

Hyotcherl Ihee

List of Publications by Year in descending order

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Version: 2024-02-01

164
papers

8,693
citations

43973

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h-index

46693

89
g-index

177
all docs

177
docs citations

177
times ranked

8700
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A Belt-Shaped, Blue Luminescent, and Semiconducting Covalent Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8826-8830. | 7.2 | 752 |
| 2 | A Photoconductive Covalent Organic Framework: Self-Condensed Arene Cubes Composed of Eclipsed 2D Polypyrene Sheets for Photocurrent Generation. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5439-5442. | 7.2 | 524 |
| 3 | Direct Imaging of Transient Molecular Structures with Ultrafast Diffraction. <i>Science</i> , 2001, 291, 458-462. | 6.0 | 486 |
| 4 | From The Cover: Visualizing reaction pathways in photoactive yellow protein from nanoseconds to seconds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7145-7150. | 3.3 | 256 |
| 5 | Lanthanum-catalysed synthesis of microporous 3D graphene-like carbons in a zeolite template. <i>Nature</i> , 2016, 535, 131-135. | 13.7 | 253 |
| 6 | Tracking the structural dynamics of proteins in solution using time-resolved wide-angle X-ray scattering. <i>Nature Methods</i> , 2008, 5, 881-886. | 9.0 | 245 |
| 7 | Clocking transient chemical changes by ultrafast electron diffraction. <i>Nature</i> , 1997, 386, 159-162. | 13.7 | 242 |
| 8 | Ultrafast X-ray Diffraction of Transient Molecular Structures in Solution. <i>Science</i> , 2005, 309, 1223-1227. | 6.0 | 230 |
| 9 | Single Nanowire on a Film as an Efficient SERS-Active Platform. <i>Journal of the American Chemical Society</i> , 2009, 131, 758-762. | 6.6 | 210 |
| 10 | Direct observation of bond formation in solution with femtosecond X-ray scattering. <i>Nature</i> , 2015, 518, 385-389. | 13.7 | 207 |
| 11 | A Photoresponsive Smart Covalent Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8704-8707. | 7.2 | 200 |
| 12 | Role of Water in Directing Diphenylalanine Assembly into Nanotubes and Nanowires. <i>Advanced Materials</i> , 2010, 22, 583-587. | 11.1 | 187 |
| 13 | 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. | 1.1 | 183 |
| 14 | Volume-conserving trans-cis isomerization pathways in photoactive yellow protein visualized by picosecond X-ray crystallography. <i>Nature Chemistry</i> , 2013, 5, 212-220. | 6.6 | 178 |
| 15 | Ultrafast myoglobin structural dynamics observed with an X-ray free-electron laser. <i>Nature Communications</i> , 2015, 6, 6772. | 5.8 | 157 |
| 16 | Simple Vapor-Phase Synthesis of Single-Crystalline Ag Nanowires and Single-Nanowire Surface-Enhanced Raman Scattering. <i>Journal of the American Chemical Society</i> , 2007, 129, 9576-9577. | 6.6 | 131 |
| 17 | Visualizing Solution-Phase Reaction Dynamics with Time-Resolved X-ray Liquidography. <i>Accounts of Chemical Research</i> , 2009, 42, 356-366. | 7.6 | 107 |
| 18 | Impulsive solvent heating probed by picosecond x-ray diffraction. <i>Journal of Chemical Physics</i> , 2006, 124, 124504. | 1.2 | 102 |

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|----|---|------|-----------|
| 19 | Liquid Crystalline Peptide Nanowires. <i>Advanced Materials</i> , 2007, 19, 3924-3927. | 11.1 | 99 |
| 20 | 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. | 6.6 | 95 |
| 21 | Self-Assembly of Semiconducting Photoluminescent Peptide Nanowires in the Vapor Phase. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1164-1167. | 7.2 | 94 |
| 22 | Steering Epitaxial Alignment of Au, Pd, and AuPd Nanowire Arrays by Atom Flux Change. <i>Nano Letters</i> , 2010, 10, 432-438. | 4.5 | 93 |
| 23 | Ultrafast charge transfer coupled with lattice phonons in two-dimensional covalent organic frameworks. <i>Nature Communications</i> , 2019, 10, 1873. | 5.8 | 93 |
| 24 | Ultrafast diffraction and structural dynamics: The nature of complex molecules far from equilibrium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 7117-7122. | 3.3 | 88 |
| 25 | Protein kinetics: Structures of intermediates and reaction mechanism from time-resolved x-ray data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4799-4804. | 3.3 | 88 |
| 26 | The Short-Lived Signaling State of the Photoactive Yellow Protein Photoreceptor Revealed by Combined Structural Probes. <i>Journal of the American Chemical Society</i> , 2011, 133, 9395-9404. | 6.6 | 83 |
| 27 | 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. | 6.6 | 82 |
| 28 | Noncovalently Netted, Photoconductive Sheets with Extremely High Carrier Mobility and Conduction Anisotropy from Triphenylene-Fused Metal Trigon Conjugates. <i>Journal of the American Chemical Society</i> , 2009, 131, 7287-7292. | 6.6 | 79 |
| 29 | Anti-counterfeit nanoscale fingerprints based on randomly distributed nanowires. <i>Nanotechnology</i> , 2014, 25, 155303. | 1.3 | 77 |
| 30 | Ultrafast electron diffraction and direct observation of transient structures in a chemical reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 338-342. | 3.3 | 76 |
| 31 | Ultrafast X-ray scattering: structural dynamics from diatomic to protein molecules. <i>International Reviews in Physical Chemistry</i> , 2010, 29, 453-520. | 0.9 | 76 |
| 32 | Spatiotemporal Kinetics in Solution Studied by Time-Resolved X-Ray Liquidography (Solution) <small>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2</small> | 1.0 | 75 |
| 33 | Atomistic characterization of the active-site solvation dynamics of a model photocatalyst. <i>Nature Communications</i> , 2016, 7, 13678. | 5.8 | 74 |
| 34 | Ultrafast electron diffraction: structures in dissociation dynamics of Fe(CO) ₅ . <i>Chemical Physics Letters</i> , 1997, 281, 10-19. | 1.2 | 71 |
| 35 | Single-step fabrication of quantum funnels via centrifugal colloidal casting of nanoparticle films. <i>Nature Communications</i> , 2015, 6, 7772. | 5.8 | 68 |
| 36 | Spatiotemporal reaction kinetics of an ultrafast photoreaction pathway visualized by time-resolved liquid x-ray diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9410-9415. | 3.3 | 64 |

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|----|---|------|-----------|
| 37 | Bionanosphere Lithography via Hierarchical Peptide Self-Assembly of Aromatic Triphenylalanine. <i>Small</i> , 2010, 6, 945-951. | 5.2 | 63 |
| 38 | Microtubes with Rectangular Cross-Section by Self-Assembly of a Short β -Peptide Foldamer. <i>Journal of the American Chemical Society</i> , 2012, 134, 20573-20576. | 6.6 | 61 |
| 39 | Recombination of photodissociated iodine: A time-resolved x-ray-diffraction study. <i>Journal of Chemical Physics</i> , 2006, 124, 034501. | 1.2 | 59 |
| 40 | Filming the Birth of Molecules and Accompanying Solvent Rearrangement. <i>Journal of the American Chemical Society</i> , 2013, 135, 3255-3261. | 6.6 | 59 |
| 41 | Ultrafast Electron Diffraction and Structural Dynamics: \ddot{A} Transient Intermediates in the Elimination Reaction of C ₂ F ₄ I ₂ . <i>Journal of Physical Chemistry A</i> , 2002, 106, 4087-4103. | 1.1 | 58 |
| 42 | Protein energy landscapes determined by five-dimensional crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 2534-2542. | 2.5 | 56 |
| 43 | Mapping the emergence of molecular vibrations mediating bond formation. <i>Nature</i> , 2020, 582, 520-524. | 13.7 | 55 |
| 44 | Capturing Transient Structures in the Elimination Reaction of Haloalkane in Solution by Transient X-ray Diffraction. <i>Journal of the American Chemical Society</i> , 2008, 130, 5834-5835. | 6.6 | 54 |
| 45 | Creating Well-Defined Hot Spots for Surface-Enhanced Raman Scattering by Single-Crystalline Noble Metal Nanowire Pairs. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7492-7496. | 1.5 | 54 |
| 46 | Transient X-ray Diffraction Reveals Global and Major Reaction Pathways for the Photolysis of Iodoform in Solution. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1047-1050. | 7.2 | 53 |
| 47 | Protein Tertiary Structural Changes Visualized by Time-Resolved X-ray Solution Scattering. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13131-13133. | 1.2 | 51 |
| 48 | Analysis of experimental time-resolved crystallographic data by singular value decomposition. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 860-871. | 2.5 | 50 |
| 49 | Conformations and Barriers of Haloethyl Radicals (CH ₂ XCH ₂ , X = F, Cl, Br, I): \ddot{A} Ab Initio Studies. <i>Journal of Physical Chemistry A</i> , 1999, 103, 6638-6649. | 1.1 | 49 |
| 50 | Photochemical Reaction Pathways of Carbon Tetrabromide in Solution Probed by Picosecond X-ray Diffraction. <i>Journal of the American Chemical Society</i> , 2007, 129, 13584-13591. | 6.6 | 49 |
| 51 | Ultrafast X-ray Solution Scattering Reveals an Unknown Reaction Intermediate in the Photolysis of [Ru ³⁺ (CO) ₁₂]. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5550-5553. | 7.2 | 48 |
| 52 | Ultrafast electron diffraction: determination of radical structure with picosecond time resolution. <i>Chemical Physics Letters</i> , 1998, 290, 1-8. | 1.2 | 45 |
| 53 | Ultrafast Structural Dynamics of the Photocleavage of Protein Hybrid Nanoparticles. <i>ACS Nano</i> , 2011, 5, 3788-3794. | 7.3 | 45 |
| 54 | Solvent-Dependent Molecular Structure of Ionic Species Directly Measured by Ultrafast X-Ray Solution Scattering. <i>Physical Review Letters</i> , 2013, 110, 165505. | 2.9 | 44 |

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|----|--|-----|-----------|
| 55 | Protein Structural Dynamics Revealed by Time-Resolved X-ray Solution Scattering. <i>Accounts of Chemical Research</i> , 2015, 48, 2200-2208. | 7.6 | 41 |
| 56 | CF ₂ XCF ₂ X and CF ₂ XCF ₂ Radicals (X = Cl, Br, I): Ab Initio and DFT Studies and Comparison with Experiments. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3623-3632. | 1.1 | 40 |
| 57 | Ultrafast X-ray Solution Scattering Reveals Different Reaction Pathways in the Photolysis of Triruthenium Dodecacarbonyl (Ru ₃ (CO) ₁₂) after Ultraviolet and Visible Excitation. <i>Journal of the American Chemical Society</i> , 2010, 132, 2600-2607. | 6.6 | 40 |
| 58 | Direct observation of myoglobin structural dynamics from 100 picoseconds to 1 microsecond with picosecond X-ray solution scattering. <i>Chemical Communications</i> , 2011, 47, 289-291. | 2.2 | 39 |
| 59 | Anisotropic Picosecond X-ray Solution Scattering from Photoselectively Aligned Protein Molecules. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 350-356. | 2.1 | 38 |
| 60 | Elongated Lifetime and Enhanced Flux of Hot Electrons on a Perovskite Plasmonic Nanodiode. <i>Nano Letters</i> , 2019, 19, 5489-5495. | 4.5 | 38 |
| 61 | Topical Review: Molecular reaction and solvation visualized by time-resolved X-ray solution scattering: Structure, dynamics, and their solvent dependence. <i>Structural Dynamics</i> , 2014, 1, 011301. | 0.9 | 37 |
| 62 | Ultrafast X-Ray Crystallography and Liquidography. <i>Annual Review of Physical Chemistry</i> , 2017, 68, 473-497. | 4.8 | 37 |
| 63 | Random Graft Polymer Directed Synthesis of Inorganic Mesostructures with Ultrathin Frameworks. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5117-5121. | 7.2 | 36 |
| 64 | Tracking reaction dynamics in solution by pump-probe X-ray absorption spectroscopy and X-ray liquidography (solution scattering). <i>Chemical Communications</i> , 2016, 52, 3734-3749. | 2.2 | 35 |
| 65 | Photochemistry of HgBr ₂ in methanol investigated using time-resolved X-ray liquidography. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11536. | 1.3 | 33 |
| 66 | 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. | 3.3 | 33 |
| 67 | Ultrafast X-ray diffraction in liquid, solution and gas: present status and future prospects. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, 270-280. | 0.3 | 32 |
| 68 | Spin-orbit density functional and ab initio study of HgX _n (X=F, Cl, Br, and I; n=1, 2, and 4). <i>Journal of Chemical Physics</i> , 2010, 133, 144309. | 1.2 | 32 |
| 69 | Au Nanowire-Au Nanoparticles Conjugated System which Provides Micrometer Size Molecular Sensors. <i>Chemistry - A European Journal</i> , 2010, 16, 1351-1355. | 1.7 | 31 |
| 70 | Charge Transfer-Induced Torsional Dynamics in the Excited State of 2,6-Bis(diphenylamino)anthraquinone. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24317-24323. | 1.5 | 30 |
| 71 | Ultrafast electron diffraction of transient cyclopentadienyl radical: A dynamic pseudorotary structure. <i>Chemical Physics Letters</i> , 2002, 353, 325-334. | 1.2 | 29 |
| 72 | Photodissociation Reaction of 1,2-Diiodoethane in Solution: A Theoretical and X-ray Diffraction Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10451-10458. | 1.1 | 28 |

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|----|---|-----|-----------|
| 73 | Initial Catalyst-Substrate Association Step in Ene Metathesis Catalyzed by Grubbs Ruthenium Complex Probed by Time-Dependent Fluorescence Quenching. <i>Journal of the American Chemical Society</i> , 2008, 130, 16506-16507. | 6.6 | 26 |
| 74 | 100-ps time-resolved solution scattering utilizing a wide-bandwidth X-ray beam from multilayer optics. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 391-394. | 1.0 | 26 |
| 75 | Photolysis of Br ₂ in CCl ₄ studied by time-resolved X-ray scattering. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, 252-260. | 0.3 | 26 |
| 76 | 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. | 0.9 | 26 |
| 77 | Quantitative Catalyst-Substrate Association Relationships between Metathesis Molybdenum or Ruthenium Carbene Complexes and Their Substrates. <i>Journal of the American Chemical Society</i> , 2010, 132, 12027-12033. | 6.6 | 25 |
| 78 | 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. | 1.1 | 25 |
| 79 | Ultrafast coherent motion and helix rearrangement of homodimeric hemoglobin visualized with femtosecond X-ray solution scattering. <i>Nature Communications</i> , 2021, 12, 3677. | 5.8 | 25 |
| 80 | Analyzing solution-phase time-resolved x-ray diffraction data by isolated-solute models. <i>Journal of Chemical Physics</i> , 2006, 125, 174504. | 1.2 | 23 |
| 81 | Reply to 'Contradictions in X-ray structures of intermediates in the photocycle of photoactive yellow protein'. <i>Nature Chemistry</i> , 2014, 6, 259-260. | 6.6 | 23 |
| 82 | Conformational Substates of Myoglobin Intermediate Resolved by Picosecond X-ray Solution Scattering. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 804-808. | 2.1 | 23 |
| 83 | Coherent Oscillations in Chlorosome Elucidated by Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1386-1392. | 2.1 | 23 |
| 84 | 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. | 0.9 | 22 |
| 85 | 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. | 1.3 | 22 |
| 86 | Density Functional and Ab Initio Study of Cr(CO) _n (n = 1-6) Complexes. <i>Journal of Physical Chemistry A</i> , 2007, 111, 4697-4710. | 1.1 | 20 |
| 87 | 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. | 0.9 | 19 |
| 88 | 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> , 2017, 4, 044013. | 0.9 | 19 |
| 89 | 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. | 1.0 | 18 |
| 90 | 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. | 0.6 | 18 |

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|-----|--|-----|-----------|
| 91 | Correlation between Functionality Preference of Ru Carbenes and <i>exo</i> / <i>endo</i> Product Selectivity for Clarifying the Mechanism of Ring-Closing Enyne Metathesis. <i>Journal of Organic Chemistry</i> , 2013, 78, 8242-8249. | 1.7 | 17 |
| 92 | Solvent-dependent structure of molecular iodine probed by picosecond X-ray solution scattering. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8633-8637. | 1.3 | 16 |
| 93 | Identifying the major intermediate species by combining time-resolved X-ray solution scattering and X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23298-23302. | 1.3 | 15 |
| 94 | 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. | 2.1 | 15 |
| 95 | High-throughput instant quantification of protein expression and purity based on photoactive yellow protein turn off/on label. <i>Protein Science</i> , 2013, 22, 1109-1117. | 3.1 | 14 |
| 96 | Filming ultrafast roaming-mediated isomerization of bismuth triiodide in solution. <i>Nature Communications</i> , 2021, 12, 4732. | 5.8 | 14 |
| 97 | Protein Folding Dynamics of Cytochrome <i>c</i> Seen by Transient Grating and Transient Absorption Spectroscopies. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3127-3135. | 1.2 | 13 |
| 98 | Effect of the abolition of intersubunit salt bridges on allosteric protein structural dynamics. <i>Chemical Science</i> , 2021, 12, 8207-8217. | 3.7 | 13 |
| 99 | ¹²⁹ Xe Nuclear magnetic resonance study on a solid-state defect in HZSM-5 zeolite. <i>Microporous Materials</i> , 1995, 4, 59-64. | 1.6 | 12 |
| 100 | Density Functional and Spin-Orbit Ab Initio Study of CF ₃ Br: Molecular Properties and Electronic Curve Crossing. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1264-1271. | 1.1 | 12 |
| 101 | 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. | 1.3 | 12 |
| 102 | Preference of Ruthenium-Based Metathesis Catalysts toward <i>Z</i> - and <i>E</i> -Alkenes as a Guide for Selective Reactions to Alkene Stereoisomers. <i>Journal of Organic Chemistry</i> , 2016, 81, 7591-7596. | 1.7 | 12 |
| 103 | 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. | 2.1 | 12 |
| 104 | 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. | 1.5 | 12 |
| 105 | Synthesis of <i>N</i> -aryl amines enabled by photocatalytic dehydrogenation. <i>Chemical Science</i> , 2021, 12, 1915-1923. | 3.7 | 12 |
| 106 | Folding Dynamics of Ferrocyclochrome <i>c</i> in a Denaturant-Free Environment Probed by Transient Grating Spectroscopy. <i>ChemPhysChem</i> , 2008, 9, 2708-2714. | 1.0 | 11 |
| 107 | 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. | 6.6 | 11 |
| 108 | Clustering of Platinum Atoms in Zeolite EMT Supercage: Comprehensive Physicochemical Characterization. <i>Studies in Surface Science and Catalysis</i> , 1994, 84, 765-772. | 1.5 | 10 |

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|-----|--|-----|-----------|
| 109 | Density Functional and ab Initio Investigation of CF ₂ ICF ₂ and CF ₂ CF ₂ Radicals in Gas and Solution Phases. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11059-11066. | 1.1 | 10 |
| 110 | Measurements of complex refractive index change of photoactive yellow protein over a wide wavelength range using hyperspectral quantitative phase imaging. <i>Scientific Reports</i> , 2018, 8, 3064. | 1.6 | 10 |
| 111 | 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. | 1.2 | 10 |
| 112 | Solvent-modulated proton-coupled electron transfer in an iridium complex with an ESIPT ligand. <i>Chemical Science</i> , 2022, 13, 3809-3818. | 3.7 | 10 |
| 113 | Light-induced protein structural dynamics in bacteriophytochrome revealed by time-resolved x-ray solution scattering. <i>Science Advances</i> , 2022, 8, . | 4.7 | 10 |
| 114 | Structure of the Photodissociation Products of CCl ₄ , CBr ₄ , and Cl ₄ in Solution Studied by DFT and ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11178-11187. | 1.1 | 9 |
| 115 | Theoretical Study on the Reaction of Ti ⁺ with Acetone and the Role of Intersystem Crossing. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11382-11389. | 1.1 | 9 |
| 116 | Protein Conformational Dynamics of Homodimeric Hemoglobin Revealed by Combined Time-Resolved Spectroscopic Probes. <i>ChemPhysChem</i> , 2010, 11, 109-114. | 1.0 | 9 |
| 117 | Reversible molecular motional switch based on circular photoactive protein oligomers exhibits unexpected photo-induced contraction. <i>Cell Reports Physical Science</i> , 2021, 2, 100512. | 2.8 | 9 |
| 118 | Determining the charge distribution and the direction of bond cleavage with femtosecond anisotropic x-ray liquidography. <i>Nature Communications</i> , 2022, 13, 522. | 5.8 | 9 |
| 119 | Advantages of time-resolved difference X-ray solution scattering curves in analyzing solute molecular structure. <i>Structural Chemistry</i> , 2010, 21, 37-42. | 1.0 | 8 |
| 120 | Reply to "Comment on "Proton Transfer of Guanine Radical Cations Studied by Time-Resolved Resonance Raman Spectroscopy Combined with Pulse Radiolysis". <i>Journal of Physical Chemistry B</i> , 2016, 120, 2987-2989. | 1.2 | 8 |
| 121 | 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. | 1.2 | 8 |
| 122 | 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> , 2019, 6, 064902. | 0.9 | 8 |
| 123 | Ultrafast structural dynamics of in-cage isomerization of diiodomethane in solution. <i>Chemical Science</i> , 2021, 12, 2114-2120. | 3.7 | 8 |
| 124 | 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. | 1.0 | 8 |
| 125 | Density functional and ab initio studies on structures and energies of the ground state of CrCO. <i>International Journal of Quantum Chemistry</i> , 2007, 107, 458-463. | 1.0 | 7 |
| 126 | Molecular Structures, Energetics, and Electronic Properties of Neutral and Charged Hg _n Clusters (n=) Tj ETQq0 0 0 ggBT /Overlock 10 Tf | 1.1 | 7 |

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|-----|--|-----|-----------|
| 127 | Protein Structural Dynamics of Wild-Type and Mutant Homodimeric Hemoglobin Studied by Time-Resolved X-Ray Solution Scattering. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3633. | 1.8 | 7 |
| 128 | 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. | 0.9 | 7 |
| 129 | Relaxation Dynamics of Enhanced Hot-Electron Flow on Perovskite-Coupled Plasmonic Silver Schottky Nanodiodes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2575-2582. | 1.5 | 7 |
| 130 | Reaction dynamics studied via femtosecond X-ray liquidography at X-ray free-electron lasers. <i>Chemical Science</i> , 2022, 13, 8457-8490. | 3.7 | 7 |
| 131 | Picosecond Diffraction at the ESRF: How Far Have We Come and Where Are We Going?. <i>AIP Conference Proceedings</i> , 2007, , . | 0.3 | 6 |
| 132 | Chromophore-Removal-Induced Conformational Change in Photoactive Yellow Protein Determined through Spectroscopic and X-ray Solution Scattering Studies. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4513-4520. | 1.2 | 6 |
| 133 | Proton Transfer Accompanied by the Oxidation of Adenosine. <i>Chemistry - A European Journal</i> , 2019, 25, 7711-7718. | 1.7 | 6 |
| 134 | Enhancement of Energy Transfer Efficiency with Structural Control of Multichromophore Light Harvesting Assembly. <i>Advanced Science</i> , 2020, 7, 2001623. | 5.6 | 6 |
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