

Hosung Ki

List of Publications by Year in descending order

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papers

831
citations

623734

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32
all docs

32
docs citations

32
times ranked

1168
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	Singleâ€Crystalline Hollow Faceâ€Centeredâ€Cubic Cobalt Nanoparticles from Solid Faceâ€Centeredâ€Cubic Cobalt Oxide Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9504-9508.	13.8	127
3	Direct Observation of Cooperative Protein Structural Dynamics of Homodimeric Hemoglobin from 100 ps to 10 ms with Pumpâ€Probe X-ray Solution Scattering. <i>Journal of the American Chemical Society</i> , 2012, 134, 7001-7008.	13.7	82
4	Mapping the emergence of molecular vibrations mediating bond formation. <i>Nature</i> , 2020, 582, 520-524.	27.8	55
5	Solvent-Dependent Molecular Structure of Ionic Species Directly Measured by Ultrafast X-Ray Solution Scattering. <i>Physical Review Letters</i> , 2013, 110, 165505.	7.8	44
6	Ultrafast X-Ray Crystallography and Liquidography. <i>Annual Review of Physical Chemistry</i> , 2017, 68, 473-497.	10.8	37
7	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
8	Femtosecond X-ray solution scattering reveals that bond formation mechanism of a gold trimer complex is independent of excitation wavelength. <i>Structural Dynamics</i> , 2016, 3, 043209.	2.3	26
9	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
10	Global Reaction Pathways in the Photodissociation of I ₃ ⁺ Ions in Solution at 267 and 400 nm Studied by Picosecond X-ray Liquidography. <i>ChemPhysChem</i> , 2013, 14, 3687-3697.	2.1	18
11	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
12	Solvent-dependent structure of molecular iodine probed by picosecond X-ray solution scattering. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8633-8637.	2.8	16
13	Direct Observation of a Transiently Formed Isomer During Iodoform Photolysis in Solution by Time-Resolved X-ray Liquidography. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 647-653.	4.6	15
14	Filming ultrafast roaming-mediated isomerization of bismuth triiodide in solution. <i>Nature Communications</i> , 2021, 12, 4732.	12.8	14
15	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
16	Optical Kerr Effect of Liquid Acetonitrile Probed by Femtosecond Time-Resolved X-ray Liquidography. <i>Journal of the American Chemical Society</i> , 2021, 143, 14261-14273.	13.7	11
17	Fate of transient isomer of CH ₂ I ₂ : Mechanism and origin of ionic photoproducts formation unveiled by time-resolved x-ray liquidography. <i>Journal of Chemical Physics</i> , 2019, 150, 224201.	3.0	10
18	Determining the charge distribution and the direction of bond cleavage with femtosecond anisotropic x-ray liquidography. <i>Nature Communications</i> , 2022, 13, 522.	12.8	9

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19	Sub-nanosecond secondary geminate recombination in mercury halides HgX ₂ (X = I, Br) investigated by time-resolved x-ray scattering. <i>Journal of Chemical Physics</i> , 2019, 151, 054310.	3.0	8
20	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
21	SVD-aided non-orthogonal decomposition (SANOD) method to exploit prior knowledge of spectral components in the analysis of time-resolved data. <i>Structural Dynamics</i> , 2019, 6, 024303.	2.3	7
22	Ultrafast excited state relaxation dynamics in a heteroleptic Ir(III) complex, <i>fac</i> -Ir(ppy) ₂ (ppz), revealed by femtosecond X-ray transient absorption spectroscopy. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2987-2998.	6.0	5
23	Prospect of Retrieving Vibrational Wave Function by Single-Object Scattering Sampling. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3345-3350.	4.6	4
24	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
25	Structural Dynamics of C ₂ F ₄ I ₂ in Cyclohexane Studied via Time-Resolved X-ray Liquidography. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9793.	4.1	4
26	Sensitivity of time-resolved diffraction data to changes in internuclear distances and atomic positions. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 376-390.	1.9	4
27	Gold Nanoparticle Formation via X-ray Radiolysis Investigated with Time-Resolved X-ray Liquidography. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7125.	4.1	3
28	Estimating signal and noise of time-resolved X-ray solution scattering data at synchrotrons and XFELs. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 633-645.	2.4	3
29	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