

# Steven L Baughcum

## List of Publications by Year in descending order

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39  
papers

1,420  
citations

516710

16  
h-index

414414

32  
g-index

39  
all docs

39  
docs citations

39  
times ranked

801  
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential Impacts of Supersonic Aircraft Emissions on Ozone and Resulting Forcing on Climate: An Update on Historical Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034130.	3.3	10
2	Stratospheric Ozone and Climate Forcing Sensitivity to Cruise Altitudes for Fleets of Potential Supersonic Transport Aircraft. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034971.	3.3	7
3	The Impact on the Ozone Layer of a Potential Fleet of Civil Hypersonic Aircraft. <i>Earth's Future</i> , 2020, 8, e2020EF001626.	6.3	10
4	Numerical modeling of particle deposition in the environmental control systems of commercial airliners on ground. <i>Building Simulation</i> , 2017, 10, 265-275.	5.6	9
5	In-flight monitoring of particle deposition in the environmental control systems of commercial airliners in China. <i>Atmospheric Environment</i> , 2017, 154, 118-128.	4.1	21
6	Experimental study of particle deposition in the environmental control systems of commercial airliners. <i>Building and Environment</i> , 2016, 96, 62-71.	6.9	22
7	Correction to "OH reaction rate constant, IR absorption spectrum, ozone depletion potentials and global warming potentials of 2-bromo-3,3,3-trifluoropropene". <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	2
8	OH reaction rate constant, IR absorption spectrum, ozone depletion potentials and global warming potentials of 2-bromo-3,3,3-trifluoropropene. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	13
9	Direct deposition of subsonic aircraft emissions into the stratosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 8317-8327.	3.3	16
10	An evaluation of upper troposphere NO <sub>x</sub> with two models. <i>Journal of Geophysical Research</i> , 1998, 103, 22097-22113.	3.3	31
11	Direct measurements of methoxy removal rate constants for collisions with CH <sub>4</sub> , Ar, N <sub>2</sub> , Xe, and CF <sub>4</sub> in the temperature range 673-973 K. <i>Proceedings of the Combustion Institute</i> , 1989, 22, 973-981.	0.3	10
12	Absorption by ground-state lead atoms of the 283.3-nm resonant line from a lead hollow cathode lamp: an absolute number density calibration. <i>The Journal of Physical Chemistry</i> , 1989, 93, 7336-7338.	2.9	1
13	A Hybrid Chemical/Excimer Laser Concept. <i>Proceedings of SPIE</i> , 1988, 0875, 149.	0.8	1
14	Thermodynamics of lead diiodide dissociation and the laser-induced fluorescence excitation spectrum of lead monoiodide(A-X). <i>The Journal of Physical Chemistry</i> , 1987, 91, 3840-3845.	2.9	6
15	Collisional quenching of methoxy(A2A1) radical. <i>The Journal of Physical Chemistry</i> , 1987, 91, 3253-3259.	2.9	19
16	Removal rate constant measurements for methoxy radical by oxygen over the 298-973 K range. <i>The Journal of Physical Chemistry</i> , 1987, 91, 4653-4655.	2.9	50
17	CH <sub>3</sub> O+CO removal rate constant measurements over the 473-973 K temperature range. <i>Chemical Physics Letters</i> , 1987, 138, 548-552.	2.6	19
18	Gas-phase oxidation of atomic boron and boron monoxide. <i>AIP Conference Proceedings</i> , 1986, , .	0.4	5

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19	Photofragment fluorescence as an analytical technique: application to gas-phase alkali chlorides. <i>Analytical Chemistry</i> , 1986, 58, 1430-1436.	6.5	68
20	Photochemistry of trimethylgallium with applications to atomic gallium reaction kinetics. <i>AIP Conference Proceedings</i> , 1986, , .	0.4	0
21	Photofragment fluorescence as an analytical technique: Application to gas-phase alkali compounds. <i>AIP Conference Proceedings</i> , 1986, , .	0.4	0
22	Laser Photochemistry Of Gallium-Containing Compounds. <i>Proceedings of SPIE</i> , 1986, , .	0.8	0
23	Laser-Initiated Chain Reactions In The Partial Oxidation Of Methane. , 1986, , .		2
24	Photofragment Fluorescence As A Sensitive Probe For Gas-Phase Alkali Compounds And Their Photochemistry. <i>Proceedings of SPIE</i> , 1985, , .	0.8	1
25	Optically pumped NO ( $\text{A}\hat{\text{e}}\%{2}\hat{\text{I}}\text{e}+\hat{\text{a}}\text{t}'\text{X}\hat{\text{a}}\%{2}\hat{\text{I}}\text{e}$ ) ultraviolet laser. <i>Applied Physics Letters</i> , 1985, 46, 22-24.	3.3	21
26	Production Of Gallium Atoms By Excimer Laser Photolysis Of Trimethylgallium. <i>Proceedings of SPIE</i> , 1985, , .	0.8	0
27	Absorption sensitivity enhancement in methyl fluoride at $1200\text{cm}^{\wedge}\text{a}^{\sim}1$ using Stark polarization rotation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1985, 2, 1480.	2.1	0
28	Microwave spectroscopic study of malonaldehyde. 4. Vibration-rotation interaction in parent species. <i>Journal of the American Chemical Society</i> , 1984, 106, 2265-2267.	13.7	138
29	Microwave spectroscopic study of malonaldehyde. 3. Vibration-rotation interaction and one-dimensional model for proton tunneling. <i>Journal of the American Chemical Society</i> , 1984, 106, 2260-2265.	13.7	221
30	Measurement of the $\text{C}_{2}(\text{a})^{3}\text{u}$ and $\text{C}_{2}(\text{X})^{1}\text{g}^{+}$ Disappearance Rates with $\text{O}_{2}$ from 298 to 1300 Kelvin. <i>ACS Symposium Series</i> , 1983, , 257-266.	0.5	5
31	Laser photodissociation of $\text{Hg}(\text{CH}_3)_2$ : Infrared emission studies of vibrational and rotational excitation in the $\text{CH}_3$ fragments. <i>Chemical Physics Letters</i> , 1982, 89, 183-188.	2.6	41
32	Real-time detection of methyl radicals by diode laser absorption at $608\text{cm}^{\wedge}\text{a}^{\sim}1$ . <i>Chemical Physics Letters</i> , 1982, 88, 568-571.	2.6	50
33	Microwave spectroscopic study of malonaldehyde (3-hydroxy-2-propenal). 2. Structure, dipole moment, and tunneling. <i>Journal of the American Chemical Society</i> , 1981, 103, 6296-6303.	13.7	262
34	Laser UV photofragmentation of halogenated molecules. Selective bond dissociation and wavelength-specific quantum yields for excited iodine ( $2\text{P}_{1/2}$ ) and bromine ( $2\text{P}_{1/2}$ ) atoms. <i>The Journal of Physical Chemistry</i> , 1981, 85, 3844-3851.	2.9	122
35	Photofragmentation infrared emission studies of vibrationally excited free radicals $\text{CH}_3$ and $\text{CH}_2\text{I}$ . <i>Journal of Chemical Physics</i> , 1980, 72, 6531-6545.	3.0	197
36	Photofragmentation dynamics and reactive collisions of laser-excited electronic states. <i>Faraday Discussions of the Chemical Society</i> , 1979, 67, 306.	2.2	29

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37	<title>Free Radical Studies By Excimer Laser Ultraviolet Photolysis</title>, Proceedings of SPIE, 1978, , .	0.8	2
38	NMR studies of furan and thiophene partially oriented in a lyotropic liquid crystal. Journal of Magnetic Resonance, 1972, 7, 253-259.	0.5	9
39	Quantifying the Fuel Consumption Penalties for an Operational Conrail Avoidance System. , 0, , .		0