Tara F Kahan

List of Publications by Year
in descending order

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	A review of airâ€“ice chemical and physical interactions (AICI): liquids, quasi-liquids, and solids in snow. Atmospheric Chemistry and Physics, 2014, 14, 1587-1633.	4.9	235
2	Overview of HOMEChem: House Observations of Microbial and Environmental Chemistry. Environmental Sciences: Processes and Impacts, 2019, 21, 1280-1300.	3.5	140
3	Photolysis of Polycyclic Aromatic Hydrocarbons on Water and Ice Surfaces. Journal of Physical Chemistry A, 2007, 111, 1277-1285.	2.5	120
4	Organics in environmental ices: sources, chemistry, and impacts. Atmospheric Chemistry and Physics, 2012, 12, 9653-9678.	4.9	110
5	Spectroscopic Probes of the Quasi-Liquid Layer on Ice. Journal of Physical Chemistry A, 2007, 111, 11006-11012.	2.5	101
6	Multiphase Chemistry Controls Inorganic Chlorinated and Nitrogenated Compounds in Indoor Air during Bleach Cleaning. Environmental Science & Technology, 2020, 54, 1730-1739.	10.0	87
7	Time-Resolved Measurements of Nitric Oxide, Nitrogen Dioxide, and Nitrous Acid in an Occupied New York Home. Environmental Science & Technology, 2018, 52, 8355-8364.	10.0	72
8	Wavelength-Resolved Photon Fluxes of Indoor Light Sources: Implications for HO_x Production. Environmental Science & Technology, 2017, 51, 10423-10430.	10.0	71
9	Benzene Photolysis on Ice: Implications for the Fate of Organic Contaminants in the Winter. Environmental Science & Technology, 2010, 44, 3819-3824.	10.0	65
10	Anthracene Photolysis in Aqueous Solution and Ice: Photon Flux Dependence and Comparison of Kinetics in Bulk Ice and at the Airâ^'Ice Interface. Environmental Science & Technology, 2010, 44, 1302-1306.	10.0	52
11	Illuminating the dark side of indoor oxidants. Environmental Sciences: Processes and Impacts, 2019, 21, 1229-1239.	3.5	47
12	Hydroxyl radical reactivity at the air-ice interface. Atmospheric Chemistry and Physics, 2010, 10, 843-854.	4.9	45
13	Self-Association of Naphthalene at the Airâ^'Ice Interface. Journal of Physical Chemistry A, 2009, 113, 7353-7359.	2.5	42
14	Absolute ozone absorption cross section in the Huggins Chappuis minimum (350â€“470 nm) at 296 K. Atmospheric Chemistry and Physics, 2011, 11, 11581-11590.	4.9	38
15	A Pinch of Salt Is All It Takes: Chemistry at the Frozen Water Surface. Accounts of Chemical Research, 2014, 47, 1587-1594.	15.6	38
16	Heterogeneous ozonation kinetics of phenanthrene at the airâ€“ice interface. Environmental Research Letters, 2008, 3, 045006.	5.2	36
17	Different photolysis kinetics at the surface of frozen freshwater vs. frozen salt solutions. Atmospheric Chemistry and Physics, 2010, 10, 10917-10922.	4.9	35
18	Cavity-Enhanced Measurements of Hydrogen Peroxide Absorption Cross Sections from 353 to 410 nm. Journal of Physical Chemistry A, 2012, 116, 5941-5947.	2.5	34

#	Article	IF	Citations
19	Formation and emission of hydrogen chloride in indoor air. Indoor Air, 2019, 29, 70-78.	4.3	30
20	Spectroscopic studies of the heterogeneous reaction between O₃(g) and halides at the surface of frozen salt solutions. Journal of Geophysical Research, 2010, 115, .	3.3	29
21	Acetic acid formation via the hydration of gas-phase ketene under ambient conditions. Chemical Physics Letters, 2013, 565, 1-4.	2.6	27
22	Anthracene and pyrene photolysis kinetics in aqueous, organic, and mixed aqueous-organic phases. Atmospheric Environment, 2016, 128, 158-164.	4.1	27
23	Spatial and temporal scales of variability for indoor air constituents. Communications Chemistry, 2021, 4, .	4.5	26
24	Tunable Nonlinear Optical Pattern Formation and Microstructure in Cross-Linking Acrylate Systems during Free-Radical Polymerization. Journal of Physical Chemistry C, 2016, 120, 4517-4528.	3.1	24
25	Nonchromophoric Organic Matter Suppresses Polycyclic Aromatic Hydrocarbon Photolysis in Ice and at Ice Surfaces. Journal of Physical Chemistry A, 2014, 118, 1638-1643.	2.5	23
26	Effects of Chromophoric Dissolved Organic Matter on Anthracene Photolysis Kinetics in Aqueous Solution and Ice. Journal of Physical Chemistry A, 2017, 121, 7619-7626.	2.5	22
27	Role of location, season, occupant activity, and chemistry in indoor ozone and nitrogen oxide mixing ratios. Environmental Sciences: Processes and Impacts, 2019, 21, 1374-1383.	3.5	21
28	Hydrogen Peroxide Emission and Fate Indoors during Non-bleach Cleaning: A Chamber and Modeling Study. Environmental Science & Technology, 2020, 54, 15643-15651.	10.0	19
29	Optical Autocatalysis Establishes Novel Spatial Dynamics in Phase Separation of Polymer Blends during Photocuring. ACS Macro Letters, 2016, 5, 1237-1241.	4.8	17
30	Physical Characterization of Frozen Saltwater Solutions Using Raman Microscopy. ACS Earth and Space Chemistry, 2018, 2, 702-710.	2.7	17
31	Photolysisâ€driven indoor air chemistry following cleaning of hospital wards. Indoor Air, 2020, 30, 1241-1255.	4.3	17
32	Physical and Chemical Characterization of Urban Grime Sampled from Two Cities. ACS Earth and Space Chemistry, 2020, 4, 1813-1822.	2.7	14
33	Atmospheric Chemistry of Urban Surface Films. ACS Symposium Series, 2009, , 79-89.	0.5	13
34	Photolysis Kinetics of Toluene, Ethylbenzene, and Xylenes at Ice Surfaces. Journal of Physical Chemistry A, 2016, 120, 6693-6697.	2.5	13
35	Anthracene and Pyrene Photooxidation Kinetics in Saltwater Environments. ACS Earth and Space Chemistry, 2019, 3, 2695-2703.	2.7	11
36	Spatiotemporal characterization of irradiance and photolysis rate constants of indoor gasâ€phase species in the UTest house during HOMEChem. Indoor Air, 2022, 32, .	4.3	11

#	Article	IF	Citations
37	Hydroxyl radical formation from bacteria-assisted Fenton chemistry at neutral pH under environmentally relevant conditions. Environmental Chemistry, 2016, 13, 757.	1.5	10
38	Factors affecting wavelengthâ€resolved ultraviolet irradiance indoors and their impacts on indoor photochemistry. Indoor Air, 2021, 31, 1187-1198.	4.3	10
39	Photochromism of spirooxazines with elements of lipid complementarity in solution and liposomes. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 224-231.	3.9	9
40	Direct Observation of Anthracene Clusters at Ice Surfaces. Journal of the American Chemical Society, 2022, 144, 751-756.	13.7	7
41	A modeling study of the impact of photolysis on indoor air quality. Indoor Air, 2022, 32, .	4.3	7
42	Mechanism of Aqueous-Phase Ozonation of S(IV). Journal of Physical Chemistry A, 2010, 114, 2164-2170.	2.5	6
43	Emerging investigator series: spatial distribution of dissolved organic matter in ice and at airâ€“ice interfaces. Environmental Sciences: Processes and Impacts, 2019, 21, 1076-1084.	3.5	6
44	Physical Characterization of Frozen Aqueous Solutions Containing Sodium Chloride and Humic Acid at Environmentally Relevant Temperatures. ACS Earth and Space Chemistry, 2020, 4, 305-310.	2.7	4
45	Photochemistry in Model Aqueous-Organic Atmospheric Condensed Phases. ACS Symposium Series, 2018, , 87-103.	0.5	3
46	A model for interpreting depth profiles of confocal Raman measurements in reflective and transmitting materials. Journal of Raman Spectroscopy, 2019, 50, 1763-1776.	2.5	3
47	Chemical Morphology Controls Reactivity of OH Radicals at the Airâ€“Ice Interface. Journal of Physical Chemistry A, 2021, 125, 8925-8932.	2.5	2
48	Reply to â€œComment on â€˜Photolysis of Polycyclic Aromatic Hydrocarbons on Water and Ice Surfacesâ€™ and on â€˜Nonchromophoric Organic Matter Suppresses Polycyclic Aromatic Hydrocarbon Photolysis in Ice and at Ice Surfacesâ€™â€• Journal of Physical Chemistry A, 2015, 119, 10764-10765.	2.5	1
49	Itâ€™s Different at the Top: Airâ€“Ice Interface Chemistry in the Cryosphere. , 2021, , 259-290.		0