

# Joseph Knee

## List of Publications by Year in descending order

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52  
papers

1,474  
citations

331670

21  
h-index

315739

38  
g-index

53  
all docs

53  
docs citations

53  
times ranked

835  
citing authors

#	ARTICLE	IF	CITATIONS
1	High resolution threshold photoelectron spectroscopy of aniline and aniline van der Waals complexes. Journal of Chemical Physics, 1992, 97, 2843-2860.	3.0	130
2	Picosecond monitoring of a chemical reaction in molecular beams: Photofragmentation of R <sup>+</sup> . Journal of Chemical Physics, 1985, 83, 1996-1998.	3.0	127
3	Picosecond photofragment spectroscopy. I. Microcanonical state-to-state rates of the reaction NCNO <sup>+</sup> + CN + NO. Journal of Chemical Physics, 1987, 87, 77-96.	3.0	89
4	Dynamics of high n molecular Rydberg states with application to mass analyzed threshold ionization spectroscopy. Journal of Chemical Physics, 1993, 99, 3133-3136.	3.0	89
5	Picosecond photofragment spectroscopy. III. Vibrational predissociation of van der Waals <sup>TM</sup> clusters. Journal of Chemical Physics, 1987, 87, 115-127.	3.0	79
6	Luminescence spectra and lifetimes of cerium(III) compounds as indicators of solution behavior and radiative efficiency. Inorganic Chemistry, 1988, 27, 1393-1400.	4.0	73
7	Picosecond measurements of vibrational dynamics using pump-probe laser photoelectron spectroscopy. Journal of Chemical Physics, 1990, 93, 4475-4476.	3.0	66
8	The identification of channel three in isolated benzene. Journal of Chemical Physics, 1983, 78, 2091-2092.	3.0	58
9	Dynamics of large molecule Van der Waals complexes studied with ZEKE spectroscopy. Faraday Discussions, 1994, 97, 299.	3.2	57
10	Communication: Frequency shifts of an intramolecular hydrogen bond as a measure of intermolecular hydrogen bond strengths. Journal of Chemical Physics, 2012, 137, 091101.	3.0	57
11	Neutral and cation spectroscopy of fluorene <sup>+</sup> Ar <sub>n</sub> clusters. Journal of Chemical Physics, 1997, 107, 8239-8251.	3.0	44
12	Aniline <sup>+</sup> CH <sub>4</sub> S <sub>1</sub> vibrational dynamics studied with picosecond photoelectron spectroscopy. Journal of Chemical Physics, 1993, 99, 2550-2559.	3.0	43
13	Intramolecular dephasing in pyrazine: Direct picosecond time resolution. Journal of Chemical Physics, 1985, 82, 1042-1043.	3.0	40
14	Spectroscopy and dynamics of the S <sub>1</sub> state of jet-cooled 1-naphthol. The Journal of Physical Chemistry, 1990, 94, 2637-2643.	2.9	40
15	The 1B <sub>2u</sub> <sup>+</sup> 1A <sub>g</sub> two-photon spectra of several isotopes of benzene by supersonic beam <sup>+</sup> multiphoton ionization spectroscopy. Journal of Chemical Physics, 1982, 77, 654-668.	3.0	33
16	Picosecond vibrational dynamics of several S <sub>1</sub> bands in jet-cooled p-difluorobenzene. Journal of Chemical Physics, 1994, 100, 2429-2436.	3.0	32
17	Picosecond mass spectrometry of a collisionless photodissociation reaction. Journal of Chemical Physics, 1985, 82, 4715-4716.	3.0	31
18	Triplet state nonradiative lifetimes of collision-free aniline and aniline <sup>+</sup> argon complexes above the S <sub>1</sub> origin. Journal of Chemical Physics, 1984, 80, 13-17.	3.0	28

#	ARTICLE	IF	CITATIONS
19	Laser photoelectron spectroscopy of 1- and 2-naphthol: relative stability of the cis and trans cation rotamers. <i>Chemical Physics Letters</i> , 1991, 182, 656-662.	2.6	28
20	Conformational energy and dynamics of 9-ethylfluorene. <i>Journal of Chemical Physics</i> , 1999, 110, 3378-3388.	3.0	27
21	Binding energies and dissociation pathways in the aniline-Ar <sub>2</sub> cation complex. <i>Journal of Chemical Physics</i> , 2008, 128, 064311.	3.0	27
22	Molecular Structure and Conformation of Cyclopropylbenzene As Determined by ab Initio Molecular Orbital Calculations, Pulsed-Jet Fourier Transform Microwave Spectroscopic, and Gas-Phase Electron Diffraction Investigations. <i>Journal of Organic Chemistry</i> , 2001, 66, 5840-5845.	3.2	21
23	Nonradiative transitions in collisionless perdeuterobenzene. <i>Journal of Chemical Physics</i> , 1984, 81, 4455-4457.	3.0	19
24	Photoionization spectroscopy of even-parity autoionizing Rydberg states of argon: Experimental and theoretical investigation of Fano profiles and resonance widths. <i>Physical Review A</i> , 2008, 77, .	2.5	17
25	Analysis of the torsional potential of 9,10-dihydrophenanthrene in three electronic states: S <sub>0</sub> , S <sub>1</sub> , and cation ground state. <i>Journal of Chemical Physics</i> , 1993, 99, 38-46.	3.0	16
26	Zero kinetic energy photoelectron spectroscopy of tryptamine and the dissociation pathway of the singly hydrated cation cluster. <i>Journal of Chemical Physics</i> , 2012, 137, 104312.	3.0	16
27	Characterization of two adenosine analogs as fluorescence probes in RNA. <i>Bioorganic Chemistry</i> , 2008, 36, 271-277.	4.1	14
28	Characterization of the Dynamics of an Essential Helix in the U1A Protein by Time-Resolved Fluorescence Measurements. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6122-6130.	2.6	13
29	Applying 6-Methylisoxanthopterin-Enhanced Fluorescence To Examine Protein-DNA Interactions in the Picomolar Range. <i>Biochemistry</i> , 2012, 51, 6847-6859.	2.5	13
30	Dynamics of vibronically excited fluorene-Ar <sub>n</sub> (n=4, 5) clusters. <i>Journal of Chemical Physics</i> , 1998, 108, 9632-9638.	3.0	12
31	Vibrational dynamics of 9-fluorene-methanol using infrared-ultraviolet double-resonance spectroscopy. <i>Journal of Chemical Physics</i> , 2004, 120, 5631-5641.	3.0	12
32	Electronic spectroscopy and dynamics of the monomer and Ar <sub>n</sub> clusters of 9-phenylfluorene. <i>Journal of Chemical Physics</i> , 1998, 109, 7113-7123.	3.0	11
33	3-Ethylindole electronic spectroscopy: S <sub>1</sub> and cation torsional potential surfaces. <i>Journal of Chemical Physics</i> , 2000, 113, 1857-1865.	3.0	11
34	Conformational Analysis and Dynamics of 9-Propylfluorene and 9-Ethylfluorene. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5842-5848.	2.5	11
35	Structure and dynamics of 9-ethylfluorene-Ar <sub>n</sub> van der Waals complexes. <i>Journal of Chemical Physics</i> , 1999, 110, 3389-3397.	3.0	9
36	Communication: Spectroscopic measurement of the binding energy of a carboxylic acid-water dimer. <i>Journal of Chemical Physics</i> , 2012, 136, 171101.	3.0	9

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37	Threshold Ionization Spectroscopy of the Low Frequency Vibrational Modes of Styrene and Trans-Stilbene Cations. <i>Laser Chemistry</i> , 1994, 14, 131-141.	0.5	6
38	Communication: The ionization spectroscopy of mixed carboxylic acid dimers. <i>Journal of Chemical Physics</i> , 2013, 139, 151101.	3.0	6
39	Photophysical Characterization of Enhanced 6-Methylisoxanthopterin Fluorescence in Duplex DNA. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12232-12248.	2.6	6
40	Communication: Physical origins of ionization potential shifts in mixed carboxylic acids and water complexes. <i>Journal of Chemical Physics</i> , 2016, 145, 051101.	3.0	6
41	Quantitative probing of subtle interactions among H-bonds in alpha hydroxy carboxylic acid complexes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24399-24411.	2.8	6
42	Electronic spectroscopy of four conformations of jet-cooled 1,6-dihydroxynaphthalene. <i>The Journal of Physical Chemistry</i> , 1993, 97, 3990-3993.	2.9	5
43	Conformational studies of the neutral and cation of several substituted fluorenes. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 112, 209-219.	1.7	5
44	Electronic and Cationic Spectroscopy of 9-Hydroxy-9-fluorene Carboxylic Acid. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4982-4987.	2.5	5
45	Tryptophol Cation Conformations Studied with ZEKE Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1808-1813.	2.5	4
46	Enhanced avionic sensing based on Wigner's cusp anomalies. <i>Science Advances</i> , 2021, 7, .	10.3	4
47	Cation Spectroscopy and Binding Energy Determination for 1,4-Benzodioxane-Ar1 and -Ar2 Complexes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 6823-6828.	2.5	2
48	Two-color photoexcitation of Rydberg states via an electric quadrupole transition. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 334.	2.1	1
49	Observation of Oligonucleotide Dynamics by means of Fluorescent Nucleoside analog 6MI. <i>Biophysical Journal</i> , 2009, 96, 347a-348a.	0.5	1
50	Influences of the propyl group on the van der Waals structures of 4-propylaniline complexes with one and two argon atoms studied by electronic and cationic spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 034308.	3.0	1
51	Infrared spectroscopy of gas phase alpha hydroxy carboxylic acid homo and hetero dimers. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29601-29609.	2.8	1
52	Electronic Spectroscopy of 2-Phenyl-1,3,2-benzodioxaborole and Its Derivatives: Important Building Blocks of Covalent Organic Frameworks. <i>Journal of Physical Chemistry A</i> , 2020, 124, 529-537.	2.5	1