

# Jeongho Kim

## List of Publications by Citations

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102  
papers

3,450  
citations

34  
h-index

55  
g-index

112  
ext. papers

3,919  
ext. citations

8.4  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
102	The vibrational spectrum of the hydrated proton: Comparison of experiment, simulation, and normal mode analysis. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 737-746	3.9	189
101	Direct observation of bond formation in solution with femtosecond X-ray scattering. <i>Nature</i> , <b>2015</b> , 518, 385-9	50.4	173
100	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> , <b>2013</b> , 117, 735-40	2.8	167
99	Porphyrin Sensitizers with Donor Structural Engineering for Superior Performance Dye-Sensitized Solar Cells and Tandem Solar Cells for Water Splitting Applications. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602117	21.8	151
98	Significant light absorption enhancement by a single heterocyclic unit change in the $\pi$ -bridge moiety from thieno[3,2-b]benzothiophene to thieno[3,2-b]indole for high performance dye-sensitized and tandem solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2297-2308	13	145
97	Thieno[3,2-b][1]benzothiophene Derivative as a New $\pi$ -Bridge Unit in D $\pi$ A Structural Organic Sensitizers with Over 10.47% Efficiency for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500300	21.8	106
96	Novel Carbazole-Based Hole-Transporting Materials with Star-Shaped Chemical Structures for Perovskite-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 22213-7	9.5	93
95	Two-dimensional electronic double-quantum coherence spectroscopy. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 1375-84	24.3	93
94	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> , <b>2012</b> , 134, 3145-53	16.4	88
93	Formation of pristine CuSCN layer by spray deposition method for efficient perovskite solar cell with extended stability. <i>Nano Energy</i> , <b>2017</b> , 32, 414-421	17.1	86
92	Exciton fine structure and spin relaxation in semiconductor colloidal quantum dots. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 1037-46	24.3	72
91	Simple synthesis and molecular engineering of low-cost and star-shaped carbazole-based hole transporting materials for highly efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20263-20276	13	71
90	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> , <b>2012</b> , 134, 7001-8	16.4	70
89	Enhancement of photovoltaic properties of CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> heterojunction solar cells by modifying mesoporous TiO <sub>2</sub> surfaces with carboxyl groups. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9264-9270	13	65
88	50 nm sized spherical TiO <sub>2</sub> nanocrystals for highly efficient mesoscopic perovskite solar cells. <i>Nanoscale</i> , <b>2015</b> , 7, 8898-906	7.7	62
87	Ultrafast X-ray scattering: structural dynamics from diatomic to protein molecules. <i>International Reviews in Physical Chemistry</i> , <b>2010</b> , 29, 453-520	7	62
86	Exciton spin relaxation in quantum dots measured using ultrafast transient polarization grating spectroscopy. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	60

85	Atomistic characterization of the active-site solvation dynamics of a model photocatalyst. <i>Nature Communications</i> , <b>2016</b> , 7, 13678	17.4	58
84	Single-step fabrication of quantum funnels via centrifugal colloidal casting of nanoparticle films. <i>Nature Communications</i> , <b>2015</b> , 6, 7772	17.4	57
83	New insight of the photocatalytic behaviors of graphitic carbon nitrides for hydrogen evolution and their associations with grain size, porosity, and photophysical properties. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 218, 349-358	21.8	56
82	Ultrafast charge transfer coupled with lattice phonons in two-dimensional covalent organic frameworks. <i>Nature Communications</i> , <b>2019</b> , 10, 1873	17.4	55
81	Size-dependence of plasmonic Au nanoparticles in photocatalytic behavior of Au/TiO <sub>2</sub> and Au@SiO <sub>2</sub> /TiO <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>2015</b> , 499, 47-54	5.1	54
80	Silver bismuth iodides in various compositions as potential Pb-free light absorbers for hybrid solar cells. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 294-302	5.8	54
79	Ultrafast light harvesting dynamics in the cryptophyte phycocyanin 645. <i>Photochemical and Photobiological Sciences</i> , <b>2007</b> , 6, 964-75	4.2	51
78	Filming the birth of molecules and accompanying solvent rearrangement. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 3255-61	16.4	49
77	Relaxation in the Exciton Fine Structure of Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 795-811	3.8	48
76	Protein tertiary structural changes visualized by time-resolved X-ray solution scattering. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 13131-3	3.4	48
75	Novel spherical TiO <sub>2</sub> aggregates with diameter of 100 nm for efficient mesoscopic perovskite solar cells. <i>Nano Energy</i> , <b>2016</b> , 20, 272-282	17.1	45
74	Optical coherence and theoretical study of the excitation dynamics of a highly symmetric cyclophane-linked oligophenylenevinylene dimer. <i>Journal of Chemical Physics</i> , <b>2006</b> , 124, 194904	3.9	45
73	Nanocrystal shape and the mechanism of exciton spin relaxation. <i>Nano Letters</i> , <b>2006</b> , 6, 1765-71	11.5	43
72	Control of exciton spin relaxation by electron-hole decoupling in type-II nanocrystal heterostructures. <i>Nano Letters</i> , <b>2008</b> , 8, 4007-13	11.5	40
71	Solvent intermolecular polarizability response in solvation. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 3917-3920	3.9	38
70	Triphenylamine-based organic sensitizers with spacer structural engineering for dye-sensitized solar cells: Synthesis, theoretical calculations, molecular spectroscopy and structure-property-performance relationships. <i>Dyes and Pigments</i> , <b>2017</b> , 136, 496-504	4.6	36
69	Anisotropic Picosecond X-ray Solution Scattering from Photo-selectively Aligned Protein Molecules. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 350-356	6.4	36
68	Direct observation of myoglobin structural dynamics from 100 picoseconds to 1 microsecond with picosecond X-ray solution scattering. <i>Chemical Communications</i> , <b>2011</b> , 47, 289-91	5.8	34

- 67 Protein structural dynamics revealed by time-resolved X-ray solution scattering. *Accounts of Chemical Research*, **2015**, 48, 2200-8 24.3 33
- 66 Solvent-dependent molecular structure of ionic species directly measured by ultrafast x-ray solution scattering. *Physical Review Letters*, **2013**, 110, 165505 7.4 33
- 65 Enhancement of open circuit voltage for CuSCN-based perovskite solar cells by controlling the perovskite/CuSCN interface with functional molecules. *Journal of Materials Chemistry A*, **2019**, 7, 6028-6037 13.7 32
- 64 Photochemistry of HgBr(2) in methanol investigated using time-resolved X-ray liquidography. *Physical Chemistry Chemical Physics*, **2010**, 12, 11536-47 3.6 31
- 63 Mechanism and origin of exciton spin relaxation in CdSe nanorods. *Journal of Physical Chemistry B*, **2006**, 110, 25371-82 3.4 31
- 62 Ultrafast X-ray diffraction in liquid, solution and gas: present status and future prospects. *Acta Crystallographica Section A: Foundations and Advances*, **2010**, 66, 270-80 30
- 61 Mapping the emergence of molecular vibrations mediating bond formation. *Nature*, **2020**, 582, 520-524 50.4 28
- 60 Tracking reaction dynamics in solution by pump-probe X-ray absorption spectroscopy and X-ray liquidography (solution scattering). *Chemical Communications*, **2016**, 52, 3734-49 5.8 26
- 59 Ultrafast X-Ray Crystallography and Liquidography. *Annual Review of Physical Chemistry*, **2017**, 68, 473-493 13.7 25
- 58 Topical Review: Molecular reaction and solvation visualized by time-resolved X-ray solution scattering: Structure, dynamics, and their solvent dependence. *Structural Dynamics*, **2014**, 1, 011301 3.2 25
- 57 Sizing up the Exciton in Complex-Shaped Semiconductor Nanocrystals. *Nano Letters*, **2007**, 7, 3884-3890 11.5 25
- 56 Spin relaxation in zinc blende and wurtzite CdSe quantum dots. *Chemical Physics Letters*, **2010**, 491, 187-192 19.2 24
- 55 Measurement of electron-electron interactions and correlations using two-dimensional electronic double-quantum coherence spectroscopy. *Journal of Physical Chemistry A*, **2009**, 113, 12122-33 2.8 23
- 54 Ultrafast dynamics of polarons in conductive polyaniline: comparison of primary and secondary doped forms. *Journal of Physical Chemistry B*, **2008**, 112, 15576-87 3.4 23
- 53 Coherent Oscillations in Chlorosome Elucidated by Two-Dimensional Electronic Spectroscopy. *Journal of Physical Chemistry Letters*, **2014**, 5, 1386-92 6.4 22
- 52 Femtosecond X-ray solution scattering reveals that bond formation mechanism of a gold trimer complex is independent of excitation wavelength. *Structural Dynamics*, **2016**, 3, 043209 3.2 22
- 51 Structural dynamics of 1,2-diiodoethane in cyclohexane probed by picosecond X-ray liquidography. *Journal of Physical Chemistry A*, **2012**, 116, 2713-22 2.8 21
- 50 Novel Extended porphyrin-based hole-transporting materials with triarylamine donor units for high performance perovskite solar cells. *Dyes and Pigments*, **2019**, 163, 734-739 4.6 21

49	Conformational Substates of Myoglobin Intermediate Resolved by Picosecond X-ray Solution Scattering. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 804-808	6.4	20
48	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> , <b>2016</b> , 3, 023610	3.7	19
47	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> , <b>2016</b> , 18, 8911-8919	3.6	18
46	SVD-aided pseudo principal-component analysis: A new method to speed up and improve determination of the optimum kinetic model from time-resolved data. <i>Structural Dynamics</i> , <b>2017</b> , 4, 044013	3.7	17
45	Sub-100-ps structural dynamics of horse heart myoglobin probed by time-resolved X-ray solution scattering. <i>Chemical Physics</i> , <b>2014</b> , 422, 137-142	2.3	17
44	A dual role of phenylboronic acid as a receptor for carbohydrates as well as a quencher for neighboring pyrene fluorophore. <i>Tetrahedron</i> , <b>2013</b> , 69, 11057-11063	2.4	17
43	Two-dimensional measurements of the solvent structural relaxation dynamics in dipolar solvation. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 8116-22	3.6	17
42	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> , <b>2015</b> , 48, 244005	1.3	15
41	Global reaction pathways in the photodissociation of I3 <sup>-</sup> ions in solution at 267 and 400 nm studied by picosecond X-ray liquidography. <i>ChemPhysChem</i> , <b>2013</b> , 14, 3687-97	3.2	14
40	Solvent structural relaxation dynamics in dipolar solvation studied by resonant pump polarizability response spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 214-23	3.6	14
39	Identifying the major intermediate species by combining time-resolved X-ray solution scattering and X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 23298-302	3.6	13
38	New thieno[3,2-b][1]benzothiophene-based organic sensitizers containing extended thiophene spacers for efficient dye-sensitized solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 80859-80870	3.7	13
37	Protein folding dynamics of cytochrome c seen by transient grating and transient absorption spectroscopies. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 3127-35	3.4	13
36	Solvent-dependent structure of molecular iodine probed by picosecond X-ray solution scattering. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8633-7	3.6	12
35	Ultrafast Dephasing of Photoexcited Polarons in Primary Doped Polyaniline. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 12866-12873	3.4	11
34	Structural insights into photocatalytic performance of carbon nitrides for degradation of organic pollutants. <i>Journal of Solid State Chemistry</i> , <b>2018</b> , 258, 559-565	3.3	11
33	Role of thermal excitation in ultrafast energy transfer in chlorosomes revealed by two-dimensional electronic spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 17872-9	3.6	10
32	Dramatic Change of Morphological, Photophysical, and Photocatalytic H <sub>2</sub> Evolution Properties of C <sub>3</sub> N <sub>4</sub> Materials by the Removal of Carbon Impurities. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4812-4820	6.1	10

31	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> , <b>2018</b> , 9, 647-653	6.4	10
30	Density functional and ab initio investigation of CF <sub>2</sub> ICF <sub>2</sub> I and CF <sub>2</sub> CF <sub>2</sub> I radicals in gas and solution phases. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 11059-66	2.8	9
29	Acid-activated carbon nitrides as photocatalysts for degrading organic pollutants under visible light. <i>Chemosphere</i> , <b>2021</b> , 273, 129731	8.4	9
28	Density functional and multireference ab initio study of the ground and excited states of Ru <sup>2+</sup> . <i>Chemical Physics Letters</i> , <b>2014</b> , 592, 24-29	2.5	8
27	Silicotungstate, a Potential Electron Transporting Layer for Low-Temperature Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25257-25264	9.5	8
26	Fate of transient isomer of CHI: Mechanism and origin of ionic photoproducts formation unveiled by time-resolved x-ray liquidography. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 224201	3.9	6
25	Solvent-dependent complex reaction pathways of bromoform revealed by time-resolved X-ray solution scattering and X-ray transient absorption spectroscopy. <i>Structural Dynamics</i> , <b>2019</b> , 6, 064902	3.2	6
24	Structural Dynamics of Bismuth Triiodide in Solution Triggered by Photoinduced Ligand-to-Metal Charge Transfer. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1279-1285	6.4	5
23	Molecular-Level Understanding of Excited States of N-Annulated Rylene Dye for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22993-23003	3.8	5
22	Filming ultrafast roaming-mediated isomerization of bismuth triiodide in solution. <i>Nature Communications</i> , <b>2021</b> , 12, 4732	17.4	5
21	Density functional and multiconfigurational ab initio study of the ground and excited states of Os <sup>2+</sup> . <i>International Journal of Quantum Chemistry</i> , <b>2014</b> , 114, 1466-1471	2.1	4
20	Reactivity of molecular oxygen with aluminum clusters: Density functional and Ab Initio molecular dynamics simulation study. <i>International Journal of Quantum Chemistry</i> , <b>2016</b> , 116, 547-554	2.1	4
19	Enhanced Polarization Ratio of Electrospun Nanofibers with Increased Intrachain Order by Postsolvent Treatments. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 12981-12987	3.4	4
18	Enhancement of the photovoltaic properties of Ag <sub>2</sub> BiI <sub>5</sub> by Cu doping. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 1439-1447	5.8	4
17	Production of C, N Alternating 2D Materials Using Covalent Modification and Their Electroluminescence Performance. <i>Small Science</i> , <b>2021</b> , 1, 2000042		4
16	Prospect of Retrieving Vibrational Wave Function by Single-Object Scattering Sampling. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3345-50	6.4	3
15	Multireference ab initio study of the ground and low-lying excited states of Cr(CO) <sub>2</sub> and Cr(CO) <sub>3</sub> . <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 3861-8	2.8	3
14	Optical Kerr Effect of Liquid Acetonitrile Probed by Femtosecond Time-Resolved X-ray Liquidography. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 14261-14273	16.4	3

13	2-Dimensional Measurement of the Solvent Intermolecular Response in Solvation. <i>Springer Series in Chemical Physics</i> , <b>2005</b> , 557-559	0.3	2
12	Femtosecond Studies of the Initial Events in the Photocycle of Photoactive Yellow Protein (PYP)381-390		2
11	Production of Metal-Free C, N Alternating Nanoplatelets and Their In Vivo Fluorescence Imaging Performance without Labeling. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004800	15.6	2
10	Remarkable variation of visible light photocatalytic activities of M/SnSbO/TiO (M=Au, Ag, Pt) heterostructures depending on the loaded metals. <i>Chemosphere</i> , <b>2021</b> , 265, 129160	8.4	2
9	Synchrotron-Based Time-Resolved X-ray Solution Scattering (Liquidography) <b>2010</b> ,		1
8	Ultrafast Energy Transfer in Chlorosome Probed by Femtosecond Pump-Probe Polarization Anisotropy. <i>Bulletin of the Korean Chemical Society</i> , <b>2014</b> , 35, 703-704	1.2	1
7	Enhancement of Energy Transfer Efficiency with Structural Control of Multichromophore Light-Harvesting Assembly. <i>Advanced Science</i> , <b>2020</b> , 7, 2001623	13.6	1
6	Exciton delocalization length in chlorosomes investigated by lineshape dynamics of two-dimensional electronic spectra. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 24111-24117	3.6	1
5	Two-Color Electric Field Resolved Transient Grating Spectroscopy of an Oligophenylenevinylene Dimer. <i>Springer Series in Chemical Physics</i> , <b>2007</b> , 243-245	0.3	0
4	Tailor-Made Charged Catechol-Based Polymeric Ligands to Build Robust Fuel Cells Containing Antioxidative Nanoparticles. <i>Advanced Electronic Materials</i> , 2200171	6.4	0
3	Water-assisted formation of amine-bridged carbon nitride: A structural insight into the photocatalytic performance for H <sub>2</sub> evolution under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 310, 121313	21.8	0
2	Selective measurement of ultrafast exciton spin relaxation in quantum dots. <i>Springer Series in Chemical Physics</i> , <b>2007</b> , 701-703	0.3	
1	Radiationless Transitions and Angular Momentum Transfer in Semiconductor Nanocrystals. <i>Springer Series in Chemical Physics</i> , <b>2009</b> , 268-270	0.3	