

# Yang Sun

## List of Publications by Year in descending order

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57  
papers

2,445  
citations

218677

26  
h-index

206112

48  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2534  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism for the formation of the January 2013 heavy haze pollution episode over central and eastern China. <i>Science China Earth Sciences</i> , 2014, 57, 14-25.	5.2	626
2	Heavy pollution episodes, transport pathways and potential sources of PM <sub>2.5</sub> during the winter of 2013 in Chengdu (China). <i>Science of the Total Environment</i> , 2017, 584-585, 1056-1065.	8.0	165
3	Elastomeric polyethylenes accessible via ethylene homo-polymerization using an unsymmetrical $\lambda^2$ -diimino-nickel catalyst. <i>Polymer Chemistry</i> , 2017, 8, 2785-2795.	3.9	87
4	The carbonaceous aerosol levels still remain a challenge in the Beijing-Tianjin-Hebei region of China: Insights from continuous high temporal resolution measurements in multiple cities. <i>Environment International</i> , 2019, 126, 171-183.	10.0	73
5	Exploring the regional pollution characteristics and meteorological formation mechanism of PM <sub>2.5</sub> in North China during 2013–2017. <i>Environment International</i> , 2020, 134, 105283.	10.0	73
6	Variability and reduction of atmospheric pollutants in Beijing and its surrounding area during the Beijing 2008 Olympic Games. <i>Science Bulletin</i> , 2010, 55, 1937-1944.	1.7	70
7	In situ measurements of SO <sub>2</sub> , NO <sub>x</sub> , NO <sub>y</sub> , and O <sub>3</sub> in Beijing, China during August 2008. <i>Science of the Total Environment</i> , 2011, 409, 933-940.	8.0	65
8	A practical ethylene polymerization for vinyl-polyethylenes: synthesis, characterization and catalytic behavior of $\lambda^2$ -bisimino-2,3:5,6-bis(pentamethylene)pyridyliron chlorides. <i>Polymer Chemistry</i> , 2016, 7, 4188-4197.	3.9	65
9	Preliminary research on Megalake Jilantai-Hetao in the arid areas of China during the Late Quaternary. <i>Science Bulletin</i> , 2008, 53, 1725-1739.	9.0	62
10	Thermally stable and highly active cobalt precatalysts for vinyl-polyethylenes with narrow polydispersities: integrating fused-ring and imino-carbon protection into ligand design. <i>New Journal of Chemistry</i> , 2016, 40, 8012-8023.	2.8	58
11	From polyethylene waxes to HDPE using an $\lambda^2$ -bis(arylimino)-2,3:5,6-bis(pentamethylene)pyridyl-chromium(III) chloride pre-catalyst in ethylene polymerisation. <i>Dalton Transactions</i> , 2017, 46, 6948-6957.	3.3	53
12	Vertical observations and analysis of PM <sub>2.5</sub> , O <sub>3</sub> , and NO <sub>x</sub> at Beijing and Tianjin from towers during summer and Autumn 2006. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 123-136.	4.3	52
13	Raising the N-aryl fluoride content in unsymmetrical diaryliminoacenaphthylenes as a route to highly active nickel(II) catalysts in ethylene polymerization. <i>Dalton Transactions</i> , 2016, 45, 18313-18323.	3.3	51
14	Reductions of PM <sub>2.5</sub> in Beijing-Tianjin-Hebei urban agglomerations during the 2008 Olympic Games. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 1330-1342.	4.3	48
15	Two-year continuous measurements of carbonaceous aerosols in urban Beijing, China: Temporal variations, characteristics and source analyses. <i>Chemosphere</i> , 2018, 200, 191-200.	8.2	48
16	The observation-based relationships between PM <sub>2.5</sub> and AOD over China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,701.	3.3	47
17	Quantification of the impact of aerosol on broadband solar radiation in North China. <i>Scientific Reports</i> , 2017, 7, 44851.	3.3	45
18	In situ measurement of PM <sub>1</sub> organic aerosol in Beijing winter using a high-resolution aerosol mass spectrometer. <i>Science Bulletin</i> , 2012, 57, 819-826.	1.7	36

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19	Revisiting the Concentration Observations and Source Apportionment of Atmospheric Ammonia. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 933-938.	4.3	36
20	Moderately branched ultra-high molecular weight polyethylene by using $\pi$ -nickel catalysts adorned with sterically hindered dibenzocycloheptyl groups. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4749.	3.5	34
21	Plastomeric-like polyethylenes achievable using thermally robust $\pi$ -nickel catalysts appended with electron withdrawing difluorobenzhydryl and nitro groups. <i>Dalton Transactions</i> , 2019, 48, 1878-1891.	3.3	30
22	Highly Linear Polyethylenes Achieved Using Thermo-Stable and Efficient Cobalt Precatalysts Bearing Carbocyclic-Fused NNN-Pincer Ligand. <i>Molecules</i> , 2019, 24, 1176.	3.8	30
23	Characterization of organic aerosols in Beijing using an aerodyne high-resolution aerosol mass spectrometer. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 877-888.	4.3	29
24	Highly linear polyethylenes using the 2-(1-(2,4-dibenzhydrylnaphthylimino)ethyl)-6-(1-(arylimino)ethyl)-pyridylcobalt chlorides: synthesis, characterization and ethylene polymerization. <i>Science China Chemistry</i> , 2016, 59, 1291-1300.	8.2	29
25	Vinyl-Polyethylene Waxes with Narrow Dispersity Obtained by Using a Thermally Robust [Bis(imino)trihydroquinolyl]chromium Catalyst. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4158-4166.	2.0	29
26	Cycloheptyl-fused $\pi$ -chromium catalysts with selectivity for vinyl-terminated polyethylene waxes: thermal optimization and polymer functionalization. <i>Dalton Transactions</i> , 2018, 47, 13487-13497.	3.3	28
27	Access to polyethylene elastomers via ethylene homo-polymerization using $\pi$ -nickel(II) catalysts appended with electron withdrawing difluorobenzhydryl group. <i>European Polymer Journal</i> , 2019, 117, 254-271.	5.4	27
28	Emission characteristics of size distribution, chemical composition and light absorption of particles from field-scale crop residue burning in Northeast China. <i>Science of the Total Environment</i> , 2020, 710, 136304.	8.0	26
29	Organic composition of gasoline and its potential effects on air pollution in North China. <i>Science China Chemistry</i> , 2015, 58, 1416-1425.	8.2	25
30	Process analysis of characteristics of the boundary layer during a heavy haze pollution episode in an inland megacity, China. <i>Journal of Environmental Sciences</i> , 2016, 40, 138-144.	6.1	22
31	Activity and Thermal Stability of Cobalt(II)-Based Olefin Polymerization Catalysts Adorned with Sterically Hindered Dibenzocycloheptyl Groups. <i>Molecules</i> , 2019, 24, 2007.	3.8	22
32	Vinyl/Vinylene functionalized highly branched polyethylene waxes obtained using electronically controlled cyclohexyl-fused pyridinylimine $\pi$ -nickel precatalysts. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1269-1281.	2.3	21
33	PM2.5 Characteristics and Regional Transport Contribution in Five Cities in Southern North China Plain, During 2013-2015. <i>Atmosphere</i> , 2018, 9, 157.	2.3	20
34	Sterically and Electronically Modified Aryliminopyridyl-Nickel Bromide Precatalysts for an Access to Branched Polyethylene with Vinyl/Vinylene End Groups. <i>ACS Omega</i> , 2020, 5, 10610-10625.	3.5	18
35	Air stagnation in China: Spatiotemporal variability and differing impact on PM2.5 and O3 during 2013-2018. <i>Science of the Total Environment</i> , 2022, 819, 152778.	8.0	17
36	Remote dibenzocycloheptyl substitution on a bis(arylimino)pyridyl-iron ethylene polymerization catalyst; enhanced thermal stability and unexpected effects on polymer properties. <i>Polymer Chemistry</i> , 2021, 12, 4214-4225.	3.9	14

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37	Exceptionally high molecular weight linear polyethylene by using N,N-bis(2,6-bis(di(4-fluorophenyl)methyl)nitrophenyl) group. Applied Organometallic Chemistry, 2019, 33, 5 e5157.	3.5	13
38	Multilevel measurements of fluxes and turbulence over an urban landscape in Beijing. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 20421.	1.6	12
39	Nano- and micro-structured random copolymer modified cycloaliphatic epoxy resins for use as light-emitting diode encapsulation. Journal of Macromolecular Science - Pure and Applied Chemistry, 2016, 53, 201-209.	2.2	11
40	2-Acetyloxymethyl-substituted 5,6,7-trihydroquinolinyl-8-ylideneamine-Ni(II) chlorides and their application in ethylene dimerization/trimerization. Applied Organometallic Chemistry, 2020, 34, e5254.	3.5	11
41	Molecular weight control of polyethylene waxes using a constrained imino-cyclopenta[ <i>b</i> ]pyridyl-nickel catalyst. Journal of Polymer Science Part A, 2017, 55, 3494-3505.	2.3	10
42	Light-Driven Crawling of Molecular Crystals by Phase-Dependent Transient Elastic Lattice Deformation. Angewandte Chemie - International Edition, 2020, 59, 10337-10342.	13.8	10
43	CF <sub>3</sub> O-Functionalized Bis(arylimino)pyridine-Cobalt Ethylene Polymerization Catalysts: Harnessing Solvent Effects on Performance and Polymer Properties. Organometallics, 2022, 41, 3237-3248.	2.3	10
44	Quinoly-Amidates Chelating Bimetallic Magnesium and Mononuclear Aluminum Complexes for $\mu$ -Caprolactone Polymerization. ChemistrySelect, 2016, 1, 5660-5665.	1.5	9
45	Exploring the variation of black and brown carbon during COVID-19 lockdown in megacity Wuhan and its surrounding cities, China. Science of the Total Environment, 2021, 791, 148226.	8.0	9
46	Producing highly linear polyethylenes by using <i>t</i> -butyl-functionalized 2,6-bis(imino)pyridylchromium(III) chlorides. Journal of Polymer Science Part A, 2019, 57, 1049-1058.	2.3	8
47	Achievement of strictly linear ultra-high molecular weight polyethylene with narrow dispersity by dint of nitro-enhanced 2,6-bis(imino)pyridylchromium chloride complexes. New Journal of Chemistry, 2019, 43, 11307-11315.	2.8	7
48	Rapid demulsification of pickering emulsions triggered by controllable magnetic field. Scientific Reports, 2020, 10, 16565.	3.3	7
49	Synthesis and characterization of novel acrylic comb-shaped copolymer containing long fluorinated side chains. Journal of Polymer Research, 2015, 22, 1.	2.4	6
50	A novel mono-methacryloyloxy terminated fluorinated macromonomer used for the modification of UV curable acrylic copolymers. Journal of Applied Polymer Science, 2016, 133, .	2.6	6
51	Lithium Quinoly-Amidates Efficiently Promoting Ring-Opening Polymerization of $\mu$ -Caprolactone: Synthesis and <sup>7</sup> Li NMR Spectroscopic Studies. European Journal of Inorganic Chemistry, 2017, 2017, 2653-2660.	2.0	6
52	Vertical evolution of black and brown carbon during pollution events over North China Plain. Science of the Total Environment, 2022, 806, 150950.	8.0	6
53	Using synoptic classification and trajectory analysis to assess air quality during the winter heating period in ÅrÅmqi, China. Advances in Atmospheric Sciences, 2012, 29, 307-319.	4.3	5
54	Oligo-fluoropolymer Modified Cycloaliphatic Epoxy Resins with Excellent Compatibility, Waterproof and Mechanical Properties for LED Encapsulation. Chemical Research in Chinese Universities, 2018, 34, 326-332.	2.6	3

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55	Light-Driven Crawling of Molecular Crystals by Phase-Dependent Transient Elastic Lattice Deformation. <i>Angewandte Chemie</i> , 2020, 132, 10423-10428.	2.0	1
56	A 23.8Tbps Random Number Generator on a Single GPU. , 2020, , .		1
57	Automatic Modulation Classification and SNR Estimation Based on CNN in Physical-layer Network Coding. , 2020, , .		0