Sang Kyu Kim

List of Publications by Year
in descending order

74 papers	1,734 citations	304602 22 h-index	302012 39 g-index
76 all docs	76 docs citations	76 times ranked	1654 citing authors

#	Article	IF	Citations
1	Preparation of Size-Controlled TiO2Nanoparticles and Derivation of Optically Transparent Photocatalytic Films. Chemistry of Materials, 2003, 15, 3326-3331.	3.2	281
2	Observation of conformation-specific pathways in the photodissociation of 1-iodopropane ions. Nature, 2002, 415, 306-308.	13.7	127
3	Experimental probing of conical intersection dynamics in the photodissociation of thioanisole. Nature Chemistry, 2010, 2, 627-632.	6.6	120
4	Experimental and theoretical study of the photodissociation reaction of thiophenol at 243nm: Intramolecular orbital alignment of the phenylthiyl radical. Journal of Chemical Physics, 2007, 126, 034306.	1.2	65
5	Ionization Spectroscopy of a DNA Base:Â Vacuum-Ultraviolet Mass-Analyzed Threshold Ionization Spectroscopy of Jet-Cooled Thymine. Journal of the American Chemical Society, 2005, 127, 15674-15675.	6.6	60
6	Control of Intramolecular Orbital Alignment in the Photodissociation of Thiophenol: Conformational Manipulation by Chemical Substitution. Angewandte Chemie - International Edition, 2008, 47, 1853-1856.	7.2	55
7	Intramolecular Orbital Alignment Observed in the Photodissociation of [D1]Thiophenol. Angewandte Chemie - International Edition, 2006, 45, 6290-6293.	7.2	49
8	Photodissociation Dynamics of Thiophenol-d₁: The Nature of Excited Electronic States along the Sâ^'D Bond Dissociation Coordinate. Journal of Physical Chemistry A, 2009, 113, 10410-10416.	1.1	49
9	Dinuclear Iridium(III) Complexes Linked by a Bis(Î²â€diketonato) Bridging Ligand: Energy Convergence versus Aggregationâ€Induced Emission. European Journal of Inorganic Chemistry, 2010, 2010, 3642-3651.	1.0	49
10	State-selective predissociation dynamics of methylamines: The vibronic and Hâ•D effects on the conical intersection dynamics. Journal of Chemical Physics, 2008, 128, 224305.	1.2	43
11	Spectroscopy and dynamics of methylamine. I. Rotational and vibrational structures of CH3NH2 and CH3ND2 in Ãƒ states. Journal of Chemical Physics, 2003, 118, 11026-11039.	1.2	42
12	Photodissociation dynamics of acetylacetone: The OH product state distribution. Journal of Chemical Physics, 1999, 110, 11850-11855.	1.2	41
13	Real-Time Autodetachment Dynamics of Vibrational Feshbach Resonances in a Dipole-Bound State. Physical Review Letters, 2020, 125, 093001.	2.9	35
14	Real-Time Observation of Nonadiabatic Bifurcation Dynamics at a Conical Intersection. Journal of the American Chemical Society, 2017, 139, 17152-17158.	6.6	34
15	(Ï€Ï€*/Ï€Ïƒ*) Conical Intersection Seam Experimentally Observed in the Sâ€“D Bond Dissociation Reaction of Thiophenol-d₁. Journal of Physical Chemistry Letters, 2015, 6, 3202-3208.	2.1	33
16	Engineering Reaction Kinetics by Tailoring the Metal Tips of Metalâ€“Semiconductor Nanodumbbells. Nano Letters, 2017, 17, 5688-5694.	4.5	31
17	Structure and dynamic role of conical intersections in the Ï€Ïƒ*-mediated photodissociation reactions. International Reviews in Physical Chemistry, 2015, 34, 429-459.	0.9	28
18	Resonant-enhanced two photon ionization and mass-analyzed threshold ionization spectroscopy of jet-cooled 2-aminopyridines (2APâ€“NH2,â€“NHD,â€“NDH,â€“ND2). Journal of Chemical Physics, 2002, 117, 2131-2140.	1.2	27

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19	Femtosecond photoelectron imaging of pyridazine: S1 lifetime and (3s(nâˆ’1),3p(nâˆ’1)) Rydberg state energetics. Journal of Chemical Physics, 2003, 119, 300-303.	1.2	26
20	Conical intersection seam and bound resonances embedded in continuum observed in the photodissociation of thioanisole-d3. Journal of Chemical Physics, 2014, 140, 054307.	1.2	26
21	Pulsed-field ionization spectroscopy of high Rydberg states (n=50â€“200) of bis(Î·6-benzene)chromium. Journal of Chemical Physics, 2007, 126, 034308.	1.2	23
22	Dynamic Role of the Intramolecular Hydrogen Bonding in Nonadiabatic Chemistry Revealed in the UV Photodissociation Reactions of 2-Fluorothiophenol and 2-Chlorothiophenol. Journal of Physical Chemistry A, 2014, 118, 6940-6949.	1.1	23
23	Vibrational structures of predissociating methylamines (CH3NH2 and CH3ND2) in Ãƒ states: Free internal rotation of CH3 with respect to NH2. Journal of Chemical Physics, 2002, 117, 10057-10060.	1.2	22
24	Spectroscopy and dynamics of methylamine. II. Rotational and vibrational structures of CH3NH2 and CH3ND2 in cationic D0 states. Journal of Chemical Physics, 2003, 118, 11040-11047.	1.2	22
25	A highly conformationally specific Î±- and Î²-Ala+decarboxylation pathway. Chemical Communications, 2007, , 1041-1043.	2.2	21
26	Multidimensional H Atom Tunneling Dynamics of Phenol: Interplay between Vibrations and Tunneling. Journal of Physical Chemistry A, 2019, 123, 1529-1537.	1.1	20
27	Nuclear motion captured by the slow electron velocity imaging technique in the tunnelling predissociation of the S1 methylamine. Journal of Chemical Physics, 2012, 136, 024306.	1.2	19
28	Role of coherent nuclear motion in the ultrafast intersystem crossing of ruthenium complexes. Physical Chemistry Chemical Physics, 2020, 22, 25811-25818.	1.3	19
29	Structural Distortion of Pyridazine in the1(n,Ï€*) Excited State: Evidence for Local Excitation. ChemPhysChem, 2004, 5, 737-739.	1.0	16
30	Experimental observation of nonadiabatic bifurcation dynamics at resonances in the continuum. Chemical Science, 2019, 10, 2404-2412.	3.7	16
31	Vacuum-ultraviolet ionization spectroscopy of the jet-cooled RNA-base uracil. Chemical Communications, 2006, , 78-79.	2.2	15
32	Fluorescence excitation spectroscopic study of the jet-cooled acetyl cyanide. Journal of Chemical Physics, 1999, 110, 7185-7191.	1.2	13
33	Vibrational Spectroscopy of the Pyridazine Cation in the Ground State. Journal of Physical Chemistry A, 2006, 110, 2634-2638.	1.1	13
34	Photodissociation Dynamics of Ortho-Substituted Thiophenols at 243 nm. Journal of Physical Chemistry A, 2019, 123, 2634-2639.	1.1	13
35	The OH Product State Distribution from the Photodissociation of Hexafluoroacetylacetone. Journal of Physical Chemistry A, 2000, 104, 4352-4355.	1.1	12
36	Nonadiabatic dynamics in the photodissociation of ICH2CN at 266 and 304nm studied by the velocity map imaging. Journal of Chemical Physics, 2006, 124, 124307.	1.2	12

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37	Modeâ€Dependent Fano Resonances Observed in the Predissociation of Diazirine in the S₁â€...State. Angewandte Chemie - International Edition, 2010, 49, 1244-1247.	7.2	12
38	Mode-Specific Autodetachment Dynamics of an Excited Non-valence Quadrupole-Bound State. Journal of Physical Chemistry Letters, 2021, 12, 1947-1954.	2.1	12
39	Recapture of the Nonvalence Excess Electron into the Excited Valence Orbital Leads to the Chemical Bond Cleavage in the Anion. Journal of Physical Chemistry Letters, 2021, 12, 6383-6388.	2.1	12
40	One-photon ionization spectroscopy of jet-cooled oxazole and thiazole: the role of oxygen and sulfur in the Ï€-conjugation of heterocyclic compounds. Physical Chemistry Chemical Physics, 2008, 10, 3883.	1.3	10
41	Vibronic structures and dynamics of the predissociating dimethyl sulfide and its isotopomers (CH3SCH3, CD3SCD3, CH3SCD3) at the conical intersection. Physical Chemistry Chemical Physics, 2014, 16, 8949.	1.3	10
42	Conformer specific nonadiabatic reaction dynamics in the photodissociation of partially deuterated thioanisoles (C₆H₅S-CH₂D and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (C₆H 18902-18912.	1.3	10
43	Femtosecond-Resolved Excited State Relaxation Dynamics of Copper (II) Tetraphenylporphyrin (CuTPP) After Soret Band Excitation. Scientific Reports, 2017, 7, 16865.	1.6	10
44	Mode-specific excited-state dynamics of N-methylpyrrole. Physical Chemistry Chemical Physics, 2019, 21, 14387-14393.	1.3	10
45	Spectroscopic Separation of the Methyl Internal-Rotational Isomers of Thioanisole Isotopomers (C6H5S-CH2D and C6H5S-CHD2). Journal of Physical Chemistry A, 2014, 118, 1850-1857.	1.1	9
46	Spatial Isolation of Conformational Isomers of Hydroquinone and Its Water Cluster Using the Stark Deflector. Journal of Physical Chemistry A, 2018, 122, 1194-1199.	1.1	9
47	Real-Time Tunneling Dynamics through Adiabatic Potential Energy Surfaces Shaped by a Conical Intersection. Journal of Physical Chemistry Letters, 2020, 11, 6730-6736.	2.1	9
48	Conformer-Specific Tunneling Dynamics Dictated by the Seam Coordinate of the Conical Intersection. Journal of Physical Chemistry Letters, 2021, 12, 1854-1861.	2.1	9
49	Conformer-Specific Ionization Spectroscopy of Bromocyclohexane: Equatorial versus Axial Conformers. Journal of Physical Chemistry A, 2010, 114, 10005-10010.	1.1	7
50	Delayed Triplet-State Formation through Hybrid Charge Transfer Exciton at Copper Phthalocyanine/GaAs Heterojunction. Journal of Physical Chemistry Letters, 2017, 8, 4763-4768.	2.1	7
51	Improved spectral resolution of the femtosecond stimulated Raman spectroscopy achieved by the use of the 2nd-order diffraction method. Scientific Reports, 2021, 11, 3361.	1.6	7
52	Vibronic structure and predissociation dynamics of 2-methoxythiophenol (S1): The effect of intramolecular hydrogen bonding on nonadiabatic dynamics. Journal of Chemical Physics, 2019, 151, 244305.	1.2	7
53	Dynamic role of the correlation effect revealed in the exceptionally slow autodetachment rates of the vibrational Feshbach resonances in the dipole-bound state. Chemical Science, 2022, 13, 2714-2720.	3.7	7
54	Multidimensional characterization of the conical intersection seam in the normal mode space. Chemical Science, 2020, 11, 6856-6861.	3.7	6

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55	Unexpectedly large O37ClO/O35ClO intensity ratios of the fluorescence from the low-energy vibrational levels of OClO (Ãƒâ€Š2A2). Journal of Chemical Physics, 1999, 111, 456-459.	1.2	5
56	Fluorescence Excitation Spectrum of OClO (Ãƒ2A2). Journal of Physical Chemistry A, 1999, 103, 2097-2099.	1.1	5
57	Structure of Pyridazine in the S₁ State: Experiment and Theory. ChemPhysChem, 2008, 9, 1610-1616.	1.0	5
58	Vacuum ultraviolet mass-analyzed threshold ionization spectroscopy of methylcyclohexane in the supersonic jet. Chemical Physics Letters, 2011, 518, 38-43.	1.2	5
59	Experimental Observation of the Autlerâ€“Townes Splitting in Polyatomic Molecules. Journal of Physical Chemistry Letters, 2020, 11, 6791-6795.	2.1	5
60	S1-State Decay Dynamics of Benzenediols (Catechol, Resorcinol, and Hydroquinone) and Their 1:1 Water Clusters. Journal of Physical Chemistry A, 2021, 125, 7655-7661.	1.1	5
61	Tunneling dynamics dictated by the multidimensional conical intersection seam in the Ï€Ïƒ*â€mediated photochemistry of heteroaromatic molecules. Bulletin of the Korean Chemical Society, 2022, 43, 150-164.	1.0	5
62	Observation of the ponderomotive effect in non-valence bound states of polyatomic molecular anions. Nature Communications, 2021, 12, 7098.	5.8	5
63	Unimolecular Dissociation Dynamics of Vinyl Chloride on the Ground Potential Energy Surface:Â The Method of Excitation and Product State Distributions of HCl and Cl Fragmentsâ€. Journal of Physical Chemistry A, 2000, 104, 10482-10488.	1.1	4
64	Nonplanar structure of C6H5SCF3 facilitates Ï€Ïƒâˆ—-mediated photodissociation reaction on the S1 state. Chemical Physics Letters, 2016, 659, 43-47.	1.2	4
65	Non-Bornâ€“Oppenheimer effects in molecular photochemistry: an experimental perspective. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200376.	1.6	4
66	Real-Time Observation of Fermi Resonances in the S1 State of Phenol. Journal of Physical Chemistry Letters, 2020, 11, 161-165.	2.1	3
67	Conformer Specific Excited-State Structure of 3-Methylthioanisole. Journal of Physical Chemistry A, 2020, 124, 4666-4671.	1.1	3
68	Femtosecond Wavepacket Dynamics Reveals the Molecular Structures in the Excited (S₁) and Cationic (D₀) States. Journal of Physical Chemistry A, 2021, 125, 6629-6635.	1.1	3
69	Supersonic Jet Spectroscopic Study ofp-Methoxybenzyl Alcoholâ€. Journal of Physical Chemistry A, 2000, 104, 10173-10178.	1.1	1
70	Inside Cover: Control of Intramolecular Orbital Alignment in the Photodissociation of Thiophenol: Conformational Manipulation by Chemical Substitution (Angew. Chem. Int. Ed. 10/2008). Angewandte Chemie - International Edition, 2008, 47, 1790-1790.	7.2	1
71	Spectroscopic study on nonradiative transition and ionization of 5-methylpyrimidine at S1 probed by the slow-electron velocity-map imaging (SEVI) technique. Chemical Physics Letters, 2013, 568-569, 36-41.	1.2	1
72	Vibration mediated photodissociation dynamics of CH₃SH: manipulation of the dynamic energy disposal into products. Physical Chemistry Chemical Physics, 2020, 22, 19713-19717.	1.3	1

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73	Chemical Substitution Effect on Energetic and Structural Differences between Ground and First Electronically Excited States of Thiophenoxyl Radicals. Bulletin of the Korean Chemical Society, 2013, 34, 415-420.	1.0	1
74	Multiphoton-excited dynamics of the trans or cis structural isomer of 1,2-dibromoethylene. Journal of Chemical Physics, 2021, 155, 164304.	1.2	0