

# James Croft

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

375  
citations

933447

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839539

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18  
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18  
docs citations

18  
times ranked

249  
citing authors

#	ARTICLE	IF	CITATIONS
1	Universality and chaoticity in ultracold K+KRb chemical reactions. Nature Communications, 2017, 8, 15897.	12.8	56
2	Long-lived complexes and chaos in ultracold molecular collisions. Physical Review A, 2014, 89, .	2.5	45
3	Unraveling the Stereodynamics of Cold Controlled $\text{HD} + \text{H} \rightarrow \text{H}_2 + \text{D}$ Collisions. Physical Review Letters, 2018, 121, 113401.	18.1	39
4	Multichannel quantum defect theory for cold molecular collisions. Physical Review A, 2011, 84, .	2.5	35
5	Stereodynamical Control of a Quantum Scattering Resonance in Cold Molecular Collisions. Physical Review Letters, 2019, 123, 043401.	7.8	32
6	Long-lived complexes and signatures of chaos in ultracold $\text{K} + \text{H}_2$ + Rb collisions. Physical Review A, 2017, 96, .	2.5	28
7	Non-adiabatic quantum interference in the ultracold $\text{Li} + \text{LiNa} \rightarrow \text{Li}_2 + \text{Na}$ reaction. Physical Chemistry Chemical Physics, 2021, 23, 5096-5112.	2.8	25
8	Unified model of ultracold molecular collisions. Physical Review A, 2020, 102, .	2.5	22
9	Controlling rotational quenching rates in cold molecular collisions. Journal of Chemical Physics, 2019, 150, 164302.	3.0	19
10	Symmetry and the geometric phase in ultracold hydrogen-exchange reactions. Journal of Chemical Physics, 2017, 147, 074302.	3.0	13
11	Full-Dimensional Potential Energy Surface for Rotationally Inelastic Scattering between $\text{H}_2$ Molecules. Journal of Chemical Theory and Computation, 2021, 17, 6747-6756.	5.3	11
12	Optimized multichannel quantum defect theory for cold molecular collisions. Physical Review A, 2012, 86, .	2.5	10
13	Rotational Quenching of HD in Collisions with $\text{H}_2$ : Resolving Discrepancies for Low-lying Rotational Transitions. Astrophysical Journal, 2018, 866, 95.	4.5	10
14	Role of Low Energy Resonances in the Stereodynamics of Cold $\text{He} + \text{D}_2$ Collisions. Journal of Physical Chemistry Letters, 2022, 13, 4064-4072.	4.6	9
15	Stereodynamic control of cold rotationally inelastic $\text{CO} + \text{HD}$ collisions. Physical Chemistry Chemical Physics, 2021, 23, 19364-19374.	2.8	8
16	Electric field dependence of complex-dominated ultracold molecular collisions. Physical Review A, 2022, 105, .	2.5	7
17	Multichannel quantum defect theory for cold molecular collisions with a strongly anisotropic potential energy surface. Physical Review A, 2013, 87, .	2.5	3
18	Non-sticking of helium buffer gas to hydrocarbons. Physical Review A, 2015, 91, .	2.5	3