

Tae Wu Kim

List of Publications by Year in descending order

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48
papers

1,169
citations

471509

17
h-index

395702

33
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49
all docs

49
docs citations

49
times ranked

1451
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Rational design of a graphitic carbon nitride catalytic biocatalytic system as a photocatalytic platform for solar fine chemical production from CO ₂ . <i>Reaction Chemistry and Engineering</i> , 2022, 7, 1566-1572.	3.7	20
5	Greener One-Step Synthesis of Novel In Situ Selenium-Doped Framework Photocatalyst by Melem and Perylene Dianhydride for Enhanced Solar Fuel Production from CO ₂ . <i>Photochemistry and Photobiology</i> , 2022, 98, 998-1007.	2.5	2
6	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
7	Light-induced protein structural dynamics in bacteriophytochrome revealed by time-resolved x-ray solution scattering. <i>Science Advances</i> , 2022, 8, .	10.3	10
8	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
9	Chitosan-based fluorescein isothiocyanate film as a highly efficient metal-free photocatalyst for solar-light-mediated direct C-H arylation. <i>International Journal of Energy Research</i> , 2021, 45, 5964-5973.	4.5	4
10	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
11	Eosin-Y and sulfur-codoped g-C ₃ N ₄ 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
12	Anthracene-based g-C ₃ N 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
13	In Situ Prepared Solar Light-Driven Flexible Actuated Carbon Cloth-Based Nanorod Photocatalyst for Selective Radical Radical Coupling to Vinyl Sulfides. <i>Photochemistry and Photobiology</i> , 2021, 97, 955-962.	2.5	4
14	Solar light active flexible activated carbon cloth-based photocatalyst for Markovnikov-selective radical-radical cross-coupling of <i>S</i> -nucleophiles to terminal alkyne and liquefied petroleum gas sensing. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 1435-1444.	1.4	5
15	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
16	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
17	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
18	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

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19	Ultrafast structural dynamics of in-cage isomerization of diiodomethane in solution. <i>Chemical Science</i> , 2021, 12, 2114-2120.	7.4	8
20	Effect of the abolition of intersubunit salt bridges on allosteric protein structural dynamics. <i>Chemical Science</i> , 2021, 12, 8207-8217.	7.4	13
21	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
22	Mapping the emergence of molecular vibrations mediating bond formation. <i>Nature</i> , 2020, 582, 520-524.	27.8	55
23	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
24	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
25	Ultrafast charge transfer coupled with lattice phonons in two-dimensional covalent organic frameworks. <i>Nature Communications</i> , 2019, 10, 1873.	12.8	93
26	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
27	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
28	(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
29	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
30	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
31	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
32	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
33	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
34	Direct observation of bond formation in solution with femtosecond X-ray scattering. <i>Nature</i> , 2015, 518, 385-389.	27.8	207
35	Single-step fabrication of quantum funnels via centrifugal colloidal casting of nanoparticle films. <i>Nature Communications</i> , 2015, 6, 7772.	12.8	68
36	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

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37	Protein Structural Dynamics Revealed by Time-Resolved X-ray Solution Scattering. <i>Accounts of Chemical Research</i> , 2015, 48, 2200-2208.	15.6	41
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	Structure and Energetics of C60O: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1939-1943.	2.5	15
47	Photocatalytic activity of ultrathin 2DPNs for enzymatically generating formic acid from CO ₂ and C-S/N bond formation. <i>Sustainable Energy and Fuels</i> , 0, , .	4.9	1
48	Ligand-Structure-Dependent Coherent Vibrational Wavepacket Dynamics in Pyrazolate-Bridged Pt(II) Dimers. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	11