

# Sang Kyu Kim

## List of Publications by Year in descending order

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74  
papers

1,734  
citations

304602

22  
h-index

302012

39  
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76  
all docs

76  
docs citations

76  
times ranked

1654  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic role of the correlation effect revealed in the exceptionally slow autodetachment rates of the vibrational Feshbach resonances in the dipole-bound state. <i>Chemical Science</i> , 2022, 13, 2714-2720.	3.7	7
2	Non-Born-Oppenheimer effects in molecular photochemistry: an experimental perspective. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20200376.	1.6	4
3	Tunneling dynamics dictated by the multidimensional conical intersection seam in the $\tilde{E}^1_f$ -mediated photochemistry of heteroaromatic molecules. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 150-164.	1.0	5
4	Mode-Specific Autodetachment Dynamics of an Excited Non-valence Quadrupole-Bound State. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1947-1954.	2.1	12
5	Conformer-Specific Tunneling Dynamics Dictated by the Seam Coordinate of the Conical Intersection. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1854-1861.	2.1	9
6	Improved spectral resolution of the femtosecond stimulated Raman spectroscopy achieved by the use of the 2nd-order diffraction method. <i>Scientific Reports</i> , 2021, 11, 3361.	1.6	7
7	Femtosecond Wavepacket Dynamics Reveals the Molecular Structures in the Excited ( $S_{11}$ ) and Cationic ( $D_{00}$ ) States. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6629-6635.	1.1	3
8	Recapture of the Nonvalence Excess Electron into the Excited Valence Orbital Leads to the Chemical Bond Cleavage in the Anion. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6383-6388.	2.1	12
9	S <sub>1</sub> -State Decay Dynamics of Benzenediols (Catechol, Resorcinol, and Hydroquinone) and Their 1:1 Water Clusters. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7655-7661.	1.1	5
10	Multiphoton-excited dynamics of the trans or cis structural isomer of 1,2-dibromoethylene. <i>Journal of Chemical Physics</i> , 2021, 155, 164304.	1.2	0
11	Observation of the ponderomotive effect in non-valence bound states of polyatomic molecular anions. <i>Nature Communications</i> , 2021, 12, 7098.	5.8	5
12	Real-Time Observation of Fermi Resonances in the S <sub>1</sub> State of Phenol. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 161-165.	2.1	3
13	Real-Time Tunneling Dynamics through Adiabatic Potential Energy Surfaces Shaped by a Conical Intersection. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6730-6736.	2.1	9
14	Vibration mediated photodissociation dynamics of CH <sub>3</sub> SH: manipulation of the dynamic energy disposal into products. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19713-19717.	1.3	1
15	Experimental Observation of the Autler-Townes Splitting in Polyatomic Molecules. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6791-6795.	2.1	5
16	Real-Time Autodetachment Dynamics of Vibrational Feshbach Resonances in a Dipole-Bound State. <i>Physical Review Letters</i> , 2020, 125, 093001.	2.9	35
17	Role of coherent nuclear motion in the ultrafast intersystem crossing of ruthenium complexes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25811-25818.	1.3	19
18	Conformer Specific Excited-State Structure of 3-Methylthioanisole. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4666-4671.	1.1	3

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19	Multidimensional characterization of the conical intersection seam in the normal mode space. <i>Chemical Science</i> , 2020, 11, 6856-6861.	3.7	6
20	Experimental observation of nonadiabatic bifurcation dynamics at resonances in the continuum. <i>Chemical Science</i> , 2019, 10, 2404-2412.	3.7	16
21	Mode-specific excited-state dynamics of <i>N</i> -methylpyrrole. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14387-14393.	1.3	10
22	Photodissociation Dynamics of Ortho-Substituted Thiophenols at 243 nm. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2634-2639.	1.1	13
23	Multidimensional H Atom Tunneling Dynamics of Phenol: Interplay between Vibrations and Tunneling. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1529-1537.	1.1	20
24	Vibronic structure and predissociation dynamics of 2-methoxythiophenol (S1): The effect of intramolecular hydrogen bonding on nonadiabatic dynamics. <i>Journal of Chemical Physics</i> , 2019, 151, 244305.	1.2	7
25	Spatial Isolation of Conformational Isomers of Hydroquinone and Its Water Cluster Using the Stark Deflector. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1194-1199.	1.1	9
26	Engineering Reaction Kinetics by Tailoring the Metal Tips of Metal-Semiconductor Nanodumbbells. <i>Nano Letters</i> , 2017, 17, 5688-5694.	4.5	31
27	Delayed Triplet-State Formation through Hybrid Charge Transfer Exciton at Copper Phthalocyanine/GaAs Heterojunction. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4763-4768.	2.1	7
28	Conformer specific nonadiabatic reaction dynamics in the photodissociation of partially deuterated thioanisoles ( $C_6H_5S-CH_2D$ and $C_6H_4S-CH_2D_2$ ) at the conical intersection. <i>Journal of Chemical Physics</i> , 2016, 145, 18902-18912.	1.3	10
29	Femtosecond-Resolved Excited State Relaxation Dynamics of Copper (II) Tetraphenylporphyrin (CuTPP) After Soret Band Excitation. <i>Scientific Reports</i> , 2017, 7, 16865.	1.6	10
30	Real-Time Observation of Nonadiabatic Bifurcation Dynamics at a Conical Intersection. <i>Journal of the American Chemical Society</i> , 2017, 139, 17152-17158.	6.6	34
31	Nonplanar structure of $C_6H_5SCF_3$ facilitates $\tilde{\pi}\tilde{\sigma}^*$ -mediated photodissociation reaction on the S1 state. <i>Chemical Physics Letters</i> , 2016, 659, 43-47.	1.2	4
32	( $\tilde{\pi}\tilde{\sigma}^*/\tilde{\pi}\tilde{\sigma}^*$ ) Conical Intersection Seam Experimentally Observed in the C-D Bond Dissociation Reaction of Thiophenol- $d_1$ . <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3202-3208.	2.1	33
33	Structure and dynamic role of conical intersections in the $\tilde{\pi}\tilde{\sigma}^*$ -mediated photodissociation reactions. <i>International Reviews in Physical Chemistry</i> , 2015, 34, 429-459.	0.9	28
34	Conical intersection seam and bound resonances embedded in continuum observed in the photodissociation of thioanisole- $d_3$ . <i>Journal of Chemical Physics</i> , 2014, 140, 054307.	1.2	26
35	Vibronic structures and dynamics of the predissociating dimethyl sulfide and its isotopomers ( $CH_3SCH_3$ , $CD_3SCD_3$ , $CH_3SCD_3$ ) at the conical intersection. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8949.	1.3	10
36	Dynamic Role of the Intramolecular Hydrogen Bonding in Nonadiabatic Chemistry Revealed in the UV Photodissociation Reactions of 2-Fluorothiophenol and 2-Chlorothiophenol. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6940-6949.	1.1	23

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37	Spectroscopic Separation of the Methyl Internal-Rotational Isomers of Thioanisole Isotopomers (C <sub>6</sub> H <sub>5</sub> S-CH <sub>2</sub> D and C <sub>6</sub> H <sub>5</sub> S-CHD <sub>2</sub> ). <i>Journal of Physical Chemistry A</i> , 2014, 118, 1850-1857.	1.1	9
38	Spectroscopic study on nonradiative transition and ionization of 5-methylpyrimidine at S <sub>1</sub> probed by the slow-electron velocity-map imaging (SEVI) technique. <i>Chemical Physics Letters</i> , 2013, 568-569, 36-41.	1.2	1
39	Chemical Substitution Effect on Energetic and Structural Differences between Ground and First Electronically Excited States of Thiophenoxyl Radicals. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 415-420.	1.0	1
40	Nuclear motion captured by the slow electron velocity imaging technique in the tunnelling predissociation of the S <sub>1</sub> methylamine. <i>Journal of Chemical Physics</i> , 2012, 136, 024306.	1.2	19
41	Vacuum ultraviolet mass-analyzed threshold ionization spectroscopy of methylcyclohexane in the supersonic jet. <i>Chemical Physics Letters</i> , 2011, 518, 38-43.	1.2	5
42	Dinuclear Iridium(III) Complexes Linked by a Bis(Î²-ketonato) Bridging Ligand: Energy Convergence versus Aggregation-Induced Emission. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3642-3651.	1.0	49
43	Mode-Dependent Fano Resonances Observed in the Predissociation of Diazirine in the S <sub>1</sub> State. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1244-1247.	7.2	12
44	Experimental probing of conical intersection dynamics in the photodissociation of thioanisole. <i>Nature Chemistry</i> , 2010, 2, 627-632.	6.6	120
45	Conformer-Specific Ionization Spectroscopy of Bromocyclohexane: Equatorial versus Axial Conformers. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10005-10010.	1.1	7
46	Photodissociation Dynamics of Thiophenol- <i>d</i> <sub>1</sub> : The Nature of Excited Electronic States along the S-H Bond Dissociation Coordinate. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10410-10416.	1.1	49
47	Structure of Pyridazine in the S <sub>1</sub> State: Experiment and Theory. <i>ChemPhysChem</i> , 2008, 9, 1610-1616.	1.0	5
48	Control of Intramolecular Orbital Alignment in the Photodissociation of Thiophenol: Conformational Manipulation by Chemical Substitution. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1853-1856.	7.2	55
49	Inside Cover: Control of Intramolecular Orbital Alignment in the Photodissociation of Thiophenol: Conformational Manipulation by Chemical Substitution ( <i>Angew. Chem. Int. Ed.</i> 10/2008). <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1790-1790.	7.2	1
50	One-photon ionization spectroscopy of jet-cooled oxazole and thiazole: the role of oxygen and sulfur in the Î€-conjugation of heterocyclic compounds. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3883.	1.3	10
51	State-selective predissociation dynamics of methylamines: The vibronic and Hâ-D effects on the conical intersection dynamics. <i>Journal of Chemical Physics</i> , 2008, 128, 224305.	1.2	43
52	Pulsed-field ionization spectroscopy of high Rydberg states (n=50-200) of bis(Î-6-benzene)chromium. <i>Journal of Chemical Physics</i> , 2007, 126, 034308.	1.2	23
53	Experimental and theoretical study of the photodissociation reaction of thiophenol at 243nm: Intramolecular orbital alignment of the phenylthyl radical. <i>Journal of Chemical Physics</i> , 2007, 126, 034306.	1.2	65
54	A highly conformationally specific Î±- and Î²-Ala+decarboxylation pathway. <i>Chemical Communications</i> , 2007, 1041-1043.	2.2	21

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55	Nonadiabatic dynamics in the photodissociation of ICH <sub>2</sub> CN at 266 and 304nm studied by the velocity map imaging. <i>Journal of Chemical Physics</i> , 2006, 124, 124307.	1.2	12
56	Vacuum-ultraviolet ionization spectroscopy of the jet-cooled RNA-base uracil. <i>Chemical Communications</i> , 2006, , 78-79.	2.2	15
57	Vibrational Spectroscopy of the Pyridazine Cation in the Ground State. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2634-2638.	1.1	13
58	Intramolecular Orbital Alignment Observed in the Photodissociation of [D1]Thiophenol. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6290-6293.	7.2	49
59	Ionization Spectroscopy of a DNA Base: Vacuum-Ultraviolet Mass-Analyzed Threshold Ionization Spectroscopy of Jet-Cooled Thymine. <i>Journal of the American Chemical Society</i> , 2005, 127, 15674-15675.	6.6	60
60	Structural Distortion of Pyridazine in the $1(n, \pi^*)$ Excited State: Evidence for Local Excitation. <i>ChemPhysChem</i> , 2004, 5, 737-739.	1.0	16
61	Preparation of Size-Controlled TiO <sub>2</sub> Nanoparticles and Derivation of Optically Transparent Photocatalytic Films. <i>Chemistry of Materials</i> , 2003, 15, 3326-3331.	3.2	281
62	Spectroscopy and dynamics of methylamine. II. Rotational and vibrational structures of CH <sub>3</sub> NH <sub>2</sub> and CH <sub>3</sub> ND <sub>2</sub> in cationic D <sub>0</sub> states. <i>Journal of Chemical Physics</i> , 2003, 118, 11040-11047.	1.2	22
63	Spectroscopy and dynamics of methylamine. I. Rotational and vibrational structures of CH <sub>3</sub> NH <sub>2</sub> and CH <sub>3</sub> ND <sub>2</sub> in $\tilde{A}f$ states. <i>Journal of Chemical Physics</i> , 2003, 118, 11026-11039.	1.2	42
64	Femtosecond photoelectron imaging of pyridazine: S <sub>1</sub> lifetime and (3s( $n\tilde{a}^{\sim}1$ ), 3p( $n\tilde{a}^{\sim}1$ )) Rydberg state energetics. <i>Journal of Chemical Physics</i> , 2003, 119, 300-303.	1.2	26
65	Resonant-enhanced two photon ionization and mass-analyzed threshold ionization spectroscopy of jet-cooled 2-aminopyridines (2AP $\hat{a}$ €“NH <sub>2</sub> , $\hat{a}$ €“NHD, $\hat{a}$ €“NDH, $\hat{a}$ €“ND <sub>2</sub> ). <i>Journal of Chemical Physics</i> , 2002, 117, 2131-2140.	1.2	27
66	Vibrational structures of predissociating methylamines (CH <sub>3</sub> NH <sub>2</sub> and CH <sub>3</sub> ND <sub>2</sub> ) in $\tilde{A}f$ states: Free internal rotation of CH <sub>3</sub> with respect to NH <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2002, 117, 10057-10060.	1.2	22
67	Observation of conformation-specific pathways in the photodissociation of 1-iodopropane ions. <i>Nature</i> , 2002, 415, 306-308.	13.7	127
68	Supersonic Jet Spectroscopic Study of p-Methoxybenzyl Alcohol. <i>Journal of Physical Chemistry A</i> , 2000, 104, 10173-10178.	1.1	1
69	Unimolecular Dissociation Dynamics of Vinyl Chloride on the Ground Potential Energy Surface: The Method of Excitation and Product State Distributions of HCl and Cl Fragments. <i>Journal of Physical Chemistry A</i> , 2000, 104, 10482-10488.	1.1	4
70	The OH Product State Distribution from the Photodissociation of Hexafluoroacetylacetone. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4352-4355.	1.1	12
71	Fluorescence excitation spectroscopic study of the jet-cooled acetyl cyanide. <i>Journal of Chemical Physics</i> , 1999, 110, 7185-7191.	1.2	13
72	Photodissociation dynamics of acetylacetone: The OH product state distribution. <i>Journal of Chemical Physics</i> , 1999, 110, 11850-11855.	1.2	41

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73	Unexpectedly large O37ClO/O35ClO intensity ratios of the fluorescence from the low-energy vibrational levels of OClO ( $\tilde{A}^1\tilde{A}_2$ ). Journal of Chemical Physics, 1999, 111, 456-459.	1.2	5
74	Fluorescence Excitation Spectrum of OClO ( $\tilde{A}^1\tilde{A}_2$ ). Journal of Physical Chemistry A, 1999, 103, 2097-2099.	1.1	5