Sergy Yu Grebenshchikov

List of Publications by Year
in descending order

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19	296	933447 10	839539 18
papers	citations	h-index	g-index

19	19	19	283
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photodissociation dynamics in the first absorption band of pyrrole. I. Molecular Hamiltonian and the Herzberg-Teller absorption spectrum for the À21(Ï€Ïƒ*)â†Ìƒ1â€‰A1(Ï€Ï€) transition. Journal of Chemical Physics, 2018, 148, 104103.	3.0	12
2	Photodissociation dynamics in the first absorption band of pyrrole. II. Photofragment distributions for the 1A2(Ï€Ïƒ*)â†Ìƒ1A1(Ï€Ï€) transition. Journal of Chemical Physics, 2018, 148, 104104.	3.0	10
3	Entanglement of the molecular photodissociation products at avoided crossings and conical intersections. Chemical Physics, 2018, 515, 60-70.	1.9	1
4	Infrared Spectra of Neutral Bent Carbon Dioxide. Journal of Physical Chemistry A, 2017, 121, 4296-4305.	2.5	7
5	Fano resonances in the photoinduced H-atom elimination dynamics in the Ï€Ïƒ* states of pyrrole. Physical Chemistry Chemical Physics, 2017, 19, 14902-14906.	2.8	9
6	Unexpectedly broad photoelectron spectrum as a signature of ultrafast electronic relaxation of Rydberg states of carbon dioxide. Physical Review A, 2017, 95, .	2.5	9
7	State-specific tunneling lifetimes from classical trajectories: H-atom dissociation in electronically excited pyrrole. Journal of Chemical Physics, 2016, 144, 104105.	3.0	11
8	Photochemistry of carbon dioxide from first principles: Application to photoabsorption of hot CO 2. Journal of CO2 Utilization, 2016, 15, 32-40.	6.8	9
9	Partial dissociative emission cross sections and product state distributions of the resulting photofragments. Chemical Physics, 2016, 481, 231-236.	1.9	2
10	Intermediate photofragment distributions as probes of non-adiabatic dynamics at conical intersections: application to the Hartley band of ozone. Physical Chemistry Chemical Physics, 2015, 17, 28931-28942.	2.8	7
11	Signatures of a conical intersection in photofragment distributions and absorption spectra: Photodissociation in the Hartley band of ozone. Journal of Chemical Physics, 2014, 141, 074311.	3.0	11
12	Photodissociation of carbon dioxide in singlet valence electronic states. I. Six multiply intersecting ab initio potential energy surfaces. Journal of Chemical Physics, 2013, 138, 224106.	3.0	32
13	Photodissociation of carbon dioxide in singlet valence electronic states. II. Five state absorption spectrum and vibronic assignment. Journal of Chemical Physics, 2013, 138, 224107.	3.0	31
14	Crossing Electronic States in the Franckâ€“Condon Zone of Carbon Dioxide: A Five-Fold Closed Seam of Conical and Glancing Intersections. Journal of Physical Chemistry Letters, 2012, 3, 3223-3227.	4.6	14
15	Communication: Multistate quantum dynamics of photodissociation of carbon dioxide between 120 nm and 160 nm. Journal of Chemical Physics, 2012, 137, 021101.	3.0	22
16	Ab Initio Quantum Mechanical Study of the O(¹D) Formation in the Photolysis of Ozone between 300 and 330 nm. Journal of Physical Chemistry A, 2010, 114, 9809-9819.	2.5	8
17	The Huggins band of ozone: A theoretical analysis. Journal of Chemical Physics, 2004, 121, 11731-11745.	3.0	32
18	Intra- and intermolecular energy transfer in highly excited ozone complexes. Journal of Chemical Physics, 2004, 120, 10015-10024.	3.0	37

#	Article	IF	Citations
19	Nonexponential Unimolecular Decay of Jet-Cooled NO2: Comparison of Time-Resolved Measurements and Quantum Mechanical Calculationsâ€. Journal of Physical Chemistry A, 2000, 104, 10398-10408.	2.5	32