

Joseph Francisco

List of Publications by Year in Descending Order

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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.

391
papers

9,215
citations

50
h-index

74
g-index

424
ext. papers

10,774
ext. citations

7.9
avg, IF

6.66
L-index

#	Paper	IF	Citations
391	Revealing the Intrinsic Atomic Structure and Chemistry of Amorphous LiO-Containing Products in Li-O Batteries Using Cryogenic Electron Microscopy.. <i>Journal of the American Chemical Society</i> , 2022	16.4	6
390	Spectroscopic Properties Relevant to Astronomical and Laboratory Detection of MCH and MCH ⁺ (M = Al, Mg). <i>Astrophysical Journal</i> , 2022 , 924, 139	4.7	1
389	Photosensitization mechanisms at the air-water interface of aqueous aerosols.. <i>Chemical Science</i> , 2022 , 13, 2624-2631	9.4	0
388	Microscopic Insight into Water Desalination through Nanoporous Graphene: The Influence of the Dipole Moment.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 4029-4035	6.4	0
387	ALOSO: Spectroscopy and Structure of a New Group of Astrochemical Molecules. <i>Astrophysical Journal</i> , 2022 , 930, 29	4.7	1
386	Reaction of SO with HONO and Implications for Sulfur Partitioning in the Atmosphere.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	1
385	Spectral Signatures of Hydrogen Thioperoxide (HOSH) and Hydrogen Persulfide (HSSH): Possible Molecular Sulfur Sinks in the Dense ISM. <i>Molecules</i> , 2022 , 27, 3200	4.8	0
384	Spectroscopic Characterization of HSO and HOSO Intermediates Involved in SO Geoengineering. <i>Journal of Physical Chemistry A</i> , 2021 ,	2.8	1
383	Photochemistry of HOSO and SO and Implications for the Production of Sulfuric Acid. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18794-18802	16.4	2
382	Matrix-isolated trifluoromethylthiyl radical: sulfur atom transfer, isomerization and oxidation reactions. <i>Chemical Communications</i> , 2021 , 57, 12143-12146	5.8	1
381	Mechanism for Rapid Conversion of Amines to Ammonium Salts at the Air-Particle Interface. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1171-1178	16.4	9
380	Theoretical rovibrational characterization of HAINP: Weak bonding but strong intensities. <i>Journal of Molecular Spectroscopy</i> , 2021 , 377, 111422	1.3	0
379	Astrochemical Significance of the P + SO Reaction: Spectroscopic Characterization of SPO, PSO, and SOP Isomers. <i>Astrophysical Journal</i> , 2021 , 909, 122	4.7	0
378	Neutron Diffraction Study of Significant and C-H Bond Shortening in a Fluorinated Pyridinium Saccharinate. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5550-5557	16.4	2
377	First-Principles Molecular Dynamics Simulations of the Spontaneous Freezing Transition of 2D Water in a Nanoslit. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8177-8183	16.4	5
376	Photochemistry of NHNO and implications for chemistry in the atmosphere. <i>Journal of Chemical Physics</i> , 2021 , 154, 194301	3.9	
375	Multiple Wetting-Dewetting States of a Water Droplet on Dual-Scale Hierarchical Structured Surfaces. <i>Jacs Au</i> , 2021 , 1, 955-966		

374	Spectroscopic Characterization of the First and Second Excited States of the HOSO Radical. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 6254-6262	2.8	2
373	Reactivity of Undissociated Molecular Nitric Acid at the Air-Water Interface. <i>Journal of the American Chemical Society</i> , 2021 , 143, 453-462	16.4	6
372	Two-Dimensional Carbonitride MXenes as an Efficient Electrocatalyst for Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 4477-4488	3.8	3
371	Photochemistry and Non-adiabatic Photodynamics of the HOSO Radical. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10836-10841	16.4	4
370	Mechanistic Study of the Aqueous Reaction of Organic Peroxides with HSO ₃ on the Surface of a Water Droplet. <i>Angewandte Chemie</i> , 2021 , 133, 20362-20365	3.6	0
369	Rational Design of Highly Stable and Active MXene-Based Bifunctional ORR/OER Double-Atom Catalysts. <i>Advanced Materials</i> , 2021 , 33, e2102595	24	27
368	Single Iridium Atom Doped NiP Catalyst for Optimal Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13605-13615	16.4	32
367	Mechanistic Insights into Fast Charging and Discharging of the Sodium Metal Battery Anode: A Comparison with Lithium. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13929-13936	16.4	11
366	Rapid sulfuric acid-dimethylamine nucleation enhanced by nitric acid in polluted regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
365	Mechanistic Study of the Aqueous Reaction of Organic Peroxides with HSO on the Surface of a Water Droplet. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20200-20203	16.4	1
364	Anharmonic fundamental vibrational frequencies and spectroscopic constants of the potential HSO radical astromolecule. <i>Journal of Chemical Physics</i> , 2021 , 155, 114301	3.9	1
363	Two-dimensional monolayer salt nanostructures can spontaneously aggregate rather than dissolve in dilute aqueous solutions. <i>Nature Communications</i> , 2021 , 12, 5602	17.4	4
362	Adsorption and isomerization of glyoxal and methylglyoxal at the air/hydroxylated silica surface. <i>Journal of Chemical Physics</i> , 2020 , 152, 164702	3.9	1
361	Energetic Properties, Spectroscopy, and Reactivity of NFO. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5237-5245	2.8	0
360	Climate Metrics for C1-C4 Hydrofluorocarbons (HFCs). <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4793-4800	4.0	1
359	Multiple Stable Isoprene-Ozone Complexes Reveal Complex Entrance Channel Dynamics in the Isoprene + Ozone Reaction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10806-10813	16.4	7
358	New Insights into the Stability of Anhydrous 2-Imidazolium Fluoride and its High Dissolution Capability toward a Strongly Hydrogen-Bonded Compound. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10314-10318	16.4	6
357	A possible unaccounted source of atmospheric sulfate formation: amine-promoted hydrolysis and non-radical oxidation of sulfur dioxide. <i>Chemical Science</i> , 2020 , 11, 2093-2102	9.4	3

356	Evidence of the Elusive Gold-Induced Non-classical Hydrogen Bonding in Aqueous Environments. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6001-6006	16.4	18
355	HIO-IONO Dynamics at the Air-Water Interface: Revealing the Existence of a Halogen Bond at the Atmospheric Aerosol Surface. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12467-12477	16.4	3
354	Hydration, Solvation, and Isomerization of Methylglyoxal at the Air/Water Interface: New Mechanistic Pathways. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5574-5582	16.4	13
353	Spectroscopic characterization of the first excited state and photochemistry of the HO radical. <i>Journal of Chemical Physics</i> , 2020 , 152, 064304	3.9	3
352	Capture of the Sulfur Monoxide-Hydroxyl Radical Complex. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2175-2179	16.4	13
351	Heterogeneous Reactions of SO on Ice: An Overlooked Sink for SO Depletion. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2150-2154	16.4	4
350	Photochemistry from low-lying states of HOSO. <i>Journal of Chemical Physics</i> , 2020 , 152, 134302	3.9	1
349	High-level Ab Initio Studies of the Spectroscopic Properties of Triatomic [Al, S, O] x (x = 0, +1) and Its Potential for Detection in Space. <i>Astrophysical Journal</i> , 2020 , 903, 71	4.7	4
348	Catalytic and autocatalytic chemical processes in the atmosphere. <i>Annual Reports in Computational Chemistry</i> , 2020 , 16, 157-185	1.8	
347	Two-dimensional semiconducting LuCT (T = F, OH) MXene with low work function and high carrier mobility. <i>Nanoscale</i> , 2020 , 12, 3795-3802	7.7	14
346	Multielemental single-atom-thick layers in nanolaminated V(Sn,) C (= Fe, Co, Ni, Mn) for tailoring magnetic properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 820-825	11.5	42
345	Atomic imaging of the edge structure and growth of a two-dimensional hexagonal ice. <i>Nature</i> , 2020 , 577, 60-63	50.4	73
344	Photodissociation Mechanisms of Major Mercury(II) Species in the Atmospheric Chemical Cycle of Mercury. <i>Angewandte Chemie</i> , 2020 , 132, 7675-7680	3.6	1
343	Photodissociation Mechanisms of Major Mercury(II) Species in the Atmospheric Chemical Cycle of Mercury. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7605-7610	16.4	23
342	Integrating Rh Species with NiFe-Layered Double Hydroxide for Overall Water Splitting. <i>Nano Letters</i> , 2020 , 20, 136-144	11.5	67
341	The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21949-21953	16.4	4
340	Anharmonic Frequencies and Spectroscopic Constants of OAlOH and AlOH: Strong Bonding but Unhindered Motion. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 8834-8841	2.8	7
339	Turning a Superhydrophilic Surface Weakly Hydrophilic: Topological Wetting States. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18491-18502	16.4	7

338	Molecular Interaction and Orientation of HOCl on Aqueous and Ice Surfaces. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17329-17333	16.4	1
337	In Situ Observation of the pH Gradient near the Gas Diffusion Electrode of CO Reduction in Alkaline Electrolyte. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15438-15444	16.4	52
336	Unraveling Molecular Mechanism on Dilute Surfactant Solution Controlled Ice Recrystallization. <i>Langmuir</i> , 2020 , 36, 1691-1698	4	2
335	Molecular reactions at aqueous interfaces. <i>Nature Reviews Chemistry</i> , 2020 , 4, 459-475	34.6	51
334	Two-step reaction mechanism reveals new antioxidant capability of cysteine disulfides against hydroxyl radical attack. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18216-18223	11.5	3
333	Photochemistry of oxidized Hg(I) and Hg(II) species suggests missing mercury oxidation in the troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 30949-30956	11.5	16
332	Röntgenstrukturbild: The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide (Angew. Chem. 49/2020). <i>Angewandte Chemie</i> , 2020 , 132, 22452-22452	3.6	
331	The Aqueous Surface as an Efficient Transient Stop for the Reactivity of Gaseous NO in Liquid Water. <i>Journal of the American Chemical Society</i> , 2020 , 142, 20937-20941	16.4	7
330	Computational Prediction of Novel Ice Phases: A Perspective. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7449-7461	6.4	10
329	The Triplet Hydroxyl Radical Complex of Phosphorus Monoxide. <i>Angewandte Chemie</i> , 2020 , 132, 22133-22137	3.6	0
328	A gas-to-particle conversion mechanism helps to explain atmospheric particle formation through clustering of iodine oxides. <i>Nature Communications</i> , 2020 , 11, 4521	17.4	13
327	Photoinduced Oxidation Reactions at the Air-Water Interface. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16140-16155	16.4	13
326	Spectroscopic identification of the β -SNO isomers. <i>Journal of Chemical Physics</i> , 2020 , 153, 094303	3.9	1
325	Mechanisms of Acid-Promoted N and NO Generation from NHNO and NHNO. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 7575-7584	2.8	2
324	Dihalogenated Methylperoxy Radicals: Spectroscopic Characterization and Photodecomposition by Release of HO. <i>Chemistry - A European Journal</i> , 2020 , 26, 2817-2820	4.8	3
323	Specific inter-domain interactions stabilize a compact HIV-1 Gag conformation. <i>PLoS ONE</i> , 2019 , 14, e0221756	3.7	1
322	Molecular insights into organic particulate formation. <i>Communications Chemistry</i> , 2019 , 2,	6.3	3
321	Photochemistry of HOSO radical in the gas phase. <i>Journal of Chemical Physics</i> , 2019 , 151, 111103	3.9	9

320	Water desalination through rim functionalized carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3583-3591	13	28
319	Reconciling the Debate on the Existence of Pentazole HN in the Pentazolate Salt of (N)(HO)(NH)Cl. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2984-2989	16.4	16
318	Role of Water on the Rotational Dynamics of the Organic Methylammonium Cation: A First Principles Analysis. <i>Scientific Reports</i> , 2019 , 9, 668	4.9	10
317	Elucidating the molecular mechanisms of Criegee-amine chemistry in the gas phase and aqueous surface environments. <i>Chemical Science</i> , 2019 , 10, 743-751	9.4	13
316	Theoretical Investigation of the Photoexcited NO + H O reaction at the Air-Water Interface and Its Atmospheric Implications. <i>Chemistry - A European Journal</i> , 2019 , 25, 13899-13904	4.8	6
315	Atmospheric Spectroscopy and Photochemistry at Environmental Water Interfaces. <i>Annual Review of Physical Chemistry</i> , 2019 , 70, 45-69	15.7	19
314	An ultralow-density porous ice with the largest internal cavity identified in the water phase diagram. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12684-12691	11.5	10
313	Gas-Phase Photolysis of Hg(I) Radical Species: A New Atmospheric Mercury Reduction Process. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8698-8702	16.4	27
312	Mechanistic Insight into the Reaction of Organic Acids with SO ₃ at the Air-Water Interface. <i>Angewandte Chemie</i> , 2019 , 131, 8439-8443	3.6	3
311	Triplet state promoted reaction of SO with HO by competition between proton coupled electron transfer (pcet) and hydrogen atom transfer (hat) processes. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9779-9784	3.6	19
310	Room temperature electrofreezing of water yields a missing dense ice phase in the phase diagram. <i>Nature Communications</i> , 2019 , 10, 1925	17.4	13
309	Spectroscopy and characterization of ALNX (X = O and S): Triatomic circumstellar molecules. <i>Journal of Chemical Physics</i> , 2019 , 150, 124306	3.9	4
308	Mechanistic Insight into the Reaction of Organic Acids with SO at the Air-Water Interface. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8351-8355	16.4	22
307	Designing Flexible Quantum Spin Hall Insulators through 2D Ordered Hybrid Transition-Metal Carbides. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20664-20674	3.8	2
306	Direct observation of 2-dimensional ices on different surfaces near room temperature without confinement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16723-16728	11.5	17
305	Molecular oxygen generation from the reaction of water cations with oxygen atoms. <i>Journal of Chemical Physics</i> , 2019 , 150, 201103	3.9	4
304	A New Mechanism of Acid Rain Generation from HOSO at the Air-Water Interface. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16564-16568	16.4	19
303	Production of hydrogen peroxide enabled by microdroplets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19222-19224	11.5	5

302	Rational Design of Flexible Two-Dimensional MXenes with Multiple Functionalities. <i>Chemical Reviews</i> , 2019 , 119, 11980-12031	68.1	137
301	Unraveling a New Chemical Mechanism of Missing Sulfate Formation in Aerosol Haze: Gaseous NO with Aqueous HSO/SO. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19312-19320	16.4	23
300	Caged Nitric Oxide-Thiyl Radical Pairs. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3361-3365	16.4	9
299	Spectroscopic investigation of [Al,N,C,O] refractory molecules. <i>Journal of Chemical Physics</i> , 2019 , 151, 244303	3.9	15
298	Unexpected quenching effect on new particle formation from the atmospheric reaction of methanol with SO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24966-24971	11.5	17
297	Spectroscopy and Stability of ALOP: A Possible Progenitor of Interstellar Metal. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 463-470	2.8	6
296	Adsorption Behaviors and Phase Equilibria for Clathrate Hydrates of Sulfur- and Nitrogen-Containing Small Molecules. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2691-2702	3.8	2
295	Water transport through subnanopores in the ultimate size limit: Mechanism from molecular dynamics. <i>Nano Research</i> , 2019 , 12, 587-592	10	15
294	Mechanistic Quantification of Thermodynamic Stability and Mechanical Strength for Two-Dimensional Transition-Metal Carbides. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4710-4722	3.8	22
293	Can Urea Be a Seed for Aerosol Particle Formation in Air?. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3261-3269	2.8	10
292	Identification of Key Intermediates during the NO and HS Crosstalk Signaling Pathways. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 2877-2883	2.8	5
291	Phonon-mediated stabilization and softening of 2D transition metal carbides: case studies of TiCO and MoCO. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 14608-14618	3.6	6
290	Nitric Acid-Amine Chemistry in the Gas Phase and at the Air-Water Interface. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6456-6466	16.4	31
289	Phase behaviors of deeply supercooled bilayer water unseen in bulk water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4839-4844	11.5	10
288	Tuning the Stereoselectivity and Solvation Selectivity at Interfacial and Bulk Environments by Changing Solvent Polarity: Isomerization of Glyoxal in Different Solvent Environments. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5535-5543	16.4	17
287	Spectroscopic Identification of H NSO and syn- and anti-HNSOH Radicals. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7513-7517	16.4	4
286	Insight into Chemistry on Cloud/Aerosol Water Surfaces. <i>Accounts of Chemical Research</i> , 2018 , 51, 1229-1237	14.5	67
285	Electronic and spectroscopic characterizations of SNP isomers. <i>Journal of Chemical Physics</i> , 2018 , 148, 054305	3.9	5

284	Tribute to Veronica Vaida. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 1157-1158	2.8	
283	Reactivity of hydropersulfides toward the hydroxyl radical unraveled: disulfide bond cleavage, hydrogen atom transfer, and proton-coupled electron transfer. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4793-4804	3.6	8
282	Photoinduced Sulfur-Nitrogen Bond Rotation and Thermal Nitrogen Inversion in Heterocumulene OSNSO. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1231-1234	16.4	8
281	Spectroscopic Identification of H ₂ NSO and syn- and anti-HNSOH Radicals. <i>Angewandte Chemie</i> , 2018 , 130, 7635-7639	3.6	
280	Reaction of Criegee Intermediate with Nitric Acid at the Air-Water Interface. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4913-4921	16.4	35
279	A Possible Progenitor of the Interstellar Sulfide Bond: Rovibrational Characterization of the Hydrogen Disulfide Cation HSSH ⁺ . <i>Astrophysical Journal</i> , 2018 , 856, 30	4.7	7
278	Formation of CO ₂ Hydrates within Single-Walled Carbon Nanotubes at Ambient Pressure: CO ₂ Capture and Selective Separation of a CO ₂ /H ₂ Mixture in Water. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7951-7958	3.8	15
277	The Trifluoromethyl Sulfinyl and Oxathiyl Radicals. <i>Chemistry - A European Journal</i> , 2018 , 24, 1505-1508	4.8	11
276	Rotational (de-)excitation of NS ⁺ (X ¹ Σ ⁺) by collision with He at low temperature. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 4259-4264	4.3	1
275	Phenylsulfinyl Radical: Gas-Phase Generation, Photoisomerization, and Oxidation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9972-9978	16.4	13
274	Photochemistry of OPN: Formation of Cyclic PON and Reversible Combination with Carbon Monoxide. <i>Chemistry - A European Journal</i> , 2018 , 24, 14627-14630	4.8	7
273	Is ALOH the Astrochemical Reservoir Molecule of ALO?: Insights from Excited Electronic States. <i>Astrophysical Journal</i> , 2018 , 863, 139	4.7	16
272	Mechanistic study of the photoexcitation, photoconversion, and photodissociation of CS. <i>Journal of Chemical Physics</i> , 2018 , 149, 064304	3.9	12
271	Self-Catalytic Reaction of SO and NH To Produce Sulfamic Acid and Its Implication to Atmospheric Particle Formation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11020-11028	16.4	58
270	Effects of Different Surface Functionalization and Doping on the Electronic Transport Properties of M ₂ CTxM ₂ CO ₂ Heterojunction Devices. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14908-14917	3.8	15
269	Binding of the atomic cations hydrogen through argon to water and hydrogen sulfide. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 25967-25973	3.6	10
268	A synergetic stabilization and strengthening strategy for two-dimensional ordered hybrid transition metal carbides. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 29684-29692	3.6	7
267	Two-dimensional dry ices with rich polymorphic and polyamorphic phase behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10263-10268	11.5	5

266	Single-Molecule Catalysis Revealed: Elucidating the Mechanistic Framework for the Formation and Growth of Atmospheric Iodine Oxide Aerosols in Gas-Phase and Aqueous Surface Environments. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14704-14716	16.4	17
265	Photochemistry of SO at the Air-Water Interface: A Source of OH and HOSO Radicals. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12341-12344	16.4	24
264	Surface Electrochemical Stability and Strain-Tunable Lithium Storage of Highly Flexible 2D Transition Metal Carbides. <i>Advanced Functional Materials</i> , 2018 , 28, 1804867	15.6	21
263	A molecular perspective for global modeling of upper atmospheric NH from freezing clouds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6147-6152	11.5	20
262	Hydrogen Sulfide as a Scavenger of Sulfur Atomic Cation. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 4983-4987	11.3	13
261	Toward the detection of the triatomic negative ion SPN: Spectroscopy and potential energy surfaces. <i>Journal of Chemical Physics</i> , 2018 , 148, 164305	3.9	1
260	Organic Acid Formation from the Atmospheric Oxidation of Gem Diols: Reaction Mechanism, Energetics, and Rates. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 6266-6276	2.8	14
259	Criegee intermediate inside fullerene cage: Evidence for size-dependent reactivity. <i>Journal of Chemical Physics</i> , 2018 , 148, 244301	3.9	2
258	Formation of HONO from the NH-promoted hydrolysis of NO dimers in the atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7236-7241	11.5	39
257	Elemental sulfur aerosol-forming mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 864-869	11.5	24
256	Heterocumulene Sulfinyl Radical OCNSO. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2140-2144	16.4	15
255	Heterocumulene Sulfinyl Radical OCNSO. <i>Angewandte Chemie</i> , 2017 , 129, 2172-2176	3.6	5
254	Oxygenate-Induced Tuning of Aldehyde-Amine Reactivity and Its Atmospheric Implications. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1022-1031	2.8	11
253	Temperature-Dependent Rate Coefficients for the Reaction of CHOO with Hydrogen Sulfide. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 938-945	2.8	25
252	Characterization of the electronic states of the biological relevant SSNO molecule. <i>Journal of Chemical Physics</i> , 2017 , 146, 074301	3.9	1
251	Energetic Properties and Electronic Structure of [C,N,O,P] and [C,N,S,P] Isomers. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 2180-2186	2.8	
250	On the Detectability of the $\tilde{\mathbf{X}}^2\mathbf{A}'$ HSS, HSO, and HOS Radicals in the Interstellar Medium. <i>Astrophysical Journal</i> , 2017 , 835, 243	4.7	28
249	The atmospheric oxidation of CHOOH by the OH radical: the effect of water vapor. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12331-12342	3.6	21

248	Benchmark study of the structural and spectroscopic parameters of the hydroxymethyl peroxy (HOCHOO) radical and its decomposition reaction to HO and HCO. <i>Journal of Chemical Physics</i> , 2017 , 146, 144303	3.9	3
247	Full-Dimensional Theory of Pair-Correlated HNCO Photofragmentation. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2420-2424	6.4	8
246	Criegee intermediate-hydrogen sulfide chemistry at the air/water interface. <i>Chemical Science</i> , 2017 , 8, 5385-5391	9.4	27
245	Ion-specific ice recrystallization provides a facile approach for the fabrication of porous materials. <i>Nature Communications</i> , 2017 , 8, 15154	17.4	49
244	Surprising Stability of Larger Criegee Intermediates on Aqueous Interfaces. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7740-7744	16.4	63
243	Thioaldehydes from Aldehyde-Hydrogen Sulfide Interaction Under Organocatalysis. <i>Chemistry - A European Journal</i> , 2017 , 23, 2522-2526	4.8	4
242	Surprising Stability of Larger Criegee Intermediates on Aqueous Interfaces. <i>Angewandte Chemie</i> , 2017 , 129, 7848-7852	3.6	7
241	Role of Proton Tunneling and Metal-Free Organocatalysis in the Decomposition of Methanediol: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 4318-4325	2.8	13
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