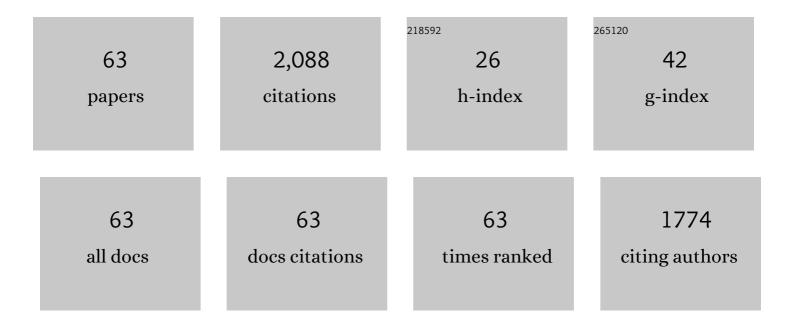
## Hong-Bin Xie

List of Publications by Year in descending order

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HONG-RIN XIE

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Atmospheric Autoxidation of Organophosphate Esters. Environmental Science & Technology, 2022, 56, 6944-6955.  | 4.6 | 18        |
| 2  | Potential Application of Machine-Learning-Based Quantum Chemical Methods in Environmental Chemistry. Environmental Science & amp; Technology, 2022, 56, 2115-2123.  | 4.6 | 22        |
| 3  | Mechanistic Understanding of Superoxide Radical-Mediated Degradation of Perfluorocarboxylic Acids. Environmental Science & amp; Technology, 2022, 56, 624-633.  | 4.6 | 45        |
| 4  | The role of organic acids in new particle formation from methanesulfonic acid and methylamine.<br>Atmospheric Chemistry and Physics, 2022, 22, 2639-2650.   | 1.9 | 20        |
| 5  | Response to Comment on "Mechanistic Understanding of Superoxide Radical-Mediated Degradation of<br>Perfluorocarboxylic Acids― Environmental Science & Technology, 2022, 56, 5289-5291.                              | 4.6 | 2         |
| 6  | Amine-Enhanced Methanesulfonic Acid-Driven Nucleation: Predictive Model and Cluster Formation Mechanism. Environmental Science & amp; Technology, 2022, 56, 7751-7760.  | 4.6 | 13        |
| 7  | Effective degradation of aqueous carbamazepine on a novel blue-colored TiO2 nanotube arrays<br>membrane filter anode. Journal of Hazardous Materials, 2021, 402, 123530.  | 6.5 | 54        |
| 8  | Autoxidation mechanism for atmospheric oxidation of tertiary amines: Implications for secondary organic aerosol formation. Chemosphere, 2021, 273, 129207.  | 4.2 | 16        |
| 9  | Prediction Models on p <i>K</i> <sub>a</sub> and Base-Catalyzed Hydrolysis Kinetics of Parabens:<br>Experimental and Quantum Chemical Studies. Environmental Science & Technology, 2021, 55,<br>6022-6031.          | 4.6 | 31        |
| 10 | Highly-Dispersed Zinc Species on Zeolites for the Continuous and Selective Dehydrogenation of Ethane with CO <sub>2</sub> as a Soft Oxidant. ACS Catalysis, 2021, 11, 2819-2830.                                    | 5.5 | 53        |
| 11 | Atmospheric Chemistry of Allylic Radicals from Isoprene: A Successive Cyclization-Driven<br>Autoxidation Mechanism. Environmental Science & Technology, 2021, 55, 4399-4409.  | 4.6 | 20        |
| 12 | Heterogeneous Formation of HONO Catalyzed by CO <sub>2</sub> . Environmental Science &<br>Technology, 2021, 55, 12215-12222.  | 4.6 | 16        |
| 13 | Acid–Base Clusters during Atmospheric New Particle Formation in Urban Beijing. Environmental<br>Science & Technology, 2021, 55, 10994-11005.  | 4.6 | 34        |
| 14 | Tri-Base Synergy in Sulfuric Acid-Base Clusters. Atmosphere, 2021, 12, 1260.  | 1.0 | 12        |
| 15 | Organic acid-ammonia ion-induced nucleation pathways unveiled by quantum chemical calculation<br>and kinetics modeling: A case study of 3-methyl-1,2,3-butanetricarboxylic acid. Chemosphere, 2021, 284,<br>131354. | 4.2 | 4         |
| 16 | Atmospheric oxidation mechanism and kinetics of isoprene initiated by chlorine radicals: A computational study. Science of the Total Environment, 2020, 712, 136330.  | 3.9 | 24        |
| 17 | Theoretical study of the hydration effects on alkylamine and alkanolamine clusters and the atmospheric implication. Chemosphere, 2020, 243, 125323.   | 4.2 | 15        |
| 18 | Structural Effects of Amines in Enhancing Methanesulfonic Acid-Driven New Particle Formation.<br>Environmental Science & Technology, 2020, 54, 13498-13508.   | 4.6 | 36        |

HONG-BIN XIE

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|----|--|-----|-----------|
| 19 | Formation of Low-Volatile Products and Unexpected High Formaldehyde Yield from the Atmospheric<br>Oxidation of Methylsiloxanes. Environmental Science & Technology, 2020, 54, 7136-7145.   | 4.6 | 27        |
| 20 | The role of carbonate in sulfamethoxazole degradation by peroxymonosulfate without catalyst and the generation of carbonate racial. Journal of Hazardous Materials, 2020, 398, 122827.   | 6.5 | 64        |
| 21 | Formation Mechanisms of Iodine–Ammonia Clusters in Polluted Coastal Areas Unveiled by<br>Thermodynamics and Kinetic Simulations. Environmental Science & Technology, 2020, 54, 9235-9242.  | 4.6 | 18        |
| 22 | Role of hydrogen bond capacity of solvents in reactions of amines with CO2: A computational study.<br>Journal of Environmental Sciences, 2020, 91, 271-278.  | 3.2 | 11        |
| 23 | QSAR modeling for the ozonation of diverse organic compounds in water. Science of the Total Environment, 2020, 715, 136816.  | 3.9 | 33        |
| 24 | Underlying mechanisms of reactive oxygen species and oxidative stress photoinduced by graphene and its surface-functionalized derivatives. Environmental Science: Nano, 2020, 7, 782-792.  | 2.2 | 21        |
| 25 | Mechanism and predictive model development of reaction rate constants for N-center radicals with O2. Chemosphere, 2019, 237, 124411.   | 4.2 | 8         |
| 26 | Piperazine Enhancing Sulfuric Acid-Based New Particle Formation: Implications for the Atmospheric<br>Fate of Piperazine. Environmental Science & Technology, 2019, 53, 8785-8795.  | 4.6 | 41        |
| 27 | Methanesulfonic Acid-driven New Particle Formation Enhanced by Monoethanolamine: A<br>Computational Study. Environmental Science & Technology, 2019, 53, 14387-14397.  | 4.6 | 50        |
| 28 | Grand canonical Monte Carlo simulation on adsorption of aniline on the ice surface. Journal of<br>Molecular Liquids, 2019, 290, 111221.  | 2.3 | 11        |
| 29 | Development of Prediction Models on Base-Catalyzed Hydrolysis Kinetics of Phthalate Esters with<br>Density Functional Theory Calculation. Environmental Science & Technology, 2019, 53, 5828-5837.   | 4.6 | 41        |
| 30 | Kinetics and mechanism of OH-initiated atmospheric oxidation of organophosphorus plasticizers: A computational study on tri-p-cresyl phosphate. Chemosphere, 2018, 201, 557-563.   | 4.2 | 29        |
| 31 | Benchmarking of DFT functionals for the kinetics and mechanisms of atmospheric addition reactions<br>of OH radicals with phenyl and substituted phenylâ€based organic pollutants. International Journal of<br>Quantum Chemistry, 2018, 118, e25533.                  | 1.0 | 14        |
| 32 | Deep learning for predicting toxicity of chemicals: a mini review. Journal of Environmental Science<br>and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews, 2018, 36, 252-271.  | 2.9 | 61        |
| 33 | Quantum chemical simulations revealed the toxicokinetic mechanisms of organic phosphorus flame retardants catalyzed by P450 enzymes. Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews, 2018, 36, 272-291. | 2.9 | 2         |
| 34 | A molecular-scale study on the hydration of sulfuric acid-amide complexes and the atmospheric implication. Chemosphere, 2018, 213, 453-462.  | 4.2 | 18        |
| 35 | The Crucial Role of Skeleton Structure and Carbon Number on Short-Chain Alkane Activation over<br>Zn/HZSM-5 Catalyst: An Experimental and Computational Study. Catalysis Letters, 2018, 148, 2069-2081.  | 1.4 | 17        |
| 36 | Atmospheric Oxidation of Piperazine Initiated by ·Cl: Unexpected High Nitrosamine Yield.<br>Environmental Science & Technology, 2018, 52, 9801-9809.   | 4.6 | 45        |

HONG-BIN XIE

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|----|---|-----|-----------|
| 37 | Molecular understanding of the interaction of amino acids with sulfuric acid in the presence of water and the atmospheric implication. Chemosphere, 2018, 210, 215-223.   | 4.2 | 28        |
| 38 | The degradation mechanism of sulfamethoxazole under ozonation: a DFT study. Environmental Sciences: Processes and Impacts, 2017, 19, 379-387.   | 1.7 | 23        |
| 39 | Atmospheric chemical reaction mechanism and kinetics of 1,2-bis(2,4,6-tribromophenoxy)ethane initiated by OH radical: a computational study. RSC Advances, 2017, 7, 9484-9494.  | 1.7 | 11        |
| 40 | Computational Study of the Reactions of Chlorine Radicals with Atmospheric Organic Compounds<br>Featuring NH <sub><i>x</i></sub> â€ʿĨ€-Bond ( <i>x</i> = 1, 2) Structures. Journal of Physical Chemistry A,<br>2017, 121, 1657-1665.  | 1.1 | 27        |
| 41 | Different binding mechanisms of neutral and anionic poly-/perfluorinated chemicals to human transthyretin revealed by In silico models. Chemosphere, 2017, 182, 574-583.  | 4.2 | 28        |
| 42 | Effects of Atmospheric Water on ·OH-initiated Oxidation of Organophosphate Flame Retardants: A DFT<br>Investigation on TCPP. Environmental Science & Technology, 2017, 51, 5043-5051.   | 4.6 | 78        |
| 43 | Ferrate( <scp>vi</scp> ) initiated oxidative degradation mechanisms clarified by DFT calculations: a case for sulfamethoxazole. Environmental Sciences: Processes and Impacts, 2017, 19, 370-378.   | 1.7 | 16        |
| 44 | Adsorption of Nitrobenzene on the Surface of Ice: A Grand Canonical Monte Carlo Simulation Study.<br>Journal of Physical Chemistry C, 2017, 121, 15746-15755.   | 1.5 | 16        |
| 45 | Computational investigation of the nitrosation mechanism of piperazine in CO2 capture. Chemosphere, 2017, 186, 341-349.   | 4.2 | 10        |
| 46 | Atmospheric Fate of Monoethanolamine: Enhancing New Particle Formation of Sulfuric Acid as an<br>Important Removal Process. Environmental Science & Technology, 2017, 51, 8422-8431.  | 4.6 | 95        |
| 47 | Superior Performance of Fe <sub>1–<i>x</i></sub> W <sub><i>x</i></sub> O <sub>δ</sub> for the<br>Selective Catalytic Reduction of NO <sub><i>x</i></sub> with NH <sub>3</sub> : Interaction between Fe<br>and W. Environmental Science & Technology, 2016, 50, 13511-13519. | 4.6 | 116       |
| 48 | Atmospheric chemical reactions of alternatives of polybrominated diphenyl ethers initiated by OH: A case study on triphenyl phosphate. Science of the Total Environment, 2016, 571, 1105-1114.  | 3.9 | 29        |
| 49 | Prediction of Hydrolysis Pathways and Kinetics for Antibiotics under Environmental pH Conditions: A<br>Quantum Chemical Study on Cephradine. Environmental Science & Technology, 2015, 49, 1552-1558.   | 4.6 | 39        |
| 50 | Photodegradation mechanism of sulfonamides with excited triplet state dissolved organic matter: A case of sulfadiazine with 4-carboxybenzophenone as a proxy. Journal of Hazardous Materials, 2015, 290, 9-15.  | 6.5 | 62        |
| 51 | CO <sub>2</sub> Absorption in an Alcoholic Solution of Heavily Hindered Alkanolamine: Reaction<br>Mechanism of 2-( <i>tert</i> -Butylamino)ethanol with CO <sub>2</sub> Revisited. Journal of Physical<br>Chemistry A, 2015, 119, 6346-6353.                                | 1.1 | 14        |
| 52 | Quantum Chemical Study on ·Cl-Initiated Atmospheric Degradation of Monoethanolamine.<br>Environmental Science & Technology, 2015, 49, 13246-13255.  | 4.6 | 58        |
| 53 | Toward rational design of amines for CO2 capture: Substituent effect on kinetic process for the reaction of monoethanolamine with CO2. Journal of Environmental Sciences, 2015, 37, 75-82.  | 3.2 | 11        |
| 54 | Transformation pathways of MeO-PBDEs catalyzed by active center of P450 enzymes: A DFT investigation employing 6-MeO-BDE-47 as a case. Chemosphere, 2015, 120, 631-636.   | 4.2 | 13        |

HONG-BIN XIE

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|----|--|-----|-----------|
| 55 | Theoretical Investigation on the Different Reaction Mechanisms of Aqueous<br>2-Amino-2-methyl-1-propanol and Monoethanolamine with CO <sub>2</sub> . Industrial &<br>Engineering Chemistry Research, 2014, 53, 3363-3372.          | 1.8 | 39        |
| 56 | Predicting Gaseous Reaction Rates of Short Chain Chlorinated Paraffins with ·OH: Overcoming the<br>Difficulty in Experimental Determination. Environmental Science & Technology, 2014, 48,<br>13808-13816.                         | 4.6 | 67        |
| 57 | Atmospheric Chemical Reactions of Monoethanolamine Initiated by OH Radical: Mechanistic and<br>Kinetic Study. Environmental Science & Technology, 2014, 48, 1700-1706.   | 4.6 | 89        |
| 58 | Anionic Phenolic Compounds Bind Stronger with Transthyretin than Their Neutral Forms:<br>Nonnegligible Mechanisms in Virtual Screening of Endocrine Disrupting Chemicals. Chemical Research<br>in Toxicology, 2013, 26, 1340-1347. | 1.7 | 33        |
| 59 | Protonated sugars: vibrational spectroscopy and conformational structure of protonatedO-methyl<br>α-D-galactopyranoside. Molecular Physics, 2012, 110, 1609-1615.  | 0.8 | 17        |
| 60 | Interaction and reaction of the hydroxyl ion with β-d-galactose and its hydrated complex: an ab initio molecular dynamics study. Physical Chemistry Chemical Physics, 2012, 14, 12086.   | 1.3 | 5         |
| 61 | Computational Studies of Protonated β-d-Galactose and Its Hydrated Complex: Structures,<br>Interactions, Proton Transfer Dynamics, and Spectroscopy. Journal of Physical Chemistry B, 2012, 116,<br>4851-4859.                     | 1.2 | 17        |
| 62 | A Computational Study of the Heats of Reaction of Substituted Monoethanolamine with CO <sub>2</sub> . Journal of Physical Chemistry A, 2011, 115, 342-350.   | 1.1 | 40        |
| 63 | Reaction Mechanism of Monoethanolamine with CO <sub>2</sub> in Aqueous Solution from Molecular Modeling. Journal of Physical Chemistry A, 2010, 114, 11844-11852.  | 1.1 | 161       |