

# Tae Wu Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,169  
citations

471509

17  
h-index

395702

33  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1451  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of bond formation in solution with femtosecond X-ray scattering. <i>Nature</i> , 2015, 518, 385-389.	27.8	207
2	Protein Structural Dynamics of Photoactive Yellow Protein in Solution Revealed by Pump-Probe X-ray Solution Scattering. <i>Journal of the American Chemical Society</i> , 2012, 134, 3145-3153.	13.7	95
3	Ultrafast charge transfer coupled with lattice phonons in two-dimensional covalent organic frameworks. <i>Nature Communications</i> , 2019, 10, 1873.	12.8	93
4	Direct Observation of Cooperative Protein Structural Dynamics of Homodimeric Hemoglobin from 100 ps to 10 ms with Pump-Probe X-ray Solution Scattering. <i>Journal of the American Chemical Society</i> , 2012, 134, 7001-7008.	13.7	82
5	Single-step fabrication of quantum funnels via centrifugal colloidal casting of nanoparticle films. <i>Nature Communications</i> , 2015, 6, 7772.	12.8	68
6	Mapping the emergence of molecular vibrations mediating bond formation. <i>Nature</i> , 2020, 582, 520-524.	27.8	55
7	Protein Structural Dynamics Revealed by Time-Resolved X-ray Solution Scattering. <i>Accounts of Chemical Research</i> , 2015, 48, 2200-2208.	15.6	41
8	Anisotropic Picosecond X-ray Solution Scattering from Photoselectively Aligned Protein Molecules. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 350-356.	4.6	38
9	Protein folding from heterogeneous unfolded state revealed by time-resolved X-ray solution scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14996-15005.	7.1	33
10	Eosin-Y and sulfur-codoped g-C <sub>3</sub> N <sub>4</sub> composite for photocatalytic applications: the regeneration of NADH/NADPH and the oxidation of sulfide to sulfoxide. <i>Catalysis Science and Technology</i> , 2021, 11, 6401-6410.	4.1	29
11	Structural Dynamics of 1,2-Diiodoethane in Cyclohexane Probed by Picosecond X-ray Liquidography. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2713-2722.	2.5	25
12	Ultrafast coherent motion and helix rearrangement of homodimeric hemoglobin visualized with femtosecond X-ray solution scattering. <i>Nature Communications</i> , 2021, 12, 3677.	12.8	25
13	Conformational Substates of Myoglobin Intermediate Resolved by Picosecond X-ray Solution Scattering. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 804-808.	4.6	23
14	Cooperative protein structural dynamics of homodimeric hemoglobin linked to water cluster at subunit interface revealed by time-resolved X-ray solution scattering. <i>Structural Dynamics</i> , 2016, 3, 023610.	2.3	22
15	Combined probes of X-ray scattering and optical spectroscopy reveal how global conformational change is temporally and spatially linked to local structural perturbation in photoactive yellow protein. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8911-8919.	2.8	22
16	Rational design of a graphitic carbon nitride catalytic-biocatalytic system as a photocatalytic platform for solar fine chemical production from CO <sub>2</sub> . <i>Reaction Chemistry and Engineering</i> , 2022, 7, 1566-1572.	3.7	20
17	Sub-100-ps structural dynamics of horse heart myoglobin probed by time-resolved X-ray solution scattering. <i>Chemical Physics</i> , 2014, 442, 137-142.	1.9	19
18	Rotational dephasing of a gold complex probed by anisotropic femtosecond x-ray solution scattering using an x-ray free-electron laser. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 244005.	1.5	18

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19	Flexible covalent porphyrin framework film: An emerged platform for photocatalytic C H bond activation. <i>Applied Surface Science</i> , 2021, 544, 148938.	6.1	18
20	Fabrication of Graphitic Carbon Nitride-Based Film: An Emerged Highly Efficient Catalyst for Direct C-H Arylation under Solar Light. <i>Chinese Journal of Chemistry</i> , 2021, 39, 633-639.	4.9	17
21	Anthracene-based $g-C_3N_4$ photocatalyst for regeneration of NAD(P)H and sulfide oxidation based on Z-scheme nature. <i>International Journal of Energy Research</i> , 2021, 45, 13117-13129.	4.5	17
22	Structure and Energetics of C60O: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1939-1943.	2.5	15
23	Highly regioselective and sustainable solar click reaction: a new post-synthetic modified triazole organic polymer as a recyclable photocatalyst for regioselective azide-alkyne cycloaddition reaction. <i>Green Chemistry</i> , 2019, 21, 2677-2685.	9.0	15
24	Unveiling ultrafast dynamics in bridged bimetallic complexes using optical and X-ray transient absorption spectroscopies. <i>Chemical Science</i> , 2022, 13, 1715-1724.	7.4	14
25	Effect of the abolition of intersubunit salt bridges on allosteric protein structural dynamics. <i>Chemical Science</i> , 2021, 12, 8207-8217.	7.4	13
26	Role of thermal excitation in ultrafast energy transfer in chlorosomes revealed by two-dimensional electronic spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17872-17879.	2.8	12
27	Structural Dynamics of Bismuth Triiodide in Solution Triggered by Photoinduced Ligand-to-Metal Charge Transfer. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1279-1285.	4.6	12
28	Molecular-Level Understanding of Excited States of N-Annulated Rylene Dye for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22993-23003.	3.1	12
29	In Situ Prepared NRCPFs as Highly Active Photo Platforms for in Situ Bond Formation Between Aryldiazonium Salts and Heteroarenes. <i>Photochemistry and Photobiology</i> , 2022, 98, 748-753.	2.5	11
30	Ligand-Structure-Dependent Coherent Vibrational Wavepacket Dynamics in Pyrazolate-Bridged Pt(II) Dimers. <i>Journal of Physical Chemistry C</i> , , , .	3.1	11
31	Covalent Triazine Framework as an Efficient Photocatalyst for Regeneration of NAD(P)H and Selective Oxidation of Organic Sulfide. <i>Photochemistry and Photobiology</i> , 2022, 98, 150-159.	2.5	10
32	Light-induced protein structural dynamics in bacteriophytochrome revealed by time-resolved x-ray solution scattering. <i>Science Advances</i> , 2022, 8, .	10.3	10
33	Reversible molecular motional switch based on circular photoactive protein oligomers exhibits unexpected photo-induced contraction. <i>Cell Reports Physical Science</i> , 2021, 2, 100512.	5.6	9
34	Highly Efficient Flower-Like Graphene Quantum Dots-Based Fuschin Photocatalyst for Selective NAD(P)H Cofactor Regeneration Under Solar Light Irradiation. <i>Photochemistry and Photobiology</i> , 2022, 98, 412-420.	2.5	9
35	Ultrafast structural dynamics of in-cage isomerization of diiodomethane in solution. <i>Chemical Science</i> , 2021, 12, 2114-2120.	7.4	8
36	Pump-Probe X-ray Solution Scattering Reveals Accelerated Folding of Cytochrome c Upon Suppression of Misligation. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 697-698.	1.9	8

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37	Effect of Occluded Ligand Migration on the Kinetics and Structural Dynamics of Homodimeric Hemoglobin. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1550-1556.	2.6	5
38	Solar light <sc>active flexible</sc> activated carbon clothâ€based photocatalyst for <sc>Markovnikovâ€selective radicalâ€radical crossâ€coupling</sc> of <i>S</i>â€nucleophiles</sc> to terminal alkyne and liquefied petroleum gas sensing. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 1435-1444.	1.4	5
39	Chitosanâ€based fluorescein isothiocyanate film as a highly efficient <sc>metalâ€free</sc> photocatalyst for <sc>solarâ€lightâ€mediated</sc> direct <sc>Cî;H</sc> arylation. <i>International Journal of Energy Research</i> , 2021, 45, 5964-5973.	4.5	4
40	In Situ Prepared Solar Lightâ€Driven Flexible Actuated Carbon Clothâ€Based Nanorod Photocatalyst for Selective Radicalâ€Radical Coupling to Vinyl Sulfides. <i>Photochemistry and Photobiology</i> , 2021, 97, 955-962.	2.5	4
41	Uncovering the Conformational Distribution of a Small Protein with Nanoparticle-Aided Cryo-Electron Microscopy Sampling. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6565-6573.	4.6	4
42	Kinetics of the E46Q mutant of photoactive yellow protein investigated by transient grating spectroscopy. <i>Chemical Physics Letters</i> , 2017, 683, 262-267.	2.6	3
43	Regulation of Protein Structural Changes by Incorporation of a Small-Molecule Linker. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3714.	4.1	2
44	Greener Oneâ€step Synthesis of Novel In Situ Seleniumâ€Doped Framework Photocatalyst by Melem and Perylene Dianhydride for Enhanced Solar Fuel Production from CO<sub>2</sub>. <i>Photochemistry and Photobiology</i> , 2022, 98, 998-1007.	2.5	2
45	Photoactivation of triosmium dodecacarbonyl at 400 nm probed with time-resolved X-ray liquidography. <i>Chemical Communications</i> , 2022, 58, 7380-7383.	4.1	2
46	Ultrafast Energy Transfer in Chlorosome Probed by Femtosecond Pump-Probe Polarization Anisotropy. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 703-704.	1.9	1
47	Photocatalytic activity of ultrathin 2DPNs for enzymatically generating formic acid from CO<sub>2</sub> and Câ€S/Câ€N bond formation. <i>Sustainable Energy and Fuels</i> , 0, , .	4.9	1
48	(Invited) Tracking Structures in Solar Fuels Catalysis: In-Situ X-Ray Structure Characterization of Interfacial Water-Splitting Molecular and Thin-Film Catalysts. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0