

H Floyd Davis

List of Publications by Year in descending order

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24
papers

594
citations

687363

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times ranked

474
citing authors

#	ARTICLE	IF	CITATIONS
1	Mode-Specific Energy Disposal in the Four-Atom Reaction $\text{OH} + \text{D}_2 \rightarrow \text{HOD} + \text{D}$. <i>Science</i> , 2000, 290, 958-961.	12.6	134
2	A Low-Cost Quantitative Absorption Spectrophotometer. <i>Journal of Chemical Education</i> , 2012, 89, 1432-1435.	2.3	91
3	Reaction Dynamics of Zr and Nb with Ethylene. <i>Journal of Physical Chemistry A</i> , 1999, 103, 3706-3720.	2.5	66
4	Crossed beams study of C-H bond activation: $\text{Mo}(5\text{S}^2) + \text{CH}_4 \rightarrow \text{MoCH}_2 + \text{H}_2$. <i>Journal of Chemical Physics</i> , 1998, 108, 2665-2668.	3.0	48
5	Dynamics of CO elimination from reactions of yttrium atoms with formaldehyde, acetaldehyde, and acetone. <i>Journal of Chemical Physics</i> , 2002, 117, 9258-9265.	3.0	28
6	Competition between $\text{C}\hat{\sim}\text{C}$ and $\text{C}\hat{\sim}\text{H}$ Activation in Reactions of Neutral Yttrium Atoms with Cyclopropane and Propene. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9284-9294.	2.5	28
7	Crossed beams study of the reaction $\text{CH}_2 + \text{C}_2\text{H}_2 \rightarrow \text{C}_3\text{H}_3 + \text{H}$. <i>Journal of Chemical Physics</i> , 2004, 121, 6254-6257.	3.0	24
8	Collision Complex Lifetimes in the Reaction $\text{C}_{6\text{H}_5} + \text{O}_2 \rightarrow \text{C}_6\text{H}_5\text{O} + \text{O}$. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1107-1111.	4.6	24
9	High-intensity coherent vacuum ultraviolet source using unfocussed commercial dye lasers. <i>Review of Scientific Instruments</i> , 2013, 84, 063104.	1.3	22
10	$\text{C}\hat{\sim}\text{C}$ versus $\text{C}\hat{\sim}\text{H}$ Bond Activation of Alkynes by Early Second-Row Transition Metal Atoms. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3010-3019.	2.5	21
11	Competition between $\text{C}\hat{\sim}\text{C}$ and $\text{C}\hat{\sim}\text{H}$ Activation in Reactions of Neutral Yttrium Atoms with Four Butene Isomers. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9295-9300.	2.5	15
12	Oxygen atom Rydberg time-of-flight spectroscopy. <i>Journal of Chemical Physics</i> , 2003, 119, 251-255.	3.0	15
13	Details of the Potential Energy Surface for the Reaction $\text{Y} + \text{H}_2\text{CCO} \rightarrow \text{YCO} + \text{H}_2$: A Crossed-Beams Study. <i>Journal of Physical Chemistry A</i> , 2002, 106, 11695-11699.	2.5	14
14	Improved piezoelectric actuators for use in high-speed pulsed valves. <i>Review of Scientific Instruments</i> , 2010, 81, 023106.	1.3	13
15	Studies of bimolecular reaction dynamics using pulsed high-intensity vacuum-ultraviolet lasers for photoionization detection. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14566.	2.8	13
16	Crossed Molecular Beams Studies of Phenyl Radical Reactions with Propene and <i>trans</i> -2-Butene. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13967-13975.	2.5	8
17	Direct Observation of Ethylidene (CH_3CH), the Elusive High-Energy Isomer of Ethylene. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10476-10481.	4.6	6
18	REACTIONS OF NEUTRAL TRANSITION METAL ATOMS WITH SMALL MOLECULES IN THE GAS PHASE. <i>Advanced Series in Physical Chemistry</i> , 2004, , 215-280.	1.5	6

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19	Reactions of Neutral Gas-Phase Yttrium Atoms with Two Cyclohexadiene Isomers. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3508-3513.	2.5	5
20	High intensity vacuum ultraviolet and extreme ultraviolet production by noncollinear mixing in laser vaporized media. <i>Review of Scientific Instruments</i> , 2016, 87, 063106.	1.3	5
21	Dimethylcarbene versus Direct Propene Formation in Dimethylketene Photodissociation. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6940-6948.	2.5	3
22	Subpicosecond HI elimination in the 266 nm photodissociation of branched iodoalkanes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27338-27347.	2.8	3
23	Photodissociation Dynamics of Gaseous CpCo(CO) ₂ and Ligand Exchange Reactions of CpCoH ₂ with C ₃ H ₄ , C ₃ H ₆ , and NH ₃ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 5039-5044.	2.5	2
24	Site-Specific Carbon-Carbon Bond Fission in Photoexcited Propyl Radicals Leads to Isomer-Selective Carbene and Radical Products. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11926-11930.	4.6	0