Jeongho Kim

List of Publications by Year in descending order

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87888 118850 4,297 106 38 62 citations h-index g-index papers 112 112 112 5404 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Tailorâ€Made Charged Catecholâ€Based Polymeric Ligands to Build Robust Fuel Cells Containing Antioxidative Nanoparticles. Advanced Electronic Materials, 2022, 8, .	5.1	6
2	Water-assisted formation of amine-bridged carbon nitride: A structural insight into the photocatalytic performance for H2 evolution under visible light. Applied Catalysis B: Environmental, 2022, 310, 121313.	20.2	37
3	Photoactivation of triosmium dodecacarbonyl at 400 nm probed with time-resolved X-ray liquidography. Chemical Communications, 2022, 58, 7380-7383.	4.1	2
4	Remarkable variation of visible light photocatalytic activities of M/Sn0.9Sb0.1O2/TiO2 (M=Au, Ag, Pt) heterostructures depending on the loaded metals. Chemosphere, 2021, 265, 129160.	8.2	7
5	Acid-activated carbon nitrides as photocatalysts for degrading organic pollutants under visible light. Chemosphere, 2021, 273, 129731.	8.2	21
6	Filming ultrafast roaming-mediated isomerization of bismuth triiodide in solution. Nature Communications, 2021, 12, 4732.	12.8	14
7	Optical Kerr Effect of Liquid Acetonitrile Probed by Femtosecond Time-Resolved X-ray Liquidography. Journal of the American Chemical Society, 2021, 143, 14261-14273.	13.7	11
8	Structural Dynamics of C2F4I2 in Cyclohexane Studied via Time-Resolved X-ray Liquidography. International Journal of Molecular Sciences, 2021, 22, 9793.	4.1	4
9	Enhancement of the photovoltaic properties of Ag ₂ Bil ₅ by Cu doping. Sustainable Energy and Fuels, 2021, 5, 1439-1447.	4.9	13
10	Production of C, N Alternating 2D Materials Using Covalent Modification and Their Electroluminescence Performance. Small Science, 2021, 1, 2000042.	9.9	9
11	Exciton delocalization length in chlorosomes investigated by lineshape dynamics of two-dimensional electronic spectra. Physical Chemistry Chemical Physics, 2021, 23, 24111-24117.	2.8	4
12	Molecular-Level Understanding of Excited States of N-Annulated Rylene Dye for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2020, 124, 22993-23003.	3.1	12
13	Enhancement of Energy Transfer Efficiency with Structural Control of Multichromophore Lightâ∈Harvesting Assembly. Advanced Science, 2020, 7, 2001623.	11.2	6
14	Production of Metalâ€Free C, N Alternating Nanoplatelets and Their In Vivo Fluorescence Imaging Performance without Labeling. Advanced Functional Materials, 2020, 30, 2004800.	14.9	5
15	Mapping the emergence of molecular vibrations mediating bond formation. Nature, 2020, 582, 520-524.	27.8	55
16	Dramatic Change of Morphological, Photophysical, and Photocatalytic H ₂ Evolution Properties of C ₃ N ₄ Materials by the Removal of Carbon Impurities. ACS Applied Energy Materials, 2020, 3, 4812-4820.	5.1	20
17	Fate of transient isomer of CH2I2: Mechanism and origin of ionic photoproducts formation unveiled by time-resolved x-ray liquidography. Journal of Chemical Physics, 2019, 150, 224201.	3.0	10
18	Ultrafast charge transfer coupled with lattice phonons in two-dimensional covalent organic frameworks. Nature Communications, 2019, 10, 1873.	12.8	93

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19	Structural Dynamics of Bismuth Triiodide in Solution Triggered by Photoinduced Ligand-to-Metal Charge Transfer. Journal of Physical Chemistry Letters, 2019, 10, 1279-1285.	4.6	12
20	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.	10.3	49
21	Solvent-dependent complex reaction pathways of bromoform revealed by time-resolved X-ray solution scattering and X-ray transient absorption spectroscopy. Structural Dynamics, 2019, 6, 064902.	2.3	8
22	Novel π-extended porphyrin-based hole-transporting materials with triarylamine donor units for high performance perovskite solar cells. Dyes and Pigments, 2019, 163, 734-739.	3.7	27
23	Direct Observation of a Transiently Formed Isomer During Iodoform Photolysis in Solution by Time-Resolved X-ray Liquidography. Journal of Physical Chemistry Letters, 2018, 9, 647-653.	4.6	15
24	Structural insights into photocatalytic performance of carbon nitrides for degradation of organic pollutants. Journal of Solid State Chemistry, 2018, 258, 559-565.	2.9	21
25	Silver bismuth iodides in various compositions as potential Pb-free light absorbers for hybrid solar cells. Sustainable Energy and Fuels, 2018, 2, 294-302.	4.9	81
26	SVD-aided pseudo principal-component analysis: A new method to speed up and improve determination of the optimum kinetic model from time-resolved data. Structural Dynamics, 2017, 4, 044013.	2.3	19
27	New insight of the photocatalytic behaviors of graphitic carbon nitrides for hydrogen evolution and their associations with grain size, porosity, and photophysical properties. Applied Catalysis B: Environmental, 2017, 218, 349-358.	20.2	77
28	Ultrafast X-Ray Crystallography and Liquidography. Annual Review of Physical Chemistry, 2017, 68, 473-497.	10.8	37
29	Formation of pristine CuSCN layer by spray deposition method for efficient perovskite solar cell with extended stability. Nano Energy, 2017, 32, 414-421.	16.0	111
30	Significant light absorption enhancement by a single heterocyclic unit change in the π-bridge moiety from thieno[3,2-b]benzothiophene to thieno[3,2-b]indole for high performance dye-sensitized and tandem solar cells. Journal of Materials Chemistry A, 2017, 5, 2297-2308.	10.3	200
31	Porphyrin Sensitizers with Donor Structural Engineering for Superior Performance Dyeâ€Sensitized Solar Cells and Tandem Solar Cells for Water Splitting Applications. Advanced Energy Materials, 2017, 7, 1602117.	19.5	193
32	Simple synthesis and molecular engineering of low-cost and star-shaped carbazole-based hole transporting materials for highly efficient perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 20263-20276.	10.3	92
33	Silicotungstate, a Potential Electron Transporting Layer for Low-Temperature Perovskite Solar Cells. ACS Applied Materials & Samp; Interfaces, 2017, 9, 25257-25264.	8.0	12
34	Triphenylamine-based organic sensitizers with π-spacer structural engineering for dye-sensitized solar cells: Synthesis, theoretical calculations, molecular spectroscopy and structure-property-performance relationships. Dyes and Pigments, 2017, 136, 496-504.	3.7	49
35	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.	2.3	26
36	Reactivity of molecular oxygen with aluminum clusters: Density functional and <i>Ab Initio</i> molecular dynamics simulation study. International Journal of Quantum Chemistry, 2016, 116, 547-554.	2.0	4

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37	Enhanced Polarization Ratio of Electrospun Nanofibers with Increased Intrachain Order by Postsolvent Treatments. Journal of Physical Chemistry B, 2016, 120, 12981-12987.	2.6	6
38	Atomistic characterization of the active-site solvation dynamics of a model photocatalyst. Nature Communications, 2016, 7, 13678.	12.8	74
39	Cooperative protein structural dynamics of homodimeric hemoglobin linked to water cluster at subunit interface revealed by time-resolved X-ray solution scattering. Structural Dynamics, 2016, 3, 023610.	2.3	22
40	Tracking reaction dynamics in solution by pump–probe X-ray absorption spectroscopy and X-ray liquidography (solution scattering). Chemical Communications, 2016, 52, 3734-3749.	4.1	35
41	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. Physical Chemistry Chemical Physics, 2016, 18, 8911-8919.	2.8	22
42	Novel spherical TiO 2 aggregates with diameter of 100 nm for efficient mesoscopic perovskite solar cells. Nano Energy, 2016, 20, 272-282.	16.0	50
43	Rotational dephasing of a gold complex probed by anisotropic femtosecond x-ray solution scattering using an x-ray free-electron laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 244005.	1.5	18
44	Thieno[3,2â€ <i>b</i>][1]benzothiophene Derivative as a New Ï€â€Bridge Unit in D–π–A Structural Organic Sensitizers with Over 10.47% Efficiency for Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2015, 5, 1500300.	19.5	138
45	Direct observation of bond formation in solution with femtosecond X-ray scattering. Nature, 2015, 518, 385-389.	27.8	207
46	Enhancement of photovoltaic properties of CH3NH3PbBr3 heterojunction solar cells by modifying mesoporous TiO2 surfaces with carboxyl groups. Journal of Materials Chemistry A, 2015, 3, 9264-9270.	10.3	69
47	Single-step fabrication of quantum funnels via centrifugal colloidal casting of nanoparticle films. Nature Communications, 2015, 6, 7772.	12.8	68
48	Role of thermal excitation in ultrafast energy transfer in chlorosomes revealed by two-dimensional electronic spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 17872-17879.	2.8	12
49	Size-dependence of plasmonic Au nanoparticles in photocatalytic behavior of Au/TiO 2 and Au@SiO 2 /TiO 2. Applied Catalysis A: General, 2015, 499, 47-54.	4.3	65
50	50 nm sized spherical TiO ₂ nanocrystals for highly efficient mesoscopic perovskite solar cells. Nanoscale, 2015, 7, 8898-8906.	5 . 6	68
51	Protein Structural Dynamics Revealed by Time-Resolved X-ray Solution Scattering. Accounts of Chemical Research, 2015, 48, 2200-2208.	15.6	41
52	Identifying the major intermediate species by combining time-resolved X-ray solution scattering and X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 23298-23302.	2.8	15
53	Novel Carbazole-Based Hole-Transporting Materials with Star-Shaped Chemical Structures for Perovskite-Sensitized Solar Cells. ACS Applied Materials & Samp; Interfaces, 2015, 7, 22213-22217.	8.0	104
54	New thieno[3,2-b][1]benzothiophene-based organic sensitizers containing π-extended thiophene spacers for efficient dye-sensitized solar cells. RSC Advances, 2015, 5, 80859-80870.	3.6	16

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55	Solvent-dependent structure of molecular iodine probed by picosecond X-ray solution scattering. Physical Chemistry Chemical Physics, 2015, 17, 8633-8637.	2.8	16
56	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.	2.3	37
57	Density functional and multireference ab initio study of the ground and excited states of Ru2. Chemical Physics Letters, 2014, 592, 24-29.	2.6	11
58	Density functional and multiconfigurational <i>ab initio</i> study of the ground and excited states of Os ₂ . International Journal of Quantum Chemistry, 2014, 114, 1466-1471.	2.0	5
59	Conformational Substates of Myoglobin Intermediate Resolved by Picosecond X-ray Solution Scattering. Journal of Physical Chemistry Letters, 2014, 5, 804-808.	4.6	23
60	Coherent Oscillations in Chlorosome Elucidated by Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry Letters, 2014, 5, 1386-1392.	4.6	23
61	Sub-100-ps structural dynamics of horse heart myoglobin probed by time-resolved X-ray solution scattering. Chemical Physics, 2014, 442, 137-142.	1.9	19
62	Ultrafast Energy Transfer in Chlorosome Probed by Femtosecond Pump-Probe Polarization Anisotropy. Bulletin of the Korean Chemical Society, 2014, 35, 703-704.	1.9	1
63	A dual role of phenylboronic acid as a receptor for carbohydrates as well as a quencher for neighboring pyrene fluorophore. Tetrahedron, 2013, 69, 11057-11063.	1.9	19
64	Prospect of Retrieving Vibrational Wave Function by Single-Object Scattering Sampling. Journal of Physical Chemistry Letters, 2013, 4, 3345-3350.	4.6	4
65	Femtosecond X-ray Absorption Spectroscopy at a Hard X-ray Free Electron Laser: Application to Spin Crossover Dynamics. Journal of Physical Chemistry A, 2013, 117, 735-740.	2.5	183
66	Multireference Ab Initio Study of the Ground and Low-Lying Excited States of Cr(CO)2 and Cr(CO)3. Journal of Physical Chemistry A, 2013, 117, 3861-3868.	2.5	4
67	Filming the Birth of Molecules and Accompanying Solvent Rearrangement. Journal of the American Chemical Society, 2013, 135, 3255-3261.	13.7	59
68	Solvent-Dependent Molecular Structure of Ionic Species Directly Measured by Ultrafast X-Ray Solution Scattering. Physical Review Letters, 2013, 110, 165505.	7.8	44
69	Global Reaction Pathways in the Photodissociation of I ₃ ^{â^'} Ions in Solution at 267 and 400 nm Studied by Picosecond Xâ€ray Liquidography. ChemPhysChem, 2013, 14, 3687-3697.	2.1	18
70	Two-dimensional measurements of the solvent structural relaxation dynamics in dipolar solvation. Physical Chemistry Chemical Physics, 2012, 14, 8116.	2.8	19
71	Protein Structural Dynamics of Photoactive Yellow Protein in Solution Revealed by Pump–Probe X-ray Solution Scattering. Journal of the American Chemical Society, 2012, 134, 3145-3153.	13.7	95
72	Direct Observation of Cooperative Protein Structural Dynamics of Homodimeric Hemoglobin from 100 ps to 10 ms with Pump–Probe X-ray Solution Scattering. Journal of the American Chemical Society, 2012, 134, 7001-7008.	13.7	82

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73	Structural Dynamics of 1,2-Diiodoethane in Cyclohexane Probed by Picosecond X-ray Liquidography. Journal of Physical Chemistry A, 2012, 116, 2713-2722.	2.5	25
74	Direct observation of myoglobin structural dynamics from 100 picoseconds to 1 microsecond with picosecond X-ray solution scattering. Chemical Communications, 2011, 47, 289-291.	4.1	39
75	Solvent structural relaxation dynamics in dipolar solvation studied by resonant pump polarizability response spectroscopy. Physical Chemistry Chemical Physics, 2011, 13, 214-223.	2.8	18
76	Anisotropic Picosecond X-ray Solution Scattering from Photoselectively Aligned Protein Molecules. Journal of Physical Chemistry Letters, 2011, 2, 350-356.	4.6	38
77	Protein Folding Dynamics of Cytochrome <i>c</i> Seen by Transient Grating and Transient Absorption Spectroscopies. Journal of Physical Chemistry B, 2011, 115, 3127-3135.	2.6	13
78	Spin relaxation in zinc blende and wurtzite CdSe quantum dots. Chemical Physics Letters, 2010, 491, 187-192.	2.6	29
79	Ultrafast X-ray diffraction in liquid, solution and gas: present status and future prospects. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, 270-280.	0.3	32
80	Photochemistry of HgBr2 in methanol investigated using time-resolved X-ray liquidography. Physical Chemistry Chemical Physics, 2010, 12, 11536.	2.8	33
81	Ultrafast X-ray scattering: structural dynamics from diatomic to protein molecules. International Reviews in Physical Chemistry, 2010, 29, 453-520.	2.3	76
82	Measurement of Electron Correlation Using Two-Dimensional Electronic Double-Quantum Coherence Spectroscopy. , 2010, , .		0
83	Measurement of Electronâ^'Electron Interactions and Correlations Using Two-Dimensional Electronic Double-Quantum Coherence Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 12122-12133.	2.5	28
84	Two-Dimensional Electronic Double-Quantum Coherence Spectroscopy. Accounts of Chemical Research, 2009, 42, 1375-1384.	15.6	113
85	Relaxation in the Exciton Fine Structure of Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 795-811.	3.1	54
86	Protein Tertiary Structural Changes Visualized by Time-Resolved X-ray Solution Scattering. Journal of Physical Chemistry B, 2009, 113, 13131-13133.	2.6	51
87	Exciton Fine Structure and Spin Relaxation in Semiconductor Colloidal Quantum Dots. Accounts of Chemical Research, 2009, 42, 1037-1046.	15.6	81
88	Density Functional and ab Initio Investigation of CF ₂ ICF ₂ I and CF ₂ CF ₂ I Radicals in Gas and Solution Phases. Journal of Physical Chemistry A, 2009, 113, 11059-11066.	2.5	10
89	Radiationless Transitions and Angular Momentum Transfer in Semiconductor Nanocrystals. Springer Series in Chemical Physics, 2009, , 268-270.	0.2	0
90	Ultrafast Dynamics of Polarons in Conductive Polyaniline: Comparison of Primary and Secondary Doped Forms. Journal of Physical Chemistry B, 2008, 112, 15576-15587.	2.6	26

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91	Control of Exciton Spin Relaxation by Electronâ^'Hole Decoupling in Type-II Nanocrystal Heterostructures. Nano Letters, 2008, 8, 4007-4013.	9.1	41
92	Measurement and Control of Ultrafast Relaxation in the Fine Structure of Nanocrystal Excitons. , 2008, , .		0
93	Sizing up the Exciton in Complex-Shaped Semiconductor Nanocrystals. Nano Letters, 2007, 7, 3884-3890.	9.1	27
94	Ultrafast light harvesting dynamics in the cryptophyte phycocyanin 645. Photochemical and Photobiological Sciences, 2007, 6, 964-975.	2.9	62
95	Selective measurement of ultrafast exciton spin relaxation in quantum dots. Springer Series in Chemical Physics, 2007, , 701-703.	0.2	O
96	Nanocrystal Shape and the Mechanism of Exciton Spin Relaxation. Nano Letters, 2006, 6, 1765-1771.	9.1	45
97	Mechanism and Origin of Exciton Spin Relaxation in CdSe Nanorodsâ€. Journal of Physical Chemistry B, 2006, 110, 25371-25382.	2.6	34
98	Exciton spin relaxation in quantum dots measured using ultrafast transient polarization grating spectroscopy. Physical Review B, 2006, 73, .	3.2	62
99	Optical coherence and theoretical study of the excitation dynamics of a highly symmetric cyclophane-linked oligophenylenevinylene dimer. Journal of Chemical Physics, 2006, 124, 194904.	3.0	47
100	Selective measurement of ultrafast exciton spin relaxation in quantum dots., 2006,,.		0
101	Transmission of quantum dot exciton spin states via resonance energy transfer. , 2005, , .		2
102	Solvent intermolecular polarizability response in solvation. Journal of Chemical Physics, 2003, 118, 3917-3920.	3.0	38
103	The vibrational spectrum of the hydrated proton: Comparison of experiment, simulation, and normal mode analysis. Journal of Chemical Physics, 2002, 116, 737-746.	3.0	200
104	Ultrafast Dephasing of Photoexcited Polarons in Primary Doped Polyaniline. Journal of Physical Chemistry B, 2002, 106, 12866-12873.	2.6	11
105	Femtosecond Studies of the Initial Events in the Photocycle of Photoactive Yellow Protein (PYP)., 0,, 381-390.		3
106	Synchrotron-Based Time-Resolved X-ray Solution Scattering (Liquidography)., 0,,.		1