Oh Kyu Kwon

List of Publications by Year in Descending Order

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	Sequential Codoping Making Nonconjugated Organic Radicals Conduct Ionically Electronically. *Small Science*, **2022**, 2, 2270002		0
71	Deep-red fluorescent poly(acrylic acid) hydrogel: Proton transfer to the water soluble dibasic luminescent dye followed by ion-pair formation. *Dyes and Pigments*, **2021**, 188, 109223	4.6	1
70	NO-Affinitive Conjugated Polymer for Selective Sub-Parts-Per-Billion NO Detection in a Field-Effect Transistor Sensor. *ACS Applied Materials & Interfaces*, **2021**, 13, 31910-31918	9.5	9
69	Comparative study on the intrinsic NO2 gas sensing capability of triarylamine-based amorphous organic semiconductors. *Dyes and Pigments*, **2021**, 186, 109017	4.6	3
68	Effect of Alkyl Chain Lengths of Highly Crystalline Nonfullerene Acceptors on Open-Circuit Voltage of All-Small-Molecule Organic Solar Cells. *ACS Applied Energy Materials*, **2021**, 4, 259-267	6.1	2
67	Redox Potential Tuning of s-Tetrazine by Substitution of Electron-Withdrawing/Donating Groups for Organic Electrode Materials. *Molecules*, **2021**, 26,	4.8	4
66	NO2-Affinitive Amorphous Conjugated Polymer for Field-Effect Transistor Sensor toward Improved NO2 Detection Capability. *Advanced Materials Technologies*, **2021**, 6, 2100580	6.8	4
65	Designing Nonfullerene Acceptors with Oligo(Ethylene Glycol) Side Chains: Unraveling the Origin of Increased Open-Circuit Voltage and Balanced Charge Carrier Mobilities. *Chemistry - an Asian Journal* , **2021**, 16, 2481-2488	4.5	2
64	Highly persistent triphenylamine-based catholyte for durable organic redox flow batteries. *Energy Storage Materials*, **2021**, 42, 185-192	19.4	4
63	Phenoxazine as a high-voltage p-type redox center for organic battery cathode materials: small structural reorganization for faster charging and narrow operating voltage. *Energy and Environmental Science*, **2020**, 13, 4142-4156	35.4	25
62	Utilizing Latent Multi-Redox Activity of p-Type Organic Cathode Materials toward High Energy Density Lithium-Organic Batteries. *Advanced Energy Materials*, **2020**, 10, 2001635	21.8	22
61	Ultra-pH-Sensitive Small Molecule Probe Showing a Ratiometric Fluorescence Color Change. *ChemPhotoChem*, **2020**, 4, 393-397	3.3	4
60	Mellitic Triimides Showing Three One-Electron Redox Reactions with Increased Redox Potential as New Electrode Materials for Li-Ion Batteries. *ChemSusChem*, **2020**, 13, 2303-2311	8.3	5
59	Anchored Mediator Enabling Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 5376-5380	16.4	18
58	Spectroscopic Studies on Intramolecular Charge-Transfer Characteristics in Small-Molecule Organic Solar Cell Donors: A Case Study on ADA and DAD Triad Donors. *Journal of Physical Chemistry C*, **2020**, 124, 18502-18512	3.8	9
57	Improvement of Electrical Conductivity in Conjugated Polymers through Cascade Doping with Small-Molecular Dopants. *Advanced Materials*, **2020**, 32, e2005129	24	17
56	Anchored Mediator Enabling Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. *Angewandte Chemie*, **2020**, 132, 5414-5418	3.6	9

55	Bio-inspired Molecular Redesign of a Multi-redox Catholyte for High-Energy Non-aqueous Organic Redox Flow Batteries. *CheM*, **2019**, 5, 2642-2656	16.2	32
54	Characterization of food waste-driven carbon dot focusing on chemical structural, electron relaxation behavior and Fe selective sensing. *Data in Brief*, **2019**, 25, 104038	1.2	13
53	Food waste-driven N-doped carbon dots: Applications for Fe sensing and cell imaging. *Materials Science and Engineering C*, **2019**, 102, 106-112	8.3	55
52	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. *Journal of Materials Chemistry A*, **2019**, 7, 11438-11443	13	23
51	Dual-color fluorescent nanoparticles showing perfect color-specific photoswitching for bioimaging and super-resolution microscopy. *Nature Communications*, **2019**, 10, 3089	17.4	48
50	Instantaneous detection of explosive and toxic nitroaromatic compounds via donor–acceptor complexation. *Journal of Materials Chemistry C*, **2019**, 7, 9257-9262	7.1	7
49	Highly sensitive metal-enhanced fluorescence biosensor prepared on electrospun fibers decorated with silica-coated silver nanoparticles. *Sensors and Actuators B: Chemical*, **2019**, 284, 140-147	8.5	30
48	s-Tetrazines as a New Electrode-Active Material for Secondary Batteries. *ChemSusChem*, **2019**, 12, 503-510	8.3	15
47	An exotic band structure of a supramolecular honeycomb lattice formed by a pancake–π interaction between triradical trianions of triptycene tribenzoquinone. *Chemical Communications*, **2018**, 54, 3815-3818	5.8	10
46	Signal-amplifying nanoparticle/hydrogel hybrid microarray biosensor for metal-enhanced fluorescence detection of organophosphorus compounds. *Biofabrication*, **2018**, 10, 035002	10.5	14
45	Triptycene-based quinone molecules showing multi-electron redox reactions for large capacity and high energy organic cathode materials in Li-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 3134-3140	13	57
44	Instantaneous Detection of Trichlorinated Carbon via Photo-Induced Electron Transfer toward Chemosensor for Toxic Organochlorides. *ACS Sensors*, **2018**, 3, 1831-1837	9.2	4
43	Exploration of Molecular Shape-Dependent Luminescence Behavior: Fluorogenic Organic Nanoparticles Based on Bent Shaped Excited-State Intramolecular Proton-Transfer Dyes. *ACS Applied Bio Materials*, **2018**, 1, 136-145	4.1	3
42	Designing high performance all-small-molecule solar cells with non-fullerene acceptors: comprehensive studies on photoexcitation dynamics and charge separation kinetics. *Energy and Environmental Science*, **2018**, 11, 211-220	35.4	27
41	Fully Reversible Multistate Fluorescence Switching: Organogel System Consisting of Luminescent Cyanostilbene and Turn-On Diarylethene. *Advanced Functional Materials*, **2018**, 28, 1706213	15.6	62
40	Highly fluorescent and water soluble turn-on type diarylethene for super-resolution bioimaging over a broad pH range. *Dyes and Pigments*, **2018**, 158, 36-41	4.6	11
39	Photoinduced structural changes of cationic azo dyes confined in a two dimensional nanospace by two different mechanisms. *RSC Advances*, **2017**, 7, 8077-8081	3.7	16
38	Threshold voltage modulation of polymer transistors by photoinduced charge–transfer between donor–acceptor dyads. *Dyes and Pigments*, **2017**, 142, 387-393	4.6	3

37	Smart Fluorescent Nanoparticles in Water Showing Temperature-Dependent Ratiometric Fluorescence Color Change. *ACS Applied Materials & Interfaces*, **2017**, 9, 2883-2890	9.5	33
36	Crystallization-Induced Emission Enhancement and Amplified Spontaneous Emission from a CF3-Containing Excited-State Intramolecular-Proton-Transfer Molecule. *Advanced Optical Materials*, **2017**, 5, 1700353	8.1	25
35	Structure-Property Correlation in Luminescent Indolo[3,2-b]indole (IDID) Derivatives: Unraveling the Mechanism of High Efficiency Thermally Activated Delayed Fluorescence (TADF). *ACS Applied Materials & Interfaces*, **2017**, 9, 41413-41420	9.5	43
34	A stereoregular dicyanodistyrylbenzene (DCS)-based conjugated polymer for high-performance organic solar cells with small energy loss and high quantum efficiency. *Journal of Materials Chemistry A*, **2017**, 5, 16681-16688	13	20
33	Indolo[3,2-]indole-based crystalline hole-transporting material for highly efficient perovskite solar cells. *Chemical Science*, **2017**, 8, 734-741	9.4	83
32	Highly Luminescent 2D-Type Slab Crystals Based on a Molecular Charge-Transfer Complex as Promising Organic Light-Emitting Transistor Materials. *Advanced Materials*, **2017**, 29, 1701346	24	80
31	High performance all-small-molecule solar cells: engineering the nanomorphology via processing additives. *Journal of Materials Chemistry A*, **2016**, 4, 14234-14240	13	36
30	A Novel Bis-Lactam Acceptor with Outstanding Molar Extinction Coefficient and Structural Planarity for Donor–Acceptor Type Conjugated Polymer. *Macromolecules*, **2016**, 49, 8489-8497	5.5	20
29	Highly Sensitive and Selective Fluorescent Probe for Ascorbic Acid with a Broad Detection Range through Dual-Quenching and Bimodal Action of Nitronyl-Nitroxide. *ACS Sensors*, **2016**, 1, 392-398	9.2	32
28	An efficient nonfullerene acceptor for all-small-molecule solar cells with versatile processability in environmentally benign solvents. *Organic Electronics*, **2016**, 30, 105-111	3.5	11
27	A High Efficiency Nonfullerene Organic Solar Cell with Optimized Crystalline Organizations. *Advanced Materials*, **2016**, 28, 910-6	24	164
26	Stimuli-Responsive Reversible Fluorescence Switching in a Crystalline Donor–Acceptor Mixture Film: Mixed Stack Charge-Transfer Emission versus Segregated Stack Monomer Emission. *Angewandte Chemie*, **2016**, 128, 211-215	3.6	32
25	Stimuli-Responsive Reversible Fluorescence Switching in a Crystalline Donor-Acceptor Mixture Film: Mixed Stack Charge-Transfer Emission versus Segregated Stack Monomer Emission. *Angewandte Chemie - International Edition*, **2016**, 55, 203-7	16.4	119
24	Is Color-Specific Photoswitching in Dual-Color Fluorescence Systems Possible? Manipulating Intermolecular Energy Transfer among Two Different Fluorophores and One Photoswitch. *Advanced Optical Materials*, **2016**, 4, 790-797	8.1	24
23	High Energy Organic Cathode for Sodium Rechargeable Batteries. *Chemistry of Materials*, **2015**, 27, 7258-7264	9.4	122
22	Excited State Features and Dynamics in a Distyrylbenzene-Based Mixed Stack Donor-Acceptor Cocrystal with Luminescent Charge Transfer Characteristics. *Journal of Physical Chemistry Letters*, **2015**, 6, 3682-7	6.4	38
21	Soluble Dicyanodistyrylbenzene-Based Non-Fullerene Electron Acceptors with Optimized Aggregation Behavior for High-Efficiency Organic Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1400929	21.8	66
20	An all-small-molecule organic solar cell with high efficiency nonfullerene acceptor. *Advanced Materials*, **2015**, 27, 1951-6	24	172

19	Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(N-vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors. *Advanced Functional Materials*, **2014**, 24, 2746-2753	15.6	27
18	Photophysical, amplified spontaneous emission and charge transport properties of oligofluorene derivatives in thin films. *Physical Chemistry Chemical Physics*, **2014**, 16, 16941-56	3.6	43
17	A ferroelectric photocatalyst for enhancing hydrogen evolution: polarized particulate suspension. *Physical Chemistry Chemical Physics*, **2014**, 16, 10408-13	3.6	74
16	Photoisomerization-induced gel-to-sol transition and concomitant fluorescence switching in a transparent supramolecular gel of a cyanostilbene derivative. *Chemical Science*, **2014**, 5, 4845-4850	9.4	71
15	Wholly π-conjugated low-molecular-weight organogelator that displays triple-channel responses to fluoride ions. *Langmuir*, **2014**, 30, 2842-51	4	52
14	Excimer formation in organic emitter films associated with a molecular orientation promoted by steric hindrance. *Chemical Communications*, **2014**, 50, 14145-8	5.8	35
13	Emission: Highly Fluorescent and Color-Tunable Exciplex Emission from Poly(N-vinylcarbazole) Film Containing Nanostructured Supramolecular Acceptors (Adv. Funct. Mater. 19/2014). *Advanced Functional Materials*, **2014**, 24, 2745-2745	15.6	1
12	Realizing molecular pixel system for full-color fluorescence reproduction: RGB-emitting molecular mixture free from energy transfer crosstalk. *Journal of the American Chemical Society*, **2013**, 135, 11239-46	16.4	141
11	Tailor-made highly luminescent and ambipolar transporting organic mixed stacked charge-transfer crystals: an isometric donor-acceptor approach. *Journal of the American Chemical Society*, **2013**, 135, 4757-64	16.4	243
10	High-Performance n-Type Organic Transistor with a Solution-Processed and Exfoliation-Transferred Two-Dimensional Crystalline Layered Film. *Chemistry of Materials*, **2012**, 24, 3263-3268	9.6	47
9	Strategic emission color tuning of highly fluorescent imidazole-based excited-state intramolecular proton transfer molecules. *Physical Chemistry Chemical Physics*, **2012**, 14, 8878-84	3.6	82
8	Fluorescent zinc sensor with minimized proton-induced interferences: photophysical mechanism for fluorescence turn-on response and detection of endogenous free zinc ions. *Inorganic Chemistry*, **2012**, 51, 8760-74	5.1	109
7	Organic Light-Emitting Diodes with a White-Emitting Molecule: Emission Mechanism and Device Characteristics. *Advanced Functional Materials*, **2011**, 21, 644-651	15.6	115
6	Advanced organic optoelectronic materials: harnessing excited-state intramolecular proton transfer (ESIPT) process. *Advanced Materials*, **2011**, 23, 3615-42	24	810
5	Gelation-induced enhanced fluorescence emission from organogels of salicylanilide-containing compounds exhibiting excited-state intramolecular proton transfer: synthesis and self-assembly. *Chemistry - A European Journal*, **2010**, 16, 7437-47	4.8	58
4	A white-light-emitting molecule: frustrated energy transfer between constituent emitting centers. *Journal of the American Chemical Society*, **2009**, 131, 14043-9	16.4	479
3	Strategic Approach for Enhancing Sensitivity of Ammonia Gas Detection: Molecular Design Rule and Morphology Optimization for Stable Radical Anion Formation of Rylene Diimide Semiconductors. *Advanced Functional Materials*,2101981	15.6	3
2	Effects of substituents on the intermolecular interaction, morphology, and charge transport of novel bis-lactam-based molecules. *Journal of Materials Chemistry C*,	7.1	2

1 p-Type Redox-Active Organic Electrode Materials for Next-Generation Rechargeable Batteries. *Advanced Energy and Sustainability Research*,2200030 1.6 1