Min Kim

List of Publications by Year
in descending order

105 papers	5,414 citations	126907 33 h-index	85541 71 g-index
122 all docs	122 docs citations	122 times ranked	6717 citing authors

#	Article	IF	Citations
1	Postsynthetic Ligand and Cation Exchange in Robust Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2012, 134, 18082-18088.	13.7	702
2	Tuning the Adsorption Properties of UiO-66 via Ligand Functionalization. Langmuir, 2012, 28, 15606-15613.	3.5	505
3	Postsynthetic ligand exchange as a route to functionalization of â€˜inertâ€™ metalâ€“organic frameworks. Chemical Science, 2012, 3, 126-130.	7.4	403
4	Intermolecular Oxidative Câ€“N Bond Formation under Metal-Free Conditions: Control of Chemoselectivity between Aryl sp² and Benzylic sp³ Câ€“H Bond Imidation. Journal of the American Chemical Society, 2011, 133, 16382-16385.	13.7	365
5	Discovery, development, and functionalization of Zr(<scp>iv</scp>)-based metalâ€“organic frameworks. CrystEngComm, 2012, 14, 4096-4104.	2.6	282
6	Rh(NHC)-Catalyzed Direct and Selective Arylation of Quinolines at the 8-Position. Journal of the American Chemical Society, 2011, 133, 3780-3783.	13.7	223
7	MIL-101(Fe) as a lithium-ion battery electrode material: a relaxation and intercalation mechanism during lithium insertion. Journal of Materials Chemistry A, 2015, 3, 4738-4744.	10.3	168
8	Hydrogen-Bond-Assisted Controlled Câ€“H Functionalization via Adaptive Recognition of a Purine Directing Group. Journal of the American Chemical Society, 2014, 136, 1132-1140.	13.7	146
9	Rhodium/Nâ€Heterocyclic Carbene Catalyzed Direct Intermolecular Arylation of sp² and sp³ Cï£¿H Bonds with Chelation Assistance. Angewandte Chemie - International Edition, 2009, 48, 8935-8939.	13.8	145
10	WO3Nanoparticles on MCM-48 as a Highly Selective and Versatile Heterogeneous Catalyst for the Oxidation of Olefins, Sulfides, and Cyclic Ketones. Organic Letters, 2005, 7, 5015-5018.	4.6	97
11	Intramolecular Oxidative Diamination and Aminohydroxylation of Olefins under Metal-Free Conditions. Organic Letters, 2012, 14, 1424-1427.	4.6	94
12	Synthetic Uses of Ammonia in Transitionâ€Metal Catalysis. European Journal of Organic Chemistry, 2013, 2013, 3201-3213.	2.4	87
13	Significant Selfâ€Acceleration Effects of Nitrile Additives in the Rhodiumâ€Catalyzed Conversion of Aldoximes to Amides: A New Mechanistic Aspect. Advanced Synthesis and Catalysis, 2009, 351, 1807-1812.	4.3	82
14	Microwave-Assisted Cyanation of an Aryl Bromide Directly on a Metalâ^'Organic Framework. Inorganic Chemistry, 2011, 50, 729-731.	4.0	81
15	Anhydrous Hydration of Nitriles to Amides using Aldoximes as the Water Source. Organic Letters, 2009, 11, 5598-5601.	4.6	79
16	Rhodium(NHC)-Catalyzed Amination of Aryl Bromides. Organic Letters, 2010, 12, 1640-1643.	4.6	76
17	Pore engineering of metal-organic frameworks with coordinating functionalities. Coordination Chemistry Reviews, 2020, 420, 213377.	18.8	75
18	Use of Ruthenium/Alumina as a Convenient Catalyst for Copper-Free Sonogashira Coupling Reactions. Advanced Synthesis and Catalysis, 2004, 346, 1638-1640.	4.3	74

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19	Highly Efficient and Versatile Synthesis of Polyarylfluorenes via Pd-Catalyzed Câ^'H Bond Activation. Organic Letters, 2009, 11, 4588-4591.	4.6	72
20	Postsynthetic modification at orthogonal reactive sites on mixed, bifunctional metalâ€“organic frameworks. Chemical Communications, 2011, 47, 7629.	4.1	71
21	Functional group effects on a metal-organic framework catalyst for CO2 cycloaddition. Journal of Industrial and Engineering Chemistry, 2018, 64, 478-483.	5.8	62
22	Single-Atom Ligand Changes Affect Breathing in an Extended Metalâ€“Organic Framework. Inorganic Chemistry, 2012, 51, 5671-5676.	4.0	61
23	Metalâ€“Organic Framework Regioisomers Based on Bifunctional Ligands. Angewandte Chemie - International Edition, 2011, 50, 12193-12196.	13.8	57
24	Adsorptive separation of xenon/krypton mixtures using ligand controls in a zirconium-based metal-organic framework. Chemical Engineering Journal, 2018, 335, 345-351.	12.7	55
25	Rhodium(NHC)-Catalyzed O-Arylation of Aryl Bromides. Organic Letters, 2011, 13, 2368-2371.	4.6	52
26	Site-selective cyclometalation of a metalâ€“organic framework. Chemical Science, 2013, 4, 601-605.	7.4	49
27	Dinuclear Aluminum Complexes as Catalysts for Cycloaddition of CO2 to Epoxides. Organometallics, 2014, 33, 2770-2775.	2.3	48
28	Tertiary amines: A new class of highly efficient organocatalysts for CO2 fixations. Journal of Industrial and Engineering Chemistry, 2016, 44, 210-215.	5.8	48
29	Thiolâ€“ene photopolymerization of vinyl-functionalized metalâ€“organic frameworks towards mixed-matrix membranes. Journal of Materials Chemistry A, 2018, 6, 21961-21968.	10.3	44
30	Charged functional group effects on a metalâ€“organic framework for selective organic dye adsorptions. CrystEngComm, 2015, 17, 8418-8422.	2.6	40
31	Trimanganese Complexes Bearing Bidentate Nitrogen Ligands as a Highly Efficient Catalyst Precursor in the Epoxidation of Alkenesâ€. Journal of Organic Chemistry, 2006, 71, 6721-6727.	3.2	37
32	Surfaceâ€Deactivated Coreâ€“Shell Metalâ€“Organic Framework by Simple Ligand Exchange for Enhanced Size Discrimination in Aerobic Oxidation of Alcohols. Chemistry - A European Journal, 2020, 26, 7568-7572.	3.3	34
33	Defect Engineering into Metalâ€“Organic Frameworks for the Rapid and Sequential Installation of Functionalities. Inorganic Chemistry, 2018, 57, 1040-1047.	4.0	31
34	New Aspects of Recently Developed Rhodium(Nâ€Heterocyclic Carbene)â€Catalyzed Organic Transformations. Advanced Synthesis and Catalysis, 2019, 361, 1479-1499.	4.3	30
35	Copper-Catalyzed Selective Arylations of Benzoxazoles with Aryl Iodides. Journal of Organic Chemistry, 2015, 80, 3670-3676.	3.2	29
36	Intriguing Indium-salen Complexes as Multicolor Luminophores. Inorganic Chemistry, 2017, 56, 2621-2626.	4.0	28

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37	Direct synthesis of anthracenes from o-tolualdehydes and aryl iodides through Pd(II)-Catalyzed sp C H arylation and electrophilic aromatic cyclization. Tetrahedron, 2018, 74, 2048-2055.	1.9	28
38	Multiple functional groups in metalâ€“organic frameworks and their positional regioisomerism. Coordination Chemistry Reviews, 2021, 438, 213892.	18.8	28
39	Highly Active Salenâ€Based Aluminum Catalyst for the Coupling of Carbon Dioxide with Epoxides at Ambient Temperature. European Journal of Inorganic Chemistry, 2017, 2017, 5372-5378.	2.0	27
40	Amineâ€Tagged Fragmented Ligand Installation for Covalent Modification of MOFâ€74. Angewandte Chemie - International Edition, 2021, 60, 9296-9300.	13.8	26
41	Strategies in Metalâ€“‹scp›Organic Frameworkâ€based‹/scp› Catalysts for the Aerobic Oxidation of Alcohols and Recent Progress. Bulletin of the Korean Chemical Society, 2021, 42, 359-368.	1.9	25
42	Identification of Reaction Sites on Metalâ€“Organic Framework-Based Asymmetric Catalysts for Carbonylâ€“Ene Reactions. ACS Catalysis, 2019, 9, 3969-3977.	11.2	24
43	Titanium complexes containing bidentate benzotriazole ligands as catalysts for the ring opening polymerization of lactide. Polyhedron, 2014, 67, 286-294.	2.2	23
44	Aromatic Substituent Effects on the Flexibility of Metalâ€“Organic Frameworks. Inorganic Chemistry, 2016, 55, 7576-7581.	4.0	22
45	Transition Metal-Catalyzed Î±-Position Carbonâ€“Carbon Bond Formations of Carbonyl Derivatives. Catalysts, 2020, 10, 861.	3.5	21
46	Sequential Connection of Mutually Exclusive Catalytic Reactions by a Method Controlling the Presence of an MOF Catalyst: One-Pot Oxidation of Alcohols to Carboxylic Acids. Inorganic Chemistry, 2020, 59, 17573-17582.	4.0	19
47	Europiumâ€Catalyzed Aerobic Oxidation of Alcohols to Aldehydes/Ketones and Photoluminescence Tracking. Advanced Synthesis and Catalysis, 2019, 361, 1259-1264.	4.3	18
48	Augmentation of the antitumor effects of PARP inhibitors in triple-negative breast cancer via degradation by hydrophobic tagging modulation. European Journal of Medicinal Chemistry, 2020, 204, 112635.	5.5	18
49	Functional tolerance in an isoreticular series of highly porous metalâ€“organic frameworks. Dalton Transactions, 2012, 41, 6277.	3.3	17
50	Systematic design of indium-based luminophores with color-tunable emission via combined manipulation of HOMO and LUMO levels. Dyes and Pigments, 2018, 158, 285-294.	3.7	17
51	Pore Engineering of Covalently Connected Metalâ€“Organic Framework Nanoparticleâ€“Mixed-Matrix Membrane Composites for Molecular Separation. ACS Applied Nano Materials, 2020, 3, 9356-9362.	5.0	16
52	Systemized organic functional group controls in polydiacetylenes and their effects on color changes. Journal of Applied Polymer Science, 2017, 134, 45011.	2.6	15
53	Carbazole-Appended Salenâ€“Indium Conjugate Systems: Synthesis and Enhanced Luminescence Efficiency. Inorganic Chemistry, 2019, 58, 12358-12364.	4.0	15
54	A potential role of a substrate as a base for the deprotonation pathway in Rh-catalysed Câ€“H amination of heteroarenes: DFT insights. Dalton Transactions, 2016, 45, 7980-7985.	3.3	14

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55	Synthesis of o-carborane-functionalized metalâ€“organic frameworks through ligand exchanges for aggregation-induced emission in the solid state. Chemical Communications, 2019, 55, 11844-11847.	4.1	14
56	Positional Installation of Unsymmetrical Fluorine Functionalities onto Metalâ€“Organic Frameworks for Efficient Carbon Dioxide Separation under Humid Conditions. Inorganic Chemistry, 2020, 59, 18048-18054.	4.0	14
57	Synergistic Effect of a Bis(proazaphosphatrane) in Mild Palladiumâ€Catalyzed Direct Î±â€Arylations of Nitriles with Aryl Chlorides. European Journal of Organic Chemistry, 2014, 2014, 6025-6029.	2.4	13
58	Salen-indium/triarylborane triads: synthesis and ratiometric emission-colour changes by fluoride ion binding. Dalton Transactions, 2018, 47, 5310-5317.	3.3	13
59	A salenâ€“Al/carbazole dyad-based guestâ€“host assembly: enhancement of luminescence efficiency via intramolecular energy transfer. Chemical Communications, 2018, 54, 4712-4715.	4.1	13
60	Stepwise blue-red-yellow color change of a polydiacetylene sensor through internal and external transitions. Dyes and Pigments, 2018, 149, 242-245.	3.7	13
61	Systematic Control of the Overlapping Energy Region for an Efficient Intramolecular Energy Transfer: Functionalized Salenâ€“Al/Triphenylamine Guestâ€“Host Assemblies. Inorganic Chemistry, 2019, 58, 2454-2462.	4.0	13
62	Zirconocene Complexes as Catalysts for the Cycloaddition of CO₂ to Propylene Oxide. European Journal of Inorganic Chemistry, 2014, 2014, 5107-5112.	2.0	12
63	Synthesis of functionalized titanium-carboxylate molecular clusters and their catalytic activity. Journal of Industrial and Engineering Chemistry, 2017, 53, 171-176.	5.8	12
64	Flexibility in metalâ€“organic frameworks derived from positional and electronic effects of functional groups. CrystEngComm, 2017, 19, 5361-5368.	2.6	12
65	Halide-Free and Bifunctional One-Component Catalysts for the Coupling of Carbon Dioxide and Epoxides. Inorganic Chemistry, 2019, 58, 5922-5931.	4.0	12
66	Dual-fixations of europium cations and TEMPO species on metalâ€“organic frameworks for the aerobic oxidation of alcohols. Dalton Transactions, 2020, 49, 8060-8066.	3.3	12
67	Recent Organic Transformations with Silver Carbonate as a Key External Base and Oxidant. Catalysts, 2019, 9, 1032.	3.5	11
68	Transient Directing Groupâ€Assisted Câ”€H Bond Functionalization of Aliphatic Amines: Strategies for Efficiency and Siteâ€Selectivity. Bulletin of the Korean Chemical Society, 2020, 41, 582-587.	1.9	11
69	Ir-Catalyzed Câ€“H Amidation Using Carbamoyl Azides for the Syntheses of Unsymmetrical Ureas. Journal of Organic Chemistry, 2020, 85, 6233-6241.	3.2	11
70	Recent Advances in Catalytic [3,3]-Sigmatropic Rearrangements. Catalysts, 2022, 12, 227.	3.5	11
71	Uncoordinated tetrazole ligands in metalâ€“organic frameworks for <scp>protonâ€conductivity</scp> studies. Bulletin of the Korean Chemical Society, 2022, 43, 912-917.	1.9	11
72	Synthesis of secondary and tertiary amine-containing MOFs: Câ€“N bond cleavage during MOF synthesis. CrystEngComm, 2015, 17, 5644-5650.	2.6	10

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73	A Versatile Cobalt Catalyst for Secondary and Tertiary Amide Synthesis from Various Carboxylic Acid Derivatives. Asian Journal of Organic Chemistry, 2016, 5, 222-231.	2.7	10
74	Temperature-controlled acyloxylations and hydroxylations of bromoarene by a silver salt. Tetrahedron Letters, 2016, 57, 781-783.	1.4	10
75	Synthesis, characterization, and cycloaddition reaction studies of zinc(II) acetate complexes containing 2,6-bis(pyrazol-1-yl)pyridine and 2,6-bis(3,5-dimethylpyrazol-1-yl)pyridine ligands. Polyhedron, 2017, 125, 101-106.	2.2	10
76	Mussel-Inspired, One-Step Thiol Functionalization of Solid Surfaces. Langmuir, 2020, 36, 1608-1614.	3.5	10
77	Differential ion dehydration energetics explains selectivity in the non-canonical lysosomal K+ channel TMEM175. ELife, 0, 11, .	6.0	9
78	A Tuned Bicyclic Proazaphosphatrane for Catalytically Enhanced Nâ€Arylation Reactions with Aryl Chlorides. European Journal of Organic Chemistry, 2015, 2015, 1954-1960.	2.4	8
79	Cobalt/nitrophenolate-catalyzed selective conversion of aldoximes into nitriles or amides. Catalysis Communications, 2015, 60, 120-123.	3.3	8
80	A Series of Quinolinol-Based Indium Luminophores: A Rational Design Approach for Manipulating Photophysical Properties. Inorganic Chemistry, 2019, 58, 8056-8063.	4.0	8
81	4-(3-Aminopropyl)-benzene-1,2-diol: An Improved Material-Independent Surface-Coating Reagent Compared to Dopamine. Langmuir, 2019, 35, 6898-6904.	3.5	8
82	TEMPO-radical-bearing metalâ€“organic frameworks and covalent organic frameworks for catalytic applications. Dalton Transactions, 2021, 50, 14081-14090.	3.3	8
83	Effect of the Metal within Regioisomeric Paddleâ€Wheelâ€Type Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2019, 25, 14414-14420.	3.3	7
84	Visible Light-Mediated Installation of Halogen Functionalities into Multiple Bond Systems. ChemistrySelect, 2017, 2, 9136-9146.	1.5	7
85	Effect of Head Structure on ATP Detection in Polydiacetylene Systems. Macromolecular Research, 2020, 28, 62-66.	2.4	6
86	p-Type Double Doping and the Diamond-like Morphology Shift of the Zintl Phase Thermoelectric Materials: The Ca_{11â€“x}A_xSb_{10â€“y}Ge_z (A =) Tj ET Q q 0 0 0 rgBT /Ove Chemistry, 2021, 60, 10124-10136.		6
87	Three Component Controls in Pillared Metal-Organic Frameworks for Catalytic Carbon Dioxide Fixation. Catalysts, 2018, 8, 565.	3.5	5
88	Visible Light Photochemical Reactions for Nucleic Acid-Based Technologies. Molecules, 2021, 26, 556.	3.8	5
89	Post-synthetic ligand cyclization in metalâ€“organic frameworks through functional group connection with regioisomerism. Chemical Communications, 2022, 58, 5948-5951.	4.1	5
90	Effect of N-Methylation on Dopamine Surface Chemistry. Langmuir, 2022, 38, 6404-6410.	3.5	5

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91	Zirconium complexes with pendant aryloxy groups attached to the metallocene moiety by ethyl or hexyl spacers. Polyhedron, 2014, 67, 205-212.	2.2	4
92	Photochemical Control of Polydopamine Coating in an Aprotic Organic Solvent. Asian Journal of Organic Chemistry, 2019, 8, 1610-1612.	2.7	4
93	Synthesis and Photophysical Properties of (Cl 2 Ph)Salenâ€based Indium Complexes. Bulletin of the Korean Chemical Society, 2020, 41, 748-752.	1.9	4
94	Amineâ€Tagged Fragmented Ligand Installation for Covalent Modification of MOFâ€74. Angewandte Chemie, 2021, 133, 9382-9386.	2.0	4
95	Patchwork Metalâ€“Organic Frameworks by Radical-Mediated Heterografting of Star Polymers for Surface Modification. Inorganic Chemistry, 2022, 61, 10365-10372.	4.0	4
96	Selective Synthesis of Homoleptic and Heteroleptic Triarylboranes and Their Novel Colour Tunable Properties. ChemistrySelect, 2016, 1, 1239-1242.	1.5	3
97	Experimental, Structural, and Computational Investigation of Mixed Metalâ€“Organic Frameworks from Regioisomeric Ligands for Porosity Control. Crystal Growth and Design, 2020, 20, 5338-5345.	3.0	3
98	Pdâ€Catalyzed Regioâ€and Stereoselective sp³ Câ^'H Arylation of Primary Aliphatic Amines: Mechanistic Studies and Synthetic Applications. European Journal of Organic Chemistry, 2021, 2021, 1136-1145.	2.4	3
99	Trans-fused 5-[(tert-Butoxtycarbonyl)amino]octahydroindenes as a protease activated receptor-1 (PAR1) antagonist. Archives of Pharmacal Research, 2016, 39, 1275-1295.	6.3	2
100	Synthesis and Photophysical Properties of a Series of Dimeric Indium Quinolinates. Molecules, 2021, 26, 34.	3.8	2
101	Biosensors Based on Bivalent and Multivalent Recognition by Nucleic Acid Scaffolds. Applied Sciences (Switzerland), 2022, 12, 1717.	2.5	2
102	Development of Heterogeneous Enantioselective Catalysts using Chiral Metal-Organic Frameworks (MOFs). Journal of Visualized Experiments, 2020, , .	0.3	1
103	Transformation of tertâ€Butyl Amide Directing Groups to Nitriles in Iridiumâ€Catalyzed Câ€“H Bond Functionalizations. Asian Journal of Organic Chemistry, 2021, 10, 3411.	2.7	1
104	Cobalt-Catalyzed Cyclization of 2-Bromobenzamides with Carbodiimides: A New Route for the Synthesis of 3-(Imino)isoindolin-1-ones. Molecules, 2021, 26, 7212.	3.8	1
105	N-Heterocyclic Carbene (NHC) Complexes of Rhodium and Iridium. , 2021, , .		0