

Jae Hyuk Lee

List of Publications by Year in descending order

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19
papers

1,344
citations

623734

14
h-index

752698

20
g-index

22
all docs

22
docs citations

22
times ranked

2035
citing authors

#	ARTICLE	IF	CITATIONS
1	Hard X-ray free-electron laser with femtosecond-scale timing jitter. <i>Nature Photonics</i> , 2017, 11, 708-713.	31.4	389
2	Maxima in the thermodynamic response and correlation functions of deeply supercooled water. <i>Science</i> , 2017, 358, 1589-1593.	12.6	270
3	Femtosecond X-ray Absorption Spectroscopy at a Hard X-ray Free Electron Laser: Application to Spin Crossover Dynamics. <i>Journal of Physical Chemistry A</i> , 2013, 117, 735-740.	2.5	183
4	Experimental observation of the liquid-liquid transition in bulk supercooled water under pressure. <i>Science</i> , 2020, 370, 978-982.	12.6	143
5	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. <i>Nature Chemistry</i> , 2021, 13, 343-349.	13.6	59
6	Mapping the emergence of molecular vibrations mediating bond formation. <i>Nature</i> , 2020, 582, 520-524.	27.8	55
7	High-brightness self-seeded X-ray free-electron laser covering the 3.5 keV to 14.6 keV range. <i>Nature Photonics</i> , 2021, 15, 435-441.	31.4	47
8	UV-Photochemistry of the Disulfide Bond: Evolution of Early Photoproducts from Picosecond X-ray Absorption Spectroscopy at the Sulfur K-Edge. <i>Journal of the American Chemical Society</i> , 2018, 140, 6554-6561.	13.7	30
9	Transient metal-centered states mediate isomerization of a photochromic ruthenium-sulfoxide complex. <i>Nature Communications</i> , 2018, 9, 1989.	12.8	29
10	Light-Induced Radical Formation and Isomerization of an Aromatic Thiol in Solution Followed by Time-Resolved X-ray Absorption Spectroscopy at the Sulfur K-Edge. <i>Journal of the American Chemical Society</i> , 2017, 139, 4797-4804.	13.7	26
11	Ultrafast x-ray diffraction study of melt-front dynamics in polycrystalline thin films. <i>Science Advances</i> , 2020, 6, eaax2445.	10.3	21
12	Electronic and Molecular Structure of the Transient Radical Photocatalyst Mn(CO) ₅ and Its Parent Compound Mn ₂ (CO) ₁₀ . <i>Inorganic Chemistry</i> , 2016, 55, 5895-5903.	4.0	19
13	Hard X-ray self-seeding commissioning at PAL-XFEL. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1101-1109.	2.4	17
14	Picosecond sulfur K-edge X-ray absorption spectroscopy with applications to excited state proton transfer. <i>Structural Dynamics</i> , 2017, 4, 044021.	2.3	15
15	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
16	Recent Progress of the PAL-XFEL. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1010.	2.5	10
17	Femtosecond X-ray Spectroscopy Directly Quantifies Transient Excited-State Mixed Valency. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 378-386.	4.6	9
18	Following the Crystallization of Amorphous Ice after Ultrafast Laser Heating. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2299-2307.	2.6	8

#	ARTICLE	IF	CITATIONS
19	Development of an experimental apparatus to observe ultrafast phenomena by tender X-ray absorption spectroscopy at PAL-XFEL. Journal of Synchrotron Radiation, 2022, 29, 194-201.	2.4	1