Nak Cheon Jeong

List of Publications by Citations

44 papers	4,193 citations	29 h-index	46 g-index
46 ext. papers	4,642 ext. citations	10.4 avg, IF	5.26 L-index

#	Paper	IF	Citations
44	Metal-organic framework materials with ultrahigh surface areas: is the sky the limit?. *Journal of the American Chemical Society*, **2012**, 134, 15016-21	16.4	1210
43	Light-harvesting and ultrafast energy migration in porphyrin-based metal-organic frameworks. *Journal of the American Chemical Society*, **2013**, 135, 862-9	16.4	461
42	Coordination-chemistry control of proton conductivity in the iconic metal-organic framework material HKUST-1. *Journal of the American Chemical Society*, **2012**, 134, 51-4	16.4	328
41	Kinetic separation of propene and propane in metal-organic frameworks: controlling diffusion rates in plate-shaped crystals via tuning of pore apertures and crystallite aspect ratios. *Journal of the American Chemical Society*, **2011**, 133, 5228-31	16.4	211
40	Toward solar fuels: Water splitting with sunlight and "rust"?. *Coordination Chemistry Reviews*, **2012**, 256, 2521-2529	23.2	190
39	A metal-organic framework-based material for electrochemical sensing of carbon dioxide. *Journal of the American Chemical Society*, **2014**, 136, 8277-82	16.4	181
38	Photocurrent enhancement by surface plasmon resonance of silver nanoparticles in highly porous dye-sensitized solar cells. *Langmuir*, **2011**, 27, 14609-14	4	155
37	A Chemical Route to Activation of Open Metal Sites in the Copper-Based Metal-Organic Framework Materials HKUST-1 and Cu-MOF-2. *Journal of the American Chemical Society*, **2015**, 137, 10009-15	16.4	145
36	Acidity scale for metal oxides and Sanderson's electronegativities of lanthanide elements. *Angewandte Chemie - International Edition*, **2008**, 47, 10128-32	16.4	141
35	Manual assembly of microcrystal monolayers on substrates. *Angewandte Chemie - International Edition*, **2007**, 46, 3087-90	16.4	120
34	Glass-encapsulated light harvesters: more efficient dye-sensitized solar cells by deposition of self-aligned, conformal, and self-limited silica layers. *Journal of the American Chemical Society*, **2012**, 134, 9537-40	16.4	98
33	Porphyrin sensitized solar cells: TiO2 sensitization with a pi-extended porphyrin possessing two anchoring groups. *Chemical Communications*, **2010**, 46, 6090-2	5.8	94
32	Fast transporting ZnO-TiO2 coaxial photoanodes for dye-sensitized solar cells based on ALD-modified SiO2 aerogel frameworks. *ACS Nano*, **2012**, 6, 6185-96	16.7	72
31	Core-shell strain structure of zeolite microcrystals. *Nature Materials*, **2013**, 12, 729-34	27	60
30	Very high third-order nonlinear optical activities of intrazeolite PbS quantum dots. *Journal of the American Chemical Society*, **2006**, 128, 15070-1	16.4	59
29	Direct in Situ Conversion of Metals into Metal-Organic Frameworks: A Strategy for the Rapid Growth of MOF Films on Metal Substrates. *ACS Applied Materials & Interfaces*, **2016**, 8, 32414-32420	9.5	44
28	Multiple Coordination Exchanges for Room-Temperature Activation of Open-Metal Sites in Metal-Organic Frameworks. *ACS Applied Materials & Interfaces*, **2017**, 9, 24743-24752	9.5	42

27	Effective panchromatic sensitization of electrochemical solar cells: strategy and organizational rules for spatial separation of complementary light harvesters on high-area photoelectrodes. *Journal of the American Chemical Society*, **2012**, 134, 19820-7	16.4	41
26	Dual-Functional Electrocatalyst Derived from Iron-Porphyrin-Encapsulated Metal-Organic Frameworks. *ACS Applied Materials & Interfaces*, **2017**, 9, 28758-28765	9.5	39
25	Coordinative Reduction of Metal Nodes Enhances the Hydrolytic Stability of a Paddlewheel Metal-Organic Framework. *Journal of the American Chemical Society*, **2019**, 141, 7853-7864	16.4	38
24	Length-dependent band-gap shift of TiO3(2-) molecular wires embedded in zeolite ETS-10. *Angewandte Chemie - International Edition*, **2007**, 46, 5868-72	16.4	38
23	Post-assembly atomic layer deposition of ultrathin metal-oxide coatings enhances the performance of an organic dye-sensitized solar cell by suppressing dye aggregation. *ACS Applied Materials & Interfaces*, **2015**, 7, 5150-9	9.5	37
22	Photovoltaic effects of CdS and PbS quantum dots encapsulated in zeolite Y. *Langmuir*, **2011**, 27, 14678-88	4	36
21	Metal coordination and metal activation abilities of commonly unreactive chloromethanes toward metal-organic frameworks. *Chemical Communications*, **2018**, 54, 6458-6471	5.8	33
20	High Proton Mobility with High Directionality in Isolated Channels of MOF-74. *ACS Applied Materials & Interfaces*, **2018**, 10, 35354-35360	9.5	33
19	New Insights into CdS Quantum Dots in Zeolite Y. *Journal of Physical Chemistry C*, **2007**, 111, 10298-10312	3.8	31
18	Tight confinement of semiconductor quantum dots within zeolite by surface silylation. *Langmuir*, **2005**, 21, 6038-47	4	31
17	A convenient route to high area, nanoparticulate TiO2 photoelectrodes suitable for high-efficiency energy conversion in dye-sensitized solar cells. *Langmuir*, **2011**, 27, 1996-9	4	30
16	Effect of water on the behavior of semiconductor quantum dots in zeolite Y: aggregation with framework destruction with H-Y and disaggregation with framework preservation for NH4-Y. *Journal of the American Chemical Society*, **2011**, 133, 1642-5	16.4	29
15	A Chemical Role for Trichloromethane: Room-Temperature Removal of Coordinated Solvents from Open Metal Sites in the Copper-Based Metal-Organic Frameworks. *Inorganic Chemistry*, **2018**, 57, 5225-5231	5.1	26
14	Exploration of crystal strains using coherent x-ray diffraction. *New Journal of Physics*, **2010**, 12, 035022	2.9	21
13	New insights into ETS-10 and titanate quantum wire: a comprehensive characterization. *Journal of the American Chemical Society*, **2009**, 131, 13080-92	16.4	20
12	Diffusion Control in the in Situ Synthesis of Iconic Metal-Organic Frameworks within an Ionic Polymer Matrix. *ACS Applied Materials & Interfaces*, **2018**, 10, 3793-3800	9.5	19
11	Exploiting Microwave Chemistry for Activation of Metal-Organic Frameworks. *ACS Applied Materials & Interfaces*, **2019**, 11, 35155-35161	9.5	18
10	Distribution pattern of length, length uniformity, and density of TiO3(2-) quantum wires in an ETS-10 crystal revealed by laser-scanning confocal polarized micro-Raman spectroscopy. *Angewandte Chemie - International Edition*, **2011**, 50, 8697-701	16.4	10

9	Formation of trigons in a metal-organic framework: The role of metal-organic polyhedron subunits as meta-atoms. *Chemical Science*, **2019**, 10, 6157-6161	9.4	9
8	Anisotropic Li+ ion conductivity in a large single crystal of a Co(III) coordination complex. *Inorganic Chemistry Frontiers*, **2017**, 4, 79-83	6.8	9
7	Rapid synthesis of high-quality ETS-10 crystals. *Microporous and Mesoporous Materials*, **2008**, 115, 308-313	3.3	9
6	Weak Coordination Bond of Chloromethane: A Unique Way to Activate Metal Node Within an Unstable Metal□Organic Framework DUT-34. *Bulletin of the Korean Chemical Society*, **2021**, 42, 658-666	1.2	6
5	Control of mode of crystal networking during monolayer assembly of microcrystals on water. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 370-4	1.3	5
4	A ruthenium complex as a single-component redox shuttle for electrochemical photovoltaics. *Chemical Communications*, **2015**, 51, 7745-8	5.8	4
3	Distribution Pattern of Length, Length Uniformity, and Density of TiO32□Quantum Wires in an ETS-10 Crystal Revealed by Laser-Scanning Confocal Polarized Micro-Raman Spectroscopy. *Angewandte Chemie*, **2011**, 123, 8856-8860	3.6	4
2	Vibrational Paddlewheel Cu□u Node in Metal□Organic Frameworks: Probe of Nonradiative Relaxation. *Journal of Physical Chemistry C*, **2020**, 124, 13187-13195	3.8	4
1	Characterization of CdS quantum dots encapsulated within zeolite Y. *Studies in Surface Science and Catalysis*, **2007**, 1522-1528	1.8	2