Ki-Joong Kim

List of Publications by Year
in descending order

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37 papers	1,057 citations	361045 20 h-index	414034 32 g-index
37 all docs	37 docs citations	37 times ranked	1460 citing authors

#	Article	IF	Citations
1	Metalâ€“Organic Framework Thin Film Coated Optical Fiber Sensors: A Novel Waveguide-Based Chemical Sensing Platform. ACS Sensors, 2018, 3, 386-394.	4.0	134
2	High-rate synthesis of Cuâ€“BTC metalâ€“organic frameworks. Chemical Communications, 2013, 49, 11518.	2.2	127
3	Zeolitic imidazolate framework-coated acoustic sensors for room temperature detection of carbon dioxide and methane. Nanoscale, 2018, 10, 8075-8087.	2.8	84
4	Near-infrared absorption gas sensing with metal-organic framework on optical fibers. Sensors and Actuators B: Chemical, 2016, 232, 43-51.	4.0	61
5	Ultrashort Near-Infrared Fiber-Optic Sensors for Carbon Dioxide Detection. IEEE Sensors Journal, 2015, 15, 5327-5332.	2.4	49
6	Visible-light-sensitive Na-doped p-type flower-like ZnO photocatalysts synthesized via a continuous flow microreactor. RSC Advances, 2013, 3, 12702.	1.7	47
7	Metal-organic framework functionalized polymer coating for fiber optical methane sensors. Sensors and Actuators B: Chemical, 2020, 324, 128627.	4.0	43
8	Plasmonics-enhanced metalâ€“organic framework nanoporous films for highly sensitive near-infrared absorption. Journal of Materials Chemistry C, 2015, 3, 2763-2767.	2.7	41
9	Visible-light-sensitive nanoscale Auâ€“ZnO photocatalysts. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	35
10	Continuous Microwave-Assisted Gasâ€“Liquid Segmented Flow Reactor for Controlled Nucleation and Growth of Nanocrystals. Crystal Growth and Design, 2014, 14, 5349-5355.	1.4	34
11	Alkylamine-Integrated Metalâ€“Organic Framework-Based Waveguide Sensors for Efficient Detection of Carbon Dioxide from Humid Gas Streams. ACS Applied Materials & Interfaces, 2019, 11, 33489-33496.	4.0	32
12	An 860 MHz Wireless Surface Acoustic Wave Sensor With a Metal-Organic Framework Sensing Layer for CO₂ and CH₄. IEEE Sensors Journal, 2020, 20, 9740-9747.	2.4	31
13	Synthesis of colloidal PbSe nanoparticles using a microwave-assisted segmented flow reactor. Materials Letters, 2014, 128, 54-59.	1.3	30
14	Metalâ€“organic framework thin films as versatile chemical sensing materials. Materials Advances, 2021, 2, 6169-6196.	2.6	30
15	State-of-the-art of methane sensing materials: A review and perspectives. TrAC - Trends in Analytical Chemistry, 2020, 125, 115820.	5.8	29
16	Centimeter-Scale Pillared-Layer Metalâ€“Organic Framework Thin Films Mediated by Hydroxy Double Salt Intermediates for CO₂ Sensor Applications. ACS Applied Materials & Interfaces, 2021, 13, 2062-2071.	4.0	24
17	Self-cleaning, high transmission, near unity haze OTS/silica nanostructured glass. Journal of Materials Chemistry C, 2018, 6, 9191-9199.	2.7	23
18	Segmented Microfluidic Flow Reactors for Nanomaterial Synthesis. Nanomaterials, 2020, 10, 1421.	1.9	23

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19	Synthesis of High-Quality Mg-MOF-74 Thin Films via Vapor-Assisted Crystallization. ACS Applied Materials & Interfaces, 2021, 13, 35223-35231.	4.0	23
20	Rapid, Selective, Ambient Growth and Optimization of Copper Benzene-1,3,5-Tricarboxylate (Cuâ€“BTC) Metalâ€“Organic Framework Thin Films on a Conductive Metal Oxide. Crystal Growth and Design, 2018, 18, 2924-2931.	1.4	22
21	Plasmonic nanopatch array with integrated metalâ€“organic framework for enhanced infrared absorption gas sensing. Nanotechnology, 2017, 28, 26LT01.	1.3	20
22	Scalably synthesized environmentally benign, aqueous-based binary nanoparticle inks for Cu₂ZnSn(S,Se)₄ photovoltaic cells achieving over 9% efficiency. Sustainable Energy and Fuels, 2017, 1, 267-274.	2.5	19
23	Continuous, size and shape-control synthesis of hollow silica nanoparticles enabled by a microreactor-assisted rapid mixing process. Nanotechnology, 2017, 28, 235602.	1.3	16
24	Continuous synthesis of colloidal chalcopyrite copper indium diselenide nanocrystal inks. RSC Advances, 2014, 4, 16418-16424.	1.7	14
25	Conformal growth of copper sulfide thin films on highly textured surface via microreactor-assisted solution deposition. CrystEngComm, 2015, 17, 2827-2836.	1.3	13
26	Flexible nanograss with highest combination of transparency and haze for optoelectronic plastic substrates. Nanotechnology, 2018, 29, 42LT01.	1.3	10
27	Nanostructured copper sulfide thin film via a spatial successive ionic layer adsorption and reaction process showing significant surface-enhanced infrared absorption of CO₂. Journal of Materials Chemistry C, 2020, 8, 3069-3078.	2.7	9
28	Two-step continuous-flow synthesis of CuInSe₂ nanoparticles in a solar microreactor. RSC Advances, 2014, 4, 13827-13830.	1.7	7
29	Characterization of Cotton Ball-like Au/ZnO Photocatalyst Synthesized in a Micro-Reactor. Micromachines, 2018, 9, 322.	1.4	6
30	Enhanced Guest@MOF Interaction via Stepwise Thermal Annealing: TCNQ@Cu₃(BTC)₂. Crystal Growth and Design, 2021, 21, 817-828.	1.4	5
31	In Situ Growth and Interlayer Modulation of Layered Double Hydroxide Thin Films from a Transparent Conducting Oxide Precursor. Crystal Growth and Design, 2021, 21, 1518-1526.	1.4	5
32	Synthesis and Quantum Metrology of Metalâ€“Organic Framework-Coated Nanodiamonds Containing Nitrogen Vacancy Centers. Chemistry of Materials, 2021, 33, 6365-6373.	3.2	5
33	Real-Time Monitoring of Gas-Phase and Dissolved CO₂ Using a Mixed-Matrix Composite Integrated Fiber Optic Sensor for Carbon Storage Application. Environmental Science & Technology, 2022, 56, 10891-10903.	4.6	3
34	Growth kinetics of copper sulfide thin films by photochemical deposition. CrystEngComm, 2016, 18, 6748-6758.	1.3	2
35	Polymer/Metalâ€”Organic Framework Composite Sensors for Gas Detection. ECS Meeting Abstracts, 2019, , .	0.0	1
36	Gold catalysts supported on ZnO/Al2O3 for low-temperature CO oxidation. Research on Chemical Intermediates, 2011, 37, 1165-1172.	1.3	0

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37	Redox Active Molecule Induced Metal-Organic Framework Thin Film on Optical Fiber Towards Chemical Sensing of Carbon Dioxide. ECS Meeting Abstracts, 2019, , .	0.0	0