

Shengrui Yu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Photodissociation dynamics of $\text{CO}_2 + \langle i \rangle h\nu \langle /i \rangle \hat{\text{a}}^1 \text{CO}(X^1\text{b}^1\hat{\Sigma}^+ +) + \text{O}(1\text{D}_2)$ via the $3\text{P}^1\text{b}^1\hat{\Sigma}^+$ state. <i>Journal of Chemical Physics</i> , 2022, 156, 054302.	3.0	4
2	Rotational state specific dissociation dynamics of D_2O via the $\text{C}\hat{1}\text{f}(010)$ state: The effect of bending vibrational excitation. <i>Journal of Chemical Physics</i> , 2022, 156, .	3.0	1
3	Vacuum ultraviolet photodissociation dynamics of $\text{OCS} + \langle i \rangle h\nu \langle /i \rangle \hat{\text{a}}^1 \text{CO}(\langle \text{sup} \rangle 1 \langle / \text{sup} \rangle \hat{\Sigma}^+ \langle \text{sup} \rangle + \langle / \text{sup} \rangle) + \text{S}(\langle \text{sup} \rangle 1 \langle / \text{sup} \rangle \text{S} \langle \text{sub} \rangle 0 \langle / \text{sub} \rangle) \langle i \rangle \text{via} \langle /i \rangle$ the E and F Rydberg states. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5809-5816.	2.8	7
4	Ultrafast decay dynamics of electronically excited 2-ethylpyrrole. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17625-17633.	2.8	6
5	Photodissociation dynamics of $\text{H} \langle \text{sub} \rangle 2 \langle / \text{sub} \rangle \text{O}$ and $\text{D} \langle \text{sub} \rangle 2 \langle / \text{sub} \rangle \text{O} \langle i \rangle \text{via} \langle /i \rangle$ the $\text{D}\hat{1}\text{f}(\langle \text{sup} \rangle 1 \langle / \text{sup} \rangle \text{A} \langle \text{sub} \rangle 1 \langle / \text{sub} \rangle)$ electronic state. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4379-4386.	2.8	4
6	Photodissociation Dynamics of OCS near 150 nm: The $\text{S}(\langle \text{sup} \rangle 1 \langle / \text{sup} \rangle \text{S} \langle \text{sub} \rangle \langle i \rangle \langle /i \rangle = 0 \langle / \text{sub} \rangle)$ and $\text{S}(\langle \text{sup} \rangle 3 \langle / \text{sup} \rangle \text{P} \langle \text{sub} \rangle \langle i \rangle \langle /i \rangle = 2, 1, 0 \langle / \text{sub} \rangle)$ Product Channels. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6420-6426.	2.5	10
7	State-to-state photodissociation dynamics of CO_2 around 108 nm: the $\text{O}(1\text{S})$ atom channel. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6260-6265.	2.8	12
8	Observation of the Carbon Elimination Channel in Vacuum Ultraviolet Photodissociation of OCS . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4783-4787.	4.6	19
9	Vacuum ultraviolet photodissociation dynamics of CO_2 near 133 nm: The spin-forbidden $\text{O}(3\text{P} \langle i \rangle \langle j \rangle = 2, 1, 0) + \text{CO}(X^1\hat{\Sigma}^+)$ channel. <i>Journal of Chemical Physics</i> , 2019, 151, 214306.	3.0	13
10	Photodissociation Dynamics of Nitrous Oxide near 145 nm: The $\text{O}(\langle \text{sup} \rangle 1 \langle / \text{sup} \rangle \text{S} \langle \text{sub} \rangle 0 \langle / \text{sub} \rangle)$ and $\text{O}(\langle \text{sup} \rangle 3 \langle / \text{sup} \rangle \text{P} \langle \text{sub} \rangle \langle i \rangle \langle /i \rangle = 2, 1, 0 \langle / \text{sub} \rangle)$ Product Channels. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2663-2669.	2.5	13
11	Photodissociation dynamics of H_2O at 111.5 nm by a vacuum ultraviolet free electron laser. <i>Journal of Chemical Physics</i> , 2018, 148, 124301.	3.0	29
12	Vacuum ultraviolet photodissociation dynamics of N_2O via the $\text{C}\hat{1}\text{f}$ state: The $\text{N}(2\text{D}_j=5/2, 3/2) + \text{NO}(X^2\hat{1})$ product channels. <i>Journal of Chemical Physics</i> , 2018, 149, 104309.	3.0	9
13	Tunable VUV photochemistry using vacuum ultraviolet free electron laser combined with H-atom Rydberg tagging time-of-flight spectroscopy. <i>Review of Scientific Instruments</i> , 2018, 89, 063113.	1.3	33
14	Vacuum ultraviolet photodissociation of hydrogen bromide. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15399-15405.	2.8	5
15	VUV Photodissociation Dynamics of Nitrous Oxide: The $\text{N}(\langle \text{sup} \rangle 2 \langle / \text{sup} \rangle \text{D} \langle \text{sub} \rangle \langle i \rangle \langle /i \rangle = 3/2, 5/2 \langle / \text{sub} \rangle)$ and $\text{N}(\langle \text{sup} \rangle 2 \langle / \text{sup} \rangle \text{P} \langle \text{sub} \rangle \langle i \rangle \langle /i \rangle = 1/2, 3/2 \langle / \text{sub} \rangle)$ Product Channels. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4966-4972.	2.5	14
16	Photodissociation dynamics of HOD via the $\text{B}\hat{1}\text{f}(1 \langle i \rangle \text{A} \langle /i \rangle 1)$ electronic state. <i>Journal of Chemical Physics</i> , 2015, 143, 184302.	3.0	9
17	VUV Photodissociation Dynamics of Nitrous Oxide: The $\text{O}(\langle \text{sup} \rangle 1 \langle / \text{sup} \rangle \text{S} \langle \text{sub} \rangle \langle i \rangle \langle /i \rangle = 0 \langle / \text{sub} \rangle)$ and $\text{O}(\langle \text{sup} \rangle 3 \langle / \text{sup} \rangle \text{P} \langle \text{sub} \rangle \langle i \rangle \langle /i \rangle = 2, 1, 0 \langle / \text{sub} \rangle)$ Product Channels. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8090-8096.	2.5	22
18	Photodissociation Dynamics of Diacetylene Rydberg States. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11313-11319.	2.5	6

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19	State-to-state dynamics of high-n Rydberg H-atom scattering with H ₂ : inelastic scattering and reactive scattering. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9659-9665.	2.8	1
20	State-to-state dynamics of the H*(n) + HD → D*(n) + H ₂ reactive scattering. <i>Journal of Chemical Physics</i> , 2014, 140, 034310.	3.0	6
21	Competition between Direct and Indirect Dissociation Pathways in Ultraviolet Photodissociation of HNCO. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11673-11678.	2.5	20
22	Vacuum Ultraviolet Photodissociation Dynamics of Isocyanic Acid: The Hydrogen Elimination Channel. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13564-13571.	2.5	11
23	Photodissociation dynamics of C ₄ H ₂ at 164.41 nm: Competitive dissociation pathways. <i>Journal of Chemical Physics</i> , 2013, 139, 124307.	3.0	7
24	Observation of Extremely High Vibrational Excitation in O ₂ from Inelastic Scattering of Rydberg H Atom with O ₂ . <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2420-2424.	4.6	4
25	State-to-state differential cross-sections for the reactive scattering of H*(n) with o-D ₂ . <i>Chemical Science</i> , 2012, 3, 2839.	7.4	6