

Seong Keun Kim

List of Publications by Year in descending order

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96
papers

3,802
citations

147801

31
h-index

128289

60
g-index

100
all docs

100
docs citations

100
times ranked

5406
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic Lifetimes of the Excited State of DNA and RNA Bases. <i>Journal of the American Chemical Society</i> , 2002, 124, 12958-12959.	13.7	355
2	Band-gap transition induced by interlayer van der Waals interaction in MoS ₂ . <i>Physical Review B</i> , 2011, 84, .	3.2	333
3	Photophysical Properties of Long Rodlike Meso-Linked Zinc(II) Porphyrins Investigated by Time-Resolved Laser Spectroscopic Methods. <i>Journal of the American Chemical Society</i> , 2001, 123, 76-86.	13.7	235
4	Three-Color Alternating-Laser Excitation of Single Molecules: Monitoring Multiple Interactions and Distances. <i>Biophysical Journal</i> , 2007, 92, 303-312.	0.5	179
5	Mechanism for ultrafast internal conversion of adenine. <i>Journal of Chemical Physics</i> , 2003, 118, 6717-6719.	3.0	146
6	Incorporation of bridged nucleic acids into CRISPR RNAs improves Cas9 endonuclease specificity. <i>Nature Communications</i> , 2018, 9, 1448.	12.8	136
7	Low-lying electronically excited states of C60 and C70 and measurement of their picosecond transient absorption in solution. <i>Chemical Physics Letters</i> , 1992, 196, 325-329.	2.6	116
8	Metastable Dark States Enable Ground State Depletion Microscopy of Nitrogen Vacancy Centers in Diamond with Diffraction-Unlimited Resolution. <i>Nano Letters</i> , 2010, 10, 3199-3203.	9.1	116
9	Ultrafast Energy Relaxation Dynamics of Directly Linked Porphyrin Arrays. <i>Journal of Physical Chemistry A</i> , 2000, 104, 3287-3298.	2.5	108
10	Structural roles of guide RNAs in the nuclease activity of Cas9 endonuclease. <i>Nature Communications</i> , 2016, 7, 13350.	12.8	94
11	Selective thiolation of single-walled carbon nanotubes. <i>Synthetic Metals</i> , 2003, 139, 521-527.	3.9	87
12	Excited-State Energy Transfer Processes in Phenylene- and Biphenylene-Linked and Directly-Linked Zinc(II) and Free-Base Hybrid Diporphyrins. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4200-4210.	2.5	86
13	Anomalous Fragmentation of Hydrated Clusters of DNA Base Adenine in UV Photoionization. <i>Journal of Physical Chemistry A</i> , 2000, 104, 6552-6557.	2.5	80
14	Ab initio studies on the van der Waals complexes of polycyclic aromatic hydrocarbons. II. Naphthalene dimer and naphthalene-anthracene complex. <i>Journal of Chemical Physics</i> , 2002, 116, 7910-7917.	3.0	79
15	A highly stable and efficient carbon electrode-based perovskite solar cell achieved via interfacial growth of 2D PEA ₂ PbI ₄ perovskite. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24560-24568.	10.3	76
16	Superfast Room-Temperature Activation of SnO ₂ Thin Films via Atmospheric Plasma Oxidation and their Application in Planar Perovskite Photovoltaics. <i>Advanced Materials</i> , 2018, 30, 1704825.	21.0	73
17	Large Grain-Based Hole-Blocking Layer-Free Planar-Type Perovskite Solar Cell with Best Efficiency of 18.20%. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8113-8120.	8.0	72
18	Target-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranes. <i>Biomaterials</i> , 2015, 45, 81-92.	11.4	69

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19	Synergistic Effects of Cation and Anion in an Ionic Imidazolium Tetrafluoroborate Additive for Improving the Efficiency and Stability of Half-Mixed Pb-Sn Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2008801.	14.9	66
20	Conformation-Dependent Ionization Energies of L-Phenylalanine. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4114-4117.	13.8	65
21	Size effects of a graphene quantum dot modified-blocking TiO ₂ layer for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16834-16842.	10.3	65
22	Photodetachment of aryl moieties from covalently functionalized single-walled carbon nanotubes by UV laser irradiation. <i>Journal of Materials Chemistry</i> , 2006, 16, 2374.	6.7	57
23	Folding of 8-17 Deoxyribozyme Studied by Three-Color Alternating-Laser Excitation of Single Molecules. <i>Journal of the American Chemical Society</i> , 2007, 129, 15526-15534.	13.7	52
24	Outstanding Performance of Hole-Blocking Layer-Free Perovskite Solar Cell Using Hierarchically Porous Fluorine-Doped Tin Oxide Substrate. <i>Advanced Energy Materials</i> , 2017, 7, 1700749.	19.5	50
25	Dispersed fluorescence spectroscopy of jet-cooled adenine. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2802.	2.8	47
26	An atomistic mechanism for the degradation of perovskite solar cells by trapped charge. <i>Nanoscale</i> , 2019, 11, 11369-11378.	5.6	45
27	Anion clusters of anthracene, An ⁿ⁻ (n=1-16). <i>Journal of Chemical Physics</i> , 2003, 119, 3071-3077.	3.0	40
28	Ab initio studies on the van der Waals complexes of polycyclic aromatic hydrocarbons. I. Benzene-naphthalene complex. <i>Journal of Chemical Physics</i> , 2002, 116, 7902-7909.	3.0	38
29	Fusion Step-Specific Influence of Cholesterol on SNARE-Mediated Membrane Fusion. <i>Biophysical Journal</i> , 2009, 96, 1839-1846.	0.5	34
30	Target Specificity of Cas9 Nuclease via DNA Rearrangement Regulated by the REC2 Domain. <i>Journal of the American Chemical Society</i> , 2018, 140, 7778-7781.	13.7	34
31	RESOLFT nanoscopy with photoswitchable organic fluorophores. <i>Scientific Reports</i> , 2015, 5, 17804.	3.3	33
32	Efficient and moisture-resistant hole transport layer for inverted perovskite solar cells using solution-processed polyaniline. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6250-6256.	5.5	32
33	Photoelectron spectroscopy and ab initio study of mixed cluster anions of [(CO) ₂ (Pyridine) ₆] ⁻ : Formation of a covalently bonded anion core of (C ₅ H ₅ N-CO) ⁻ . <i>Journal of Chemical Physics</i> , 2000, 113, 596-601.	3.0	31
34	Highly Efficient Hole Transport Layer-Free Low Bandgap Mixed Pb-Sn Perovskite Solar Cells Enabled by a Binary Additive System. <i>Advanced Functional Materials</i> , 2022, 32, 2110069.	14.9	30
35	Associative-Electron Attachment to Azabenzene (CO) ₂ van der Waals Complexes: Stepwise Formation of Covalent Bonds with Additive Electron Affinities. <i>Journal of the American Chemical Society</i> , 2008, 130, 16241-16244.	13.7	29
36	Highly Crystalline Perovskite-Based Photovoltaics via Two-Dimensional Liquid Cage Annealing Strategy. <i>Journal of the American Chemical Society</i> , 2019, 141, 5808-5814.	13.7	29

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37	Photoelectron spectroscopy of pyridine cluster anions, (Py) _n ⁻ (n=4-13). Journal of Chemical Physics, 1999, 111, 4041-4050.	3.0	28
38	Solvent migration from the C- to the N-terminus of amino acid in photoionization of phenylglycine-water complex. Journal of Chemical Physics, 2008, 128, 041104.	3.0	27
39	Photoelectron spectroscopy of pyrazine anion clusters. Journal of Chemical Physics, 2002, 117, 1589-1594.	3.0	25
40	Abnormal spatial heterogeneity governing the charge-carrier mechanism in efficient Ruddlesden-Popper perovskite solar cells. Energy and Environmental Science, 2021, 14, 4915-4925.	30.8	24
41	Degradation of CH ₃ NH ₃ PbI ₃ perovskite materials by localized charges and its polarity dependency. Journal of Materials Chemistry A, 2019, 7, 12075-12085.	10.3	23
42	Ultrasensitive Near-Infrared Circularly Polarized Light Detection Using 3D Perovskite Embedded with Chiral Plasmonic Nanoparticles. Advanced Science, 2022, 9, e2104598.	11.2	23
43	Fluorine plasma treatment on carbon-based perovskite solar cells for rapid moisture protection layer formation and performance enhancement. Chemical Communications, 2020, 56, 535-538.	4.1	22
44	Flexibility of single-stranded DNA measured by single-molecule FRET. Biophysical Chemistry, 2014, 195, 49-52.	2.8	21
45	Simultaneous observation of dipole-bound and valence electron states in pyridine tetramer anion. Journal of Chemical Physics, 1998, 109, 9656-9659.	3.0	20
46	Molecular beam resonant two-photon ionization study of caffeine and its hydrated clusters. Journal of Chemical Physics, 2008, 128, 134310.	3.0	16
47	Shedding new light on an old molecule: quinophthalone displays uncommon N-to-O excited state intramolecular proton transfer (ESIPT) between photobases. Scientific Reports, 2017, 7, 3863.	3.3	15
48	Highly fluorescent and water soluble turn-on type diarylethene for super-resolution bioimaging over a broad pH range. Dyes and Pigments, 2018, 158, 36-41.	3.7	15
49	Fluorescence Quenching of 4,4'-Dimethoxytriphenylamine-Substituted Diketopyrrolopyrrole via Intramolecular Photoinduced Electron Transfer. Journal of Physical Chemistry C, 2019, 123, 24263-24274.	3.1	15
50	Noncanonical DNA-binding mode of repressor and its disassembly by antirepressor. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2480-8.	7.1	14
51	Time-Resolved Electroluminescence Study for the Effect of Charge Traps on the Luminescence Properties of Organic Light-Emitting Diodes. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000081.	1.8	14
52	High-pressure Raman study of fullerite C ₆₀ . Journal of Raman Spectroscopy, 1992, 23, 311-313.	2.5	13
53	Leucine-induced localization of Leucyl-tRNA synthetase in lysosome membrane. Biochemical and Biophysical Research Communications, 2017, 493, 1129-1135.	2.1	12
54	The naphthalene-benzene anion: Anion complex of aromatic hydrocarbons with the smallest electron affinity. Journal of Chemical Physics, 2002, 117, 9973-9976.	3.0	11

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55	Conformational structures of jet-cooled acetaminophen-water clusters: a gas phase spectroscopic and computational study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4840-4848.	2.8	11
56	Live bio-imaging with fully bio-compatible organic fluorophores. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 166, 52-57.	3.8	11
57	Anionic Activation of CO ₂ via (M _n) ⁺ CO ₂ ⁺ Complex on Magic-Numbered Anionic Coinage Metal Clusters M _n ⁺ (M =) Tj ETC. <i>Appl. Phys. Lett.</i> 10.7814314 rg	1.0	1
58	Photoelectron spectroscopy of s-triazine anion clusters: Polarization-induced electron binding in aza-aromatic molecule. <i>Journal of Chemical Physics</i> , 2003, 119, 4320-4327.	3.0	10
59	Rapid and facile synthesis of a (ZnxAgyInz) ₂ nanocrystal library via sono-combichem method and its characterization including single nanocrystal analysis. <i>Journal of Materials Chemistry</i> , 2012, 22, 11957.	6.7	10
60	Torsion-dependent fluorescence switching of amyloid-binding dye NIAD-4. <i>Chemical Physics Letters</i> , 2015, 633, 109-113.	2.6	10
61	Strain-induced Modulation of Localized Surface Plasmon Resonance in Ultrathin Hexagonal Gold Nanoplates. <i>Advanced Materials</i> , 2021, 33, e2100653.	21.0	10
62	Single-molecule observation of ATP-independent SSB displacement by RecO in <i>Deinococcus radiodurans</i> . <i>ELife</i> , 2020, 9, .	6.0	10
63	Quantitative assessment of engineered Cas9 variants for target specificity enhancement by single-molecule reaction pathway analysis. <i>Nucleic Acids Research</i> , 2021, 49, 11312-11322.	14.5	9
64	Gas-phase CO ₂ activation with single electrons, metal atoms, clusters, and molecules. <i>Journal of Energy Chemistry</i> , 2021, 63, 130-137.	12.9	9
65	Triplet state Raman spectra of C ₆₀ and C ₇₀ . <i>Chemical Physics Letters</i> , 1995, 241, 528-532.	2.6	7
66	Direct and precise length measurement of single, stretched DNA fragments by dynamic molecular combing and STED nanoscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6453-6459.	3.7	7
67	Dynamic interaction of BRCA2 with telomeric G-quadruplexes underlies telomere replication homeostasis. <i>Nature Communications</i> , 2022, 13, .	12.8	7
68	Intracluster photodimerization of thymine: Size-dependent modes of cluster ion fragmentation. <i>Journal of Chemical Physics</i> , 2001, 115, 7002-7005.	3.0	6
69	Ionization-induced proton transfer in thymine-ammonia van der Waals clusters. <i>International Journal of Mass Spectrometry</i> , 2007, 261, 32-37.	1.5	6
70	Hydrated alizarin complexes: hydrogen bonding and proton transfer. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8919.	2.8	6
71	Photoluminescence of C ₆₀ and Its Photofragments in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2002, 106, 5582-5590.	2.5	5
72	Advances in mass spectrometry for biological science. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13366.	2.8	5

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73	Morphological analysis of oligomeric vs. fibrillar forms of β -synuclein aggregates with super-resolution BALM imaging. <i>Chemical Physics Letters</i> , 2017, 690, 62-67.	2.6	5
74	Electrostatic Modification for Promotion of Flavin-Mediated Oxidation of a Probe for Flavin Detection. <i>Chemistry - A European Journal</i> , 2017, 23, 16078-16084.	3.3	5
75	Enhanced Plasmonic Particle Trapping Using a Hybrid Structure of Nanoparticles and Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41655-41663.	8.0	5
76	Electron Attachment to the (O ₂ -CO ₂) van der Waals Complex Results in a Monomeric Anion (O ₂ -CO ₂) ⁻ , a Possible Form of CO ₄ ⁻ . <i>Journal of Physical Chemistry A</i> , 2021, 125, 5794-5799.	2.5	5
77	Conformational study of jet-cooled L-phenylglycine. <i>Journal of Chemical Physics</i> , 2008, 128, 184313.	3.0	4
78	Atomic selectivity in dissociative electron attachment to dihalobenzenes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16503.	2.8	4
79	Ab initio study on anomalous structures of anionic [(N-heterocycle)-CO ₂] ⁻ complexes. <i>Journal of Chemical Physics</i> , 2017, 146, 134304.	3.0	4
80	Site-dependent effects of methylation on the electronic spectra of jet-cooled methylated xanthine compounds. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22375-22384.	2.8	4
81	Incorporation of STED technique into single-molecule spectroscopy to break the concentration limit of diffusing molecules in single-molecule detection. <i>Chemical Communications</i> , 2018, 54, 9667-9670.	4.1	4
82	Discrimination of Degradation Mechanisms for Organic Light-Emitting Diodes by In Situ, Layer-Specific Spectroscopic Analysis. <i>ACS Photonics</i> , 2022, 9, 82-89.	6.6	4
83	Cytosine methylation regulates DNA bendability depending on the curvature. <i>Chemical Science</i> , 2022, 13, 7516-7525.	7.4	4
84	Temperature-dependent Raman study on C70 film. Observation of a rotational ordering transition. <i>Chemical Physics Letters</i> , 1994, 218, 107-114.	2.6	3
85	Anisotropy quantum beat in two-photon ionization of coherently excited hyperfine states of Na. <i>Journal of Chemical Physics</i> , 2001, 115, 739-742.	3.0	3
86	A convenient and efficient purification method for chemically labeled oligonucleotides. <i>BioTechniques</i> , 2013, 54, 280-282.	1.8	3
87	Corrigendum to "Target-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranes" [Biomaterials 45 (2015) 81-92]. <i>Biomaterials</i> , 2015, 65, 124-125.	11.4	3
88	Positive Identification of DNA Cleavage by CRISPR-Cas9 Using Pyrene Excimer Fluorescence to Detect a Subnanometer Structural Change. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6208-6212.	4.6	3
89	Selective thiolation and photoswitching mechanism of Cy5 studied by time-dependent density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14125-14129.	2.8	3
90	Comparative Single-Molecule Kinetic Study for the Effect of Base Methylation on a Model DNA-Protein Interaction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8048-8052.	4.6	2

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91	Single-molecule study of the effects of temperature, pH, and RNA base on the stepwise enzyme kinetics of 10 ⁶ –23 deoxyribozyme. RSC Advances, 2022, 12, 14883-14887.	3.6	2
92	Generation of highly luminescent micro rings by optical irradiation. Chemical Communications, 2017, 53, 7642-7644.	4.1	1
93	Electroporetic Identification Of Cancer Cells By Afm And Fluorescence Techniques. Biophysical Journal, 2009, 96, 644a.	0.5	0
94	Experimental determination of the ratio of partial photoionization cross sections from Na ^{3p} P _{3/2} by polarization anisotropy quantum beats. Molecular Physics, 2012, 110, 1781-1785.	1.7	0
95	General and facile purification of dye-labeled oligonucleotides by pH-controlled extraction. BioTechniques, 2018, 64, 21-23.	1.8	0
96	Department of Chemistry, Seoul National University. Molecular Science, 2008, 2, A0028.	0.2	0