Joseph Francisco

List of Publications by Citations

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	Theoretical studies of atmospheric reaction mechanisms in the troposphere. *Chemical Society Reviews*, **2012**, 41, 6259-93	58.5	300
390	Water catalysis of a radical-molecule gas-phase reaction. *Science*, **2007**, 315, 497-501	33.3	273
389	Radical-water complexes in Earth's atmosphere. *Accounts of Chemical Research*, **2000**, 33, 825-30	24.3	170
388	Kinetics and mechanisms of aqueous ozone reactions with bromide, sulfite, hydrogen sulfite, iodide, and nitrite ions. *Inorganic Chemistry*, **2001**, 40, 4436-42	5.1	166
387	Promising electron mobility and high thermal conductivity in Sc2CT2 (T = F, OH) MXenes. *Nanoscale*, **2016**, 8, 6110-7	7.7	141
386	Existence of a Hydroperoxy and Water (HO2·H2O) Radical Complex. *Journal of Physical Chemistry A*, **1998**, 102, 1899-1902	2.8	141
385	Rational Design of Flexible Two-Dimensional MXenes with Multiple Functionalities. *Chemical Reviews*, **2019**, 119, 11980-12031	68.1	137
384	The thermal and electrical properties of the promising semiconductor MXene Hf2CO2. *Scientific Reports*, **2016**, 6, 27971	4.9	115
383	Sulfuric acid as autocatalyst in the formation of sulfuric acid. *Journal of the American Chemical Society*, **2012**, 134, 20632-44	16.4	107
382	The trans-HOCO radical: quartic force fields, vibrational frequencies, and spectroscopic constants. *Journal of Chemical Physics*, **2011**, 135, 134301	3.9	105
381	Stabilization and strengthening effects of functional groups in two-dimensional titanium carbide. *Physical Review B*, **2016**, 94,	3.3	103
380	HOCO radical chemistry. *Accounts of Chemical Research*, **2010**, 43, 1519-26	24.3	100
379	Experimental Evidence for the Existence of the HO2·H2O Complex. *Journal of Physical Chemistry A*, **2000**, 104, 6597-6601	2.8	99
378	Intrinsic Structural, Electrical, Thermal, and Mechanical Properties of the Promising Conductor Mo2C MXene. *Journal of Physical Chemistry C*, **2016**, 120, 15082-15088	3.8	98
377	Water effects on atmospheric reactions. *International Reviews in Physical Chemistry*, **2011**, 30, 335-369	7	96
376	Coupled Cluster Theory Determination of the Heats of Formation of Combustion-Related Compounds: CO, HCO, CO2, HCO2, HOCO, HC(O)OH, and HC(O)OOH. *Journal of Physical Chemistry A*, **2003**, 107, 1604-1617	2.8	94
375	Quartic force field predictions of the fundamental vibrational frequencies and spectroscopic constants of the cations HOCO+ and DOCO+. *Journal of Chemical Physics*, **2012**, 136, 234309	3.9	89

374	New Mechanistic Pathways for Criegee-Water Chemistry at the Air/Water Interface. *Journal of the American Chemical Society*, **2016**, 138, 11164-9	16.4	85
373	The isomerization of methoxy radical: intramolecular hydrogen atom transfer mediated through acid catalysis. *Journal of the American Chemical Society*, **2011**, 133, 2013-5	16.4	80
372	Distinct ice patterns on solid surfaces with various wettabilities. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11285-11290	11.5	79
371	Atmospheric significance of water clusters and ozone-water complexes. *Journal of Physical Chemistry A*, **2013**, 117, 10381-96	2.8	78
370	Effects of a single water molecule on the OH + H2O2 reaction. *Journal of Physical Chemistry A*, **2012**, 116, 5821-9	2.8	78
369	Impact of water on the OH + HOCl reaction. *Journal of the American Chemical Society*, **2011**, 133, 3345-53	16.4	78
368	Interconnection of reactive oxygen species chemistry across the interfaces of atmospheric, environmental, and biological processes. *Accounts of Chemical Research*, **2015**, 48, 575-83	24.3	77
367	An Investigation of the Factors Influencing Student Performance in Physical Chemistry. *Journal of Chemical Education*, **2001**, 78, 99	2.4	77
366	Near-Barrierless Ammonium Bisulfate Formation via a Loop-Structure Promoted Proton-Transfer Mechanism on the Surface of Water. *Journal of the American Chemical Society*, **2016**, 138, 1816-9	16.4	76
365	Effect of Irradiation Sources and Oxygen Concentration on the Photocatalytic Oxidation of 2-Propanol and Acetone Studied by in Situ FTIR. *Journal of Physical Chemistry B*, **2003**, 107, 4537-4544	3.4	74
364	Atomic imaging of the edge structure and growth of a two-dimensional hexagonal ice. *Nature*, **2020**, 577, 60-63	50.4	73
363	Insight into Chemistry on Cloud/Aerosol Water Surfaces. *Accounts of Chemical Research*, **2018**, 51, 1229-1237	24.3	67
362	Integrating Rh Species with NiFe-Layered Double Hydroxide for Overall Water Splitting. *Nano Letters*, **2020**, 20, 136-144	11.5	67
361	The OH radical-H2O molecular interaction potential. *Journal of Chemical Physics*, **2006**, 124, 224318	3.9	66
360	Structure, Anharmonic Vibrational Frequencies, and Intensities of NNHNN(+). *Journal of Physical Chemistry A*, **2015**, 119, 11623-31	2.8	64
359	Surprising Stability of Larger Criegee Intermediates on Aqueous Interfaces. *Angewandte Chemie - International Edition*, **2017**, 56, 7740-7744	16.4	63
358	Fundamental vibrational frequencies and spectroscopic constants of HOCS+, HSCO+, and isotopologues via quartic force fields. *Journal of Physical Chemistry A*, **2012**, 116, 9582-90	2.8	63
357	Vibrational frequencies and spectroscopic constants from quartic force fields for cis-HOCO: the radical and the anion. *Journal of Chemical Physics*, **2011**, 135, 214303	3.9	61

356	Role of Double Hydrogen Atom Transfer Reactions in Atmospheric Chemistry. *Accounts of Chemical Research*, **2016**, 49, 877-83	24.3	60
355	Self-Catalytic Reaction of SO and NH To Produce Sulfamic Acid and Its Implication to Atmospheric Particle Formation. *Journal of the American Chemical Society*, **2018**, 140, 11020-11028	16.4	58
354	Gas phase hydrolysis of formaldehyde to form methanediol: impact of formic acid catalysis. *Journal of Physical Chemistry A*, **2013**, 117, 11704-10	2.8	58
353	Exploring the OH+CO-H+CO2 potential surface via dissociative photodetachment of (HOCO)□ *Journal of Chemical Physics*, **2002**, 117, 6478-6488	3.9	58
352	Kinetics and Mechanism of the Acetylperoxy + HO2 Reaction. *Journal of Physical Chemistry A*, **1999**, 103, 365-378	2.8	58
351	Characterizing hydrophobicity of amino acid side chains in a protein environment via measuring contact angle of a water nanodroplet on planar peptide network. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12946-12951	11.5	56
350	Infrared spectrum and stability of the H2O-HO complex: experiment and theory. *Journal of Physical Chemistry A*, **2010**, 114, 1529-38	2.8	55
349	Bond dissociation energies in second-row compounds. *Journal of Physical Chemistry A*, **2008**, 112, 3145-56	2.8	55
348	Hydrolysis of glyoxal in water-restricted environments: formation of organic aerosol precursors through formic acid catalysis. *Journal of Physical Chemistry A*, **2014**, 118, 4095-105	2.8	54
347	The importance of weak absorption features in promoting tropospheric radical production. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 7449-52	11.5	54
346	Mechanistic study of the gas-phase decomposition of methyl formate. *Journal of the American Chemical Society*, **2003**, 125, 10475-80	16.4	54
345	In Situ Observation of the pH Gradient near the Gas Diffusion Electrode of CO Reduction in Alkaline Electrolyte. *Journal of the American Chemical Society*, **2020**, 142, 15438-15444	16.4	52
344	Reactivity of volatile organic compounds at the surface of a water droplet. *Journal of the American Chemical Society*, **2012**, 134, 11821-7	16.4	51
343	Molecular reactions at aqueous interfaces. *Nature Reviews Chemistry*, **2020**, 4, 459-475	34.6	51
342	Heats of formation of the H1,2OmSn (m, n = 0-3) molecules from electronic structure calculations. *Journal of Physical Chemistry A*, **2009**, 113, 11343-53	2.8	50
341	Ion-specific ice recrystallization provides a facile approach for the fabrication of porous materials. *Nature Communications*, **2017**, 8, 15154	17.4	49
340	Encapsulation kinetics and dynamics of carbon monoxide in clathrate hydrate. *Nature Communications*, **2014**, 5, 4128	17.4	49
339	Existence of a Chlorine Oxide and Water (ClO.cntdot.H2O) Radical Complex. *Journal of the American Chemical Society*, **1995**, 117, 9917-9918	16.4	48

338	Reactivity of atmospherically relevant small radicals at the air-water interface. *Angewandte Chemie - International Edition*, **2012**, 51, 5413-7	16.4	47
337	Assessing Student Understanding of General Chemistry with Concept Mapping. *Journal of Chemical Education*, **2002**, 79, 248	2.4	46
336	Structure and Energetics of Hydrogen Bonded HOx□HNO3 Complexes. *Journal of Physical Chemistry A*, **1999**, 103, 6049-6053	2.8	45
335	Cavity Ringdown Spectroscopy of cis-cis HOONO and the HOONO/HONO2 Branching Ratio in the Reaction OH + NO2 + M. *Journal of Physical Chemistry A*, **2003**, 107, 6974-6985	2.8	44
334	Making Sure That Hydrofluorocarbons Are □zone Friendly□*Accounts of Chemical Research*, **1996**, 29, 391-397	24.3	44
333	The formation of a surprisingly stable HO(2)-H(2)SO(4) complex. *Journal of the American Chemical Society*, **2001**, 123, 10387-8	16.4	43
332	Spectroscopic signatures of ozone at the air-water interface and photochemistry implications. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 11618-23	11.5	42
331	General-acid-catalyzed reactions of hypochlorous acid and acetyl hypochlorite with chlorite ion. *Inorganic Chemistry*, **2000**, 39, 2614-20	5.1	42
330	Integrating Multiple Teaching Methods into a General Chemistry Classroom. *Journal of Chemical Education*, **1998**, 75, 210	2.4	42
329	Multielemental single-atom-thick layers in nanolaminated V(Sn,) C (= Fe, Co, Ni, Mn) for tailoring magnetic properties. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 820-825	11.5	42
328	Hydrolysis of ketene catalyzed by formic acid: modification of reaction mechanism, energetics, and kinetics with organic acid catalysis. *Journal of Physical Chemistry A*, **2015**, 119, 4347-57	2.8	41
327	Pressure dependence and metastable state formation in the photolysis of dichlorine monoxide (Cl2O). *Journal of Chemical Physics*, **1996**, 104, 2857-2868	3.9	41
326	Interaction of the NH2 Radical with the Surface of a Water Droplet. *Journal of the American Chemical Society*, **2015**, 137, 12070-8	16.4	40
325	A surface-stabilized ozonide triggers bromide oxidation at the aqueous solution-vapour interface. *Nature Communications*, **2017**, 8, 700	17.4	39
324	Communication: Spectroscopic consequences of proton delocalization in OCHCO+. *Journal of Chemical Physics*, **2015**, 143, 071102	3.9	39
323	The gas-phase decomposition of CF(3)OH with water: a radical-catalyzed mechanism. *Journal of Physical Chemistry A*, **2009**, 113, 5333-7	2.8	39
322	Uptake of the HO2 radical by water: Molecular dynamics calculations and their implications for atmospheric modeling. *Journal of Geophysical Research*, **2004**, 109,		39
321	Formation of HONO from the NH-promoted hydrolysis of NO dimers in the atmosphere. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 7236-7241	11.5	39

320	Evidence of low-density and high-density liquid phases and isochore end point for water confined to carbon nanotube. *Proceedings of the National Academy of Sciences of the United States of America* , **2017**, 114, 4066-4071	11.5	37
319	The gas and solution phase acidities of HNO, HOONO, HONO, and HONO2. *International Journal of Mass Spectrometry*, **2003**, 227, 421-438	1.9	37
318	Gas-Phase Generation and Decomposition of a Sulfinylnitrene into the Iminyl Radical OSN. *Angewandte Chemie - International Edition*, **2016**, 55, 1507-10	16.4	36
317	Designing flexible 2D transition metal carbides with strain-controllable lithium storage. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E11082-E11091	11.5	36
316	Identifying the molecular origin of global warming. *Journal of Physical Chemistry A*, **2009**, 113, 12694-9	2.8	36
315	Unraveling the mechanism of selective ion transport in hydrophobic subnanometer channels. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10851-6	11.5	35
314	Reaction of Criegee Intermediate with Nitric Acid at the Air-Water Interface. *Journal of the American Chemical Society*, **2018**, 140, 4913-4921	16.4	35
313	Interaction of SO with the Surface of a Water Nanodroplet. *Journal of the American Chemical Society*, **2017**, 139, 17168-17174	16.4	34
312	An Investigation of the Value of Using Concept Maps in General Chemistry. *Journal of Chemical Education*, **2001**, 78, 1111	2.4	34
311	Dissociation Pathways of Peroxyacetyl Nitrate (PAN). *Journal of Physical Chemistry A*, **1999**, 103, 11451-11459	2.8	34
310	Ab initio study of hydrogen migration in 1-alkylperoxy radicals. *Journal of Physical Chemistry A*, **2010**, 114, 11492-505	2.8	33
309	TiO2 Photocatalytic Degradation of Dichloromethane: An FTIR and Solid-State NMR Study. *Journal of Physical Chemistry B*, **2004**, 108, 5640-5646	3.4	33
308	High level ab initio studies on the excited states of HOCO radical. *Journal of Chemical Physics*, **2000**, 113, 7963-7970	3.9	33
307	Unimolecular Decomposition Pathways of Dimethyl Ether: An ab Initio Study. *Journal of Physical Chemistry A*, **1998**, 102, 236-241	2.8	33
306	Water Complexation as a Means of Stabilizing the Metastable HO3Radical. *Journal of the American Chemical Society*, **1999**, 121, 8592-8596	16.4	33
305	Carboxylic acid catalyzed hydration of acetaldehyde. *Journal of Physical Chemistry A*, **2015**, 119, 4581-8	2.8	32
304	Reaction pathways for gas-phase hydrolysis of formyl compounds HXCO (X = H, F, and Cl). *Journal of the American Chemical Society*, **1993**, 115, 3746-3751	16.4	32
303	Single Iridium Atom Doped NiP Catalyst for Optimal Oxygen Evolution. *Journal of the American Chemical Society*, **2021**, 143, 13605-13615	16.4	32

302	Nitric Acid-Amine Chemistry in the Gas Phase and at the Air-Water Interface. *Journal of the American Chemical Society*, **2018**, 140, 6456-6466	16.4	31
301	Spontaneous formation of one-dimensional hydrogen gas hydrate in carbon nanotubes. *Journal of the American Chemical Society*, **2014**, 136, 10661-8	16.4	31
300	Controlling states of water droplets on nanostructured surfaces by design. *Nanoscale*, **2017**, 9, 18240-18245	7.4	30
299	Molecular structure, vibrational frequencies, and energetics of the HOCO+ ion. *Journal of Chemical Physics*, **1997**, 107, 9039-9045	3.9	30
298	Ab Initio Study of the Structure, Binding Energy, and Vibrations of the HOCl-H2O Complex. *The Journal of Physical Chemistry*, **1995**, 99, 1919-1922		30
297	A spectroscopic case for SPSi detection: The third-row in a single molecule. *Journal of Chemical Physics*, **2016**, 145, 124311	3.9	29
296	On the Detectability of the ${tilde{{boldsymbol{X}}}}^{2}{boldsymbol{A}}^{primeprime} $ HSS, HSO, and HOS Radicals in the Interstellar Medium. *Astrophysical Journal*, **2017**, 835, 243	4.7	28
295	Water desalination through rim functionalized carbon nanotubes. *Journal of Materials Chemistry A*, **2019**, 7, 3583-3591	13	28
294	Simplest N-Sulfonylamine HNSO2. *Journal of the American Chemical Society*, **2016**, 138, 11509-12	16.4	28
293	Crystal structure and encapsulation dynamics of ice II-structured neon hydrate. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10456-61	11.5	28
292	Ground and electronically excited states of methyl hydroperoxide: comparison with hydrogen peroxide. *Journal of Chemical Physics*, **2006**, 125, 104301	3.9	28
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290	Complete active space self-consistent field and multireference configuration interaction studies of the differences between the low-lying excited states of HO2 and HO2H2O. *Journal of Chemical Physics*, **1999**, 110, 9017-9019	3.9	28
289	Criegee intermediate-hydrogen sulfide chemistry at the air/water interface. *Chemical Science*, **2017**, 8, 5385-5391	9.4	27
288	Gas-Phase Photolysis of Hg(I) Radical Species: A New Atmospheric Mercury Reduction Process. *Journal of the American Chemical Society*, **2019**, 141, 8698-8702	16.4	27
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286	High-level ab initio studies of the structure, vibrational spectra, and energetics of S3. *Journal of Chemical Physics*, **2005**, 123, 054302	3.9	27
285	High level ab initio molecular orbital theory study of the structure, vibrational spectrum, stability, and low-lying excited states of HOONO. *Journal of Chemical Physics*, **2000**, 113, 7976-7981	3.9	27

284	Structure and Vibrational Spectra of Chlorofluorocarbon Substitutes: An Experimental and ab Initio Study of Fluorinated Ethers CHF2OCF3 (E125), CHF2OCHF2 (E134), and CH3OCF3 (E143A). *Journal of Physical Chemistry A*, **1998**, 102, 1854-1864	2.8	27
283	Hydrogen bonding and orientation effects on the accommodation of methylamine at the air-water interface. *Journal of Chemical Physics*, **2016**, 144, 214701	3.9	27
282	Rational Design of Highly Stable and Active MXene-Based Bifunctional ORR/OER Double-Atom Catalysts. *Advanced Materials*, **2021**, 33, e2102595	24	27
281	Dimethylamine Addition to Formaldehyde Catalyzed by a Single Water Molecule: A Facile Route for Atmospheric Carbinolamine Formation and Potential Promoter of Aerosol Growth. *Journal of Physical Chemistry A*, **2016**, 120, 1358-68	2.8	26
280	Complexes of Hydroperoxyl Radical with Glyoxal, Methylglyoxal, Methylvinyl Ketone, Acrolein, and Methacrolein: Possible New Sinks for HO2 in the Atmosphere?. *Journal of Physical Chemistry A*, **2003**, 107, 2492-2496	2.8	26
279	A CASSCF/MRCI study on the low-lying excited states of CH3OCl. *Journal of Chemical Physics*, **1999**, 111, 8384-8388	3.9	26
278	Temperature-Dependent Rate Coefficients for the Reaction of CHOO with Hydrogen Sulfide. *Journal of Physical Chemistry A*, **2017**, 121, 938-945	2.8	25
277	A Computational Study Investigating the Energetics and Kinetics of the HNCO + (CH)NH Reaction Catalyzed by a Single Water Molecule. *Journal of Physical Chemistry A*, **2017**, 121, 8465-8473	2.8	25
276	Reactivity trends within alkoxy radical reactions responsible for chain branching. *Journal of the American Chemical Society*, **2011**, 133, 18208-19	16.4	25
275	High level ab initio molecular orbital study of the structures and vibrational spectra of CHBr+ and CBr+. *Journal of Chemical Physics*, **1998**, 109, 134-138	3.9	25
274	Elemental sulfur aerosol-forming mechanism. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 864-869	11.5	24
273	An ab initio study of the competing reaction channels in the reaction of HOCO radicals with NO and O2. *Journal of Chemical Physics*, **2004**, 120, 5073-80	3.9	24
272	Structures, Vibrational Spectra, and Relative Energetics of HBrO3 Isomers. *Journal of Physical Chemistry A*, **1998**, 102, 2072-2079	2.8	24
271	Photochemistry of SO at the Air-Water Interface: A Source of OH and HOSO Radicals. *Journal of the American Chemical Society*, **2018**, 140, 12341-12344	16.4	24
270	Unraveling a New Chemical Mechanism of Missing Sulfate Formation in Aerosol Haze: Gaseous NO with Aqueous HSO/SO. *Journal of the American Chemical Society*, **2019**, 141, 19312-19320	16.4	23
269	Interfaces Select Specific Stereochemical Conformations: The Isomerization of Glyoxal at the Liquid Water Interface. *Journal of the American Chemical Society*, **2017**, 139, 27-30	16.4	23
268	Thermodynamic properties of the isomers of [HNOS], [HNO2 S], and [HNOS2] and the role of the central sulfur. *Chemistry - A European Journal*, **2014**, 20, 10231-5	4.8	23
267	An ab initio study of the pathways for the reaction between CH3O2 and BrO radicals. *Journal of Chemical Physics*, **2003**, 118, 1779-1793	3.9	23

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265	Dissociation dynamics of FC(O)O and ClC(O)O radicals. *Chemical Physics*, **1988**, 127, 73-79	2.3	23
264	Photodissociation Mechanisms of Major Mercury(II) Species in the Atmospheric Chemical Cycle of Mercury. *Angewandte Chemie - International Edition*, **2020**, 59, 7605-7610	16.4	23
263	Mechanistic Insight into the Reaction of Organic Acids with SO at the Air-Water Interface. *Angewandte Chemie - International Edition*, **2019**, 58, 8351-8355	16.4	22
262	The Role of Catalysis in Alkanediol Decomposition: Implications for General Detection of Alkanediols and Their Formation in the Atmosphere. *Journal of Physical Chemistry A*, **2015**, 119, 9821-33	2.8	22
261	Mechanistic Quantification of Thermodynamic Stability and Mechanical Strength for Two-Dimensional Transition-Metal Carbides. *Journal of Physical Chemistry C*, **2018**, 122, 4710-4722	3.8	22
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259	The atmospheric oxidation of CHOOH by the OH radical: the effect of water vapor. *Physical Chemistry Chemical Physics*, **2017**, 19, 12331-12342	3.6	21
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255	HOSO2H2O Radical Complex and Its Possible Effects on the Production of Sulfuric Acid in the Atmosphere. *Journal of Physical Chemistry A*, **2003**, 107, 1216-1221	2.8	21
254	Theoretical Study of the Thermal Decomposition Pathways of 2-H Heptafluoropropane. *Journal of Physical Chemistry A*, **2002**, 106, 3106-3113	2.8	21
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247	Identifying Cytosine-Specific Isomers via High-Accuracy Single Photon Ionization. *Journal of the American Chemical Society*, **2016**, 138, 16596-16599	16.4	20
246	Heteroatom Tuning of Bimolecular Criegee Reactions and Its Implications. *Angewandte Chemie - International Edition*, **2016**, 55, 13432-13435	16.4	20
245	A molecular perspective for global modeling of upper atmospheric NH from freezing clouds. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 6147-6152	11.5	20
244	Atmospheric Spectroscopy and Photochemistry at Environmental Water Interfaces. *Annual Review of Physical Chemistry*, **2019**, 70, 45-69	15.7	19
243	Triplet state promoted reaction of SO with HO by competition between proton coupled electron transfer (pcet) and hydrogen atom transfer (hat) processes. *Physical Chemistry Chemical Physics*, **2019**, 21, 9779-9784	3.6	19
242	The Stability of ⊟Hydroperoxyalkyl Radicals. *Chemistry - A European Journal*, **2016**, 22, 18092-18100	4.8	19
241	A New Mechanism of Acid Rain Generation from HOSO at the Air-Water Interface. *Journal of the American Chemical Society*, **2019**, 141, 16564-16568	16.4	19
240	Ion pair particles at the air-water interface. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 12401-12406	11.5	19
239	Competition of charge- versus radical-directed fragmentation of gas-phase protonated cysteine sulfinyl radicals. *Journal of the American Chemical Society*, **2013**, 135, 6226-33	16.4	19
238	The vibrational spectrum of FC(O)O radical: A challenging case for single-reference electron correlation methods. *Journal of Chemical Physics*, **1995**, 103, 6601-6607	3.9	19
237	Electronic structures and mechanical properties of Al(111)/ZrB2(0001) heterojunctions from first-principles calculation. *Molecular Physics*, **2015**, 113, 1794-1801	1.7	18
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235	Excited states of OH-(HD)n clusters for n = 1-4: an ab initio study. *Journal of Chemical Physics*, **2014**, 141, 104315	3.9	18
234	Atmospheric oxidation pathways of propane and its by-products: Acetone, acetaldehyde, and propionaldehyde. *Journal of Geophysical Research*, **2007**, 112,		18
233	Quantum force molecular dynamics study of the reaction of O atoms with HOCO. *Journal of Chemical Physics*, **2007**, 127, 094302	3.9	18
232	Theoretical investigation of product channels in the CH3O2 + Br reaction. *Journal of Physical Chemistry A*, **2006**, 110, 3778-84	2.8	18
231	Complete active space self-consistent field and multireference configuration interaction studies of the low-lying excited states of the ClOH2O radical complex. *Journal of Chemical Physics*, **2001**, 115, 8381-8383	3.9	18

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