Xin Yang

List of Publications by Year in Descending Order

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	Study of an Arctic blowing snow-induced bromine explosion event in Ny-Ålesund, Svalbard. *Science of the Total Environment*, **2022**, 839, 156335	10.2	
93	A High Strength but Fast Fracture-Self-Healing Thermoplastic Elastomer. *Macromolecular Rapid Communications*, **2021**, 42, e2100135	4.8	3
92	Removal of Ni(II) from strongly acidic wastewater by chelating precipitation and recovery of NiO from the precipitates. *Journal of Environmental Sciences*, **2021**, 104, 365-375	6.4	4
91	Digital Light Processing 4D Printing of Transparent, Strong, Highly Conductive Hydrogels. *ACS Applied Materials & Interfaces*, **2021**, 13, 36286-36294	9.5	13
90	A facile approach to prepare cage-ladder-structure phosphorus-containing amino-functionalized POSS for enhancing flame retardancy of epoxy resins. *Journal of Applied Polymer Science*, **2021**, 138, 49870	2.9	5
89	Four-dimensional printing of shape memory polyurethanes with high strength and recyclability based on Diels-Alder chemistry. *Polymer*, **2020**, 200, 122532	3.9	34
88	Stratospheric Ozone Changes From Explosive Tropical Volcanoes: Modeling and Ice Core Constraints. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD032290	4.4	6
87	Deposition, recycling, and archival of nitrate stable isotopes between the air–snow interface: comparison between Dronning Maud Land and Dome C, Antarctica. *Atmospheric Chemistry and Physics*, **2020**, 20, 5861-5885	6.8	6
86	First direct observation of sea salt aerosol production from blowing snow above sea ice. *Atmospheric Chemistry and Physics*, **2020**, 20, 2549-2578	6.8	29
85	Pan-Arctic surface ozone: modelling vs. measurements. *Atmospheric Chemistry and Physics*, **2020**, 20, 15937-15967	6.8	7
84	Toughening Rigid Epoxy Using Novel Potassium Silanolate Ionic Interactions. *Macromolecular Materials and Engineering*, **2020**, 305, 1900535	3.9	3
83	Superstretchable and Processable Silicone Elastomers by Digital Light Processing 3D Printing. *ACS Applied Materials & Interfaces*, **2019**, 11, 14391-14398	9.5	52
82	First direct observation of sea salt aerosol production from blowing snow above sea ice **2019**,		4
81	Improvements to stratospheric chemistry scheme in the UM-UKCA (v10.7) model: solar cycle and heterogeneous reactions. *Geoscientific Model Development*, **2019**, 12, 1227-1239	6.3	7
80	Sea salt aerosol production via sublimating wind-blown saline snow particles over sea ice: parameterizations and relevant microphysical mechanisms. *Atmospheric Chemistry and Physics*, **2019**, 19, 8407-8424	6.8	14
79	Self-Healing Polyurethane Elastomers Based on a Disulfide Bond by Digital Light Processing 3D Printing. *ACS Macro Letters*, **2019**, 8, 1511-1516	6.6	85
78	Cage-ladder-structure, phosphorus-containing polyhedral oligomeric silsesquinoxanes as promising reactive-type flame retardants for epoxy resin. *Journal of Applied Polymer Science*, **2019**, 136, 47607	2.9	16

77	A comparative study on 3D printed silicone-epoxy/acrylate hybrid polymers via pure photopolymerization and dual-curing mechanisms. *Journal of Materials Science*, **2019**, 54, 5101-5111	4.3	25
76	Highly crosslinked and uniform thermoset epoxy microspheres: Preparation and toughening study. *Polymer*, **2018**, 143, 145-154	3.9	22
75	4D printing of shape memory polyurethane via stereolithography. *European Polymer Journal*, **2018**, 101, 120-126	5.2	70
74	SiliconeEpoxy-Based Hybrid Photopolymers for 3D Printing. *Macromolecular Chemistry and Physics*, **2018**, 219, 1700530	2.6	27
73	Synthesis and characterization of thianthrene-based epoxy with high refractive index over 1.7. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2018**, 193, 33-40	1	2
72	Sea Ice Versus Storms: What Controls Sea Salt in Arctic Ice Cores?. *Geophysical Research Letters*, **2018**, 45, 5572-5580	4.9	12
71	A facile access to stiff epoxy vitrimers with excellent mechanical properties via siloxane equilibration. *Journal of Materials Chemistry A*, **2018**, 6, 10184-10188	13	86
70	Three-Dimensional Printing of Shape Memory Composites with Epoxy-Acrylate Hybrid Photopolymer. *ACS Applied Materials & Interfaces*, **2017**, 9, 1820-1829	9.5	106
69	Evaporating brine from frost flowers with electron microscopy, and implications for atmospheric chemistry and sea-salt aerosol formation **2017**,		1
68	Cyclone-induced surface ozone and HDO depletion in the Arctic. *Atmospheric Chemistry and Physics*, **2017**, 17, 14955-14974	6.8	7
67	Multi-model study of mercury dispersion in the atmosphere: atmospheric processes and model evaluation. *Atmospheric Chemistry and Physics*, **2017**, 17, 5271-5295	6.8	52
66	Sensitivity model study of regional mercury dispersion in the atmosphere. *Atmospheric Chemistry and Physics*, **2017**, 17, 627-643	6.8	11
65	Evaporating brine from frost flowers with electron microscopy and implications for atmospheric chemistry and sea-salt aerosol formation. *Atmospheric Chemistry and Physics*, **2017**, 17, 6291-6303	6.8	32
64	Multi-model study of mercury dispersion in the atmosphere: vertical and interhemispheric distribution of mercury species. *Atmospheric Chemistry and Physics*, **2017**, 17, 6925-6955	6.8	23
63	Sea ice as a source of sea salt aerosol to Greenland ice cores: a model-based study. *Atmospheric Chemistry and Physics*, **2017**, 17, 9417-9433	6.8	28
62	Chemical cycling and deposition of atmospheric mercury in polar regions: review of recent measurements and comparison with models. *Atmospheric Chemistry and Physics*, **2016**, 16, 10735-10763	6.8	42
61	An m-phenylenediamine-based benzoxazine with favorable processability and its high-performance thermoset. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	10
60	A new shape memory epoxy resin with excellent comprehensive properties. *Journal of Materials Science*, **2016**, 51, 3231-3240	4.3	19

59	Multi-model study of mercury dispersion in the atmosphere: Vertical distribution of mercury species **2016**,		2
58	Multi-model study of mercury dispersion in the atmosphere: Atmospheric processes and model evaluation **2016**,		2
57	Sensitivity model study of regional mercury dispersion in the atmosphere **2016**,		2
56	Year-round records of sea salt, gaseous, and particulate inorganic bromine in the atmospheric boundary layer at coastal (Dumont dRUrville) and central (Concordia) East Antarctic sites. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 997-1023	4.4	47
55	A case study of a transported bromine explosion event in the Canadian high arctic. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 457-477	4.4	26
54	Synthesis, characterization, and polymerization of a novel benzoxazine based on diethyltoluenediamine. *Journal of Applied Polymer Science*, **2015**, 132,	2.9	32
53	European and Mediterranean mercury modelling: Local and long-range contributions to the deposition flux. *Atmospheric Environment*, **2015**, 117, 162-168	5.3	14
52	Model study of global mercury deposition from biomass burning. *Environmental Science & Technology*, **2015**, 49, 6712-21	10.3	39
51	Kinetics and properties of diethyltoluenediamine type benzoxazine-cured diglycidyl ether of bisphenol-A. *Thermochimica Acta*, **2015**, 616, 33-41	2.9	6
50	Oceanic bromoform emissions weighted by their ozone depletion potential. *Atmospheric Chemistry and Physics*, **2015**, 15, 13647-13663	6.8	28
49	An atmospheric origin of the multi-decadal bipolar seesaw. *Scientific Reports*, **2015**, 5, 8909	4.9	33
48	Synthesis and properties of novel trifunctional epoxy triglycidyl of 4-(4-aminophenoxy)phenol with high toughness. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	6
47	Synthesis, characterization, and properties of low viscosity tetra-functional epoxy resin N,N,N?,N?-tetraglycidyl-3,3?-diethyl-4,4?-diaminodiphenylmethane. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	7
46	Lightning NO_x, a key chemistryclimate interaction: impacts of future climate change and consequences for tropospheric oxidising capacity. *Atmospheric Chemistry and Physics*, **2014**, 14, 9871-9881	6.8	56
45	How sensitive is the recovery of stratospheric ozone to changes in concentrations of very short-lived bromocarbons?. *Atmospheric Chemistry and Physics*, **2014**, 14, 10431-10438	6.8	27
44	Sea salt as an ice core proxy for past sea ice extent: A process-based model study. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 5737-5756	4.4	36
43	The influence of snow grain size and impurities on the vertical profiles of actinic flux and associated NO_x emissions on the Antarctic and Greenland ice sheets. *Atmospheric Chemistry and Physics*, **2013**, 13, 3547-3567	6.8	45
42	Circulation anomalies in the Southern Hemisphere and ozone changes. *Atmospheric Chemistry and Physics*, **2013**, 13, 10677-10688	6.8	26

41	Epoxy toughening using low viscosity liquid diglycidyl ether of ethoxylated bisphenol-A. *Journal of Applied Polymer Science*, **2012**, 123, 1913-1921	2.9	19
40	Morphology and properties of TGDDM/DDS epoxy systems toughened by amino-bearing phenyl silicone resins. *Journal of Materials Science*, **2012**, 47, 4415-4427	4.3	20
39	Modelling future changes to the stratospheric source gas injection of biogenic bromocarbons. *Geophysical Research Letters*, **2012**, 39,	4.9	34
38	Synthesis and properties of optically clear silicone resin/epoxy resin hybrids. *Polymer International*, **2012**, 61, 294-300	3.3	26
37	Epoxy resin containing trifluoromethyl and pendant polyfluorinated phenyl groups: Synthesis and properties. *High Performance Polymers*, **2012**, 24, 683-691	1.6	6
36	Emission and transport of bromocarbons: from the West Pacific ocean into the stratosphere. *Atmospheric Chemistry and Physics*, **2012**, 12, 10633-10648	6.8	54
35	Halogen activation via interactions with environmental ice and snow in the polar lower troposphere and other regions. *Atmospheric Chemistry and Physics*, **2012**, 12, 6237-6271	6.8	167
34	Tropospheric bromine chemistry: implications for present and pre-industrial ozone and mercury. *Atmospheric Chemistry and Physics*, **2012**, 12, 6723-6740	6.8	181
33	Representation of tropical deep convection in atmospheric models Part 1: Meteorology and comparison with satellite observations. *Atmospheric Chemistry and Physics*, **2011**, 11, 2765-2786	6.8	29
32	Evaluation of cloud convection and tracer transport in a three-dimensional chemical transport model. *Atmospheric Chemistry and Physics*, **2011**, 11, 5783-5803	6.8	23
31	Global observations of tropospheric BrO columns using GOME-2 satellite data. *Atmospheric Chemistry and Physics*, **2011**, 11, 1791-1811	6.8	123
30	Representation of tropical deep convection in atmospheric models Part 2: Tracer transport. *Atmospheric Chemistry and Physics*, **2011**, 11, 8103-8131	6.8	38
29	Modeled methanesulfonic acid (MSA) deposition in Antarctica and its relationship to sea ice. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		21
28	Synthesis, characterization, and properties of siliconeepoxy resins. *Journal of Applied Polymer Science*, **2011**, 120, 1216-1224	2.9	29
27	The West African climate system: a review of the AMMA model inter-comparison initiatives. *Atmospheric Science Letters*, **2011**, 12, 116-122	2.4	53
26	Synthesis and Properties of Silphenylene-containing Epoxy Resins with High UV-stability. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2011**, 48, 692-700	2.2	9
25	Global Chemistry Simulations in the AMMA Multimodel Intercomparison Project. *Bulletin of the American Meteorological Society*, **2010**, 91, 611-624	6.1	19
24	Global atmospheric model for mercury including oxidation by bromine atoms. *Atmospheric Chemistry and Physics*, **2010**, 10, 12037-12057	6.8	341

23	Snow-sourced bromine and its implications for polar tropospheric ozone. *Atmospheric Chemistry and Physics*, **2010**, 10, 7763-7773	6.8	104
22	NO_x and O₃ above a tropical rainforest: an analysis with a global and box model. *Atmospheric Chemistry and Physics*, **2010**, 10, 10607-10620	6.8	26
21	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. *Atmospheric Chemistry and Physics*, **2010**, 10, 169-199	6.8	120
20	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 Atmos. Chem. Phys., 10, 169199, 2010. *Atmospheric Chemistry and Physics* 2010, 10, 563-563	6.8	5
19	Impact of West African Monsoon convective transport and lightning NO_x production upon the upper tropospheric composition: a multi-model study. *Atmospheric Chemistry and Physics*, **2010**, 10, 5719-5738	6.8	51
18	How different would tropospheric oxidation be over an ice-free Arctic?. *Geophysical Research Letters*, **2009**, 36,	4.9	15
17	Bromocarbons in the tropical marine boundary layer at the Cape Verde Observatory measurements and modelling. *Atmospheric Chemistry and Physics*, **2009**, 9, 9083-9099	6.8	42
16	Sea salt aerosol production and bromine release: Role of snow on sea ice. *Geophysical Research Letters*, **2008**, 35,	4.9	161
15	Climate/chemistry feedbacks and biogenic emissions. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2007**, 365, 1727-40	3	19
14	Retrieval of stratospheric and tropospheric BrO profiles and columns using ground-based zenith-sky DOAS observations at Harestua, 60N. *Atmospheric Chemistry and Physics*, **2007**, 7, 4869-4885	6.8	52
13	Global lifetime of elemental mercury against oxidation by atomic bromine in the free troposphere. *Geophysical Research Letters*, **2006**, 33,	4.9	157
12	Global modeling of biogenic bromocarbons. *Journal of Geophysical Research*, **2006**, 111,		123
11	Tropospheric bromine chemistry and its impacts on ozone: A model study. *Journal of Geophysical Research*, **2005**, 110,		207
10	A one-compartment model to study soil carbon decomposition rate at equilibrium situation. *Ecological Modelling*, **2002**, 151, 63-73	3	22
9	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. *Geophysical Research Letters*, **2000**, 27, 1671-1674	4.9	18
8	Numerical study of surface ozone in China during summer time. *Journal of Geophysical Research*, **1999**, 104, 30341-30349		6
7	Achieving T-type photochromism through generating copper(I) metallacyclopentadiene biradical. *CCS Chemistry*,1-24	7.2	
6	Pan-Arctic surface ozone: modelling vs measurements		2

5	Sea ice as a source of sea salt aerosol to Greenland ice cores: a model-based study		2
4	Lightning NO_x, a key chemistry–climate interaction: impacts of future climate change and consequences for tropospheric oxidising capacity		2
3	How sensitive is the recovery of stratospheric ozone to changes in concentrations of very short lived bromocarbons?		2
2	Achieving T-Type Photochromism through Generating Copper(I) Metallacyclopentadiene Biradical. *CCS Chemistry*,1-10	7.2	
1	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