

Dong Woo Kang

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Molecular Dynamics Simulations of Hydrophobic Nanoparticle Effects on Gas Hydrate Formation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4162-4171.	3.1	29
2	Confined tetrahydrofuran in a superabsorbent polymer for sustainable methane storage in clathrate hydrates. <i>Chemical Engineering Journal</i> , 2021, 411, 128512.	12.7	28
3	Fundamental role of Fe ²⁺ /C active sites in a CO ₂ -derived ultra-porous carbon electrode for inhibiting shuttle phenomena in Li ⁺ /S batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23660-23674.	10.3	28
4	Rapid Formation of Hydrogen-Enriched Hydrocarbon Gas Hydrates under Static Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8414-8424.	6.7	26
5	Recoverable magnetic nanoparticles as hydrate inhibitors. <i>Chemical Engineering Journal</i> , 2020, 389, 124461.	12.7	23
6	Heterogeneous interface adsorption of colloidal particles. <i>Soft Matter</i> , 2017, 13, 6234-6242.	2.7	21
7	Heterogeneous Capillary Interactions of Interface-Trapped Ellipsoid Particles Using the Trap-Release Method. <i>Langmuir</i> , 2018, 34, 384-394.	3.5	17
8	Mapping Anisotropic and Heterogeneous Colloidal Interactions via Optical Laser Tweezers. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1691-1697.	4.6	15
9	Effect of Geometric and Chemical Anisotropy of Janus Ellipsoids on Janus Boundary Mismatch at the Fluid-Fluid Interface. <i>Materials</i> , 2016, 9, 664.	2.9	14
10	Hydrate seeding effect on the metastability of CH ₄ hydrate. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 341-349.	2.7	13
11	Exploring tuning phenomena of THF-H ₂ hydrates via molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2022, 349, 118490.	4.9	13
12	Geometric Effects of Colloidal Particles on Stochastic Interface Adsorption. <i>Langmuir</i> , 2018, 34, 8839-8847.	3.5	12
13	Orientation of carbon nanotubes in polypropylene melt. <i>Polymer International</i> , 2013, 62, 152-157.	3.1	10
14	Superabsorbent polymer for improved CO ₂ hydrate formation under a quiescent system. <i>Journal of CO₂ Utilization</i> , 2022, 61, 102005.	6.8	9
15	Direct measurement of electrostatic interactions between poly(methyl methacrylate) microspheres with optical laser tweezers. <i>Soft Matter</i> , 2019, 15, 8051-8058.	2.7	7
16	Analytical calculations of optical trapping forces for drag calibration: Effects of mismatch between beam focus and particle center. <i>Macromolecular Research</i> , 2017, 25, 282-289.	2.4	6
17	Interpretation of Electrostatic Self-Potential Measurements Using Interface-Trapped Microspheres with Surface Heterogeneity. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1304-1311.	4.4	6
18	Improved H ₂ utilization by Pd doping in cobalt catalysts for reductive amination of polypropylene glycol. <i>RSC Advances</i> , 2020, 10, 45159-45169.	3.6	6

#	ARTICLE	IF	CITATIONS
19	Highly efficient catalytic systems based on Pd-coated microbeads. <i>Applied Surface Science</i> , 2018, 429, 108-114.	6.1	5
20	Electrostatic interactions between particles through heterogeneous fluid phases. <i>Soft Matter</i> , 2017, 13, 6647-6658.	2.7	2
21	Effects of Propylene Oxide End Capping on Amination of Polyalkylene Glycols. <i>ACS Omega</i> , 2020, 5, 26545-26550.	3.5	2
22	Fundamental reaction kinetics of high-pressure reductive amination of polyalkylene glycol. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 106, 317-317.	5.8	1