

# Dong Won Kang

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,285  
citations

393982

19  
h-index

377514

34  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1440  
citing authors

#	ARTICLE	IF	CITATIONS
1	A robust ethane-selective hypercrosslinked porous organic adsorbent with high ethane capacity. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3579-3584.	5.2	13
2	Post-synthetic modifications in porous organic polymers for biomedical and related applications. <i>Chemical Society Reviews</i> , 2022, 51, 43-56.	18.7	68
3	Reversible ammonia uptake at room temperature in a robust and tunable metal-organic framework. <i>RSC Advances</i> , 2022, 12, 7605-7611.	1.7	2
4	Double Hypercrosslinked Porous Organic Polymer-Derived Electrocatalysts for a Water Splitting Device. <i>ACS Applied Energy Materials</i> , 2022, 5, 3269-3274.	2.5	6
5	High Gravimetric and Volumetric Ammonia Capacities in Robust Metal-Organic Frameworks Prepared via Double Postsynthetic Modification. <i>Journal of the American Chemical Society</i> , 2022, 144, 9672-9683.	6.6	17
6	Engineered Removal of Trace NH <sub>3</sub> by Porous Organic Polymers Modified via Sequential Post-Sulfonation and Post-Alkylation. <i>Advanced Sustainable Systems</i> , 2021, 5, 2000161.	2.7	8
7	Highly selective CO <sub>2</sub> separation from a CO <sub>2</sub> /C <sub>2</sub> H <sub>2</sub> mixture using a diamine-appended metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21424-21428.	5.2	20
8	Emerging Porous Solid Electrolytes for Hydroxide Ion Transport. <i>Advanced Functional Materials</i> , 2021, 31, 2100083.	7.8	27
9	High-Throughput Discovery of Ni(IN) <sub>2</sub> for Ethane/Ethylene Separation. <i>Advanced Science</i> , 2021, 8, e2004940.	5.6	50
10	Understanding Correlation Between CO <sub>2</sub> Insertion Mechanism and Chain Length of Diamine in Metal-Organic Framework Adsorbents. <i>ChemSusChem</i> , 2021, 14, 2426-2433.	3.6	6
11	Shaping of a Metal-Organic Framework-Polymer Composite and Its CO <sub>2</sub> Adsorption Performances from Humid Indoor Air. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25421-25427.	4.0	34
12	A Robust Hydrogen-Bonded Metal-Organic Framework with Enhanced Ethane Uptake and Selectivity. <i>Chemistry of Materials</i> , 2021, 33, 6193-6199.	3.2	39
13	Diamine Functionalization of a Metal-Organic Framework by Exploiting Solvent Polarity for Enhanced CO <sub>2</sub> Adsorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38358-38364.	4.0	8
14	Isomeric sp <sup>2</sup> -C-conjugated porous organic polymer-mediated photo- and sono-catalytic detoxification of sulfur mustard simulant under ambient conditions. <i>Matter</i> , 2021, 4, 3774-3785.	5.0	10
15	Cost-effective porous-organic-polymer-based electrolyte membranes with superprotonic conductivity and low activation energy. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1147-1153.	5.2	28
16	Pyrimidine-based bipolar host materials for high efficiency solution processed green thermally activated delayed fluorescence OLEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2196-2204.	2.7	15
17	Structure, photoluminescence, and magnetic properties of a Mn(II)-based metal-organic framework. <i>New Journal of Chemistry</i> , 2020, 44, 18694-18702.	1.4	1
18	Metal-Organic Framework Adsorbent for Practical Capture of Trace Carbon Dioxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50534-50540.	4.0	21

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19	High Ammonia Uptake of a Metal-Organic Framework Adsorbent in a Wide Pressure Range. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22531-22536.	7.2	54
20	InnenrÄ¼cktitelbild: High Ammonia Uptake of a Metal-Organic Framework Adsorbent in a Wide Pressure Range ( <i>Angew. Chem.</i> 50/2020). <i>Angewandte Chemie</i> , 2020, 132, 22991-22991.	1.6	0
21	High Ammonia Uptake of a Metal-Organic Framework Adsorbent in a Wide Pressure Range. <i>Angewandte Chemie</i> , 2020, 132, 22720-22725.	1.6	7
22	Post-synthetic modification of porous materials: superprotonic conductivities and membrane applications in fuel cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7474-7494.	5.2	122
23	Humidity-triggered single-crystal-to-single-crystal structural transformations in a Zn( <i>scp</i> ) coordination polymer displaying unusual activation energy change in proton conductivity. <i>Chemical Communications</i> , 2019, 55, 9713-9716.	2.2	14
24	A Hydrogen-Bonded Organic Framework (HOF) with Type-IV NH <sub>3</sub> Adsorption Behavior. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16152-16155.	7.2	77
25	Control of the Metal Composition in Bimetallic Mg/Zn( <i>dobpdc</i> ) Constructed from a One-Dimensional Zn-Based Template. <i>Inorganic Chemistry</i> , 2019, 58, 14107-14111.	1.9	10
26	A Hydrogen-Bonded Organic Framework (HOF) with Type-IV NH <sub>3</sub> Adsorption Behavior. <i>Angewandte Chemie</i> , 2019, 131, 16298-16301.	1.6	14
27	A diamine-grafted metal-organic framework with outstanding CO <sub>2</sub> capture properties and a facile coating approach for imparting exceptional moisture stability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8177-8183.	5.2	52
28	Fine-tuning of wettability in a single metal-organic framework <i>via</i> postcoordination modification and its reduced graphene oxide aerogel for oil-water separation. <i>Chemical Science</i> , 2019, 10, 2663-2669.	3.7	48
29	Revealing an unusual temperature-dependent CO <sub>2</sub> adsorption trend and selective CO <sub>2</sub> uptake over water vapors in a polyamine-appended metal-organic framework. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2759-2767.	3.2	19
30	Synthesis, Structure, and Photoluminescence Properties of a Metal-Organic Framework with Hexagonal Channels: Selective Turn-On Sensing for Mg <sup>2+</sup> Ion. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 330-335.	1.0	12
31	Cyclic Structural Transformations from Crystalline to Crystalline to Amorphous Phases and Magnetic Properties of a Mn(II)-Based Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2018, 18, 3360-3365.	1.4	9
32	Diamine-Functionalization of a Metal-Organic Framework Adsorbent for Superb Carbon Dioxide Adsorption and Desorption Properties. <i>ChemSusChem</i> , 2018, 11, 1694-1707.	3.6	40
33	Discriminative Molecular Detection Based on Competitive Absorption by a Luminescent Metal-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40372-40377.	4.0	16
34	PDMS-coated hypercrosslinked porous organic polymers modified <i>via</i> double postsynthetic acidifications for ammonia capture. <i>Chemical Science</i> , 2018, 9, 6871-6877.	3.7	36
35	Custom Coordination Environments for Lanthanoids: Tripodal Ligands Achieve Near-Perfect Octahedral Coordination for Two Dysprosium-Based Molecular Nanomagnets. <i>Inorganic Chemistry</i> , 2017, 56, 4911-4917.	1.9	14
36	Control of Interchain Antiferromagnetic Coupling in Porous Co(II)-Based Metal-Organic Frameworks by Tuning the Aromatic Linker Length: How Far Does Magnetic Interaction Propagate?. <i>Inorganic Chemistry</i> , 2017, 56, 7443-7448.	1.9	13

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37	Fine-tuning of the Carbon Dioxide Capture Capability of Diamine-grafted Metal-Organic Framework Adsorbents Through Amine Functionalization. <i>ChemSusChem</i> , 2017, 10, 541-550.	3.6	88
38	Luminescent Metal-Organic Framework Sensor: Exceptional Cd <sup>2+</sup> Turn-On Detection and First In Situ Visualization of Cd <sup>2+</sup> Ion Diffusion into a Crystal. <i>Chemistry - A European Journal</i> , 2017, 23, 4803-4809.	1.7	32
39	Phase Transformation, Exceptional Quenching Efficiency, and Discriminative Recognition of Nitroaromatic Analytes in Hydrophobic, Nonporous Zn(II) Coordination Frameworks. <i>Inorganic Chemistry</i> , 2017, 56, 305-312.	1.9	22
40	Slow relaxation dynamics of a mononuclear Er(III) complex surrounded by a ligand environment with anisotropic charge density. <i>Dalton Transactions</i> , 2017, 46, 739-744.	1.6	5
41	A conductive porous organic polymer with superprotonic conductivity of a Nafion-type electrolyte. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17492-17498.	5.2	35
42	Cost-Effective, High-Performance Porous Organic-Polymer Conductors Functionalized with Sulfonic Acid Groups by Direct Postsynthetic Substitution. <i>Angewandte Chemie</i> , 2016, 128, 16357-16360.	1.6	11
43	Two- and three-dimensional Zn(II) coordination polymers constructed from mixed ligand systems: interpenetration, structural transformation and sensing behavior. <i>CrystEngComm</i> , 2016, 18, 4349-4358.	1.3	10
44	Cost-Effective, High-Performance Porous Organic-Polymer Conductors Functionalized with Sulfonic Acid Groups by Direct Postsynthetic Substitution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 16123-16126.	7.2	72
45	Tuning of chain chirality by interchain stacking forces and the structure-property relationship in coordination systems constructed by meridional Fe(III) cyanide and Mn(III) Schiff bases. <i>Dalton Transactions</i> , 2016, 45, 19416-19427.	1.6	0
46	Homodiamine-functionalized metal-organic frameworks with a MOF-74-type extended structure for superior selectivity of CO <sub>2</sub> over N <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2015, 3, 19177-19185.	5.2	75