

# Solomon Bililign

## List of Publications by Year in descending order

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38  
papers

776  
citations

567144

15  
h-index

526166

27  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1198  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8110-8115.	3.3	118
2	Laser Spectroscopy for Atmospheric and Environmental Sensing. Sensors, 2009, 9, 10447-10512.	2.1	93
3	Reactive collision dynamics of $\text{Na}^*(4s^2P)+\text{H}_2$ and HD: Experiment and theory. Journal of Chemical Physics, 1992, 96, 218-229.	1.2	62
4	Nascent rotational quantum state distribution of NaH (NaD) from the reaction of $\text{Na}^*(4s^2P)$ with $\text{H}_2$ , D <sub>2</sub> , and HD. Journal of Chemical Physics, 1992, 96, 213-217.	1.2	51
5	Flight Deployment of a High-Resolution Time-of-Flight Chemical Ionization Mass Spectrometer: Observations of Reactive Halogen and Nitrogen Oxide Species. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7670-7686.	1.2	39
6	Potential energy curves of $M(np^2) \rightarrow RG(2\hat{1})$ excited states and $M+\hat{\infty}RG$ ground states ( $M=\text{Li, Na}$ ; $RG=\text{He, Ne}$ ). Journal of Chemical Physics, 1994, 100, 8212-8218.	1.2	38
7	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coal-Fired Power Plants. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11225-11237.	1.2	33
8	Geometries and stabilities of 3d-transition metal-cation benzene complexes, $M+\text{Bzn}$ ( $M=\text{Sc}^+-\text{Cu}$ , $n=1, 2$ ). Chemical Physics, 2006, 326, 600-604.	0.9	30
9	Far-wing scattering studies on the reaction $\text{Li}^*(2p,3p)+\text{H}_2 \rightarrow \text{LiH}(\hat{\nu}^3=1,2, \hat{j}^3)+\text{H}$ . Journal of Chemical Physics, 2001, 114, 7052-7058.	1.2	25
10	Measurement of size-dependent single scattering albedo of fresh biomass burning aerosols using the extinction-minus-scattering technique with a combination of cavity ring-down spectroscopy and nephelometry. Atmospheric Chemistry and Physics, 2016, 16, 13491-13507.	1.9	22
11	Error Analysis and Uncertainty in the Determination of Aerosol Optical Properties Using Cavity Ring-Down Spectroscopy, Integrating Nephelometry, and the Extinction-Minus-Scattering Method. Aerosol Science and Technology, 2014, 48, 1345-1359.	1.5	20
12	Collisional energy transfer in $\text{Na}(4p^3d) \rightarrow \text{He}, \text{H}_2$ collisions. Journal of Chemical Physics, 1993, 98, 1101-1104.	1.2	19
13	Energy Transfer in $\text{Li}^*(3p) \rightarrow \text{H}_2$ Collisions. Journal of Physical Chemistry A, 2000, 104, 9454-9458.	1.1	19
14	Reaction dynamics of $\text{Na}^*(42P)+\text{H}_2$ : Effect of reactant orbital alignment on reactivity and product rotational state distribution. Physical Review A, 1990, 42, 6938-6941.	1.0	18
15	Predissociation lifetimes of vibrational levels of the excited $1B_1$ ( $K^{\pi}=0$ ) electronic states of $\text{Cd} \rightarrow \text{H}_2$ and $\text{Cd} \rightarrow \text{D}_2$ complexes. Journal of Chemical Physics, 1993, 98, 2115-2122.	1.2	15
16	Refractive Indices of Biomass Burning Aerosols Obtained from African Biomass Fuels Using RDG Approximation. Atmosphere, 2020, 11, 62.	1.0	15
17	Singlet $\rightarrow$ triplet energy transfer via $1\hat{1}/3\hat{1} \rightarrow +1$ curve crossings in group 2 and 12 metal-atom/rare-gas systems. Journal of Chemical Physics, 1993, 99, 3815-3822.	1.2	14
18	Wintertime Overnight $\text{NO}_x$ Removal in a Southeastern United States Coal-Fired Power Plant Plume: A Model for Understanding Winter $\text{NO}_x$ Processing and its Implications. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1412-1425.	1.2	14

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19	Impact of combustion conditions on physical and morphological properties of biomass burning aerosol. <i>Aerosol Science and Technology</i> , 2021, 55, 80-91.	1.5	14
20	Construction and Characterization of an Indoor Smog Chamber for Measuring the Optical and Physicochemical Properties of Aging Biomass Burning Aerosols. <i>Aerosol and Air Quality Research</i> , 2019, 19, 467-483.	0.9	14
21	Laboratory studies of fresh and aged biomass burning aerosol emitted from east African biomass fuels â€” Part A2: Chemical properties and characterization. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10169-10191.	1.9	13
22	Optical Properties of Biomass Burning Aerosols: Comparison of Experimental Measurements and T-Matrix Calculations. <i>Atmosphere</i> , 2017, 8, 228.	1.0	12
23	Rates of Wintertime Atmospheric SO <sub>2</sub> Oxidation based on Aircraft Observations during Clear-Sky Conditions over the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6630-6649.	1.2	12
24	Determination of Emission Factors of Pollutants From Biomass Burning of African Fuels in Laboratory Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034731.	1.2	12
25	Laboratory studies of fresh and aged biomass burning aerosol emitted from east African biomass fuels â€” Part A1: Optical properties. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10149-10168.	1.9	11
26	Wintertime Formaldehyde: Airborne Observations and Source Apportionment Over the Eastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033518.	1.2	9
27	Nonradiative Energy Transfer in Li*(3p)âˆ—CH <sub>4</sub> Collisions. <i>Journal of Physical Chemistry A</i> , 2002, 106, 222-227.	1.1	6
28	Programs to build capacity in geosciences at HBCUs and MSIs: Examples from North Carolina A&T State University. <i>Journal of Geoscience Education</i> , 2019, 67, 351-365.	0.8	6
29	Using Low-Cost Measurement Systems to Investigate Air Quality: A Case Study in Palapye, Botswana. <i>Atmosphere</i> , 2020, 11, 583.	1.0	5
30	Energy transfer in Li(4p)+(Ar,H <sub>2</sub> ,CH <sub>4</sub> ) collisions. <i>Journal of Chemical Physics</i> , 2004, 120, 1739-1745.	1.2	4
31	Quenching of Li(3P) by CH <sub>4</sub> , C <sub>2</sub> H <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> , C <sub>3</sub> H <sub>8</sub> . <i>Chemical Physics</i> , 2004, 305, 299-305.	0.9	4
32	Experimental and theoretical studies of the quenching of Li(3p,4p) by N <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2005, 123, 024303.	1.2	3
33	Metalâ€”metal and metalâ€”hydrogen reactive transition states. <i>Faraday Discussions of the Chemical Society</i> , 1991, 91, 97-110.	2.2	2
34	Density functional study on the structure and stability of positive iron rare-gas complexes, (X=Ar, Xe). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	0.9	1
35	Experimental studies of collisions of excited Li(4p) atoms with C <sub>2</sub> H <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> , C <sub>3</sub> H <sub>8</sub> and theoretical interpretation of the Liâ€”C <sub>2</sub> H <sub>4</sub> system. <i>Chemical Physics</i> , 2009, 355, 157-163.	0.9	1
36	Measurement of the Fourth Oâˆ—H Overtone Absorption Cross Section in Acetic Acid Using Cavity Ring-Down Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 753-761.	1.1	1

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37	Reaction dynamics of Na(42P)+H <sub>2</sub> ; effect of reactant orbital alignment on product rotational state distribution. AIP Conference Proceedings, 1990, , .	0.3	0
38	Spectroscopic Techniques for Atmospheric Analysis. , 2009, , .		0