

# Alex Chi-Kin Yip

## List of Publications by Year in descending order

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92  
papers

3,879  
citations

101496

36  
h-index

133188

59  
g-index

95  
all docs

95  
docs citations

95  
times ranked

5044  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalysts for degradation of dyes in industrial effluents: Opportunities and challenges. <i>Nano Research</i> , 2019, 12, 955-972.	5.8	430
2	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. <i>Chemical Engineering Journal</i> , 2020, 401, 126136.	6.6	158
3	Environmental impacts of nanomaterials. <i>Journal of Environmental Management</i> , 2018, 225, 261-271.	3.8	155
4	Thermal stability of ZIF-8 under oxidative and inert environments: A practical perspective on using ZIF-8 as a catalyst support. <i>Chemical Engineering Journal</i> , 2015, 278, 293-300.	6.6	142
5	Modern synthesis strategies for hierarchical zeolites: Bottom-up versus top-down strategies. <i>Advanced Powder Technology</i> , 2019, 30, 467-484.	2.0	127
6	Catalytic valorization of starch-rich food waste into hydroxymethylfurfural (HMF): Controlling relative kinetics for high productivity. <i>Bioresource Technology</i> , 2017, 237, 222-230.	4.8	121
7	Thermal Structural Transitions and Carbon Dioxide Adsorption Properties of Zeolitic Imidazolate Framework-7 (ZIF-7). <i>Journal of the American Chemical Society</i> , 2014, 136, 7961-7971.	6.6	102
8	Valorization of cellulosic food waste into levulinic acid catalyzed by heterogeneous Brønsted acids: Temperature and solvent effects. <i>Chemical Engineering Journal</i> , 2017, 327, 328-335.	6.6	99
9	Valorization of food waste into hydroxymethylfurfural: Dual role of metal ions in successive conversion steps. <i>Bioresource Technology</i> , 2016, 219, 338-347.	4.8	98
10	Degradation of antibiotics by modified vacuum-UV based processes: Mechanistic consequences of H <sub>2</sub> O <sub>2</sub> and K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> in the presence of halide ions. <i>Science of the Total Environment</i> , 2019, 664, 312-321.	3.9	92
11	Propylene carbonate and $\gamma$ -valerolactone as green solvents enhance Sn(IV)-catalysed hydroxymethylfurfural (HMF) production from bread waste. <i>Green Chemistry</i> , 2018, 20, 2064-2074.	4.6	85
12	Chemical-Vapor-Deposited Copper on Acid-Activated Bentonite Clay as an Applicable Heterogeneous Catalyst for the Photo-Fenton-like Oxidation of Textile Organic Pollutants. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 7983-7990.	1.8	69
13	Copper/MCM-41 as a Highly Stable and pH-insensitive Heterogeneous Photo-Fenton-like Catalytic Material for the Abatement of Organic Wastewater. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 3328-3333.	1.8	68
14	Soil stabilisation using AMD sludge, compost and lignite: TCLP leachability and continuous acid leaching. <i>Chemosphere</i> , 2013, 93, 2839-2847.	4.2	68
15	Influence of green solvent on levulinic acid production from lignocellulosic paper waste. <i>Bioresource Technology</i> , 2020, 298, 122544.	4.8	66
16	Pretreating biomass via demineralisation and torrefaction to improve the quality of crude pyrolysis oil. <i>Energy</i> , 2016, 109, 481-494.	4.5	64
17	Incorporating Hierarchy into Conventional Zeolites for Catalytic Biomass Conversions: A Review. <i>Catalysts</i> , 2019, 9, 127.	1.6	64
18	Arsenic and copper stabilisation in a contaminated soil by coal fly ash and green waste compost. <i>Environmental Science and Pollution Research</i> , 2014, 21, 10194-10204.	2.7	63

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19	Mechanism and kinetics of sodium borohydride hydrolysis over crystalline nickel and nickel boride and amorphous nickel–boron nanoparticles. <i>Journal of Power Sources</i> , 2014, 268, 596-603.	4.0	61
20	The use of demineralisation and torrefaction to improve the properties of biomass intended as a feedstock for fast pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 113, 296-306.	2.6	60
21	Tin-Functionalized Wood Biochar as a Sustainable Solid Catalyst for Glucose Isomerization in Biorefinery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4851-4860.	3.2	59
22	Valorization of starchy, cellulosic, and sugary food waste into hydroxymethylfurfural by one-pot catalysis. <i>Chemosphere</i> , 2017, 184, 1099-1107.	4.2	58
23	Selective conversion of cellulose into bulk chemicals over Brønsted acid-promoted ruthenium catalyst: one-pot vs. sequential process. <i>Green Chemistry</i> , 2012, 14, 3336.	4.6	56
24	A Review on the Production and Purification of Biomass-Derived Hydrogen Using Emerging Membrane Technologies. <i>Catalysts</i> , 2017, 7, 297.	1.6	56
25	Exfoliated Ni-Al LDH 2D nanosheets for intermediate temperature CO <sub>2</sub> capture. <i>Journal of Hazardous Materials</i> , 2019, 374, 365-371.	6.5	55
26	An oriented, siliceous deca-dodecasil 3R (DDR) zeolite film for effective carbon capture: insight into its hydrophobic effect. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11246-11254.	5.2	52
27	Cobalt-impregnated biochar produced from CO <sub>2</sub> -mediated pyrolysis of Co/lignin as an enhanced catalyst for activating peroxymonosulfate to degrade acetaminophen. <i>Chemosphere</i> , 2019, 226, 924-933.	4.2	50
28	Healing of Microdefects in SSZ-13 Membranes via Filling with Dye Molecules and Its Effect on Dry and Wet CO <sub>2</sub> Separations. <i>Chemistry of Materials</i> , 2018, 30, 3346-3358.	3.2	48
29	Comparing chemical-enhanced washing and waste-based stabilisation approach for soil remediation. <i>Journal of Soils and Sediments</i> , 2014, 14, 936-947.	1.5	46
30	Requirements for effective photocatalytic oxidative desulfurization of a thiophene-containing solution using TiO <sub>2</sub> . <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1947-1955.	3.3	44
31	Advances in the Green Synthesis of Microporous and Hierarchical Zeolites: A Short Review. <i>Catalysts</i> , 2019, 9, 274.	1.6	44
32	Recent advances in zeolite-encapsulated metal catalysts: A suitable catalyst design for catalytic biomass conversion. <i>Bioresource Technology</i> , 2020, 297, 122488.	4.8	42
33	Promoting hydrolysis of ammonia borane over multiwalled carbon nanotube-supported Ru catalysts via hydrogen spillover. <i>Catalysis Communications</i> , 2017, 91, 10-15.	1.6	40
34	Novel bimetallic catalyst for the photo-assisted degradation of Acid Black 1 over a broad range of pH. <i>Chemical Engineering Science</i> , 2007, 62, 5150-5153.	1.9	39
35	Photocatalytic reduction of CO <sub>2</sub> to hydrocarbons using bio-templated porous TiO <sub>2</sub> architectures under UV and visible light. <i>Chemical Engineering Journal</i> , 2018, 347, 64-73.	6.6	39
36	An Heteroepitaxially Grown Zeolite Membrane. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18654-18662.	7.2	38

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37	A comparative study of hexacyanoferrate-based Prussian blue analogue nanocrystals for catalytic reduction of 4-nitrophenol to 4-aminophenol. <i>Separation and Purification Technology</i> , 2019, 218, 138-145.	3.9	38
38	A detailed product analysis of bio-oil from fast pyrolysis of demineralised and torrefied biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 123, 194-203.	2.6	37
39	A novel heterogeneous acid-activated clay supported copper catalyst for the photobleaching and degradation of textile organic pollutant using photo-Fenton-like reaction. <i>Chemical Communications</i> , 2005, , 3218.	2.2	36
40	Synthesis of mesoporous MFI zeolite via bacterial cellulose-derived carbon templating for fast adsorption of formaldehyde. <i>Journal of Hazardous Materials</i> , 2020, 384, 121161.	6.5	33
41	Functionalized zeolite-solvent catalytic systems for microwave-assisted dehydration of fructose to 5-hydroxymethylfurfural. <i>Microporous and Mesoporous Materials</i> , 2019, 284, 43-52.	2.2	32
42	Catalytic Activity of Clay-Based Titanium Silicalite-1 Composite in Cyclohexanone Ammoximation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 8441-8450.	1.8	28
43	Contrasting Roles of Maleic Acid in Controlling Kinetics and Selectivity of Sn(IV)- and Cr(III)-Catalyzed Hydroxymethylfurfural Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14264-14274.	3.2	28
44	Organic Acid-Regulated Lewis Acidity for Selective Catalytic Hydroxymethylfurfural Production from Rice Waste: An Experimental&#x2013;Computational Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1437-1446.	3.2	28
45	On the zeolitic imidazolate framework-8 (ZIF-8) membrane for hydrogen separation from simulated biomass-derived syngas. <i>Microporous and Mesoporous Materials</i> , 2016, 233, 70-77.	2.2	27
46	Synthesis of palladium phosphides for aqueous phase hydrodechlorination: Kinetic study and deactivation resistance. <i>Journal of Catalysis</i> , 2018, 366, 80-90.	3.1	27
47	Selective Conversion of Glycerol into Propylene: Single-Step versus Tandem Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4192-4207.	3.2	26
48	Risk mitigation by waste-based permeable reactive barriers for groundwater pollution control at e-waste recycling sites. <i>Environmental Geochemistry and Health</i> , 2017, 39, 75-88.	1.8	24
49	Heterogeneous Catalysis: Enabling a Sustainable Future. <i>Frontiers in Catalysis</i> , 2021, 1, .	1.8	24
50	Formulation of Reaction Kinetics for Cyclohexanone Ammoximation Catalyzed by a Clay-Based Titanium Silicalite-1 Composite in a Semibatch Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 13703-13710.	1.8	23
51	Efficacy and limitations of low-cost adsorbents for in-situ stabilisation of contaminated marine sediment. <i>Journal of Cleaner Production</i> , 2019, 212, 420-427.	4.6	23
52	Recent Progress in CO Hydrogenation over Bimetallic Catalysts for Higher Alcohol Synthesis. <i>ChemCatChem</i> , 2021, 13, 111-120.	1.8	23
53	Investigation of simultaneous removal of ammonia and hydrogen sulphide from producer gas in biomass gasification by titanomagnetite. <i>Fuel</i> , 2014, 135, 235-242.	3.4	21
54	MoO <sub>3</sub> modified Ni <sub>2</sub> P/Al <sub>2</sub> O <sub>3</sub> as an efficient catalyst for crude glycerol to propylene. <i>Catalysis Communications</i> , 2017, 92, 80-85.	1.6	21

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55	Ball-milled, solvent-free Sn-functionalisation of wood waste biochar for sugar conversion in food waste valorisation. <i>Journal of Cleaner Production</i> , 2020, 268, 122300.	4.6	20
56	Metal encapsulation in zeolite particles: A rational design of zeolite-supported catalyst with maximum site activity. <i>Advanced Powder Technology</i> , 2020, 31, 1274-1279.	2.0	19
57	Highly effective degradation of sodium dodecylbenzene sulphonate and synthetic greywater by Fenton-like reaction over zerovalent iron-based catalyst. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 1071-1080.	1.0	10
58	Mono-dispersed DDR zeolite particles by seeded growth and their CO <sub>2</sub> , N <sub>2</sub> , and H <sub>2</sub> O adsorption properties. <i>Chemical Engineering Journal</i> , 2016, 306, 876-888.	6.6	18
59	Catalytically active interfaces in titania nanorod-supported copper catalysts for CO oxidation. <i>Nano Research</i> , 2020, 13, 533-542.	5.8	18
60	A heterostructured titanium silicalite-1 catalytic composite for cyclohexanone ammoxidation. <i>Microporous and Mesoporous Materials</i> , 2009, 120, 368-374.	2.2	17
61	Photo-Fenton abatement of aqueous organics using metal-organic frameworks: An advancement from benchmark zeolite. <i>Science of the Total Environment</i> , 2018, 644, 389-397.	3.9	17
62	The unique features of non-competitive vs. competitive sorption: Tests against single volatile aromatic hydrocarbons and their quaternary mixtures. <i>Environmental Research</i> , 2019, 173, 508-516.	3.7	17
63	Generation and extraction of hydrogen from low-temperature water-gas-shift reaction by a ZIF-8-based membrane reactor. <i>Microporous and Mesoporous Materials</i> , 2019, 280, 347-356.	2.2	17
64	Thermosensitive Structural Changes and Adsorption Properties of Zeolitic Imidazolate Framework-8 (ZIF-8). <i>Journal of Physical Chemistry C</i> , 2015, 119, 8226-8237.	1.5	16
65	Catalytic consequences of charge-balancing cations in zeolite during photo-Fenton oxidation of formaldehyde in alkaline conditions. <i>Separation and Purification Technology</i> , 2014, 125, 269-274.	3.9	14
66	Study on the Synthesis of Clay-Based Titanium Silicalite-1 Catalytic Composite. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 5266-5275.	1.8	13
67	Anti-poisoning core-shell metal/ZIF-8 catalyst for selective alkene hydrogenation. <i>Catalysis Today</i> , 2016, 265, 203-209.	2.2	13
68	Tailoring acidity and porosity of alumina catalysts via transition metal doping for glucose conversion in biorefinery. <i>Science of the Total Environment</i> , 2020, 704, 135414.	3.9	13
69	Increasing resolution of selectivity in alkene hydrogenation via diffusion length in core-shell MFI zeolite. <i>Catalysis Today</i> , 2018, 314, 94-100.	2.2	12
70	CO oxidation and the inhibition effects of carboxyl-modification and copper clusters on multi-walled carbon nanotubes. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118265.	10.8	12
71	Size-activity threshold of titanium dioxide-supported Cu cluster in CO oxidation. <i>Environmental Pollution</i> , 2021, 279, 116899.	3.7	12
72	CO temperature-programmed desorption of a hexameric copper hydride nanocluster catalyst supported on functionalized MWCNTs for active site characterization in a low-temperature water-gas shift reaction. <i>Chemical Engineering Journal</i> , 2019, 377, 120278.	6.6	11

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73	An Extrinsicâ€Poreâ€Containing Molecular Sieve Film: A Robust, Highâ€Throughput Membrane Filter. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1323-1331.	7.2	11
74	A Hybrid Zeolite Membrane-Based Breakthrough for Simultaneous CO <sub>2</sub> Capture and CH <sub>4</sub> Upgrading from Biogas. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 2893-2907.	4.0	11
75	An Heteroâ€Epitaxially Grown Zeolite Membrane. <i>Angewandte Chemie</i> , 2019, 131, 18827-18835.	1.6	10
76	Stacking MFI zeolite structures for improved Sonogashira coupling reactions. <i>Microporous and Mesoporous Materials</i> , 2019, 276, 147-153.	2.2	10
77	Potential of metal monoliths with grown carbon nanomaterials as catalyst support in intensified steam reformer: a perspective. <i>Reviews in Chemical Engineering</i> , 2020, 36, 459-491.	2.3	10
78	Ionic liquid-templated synthesis of 10-MR zeolites and its origin disclosure. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110346.	2.2	10
79	Bio-mimicking TiO <sub>2</sub> architectures for enhanced photocatalytic activity under UV and visible light. <i>RSC Advances</i> , 2017, 7, 39098-39108.	1.7	9
80	Kinetics and constraints of CO oxidation over hexameric copper nanocluster catalyst supported on carboxyl-functionalised MWCNT at high temperatures. <i>Chemical Engineering Journal</i> , 2020, 389, 124399.	6.6	8
81	Morphology control of ionic-liquid-templated ZSM-22 and ZSM-5 zeolites using a two-step process and its effect on toluene methylation. <i>Microporous and Mesoporous Materials</i> , 2021, 328, 111475.	2.2	8
82	Graphitic Carbon Nitride/Copperâ€Iron Oxide Composite for Effective Fenton Degradation of Ciprofloxacin at Nearâ€Neutral pH. <i>ChemistrySelect</i> , 2020, 5, 8198-8206.	0.7	6
83	Ni/Hydrochar Nanostructures Derived from Biomass as Catalysts for H <sub>2</sub> Production through Aqueous-Phase Reforming of Methanol. <i>ACS Applied Nano Materials</i> , 2021, 4, 8958-8971.	2.4	6
84	Effect of the Presence of HCl on Simultaneous CO <sub>2</sub> Capture and Contaminants Removal from Simulated Biomass Gasification Producer Gas by CaO-Fe <sub>2</sub> O <sub>3</sub> Sorbent in Calcium Looping Cycles. <i>Energies</i> , 2021, 14, 8167.	1.6	5
85	An Extrinsicâ€Poreâ€Containing Molecular Sieve Film: A Robust, Highâ€Throughput Membrane Filter. <i>Angewandte Chemie</i> , 2021, 133, 1343-1351.	1.6	4
86	Solution-mediated transformation of natural zeolite to ANA and CAN topological structures with altered active sites for ethanol conversion. <i>Advanced Powder Technology</i> , 2021, 32, 4155-4166.	2.0	4
87	Copper-Promoted Cobalt/Titania Nanorod Catalyst for CO Hydrogenation to Hydrocarbons. <i>Catalysis Letters</i> , 2021, 151, 2492-2501.	1.4	3
88	Unveiling the elusive role of tetraethyl orthosilicate hydrolysis in ionic-liquid-templated zeolite synthesis. <i>Materials Today Chemistry</i> , 2022, 23, 100658.	1.7	2
89	Application of activated carbon derived from bacterial cellulose for mesoporous HZSM-5 catalyst synthesis and performances of catalyst in bioethanol dehydration. <i>Biomass and Bioenergy</i> , 2022, 160, 106440.	2.9	2
90	A nano-sized catalytic architecture composed of SiO <sub>2</sub> /TiO <sub>2</sub> particle and carbon nanofibers. , 2006, , .		1

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91	Comparison of catalytic consequences of ionic liquid-templated ZSM-22 and ZSM-5 zeolites in propene dimerization. <i>Microporous and Mesoporous Materials</i> , 2022, 337, 111941.	2.2	1
92	An anti-humidity palladium-containing MFI composite as a robust ethylene scavenger. <i>Microporous and Mesoporous Materials</i> , 2022, 341, 112090.	2.2	1