

# Tara F Kahan

## List of Publications by Year in descending order

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49  
papers

1,798  
citations

304743

22  
h-index

276875

41  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1601  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporal characterization of irradiance and photolysis rate constants of indoor gas-phase species in the UTest house during HOMEChem. <i>Indoor Air</i> , 2022, 32, .	4.3	11
2	Direct Observation of Anthracene Clusters at Ice Surfaces. <i>Journal of the American Chemical Society</i> , 2022, 144, 751-756.	13.7	7
3	A modeling study of the impact of photolysis on indoor air quality. <i>Indoor Air</i> , 2022, 32, .	4.3	7
4	Spatial and temporal scales of variability for indoor air constituents. <i>Communications Chemistry</i> , 2021, 4, .	4.5	26
5	Chemical Morphology Controls Reactivity of OH Radicals at the Air-Ice Interface. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8925-8932.	2.5	2
6	It's Different at the Top: Air-Ice Interface Chemistry in the Cryosphere. , 2021, , 259-290.		0
7	Factors affecting wavelength-resolved ultraviolet irradiance indoors and their impacts on indoor photochemistry. <i>Indoor Air</i> , 2021, 31, 1187-1198.	4.3	10
8	Hydrogen Peroxide Emission and Fate Indoors during Non-bleach Cleaning: A Chamber and Modeling Study. <i>Environmental Science &amp; Technology</i> , 2020, 54, 15643-15651.	10.0	19
9	Physical and Chemical Characterization of Urban Grime Sampled from Two Cities. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1813-1822.	2.7	14
10	Photolysis-driven indoor air chemistry following cleaning of hospital wards. <i>Indoor Air</i> , 2020, 30, 1241-1255.	4.3	17
11	Multiphase Chemistry Controls Inorganic Chlorinated and Nitrogenated Compounds in Indoor Air during Bleach Cleaning. <i>Environmental Science &amp; Technology</i> , 2020, 54, 1730-1739.	10.0	87
12	Physical Characterization of Frozen Aqueous Solutions Containing Sodium Chloride and Humic Acid at Environmentally Relevant Temperatures. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 305-310.	2.7	4
13	Role of location, season, occupant activity, and chemistry in indoor ozone and nitrogen oxide mixing ratios. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1374-1383.	3.5	21
14	Overview of HOMEChem: House Observations of Microbial and Environmental Chemistry. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1280-1300.	3.5	140
15	A model for interpreting depth profiles of confocal Raman measurements in reflective and transmitting materials. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1763-1776.	2.5	3
16	Anthracene and Pyrene Photooxidation Kinetics in Saltwater Environments. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2695-2703.	2.7	11
17	Emerging investigator series: spatial distribution of dissolved organic matter in ice and at air-ice interfaces. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1076-1084.	3.5	6
18	Illuminating the dark side of indoor oxidants. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1229-1239.	3.5	47

#	ARTICLE	IF	CITATIONS
19	Formation and emission of hydrogen chloride in indoor air. <i>Indoor Air</i> , 2019, 29, 70-78.	4.3	30
20	Photochemistry in Model Aqueous-Organic Atmospheric Condensed Phases. <i>ACS Symposium Series</i> , 2018, , 87-103.	0.5	3
21	Time-Resolved Measurements of Nitric Oxide, Nitrogen Dioxide, and Nitrous Acid in an Occupied New York Home. <i>Environmental Science &amp; Technology</i> , 2018, 52, 8355-8364.	10.0	72
22	Physical Characterization of Frozen Saltwater Solutions Using Raman Microscopy. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 702-710.	2.7	17
23	Effects of Chromophoric Dissolved Organic Matter on Anthracene Photolysis Kinetics in Aqueous Solution and Ice. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7619-7626.	2.5	22
24	Wavelength-Resolved Photon Fluxes of Indoor Light Sources: Implications for HO <sub>2</sub> Production. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10423-10430.	10.0	71
25	Hydroxyl radical formation from bacteria-assisted Fenton chemistry at neutral pH under environmentally relevant conditions. <i>Environmental Chemistry</i> , 2016, 13, 757.	1.5	10
26	Photolysis Kinetics of Toluene, Ethylbenzene, and Xylenes at Ice Surfaces. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6693-6697.	2.5	13
27	Optical Autocatalysis Establishes Novel Spatial Dynamics in Phase Separation of Polymer Blends during Photocuring. <i>ACS Macro Letters</i> , 2016, 5, 1237-1241.	4.8	17
28	Tunable Nonlinear Optical Pattern Formation and Microstructure in Cross-Linking Acrylate Systems during Free-Radical Polymerization. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4517-4528.	3.1	24
29	Anthracene and pyrene photolysis kinetics in aqueous, organic, and mixed aqueous-organic phases. <i>Atmospheric Environment</i> , 2016, 128, 158-164.	4.1	27
30	Reply to "Comment on "Photolysis of Polycyclic Aromatic Hydrocarbons on Water and Ice Surfaces" and on "Nonchromophoric Organic Matter Suppresses Polycyclic Aromatic Hydrocarbon Photolysis in Ice and at Ice Surfaces". <i>Journal of Physical Chemistry A</i> , 2015, 119, 10764-10765.	2.5	1
31	A Pinch of Salt Is All It Takes: Chemistry at the Frozen Water Surface. <i>Accounts of Chemical Research</i> , 2014, 47, 1587-1594.	15.6	38
32	Nonchromophoric Organic Matter Suppresses Polycyclic Aromatic Hydrocarbon Photolysis in Ice and at Ice Surfaces. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1638-1643.	2.5	23
33	A review of air-ice chemical and physical interactions (AICI): liquids, quasi-liquids, and solids in snow. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1587-1633.	4.9	235
34	Acetic acid formation via the hydration of gas-phase ketene under ambient conditions. <i>Chemical Physics Letters</i> , 2013, 565, 1-4.	2.6	27
35	Organics in environmental ices: sources, chemistry, and impacts. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9653-9678.	4.9	110
36	Cavity-Enhanced Measurements of Hydrogen Peroxide Absorption Cross Sections from 353 to 410 nm. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5941-5947.	2.5	34

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37	Absolute ozone absorption cross section in the Huggins Chappuis minimum (350–470 nm) at 296 K. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11581-11590.	4.9	38
38	Different photolysis kinetics at the surface of frozen freshwater vs. frozen salt solutions. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10917-10922.	4.9	35
39	Hydroxyl radical reactivity at the air-ice interface. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 843-854.	4.9	45
40	Benzene Photolysis on Ice: Implications for the Fate of Organic Contaminants in the Winter. <i>Environmental Science &amp; Technology</i> , 2010, 44, 3819-3824.	10.0	65
41	Anthracene Photolysis in Aqueous Solution and Ice: Photon Flux Dependence and Comparison of Kinetics in Bulk Ice and at the Air–Ice Interface. <i>Environmental Science &amp; Technology</i> , 2010, 44, 1302-1306.	10.0	52
42	Spectroscopic studies of the heterogeneous reaction between O <sub>3</sub> (g) and halides at the surface of frozen salt solutions. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	29
43	Mechanism of Aqueous-Phase Ozonation of S(IV). <i>Journal of Physical Chemistry A</i> , 2010, 114, 2164-2170.	2.5	6
44	Self-Association of Naphthalene at the Air–Ice Interface. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7353-7359.	2.5	42
45	Atmospheric Chemistry of Urban Surface Films. <i>ACS Symposium Series</i> , 2009, , 79-89.	0.5	13
46	Heterogeneous ozonation kinetics of phenanthrene at the air–ice interface. <i>Environmental Research Letters</i> , 2008, 3, 045006.	5.2	36
47	Spectroscopic Probes of the Quasi-Liquid Layer on Ice. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11006-11012.	2.5	101
48	Photolysis of Polycyclic Aromatic Hydrocarbons on Water and Ice Surfaces. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1277-1285.	2.5	120
49	Photochromism of spirooxazines with elements of lipid complementarity in solution and liposomes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 224-231.	3.9	9