

# Xin Yang

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94  
papers

3,626  
citations

32  
h-index

58  
g-index

121  
ext. papers

4,234  
ext. citations

5.5  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
94	Global atmospheric model for mercury including oxidation by bromine atoms. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 12037-12057	6.8	341
93	Tropospheric bromine chemistry and its impacts on ozone: A model study. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		207
92	Tropospheric bromine chemistry: implications for present and pre-industrial ozone and mercury. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 6723-6740	6.8	181
91	Halogen activation via interactions with environmental ice and snow in the polar lower troposphere and other regions. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 6237-6271	6.8	167
90	Sea salt aerosol production and bromine release: Role of snow on sea ice. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	161
89	Global lifetime of elemental mercury against oxidation by atomic bromine in the free troposphere. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	157
88	Global observations of tropospheric BrO columns using GOME-2 satellite data. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 1791-1811	6.8	123
87	Global modeling of biogenic bromocarbons. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		123
86	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 169-199	6.8	120
85	Three-Dimensional Printing of Shape Memory Composites with Epoxy-Acrylate Hybrid Photopolymer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1820-1829	9.5	106
84	Snow-sourced bromine and its implications for polar tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 7763-7773	6.8	104
83	A facile access to stiff epoxy vitrimers with excellent mechanical properties via siloxane equilibration. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 10184-10188	13	86
82	Self-Healing Polyurethane Elastomers Based on a Disulfide Bond by Digital Light Processing 3D Printing. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 1511-1516	6.6	85
81	4D printing of shape memory polyurethane via stereolithography. <i>European Polymer Journal</i> , <b>2018</b> , 101, 120-126	5.2	70
80	Lightning NO <sub>x</sub> , a key chemistry-climate interaction: impacts of future climate change and consequences for tropospheric oxidising capacity. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 9871-9881	6.8	56
79	Emission and transport of bromocarbons: from the West Pacific ocean into the stratosphere. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 10633-10648	6.8	54
78	The West African climate system: a review of the AMMA model inter-comparison initiatives. <i>Atmospheric Science Letters</i> , <b>2011</b> , 12, 116-122	2.4	53

77	Superstretchable and Processable Silicone Elastomers by Digital Light Processing 3D Printing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14391-14398	9.5	52
76	Multi-model study of mercury dispersion in the atmosphere: atmospheric processes and model evaluation. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 5271-5295	6.8	52
75	Retrieval of stratospheric and tropospheric BrO profiles and columns using ground-based zenith-sky DOAS observations at Harestua, 60°N. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 4869-4885	6.8	52
74	Impact of West African Monsoon convective transport and lightning NO <sub>x</sub> production upon the upper tropospheric composition: a multi-model study. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5719-5738	6.8	51
73	Year-round records of sea salt, gaseous, and particulate inorganic bromine in the atmospheric boundary layer at coastal (Dumont d'Urville) and central (Concordia) East Antarctic sites. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 997-1023	4.4	47
72	The influence of snow grain size and impurities on the vertical profiles of actinic flux and associated NO <sub>x</sub> emissions on the Antarctic and Greenland ice sheets. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 3547-3567	6.8	45
71	Chemical cycling and deposition of atmospheric mercury in polar regions: review of recent measurements and comparison with models. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 10735-10763	6.8	42
70	Bromocarbons in the tropical marine boundary layer at the Cape Verde Observatory: measurements and modelling. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 9083-9099	6.8	42
69	Model study of global mercury deposition from biomass burning. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 6712-21	10.3	39
68	Representation of tropical deep convection in atmospheric models [Part 2: Tracer transport]. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 8103-8131	6.8	38
67	Sea salt as an ice core proxy for past sea ice extent: A process-based model study. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5737-5756	4.4	36
66	Four-dimensional printing of shape memory polyurethanes with high strength and recyclability based on Diels-Alder chemistry. <i>Polymer</i> , <b>2020</b> , 200, 122532	3.9	34
65	Modelling future changes to the stratospheric source gas injection of biogenic bromocarbons. <i>Geophysical Research Letters</i> , <b>2012</b> , 39,	4.9	34
64	An atmospheric origin of the multi-decadal bipolar seesaw. <i>Scientific Reports</i> , <b>2015</b> , 5, 8909	4.9	33
63	Synthesis, characterization, and polymerization of a novel benzoxazine based on diethyltoluenediamine. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132,	2.9	32
62	Evaporating brine from frost flowers with electron microscopy and implications for atmospheric chemistry and sea-salt aerosol formation. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 6291-6303	6.8	32
61	First direct observation of sea salt aerosol production from blowing snow above sea ice. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 2549-2578	6.8	29
60	Representation of tropical deep convection in atmospheric models [Part 1: Meteorology and comparison with satellite observations]. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 2765-2786	6.8	29

59	Synthesis, characterization, and properties of silicone-epoxy resins. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 1216-1224	2.9	29
58	Sea ice as a source of sea salt aerosol to Greenland ice cores: a model-based study. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 9417-9433	6.8	28
57	Oceanic bromoform emissions weighted by their ozone depletion potential. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 13647-13663	6.8	28
56	Silicone-epoxy-Based Hybrid Photopolymers for 3D Printing. <i>Macromolecular Chemistry and Physics</i> , <b>2018</b> , 219, 1700530	2.6	27
55	How sensitive is the recovery of stratospheric ozone to changes in concentrations of very short-lived bromocarbons?. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 10431-10438	6.8	27
54	Synthesis and properties of optically clear silicone resin/epoxy resin hybrids. <i>Polymer International</i> , <b>2012</b> , 61, 294-300	3.3	26
53	Circulation anomalies in the Southern Hemisphere and ozone changes. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 10677-10688	6.8	26
52	NO <sub>x</sub> and O <sub>3</sub> above a tropical rainforest: an analysis with a global and box model. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 10607-10620	6.8	26
51	A case study of a transported bromine explosion event in the Canadian high arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 457-477	4.4	26
50	A comparative study on 3D printed silicone-epoxy/acrylate hybrid polymers via pure photopolymerization and dual-curing mechanisms. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 5101-5111	4.3	25
49	Multi-model study of mercury dispersion in the atmosphere: vertical and interhemispheric distribution of mercury species. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 6925-6955	6.8	23
48	Evaluation of cloud convection and tracer transport in a three-dimensional chemical transport model. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 5783-5803	6.8	23
47	Highly crosslinked and uniform thermoset epoxy microspheres: Preparation and toughening study. <i>Polymer</i> , <b>2018</b> , 143, 145-154	3.9	22
46	A one-compartment model to study soil carbon decomposition rate at equilibrium situation. <i>Ecological Modelling</i> , <b>2002</b> , 151, 63-73	3	22
45	Modeled methanesulfonic acid (MSA) deposition in Antarctica and its relationship to sea ice. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		21
44	Morphology and properties of TGDDM/DDS epoxy systems toughened by amino-bearing phenyl silicone resins. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 4415-4427	4.3	20
43	A new shape memory epoxy resin with excellent comprehensive properties. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 3231-3240	4.3	19
42	Epoxy toughening using low viscosity liquid diglycidyl ether of ethoxylated bisphenol-A. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 1913-1921	2.9	19

41	Global Chemistry Simulations in the AMMA Multimodel Intercomparison Project. <i>Bulletin of the American Meteorological Society</i> , <b>2010</b> , 91, 611-624	6.1	19
40	Climate/chemistry feedbacks and biogenic emissions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2007</b> , 365, 1727-40	3	19
39	Monsoon ecosystems control on atmospheric CO2 interannual variability: Inferred from a significant positive correlation between year-to-year changes in land precipitation and atmospheric CO2 growth rate. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 1671-1674	4.9	18
38	Cage-ladder-structure, phosphorus-containing polyhedral oligomeric silsesquioxanes as promising reactive-type flame retardants for epoxy resin. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47607	2.9	16
37	How different would tropospheric oxidation be over an ice-free Arctic?. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	15
36	European and Mediterranean mercury modelling: Local and long-range contributions to the deposition flux. <i>Atmospheric Environment</i> , <b>2015</b> , 117, 162-168	5.3	14
35	Sea salt aerosol production via sublimating wind-blown saline snow particles over sea ice: parameterizations and relevant microphysical mechanisms. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 8407-8424	6.8	14
34	Digital Light Processing 4D Printing of Transparent, Strong, Highly Conductive Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 36286-36294	9.5	13
33	Sea Ice Versus Storms: What Controls Sea Salt in Arctic Ice Cores?. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5572-5580	4.9	12
32	Sensitivity model study of regional mercury dispersion in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 627-643	6.8	11
31	An m-phenylenediamine-based benzoxazine with favorable processability and its high-performance thermoset. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	10
30	Synthesis and Properties of Silphenylene-containing Epoxy Resins with High UV-stability. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2011</b> , 48, 692-700	2.2	9
29	Improvements to stratospheric chemistry scheme in the UM-UKCA (v10.7) model: solar cycle and heterogeneous reactions. <i>Geoscientific Model Development</i> , <b>2019</b> , 12, 1227-1239	6.3	7
28	Synthesis, characterization, and properties of low viscosity tetra-functional epoxy resin N,N,N',N'-tetraglycidyl-3,3'-diethyl-4,4'-diaminodiphenylmethane. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	7
27	Cyclone-induced surface ozone and HDO depletion in the Arctic. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 14955-14974	6.8	7
26	Pan-Arctic surface ozone: modelling vs. measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 15937-15967	6.8	7
25	Kinetics and properties of diethyltoluenediamine type benzoxazine-cured diglycidyl ether of bisphenol-A. <i>Thermochimica Acta</i> , <b>2015</b> , 616, 33-41	2.9	6
24	Stratospheric Ozone Changes From Explosive Tropical Volcanoes: Modeling and Ice Core Constraints. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD032290	4.4	6

23	Deposition, recycling, and archival of nitrate stable isotopes between the air/snow interface: comparison between Dronning Maud Land and Dome C, Antarctica. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 5861-5885	6.8	6
22	Synthesis and properties of novel trifunctional epoxy triglycidyl of 4-(4-aminophenoxy)phenol with high toughness. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	6
21	Epoxy resin containing trifluoromethyl and pendant polyfluorinated phenyl groups: Synthesis and properties. <i>High Performance Polymers</i> , <b>2012</b> , 24, 683-691	1.6	6
20	Numerical study of surface ozone in China during summer time. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 30341-30349		6
19	Corrigendum to "Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools"; published in <i>Atmos. Chem. Phys.</i> , 10, 1691-1699, 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 563-563	6.8	5
18	A facile approach to prepare cage-ladder-structure phosphorus-containing amino-functionalized POSS for enhancing flame retardancy of epoxy resins. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49870	7.0	5
17	First direct observation of sea salt aerosol production from blowing snow above sea ice <b>2019</b> ,		4
16	Removal of Ni(II) from strongly acidic wastewater by chelating precipitation and recovery of NiO from the precipitates. <i>Journal of Environmental Sciences</i> , <b>2021</b> , 104, 365-375	6.4	4
15	Toughening Rigid Epoxy Using Novel Potassium Silanolate Ionic Interactions. <i>Macromolecular Materials and Engineering</i> , <b>2020</b> , 305, 1900535	3.9	3
14	A High Strength but Fast Fracture-Self-Healing Thermoplastic Elastomer. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2100135	4.8	3
13	Synthesis and characterization of thianthrene-based epoxy with high refractive index over 1.7. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>2018</b> , 193, 33-40	1	2
12	Pan-Arctic surface ozone: modelling vs measurements		2
11	Sea ice as a source of sea salt aerosol to Greenland ice cores: a model-based study		2
10	Lightning NO <sub>x</sub> ; a key chemistry/climate interaction: impacts of future climate change and consequences for tropospheric oxidising capacity		2
9	How sensitive is the recovery of stratospheric ozone to changes in concentrations of very short lived bromocarbons?		2
8	Multi-model study of mercury dispersion in the atmosphere: Vertical distribution of mercury species <b>2016</b> ,		2
7	Multi-model study of mercury dispersion in the atmosphere: Atmospheric processes and model evaluation <b>2016</b> ,		2
6	Sensitivity model study of regional mercury dispersion in the atmosphere <b>2016</b> ,		2

- 5 Evaporating brine from frost flowers with electron microscopy, and implications for atmospheric chemistry and sea-salt aerosol formation **2017**, 1
- 4 Temperature and Concentration Affect Particle Size upon Sublimation of Saline Ice: Implications for Sea Salt Aerosol Production in Polar Regions. *Geophysical Research Letters*, 4.9 0
- 3 Achieving T-type photochromism through generating copper(I) metallacyclopentadiene biradical. *CCS Chemistry*,1-24 7.2
- 2 Achieving T-Type Photochromism through Generating Copper(I) Metallacyclopentadiene Biradical. *CCS Chemistry*,1-10 7.2
- 1 Study of an Arctic blowing snow-induced bromine explosion event in Ny-Ålesund, Svalbard. *Science of the Total Environment*, **2022**, 839, 156335 10.2