gas sensing capability of triarylamine-based amorphous organic semiconductors. <i>Dyes and Pigments</i> , <b>2021</b> , 186, 109017	4.6	3
7	Effect of Alkyl Chain Lengths of Highly Crystalline Nonfullerene Acceptors on Open-Circuit Voltage of All-Small-Molecule Organic Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 259-267	6.1	2
6	Designing Nonfullerene Acceptors with Oligo(Ethylene Glycol) Side Chains: Unraveling the Origin of Increased Open-Circuit Voltage and Balanced Charge Carrier Mobilities. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 2481-2488	4.5	2
5	Effects of substituents on the intermolecular interaction, morphology, and charge transport of novel bis-lactam-based molecules. <i>Journal of Materials Chemistry C</i> ,	7.1	2
4	Emission: Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(N-vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors (Adv. Funct. Mater. 19/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2745-2745	15.6	1
3	Deep-red fluorescent poly(acrylic acid) hydrogel: Proton transfer to the water soluble dibasic luminescent dye followed by ion-pair formation. <i>Dyes and Pigments</i> , <b>2021</b> , 188, 109223	4.6	1
2	p-Type Redox-Active Organic Electrode Materials for Next-Generation Rechargeable Batteries. <i>Advanced Energy and Sustainability Research</i> , 2200030	1.6	1

- 1 Sequential Codoping Making Nonconjugated Organic Radicals Conduct Ionically Electronically.  
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