Solomon Bilign

List of Publications by Year
in descending order

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	Impact of combustion conditions on physical and morphological properties of biomass burning aerosol. Aerosol Science and Technology, 2021, 55, 80-91.	1.5	14
2	Wintertime Formaldehyde: Airborne Observations and Source Apportionment Over the Eastern United States. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033518.	1.2	9
3	Determination of Emission Factors of Pollutants From Biomass Burning of African Fuels in Laboratory Measurements. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034731.	1.2	12
4	Refractive Indices of Biomass Burning Aerosols Obtained from African Biomass Fuels Using RDG Approximation. Atmosphere, 2020, 11, 62.	1.0	15
5	Using Low-Cost Measurement Systems to Investigate Air Quality: A Case Study in Palapye, Botswana. Atmosphere, 2020, 11, 583.	1.0	5
6	Laboratory studies of fresh and aged biomass burning aerosol emitted from east African biomass fuels â€“ PartÂ1: Optical properties. Atmospheric Chemistry and Physics, 2020, 20, 10149-10168.	1.9	11
7	Laboratory studies of fresh and aged biomass burning aerosol emitted from east African biomass fuels â€“ PartÂ2: Chemical properties and characterization. Atmospheric Chemistry and Physics, 2020, 20, 10169-10191.	1.9	13
8	Programs to build capacity in geosciences at HBCUs and MSIs: Examples from North Carolina A&T State University. Journal of Geoscience Education, 2019, 67, 351-365.	0.8	6
9	Rates of Wintertime Atmospheric SO₂ Oxidation based on Aircraft Observations during Clearâ€Sky Conditions over the Eastern United States. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6630-6649.	1.2	12
10	Construction and Characterization of an Indoor Smog Chamber for Measuring the Optical and Physicochemical Properties of Aging Biomass Burning Aerosols. Aerosol and Air Quality Research, 2019, 19, 467-483.	0.9	14
11	Wintertime Overnight NO_{<i>x</i>} Removal in a Southeastern United States Coalâ€fired Power Plant Plume: A Model for Understanding Winter NO_{<i>x</i>} Processing and its Implications. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1412-1425.	1.2	14
12	Airborne Observations of Reactive Inorganic Chlorine and Bromine Species in the Exhaust of Coalâ€Fired Power Plants. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11225-11237.	1.2	33
13	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
14	Flight Deployment of a Highâ€Resolution Timeâ€ofâ€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
15	Optical Properties of Biomass Burning Aerosols: Comparison of Experimental Measurements and T-Matrix Calculations. Atmosphere, 2017, 8, 228.	1.0	12
16	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
17	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
18	Measurement of the Fourth Oâˆ’H Overtone Absorption Cross Section in Acetic Acid Using Cavity Ring-Down Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 753-761.	1.1	1

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19	Spectroscopic Techniques for Atmospheric Analysis. , 2009, , .		0
20	Laser Spectroscopy for Atmospheric and Environmental Sensing. Sensors, 2009, 9, 10447-10512.	2.1	93
21	Experimental studies of collisions of excited Li(4p) atoms with C2H4, C2H6, C3H8 and theoretical interpretation of the Liâ€“C2H4 system. Chemical Physics, 2009, 355, 157-163.	0.9	1
22	Geometries and stabilities of 3d-transition metal-cation benzene complexes, M+Bzn (M=Scâ€“Cu, n=1, 2). Chemical Physics, 2006, 326, 600-604.	0.9	30
23	Experimental and theoretical studies of the quenching of Li(3p,4p) by N2. Journal of Chemical Physics, 2005, 123, 024303.	1.2	3
24	Energy transfer in Li(4p)+(Ar,H2,CH4) collisions. Journal of Chemical Physics, 2004, 120, 1739-1745.	1.2	4
25	Quenching of Li(3P) by CH4, C2H4, C2H6, C3H8. Chemical Physics, 2004, 305, 299-305.	0.9	4
26	Density functional study on the structure and stability of positive iron rare-gas complexes, (X=Ar, Xe;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	1
27	Nonradiative Energy Transfer in Li*(3p)â^'CH4Collisions. Journal of Physical Chemistry A, 2002, 106, 222-227.	1.1	6
28	Far-wing scattering studies on the reaction Li*(2p,3p)+H2â†'LiH(vâ€³=1,2,Jâ€³)+H. Journal of Chemical Physics, 2001, 114, 7052-7058.	1.2	25
29	Energy Transfer in Li*(3p)â^'H2 Collisions. Journal of Physical Chemistry A, 2000, 104, 9454-9458.	1.1	19
30	Potential energy curves of M(npâ€‰2P)â‹...RG(2Î) excited states and M+â‹...RG ground states (M=Li, Na; RG=He, Ne). Journal of Chemical Physics, 1994, 100, 8212-8218.	1.2	38
31	Singletâ€toâ€triplet energy transfer via 1Î1/3Î£+1 curve crossings in group 2 and 12 metalâ€“atom/rareâ€gas systems. Journal of Chemical Physics, 1993, 99, 3815-3822.	1.2	14
32	Collisional energy transfer in Na(4pâ€“3d)â€“He,H2collisions. Journal of Chemical Physics, 1993, 98, 1101-1104.	1.2	19
33	Predissociation lifetimes of vibrational levels of the excited 1B1 (Kaâ€™=0) electronic states of Cdâ‹...H2 and Cdâ‹...D2 complexes. Journal of Chemical Physics, 1993, 98, 2115-2122.	1.2	15
34	Nascent rotational quantum state distribution of NaH (NaD) from the reaction of Na*(4â€‰2P) with H2, D2, and HD. Journal of Chemical Physics, 1992, 96, 213-217.	1.2	51
35	Reactive collision dynamics of Na*(4â€‰2P)+H2and HD: Experiment and theory. Journal of Chemical Physics, 1992, 96, 218-229.	1.2	62
36	Metalâ€“metal and metalâ€“hydrogen reactive transition states. Faraday Discussions of the Chemical Society, 1991, 91, 97-110.	2.2	2

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37	Reaction dynamics of Na(42P)+H2; effect of reactant orbital alignment on product rotational state distribution. AIP Conference Proceedings, 1990, , .	0.3	0
38	Reaction dynamics ofNa*(42P)+H2: Effect of reactant orbital alignment on reactivity and product rotational state distribution. Physical Review A, 1990, 42, 6938-6941.	1.0	18