## Barratt Park

## List of Publications by Year in descending order

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623734 526287 32 715 14 27 h-index citations g-index papers 32 32 32 646 citing authors all docs docs citations times ranked

#	Article	IF	CITATIONS
1	Detecting chirality in mixtures using nanosecond photoelectron circular dichroism. Physical Chemistry Chemical Physics, 2022, 24, 2758-2761.	2.8	12
2	A free electron laser-based $1+1\hat{a}\in^2$ Resonance-Enhanced Multiphoton Ionization scheme for rotationally resolved detection of OH radicals with correct relative intensities. Journal of Molecular Spectroscopy, 2021, 380, 111509.	1.2	3
3	Photodissociation transition states characterized by chirped pulse millimeter wave spectroscopy.  Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 146-151.	7.1	11
4	High-resolution resonance-enhanced multiphoton photoelectron circular dichroism. Physical Chemistry Chemical Physics, 2020, 22, 7404-7411.  Quantum state resolved lifetime of taplet (combinath) TJ FTQq1 1.0 784314 rg8T (Overlock 10 TF 50 602 Td (xx	2.8	22 ="http://www.
5		1.2	3
6	Fundamental mechanisms for molecular energy conversion and chemical reactions at surfaces. Reports on Progress in Physics, 2019, 82, 096401.	20.1	34
7	The kinetics of elementary thermal reactions in heterogeneous catalysis. Nature Reviews Chemistry, 2019, 3, 723-732.	30.2	31
8	Electron transfer mediates vibrational relaxation of CO in collisions with Ag(111). Physical Chemistry Chemical Physics, 2019, 21, 1650-1655.	2.8	10
9	Vibrational Relaxation of Highly Vibrationally Excited CO Scattered from Au(111): Evidence for CO <sup>–</sup> Formation. Journal of Physical Chemistry Letters, 2017, 8, 4887-4892.	4.6	16
10	An axis-specific rotational rainbow in the direct scatter of formaldehyde from Au(111) and its influence on trapping probability. Physical Chemistry Chemical Physics, 2017, 19, 19904-19915.	2.8	12
11	Intermediate state dependence of the photoelectron circular dichroism of fenchone observed via femtosecond resonance-enhanced multi-photon ionization. Journal of Chemical Physics, 2017, 147, 013926.	3.0	44
12	Trapping-desorption and direct-scattering of formaldehyde at Au(111). Physical Chemistry Chemical Physics, 2017, 19, 19896-19903.	2.8	7
13	A $1+1\hat{a}\in^2$ resonance-enhanced multiphoton ionization scheme for rotationally state-selective detection of formaldehyde via the $\tilde{A}f$ (sup>1A <sub>2</sub> $\hat{a}\uparrow$ - $\hat{X}\uparrow$ (sup>1A <sub>1</sub> transition. Physical Chemistry Chemical Physics, 2016, 18, 22355-22363.	2.8	10
14	Perspective: The first ten years of broadband chirped pulse Fourier transform microwave spectroscopy. Journal of Chemical Physics, 2016, 144, 200901.	3.0	109
15	The $1\frac{1}{2}$ 6 fundamental frequency of the Alf state of formaldehyde and Coriolis perturbations in the $31\frac{1}{2}$ 4 level. Journal of Chemical Physics, 2016, 144, 194308.	3.0	9
16	The origin of unequal bond lengths in the $\hat{Cl}f1B2$ state of SO2: Signatures of high-lying potential energy surface crossings in the low-lying vibrational structure. Journal of Chemical Physics, 2016, 144, 144313.	3.0	10
17	Observation of b2 symmetry vibrational levels of the SO2â€^C̃â€^1B2 state: Vibrational level staggering, Coriolis interactions, and rotation-vibration constants. Journal of Chemical Physics, 2016, 144, 144311.	3.0	14
18	The rotation-vibration structure of the SO2 $\widehat{Clf}1B2$ state explained by a new internal coordinate force field. Journal of Chemical Physics, 2016, 144, 144312.	3.0	14

#	Article	IF	CITATIONS
19	Communication: Observation of local-bender eigenstates in acetylene. Journal of Chemical Physics, 2015, 143, 071101.	3.0	3
20	Simplified Cartesian Basis Model for Intrapolyad Emission Intensities in the Bent-to-Linear Electronic Transition of Acetylene. Journal of Physical Chemistry A, 2015, 119, 857-865.	2.5	3
21	Edge effects in chirped-pulse Fourier transform microwave spectra. Journal of Molecular Spectroscopy, 2015, 312, 54-57.	1.2	7
22	Millimeter-wave optical double resonance schemes for rapid assignment of perturbed spectra, with applications to the $\operatorname{Cl} f1B2$ state of SO2. Journal of Chemical Physics, 2015, 142, 144201.	3.0	18
23	Chirped-pulse millimeter-wave spectroscopy for dynamics and kinetics studies of pyrolysis reactions. Physical Chemistry Chemical Physics, 2014, 16, 15739-15751.	2.8	54
24	A chirped-pulse Fourier-transform microwave/pulsed uniform flow spectrometer. II. Performance and applications for reaction dynamics. Journal of Chemical Physics, 2014, 141, 214203.	3.0	54
25	Full dimensional Franck-Condon factors for the acetylene à 1Auâ€"X̃ Σg+1 transition. II. Vibrational overlap factors for levels involving excitation in ungerade modes. Journal of Chemical Physics, 2014, 134305.	3.0	8
26	Full dimensional Franck-Condon factors for the acetylene $\widehat{Alf}\ 1$ Auâ $\in$ "X $\widehat{lf}\ 1$ Eg+1 transition. I. Method for calculating polyatomic linearâ $\in$ "bent vibrational intensity factors and evaluation of calculated intensities for the gerade vibrational modes in acetylene. Journal of Chemical Physics, 2014, 141, 134304.	3.0	9
27	A chirped-pulse Fourier-transform microwave/pulsed uniform flow spectrometer. I. The low-temperature flow system. Journal of Chemical Physics, 2014, 141, 154202.	3.0	46
28	A new approach toward transition state spectroscopy. Faraday Discussions, 2013, 163, 33.	3.2	39
29	Laser-Induced Fluorescence Study of the S <sub>1</sub> State of Doubly-Substituted <sup>13</sup> C Acetylene and Harmonic Force Field Determination. Journal of Physical Chemistry A, 2013, 117, 13696-13703.	2.5	9
30	Chirped-Pulse Millimeter-Wave Spectroscopy of Rydberg-Rydberg Transitions. Physical Review Letters, 2011, 107, 143001.	7.8	22
31	Design and evaluation of a pulsed-jet chirped-pulse millimeter-wave spectrometer for the 70–102 GHz region. Journal of Chemical Physics, 2011, 135, 024202.	3.0	70
32	Binary and Ternary Complexes Containing α-Cyclodextrin and Bromonaphthalene Derivatives: A Note of Caution in Interpreting UV Absorption Spectral Data. Journal of Physical Chemistry B, 2006, 110, 22510-22516.	2.6	2