Hyotcherl Ihee

List of Publications by Year in Descending Order

159 papers	7,270 citations	45 h-index	82 g-index
177 ext. papers	8,018 ext. citations	9.2 avg, IF	5.58 L-index

#	Paper	IF	Citations
159	Determining the charge distribution and the direction of bond cleavage with femtosecond anisotropic x-ray liquidography.. *Nature Communications*, **2022**, 13, 522	17.4	1
158	Solvent-modulated proton-coupled electron transfer in an iridium complex with an ESIPT ligand.. *Chemical Science*, **2022**, 13, 3809-3818	9.4	2
157	Ultrafast coherent motion and helix rearrangement of homodimeric hemoglobin visualized with femtosecond X-ray solution scattering. *Nature Communications*, **2021**, 12, 3677	17.4	7
156	Uncovering the Conformational Distribution of a Small Protein with Nanoparticle-Aided Cryo-Electron Microscopy Sampling. *Journal of Physical Chemistry Letters*, **2021**, 12, 6565-6573	6.4	0
155	Relaxation Dynamics of Enhanced Hot-Electron Flow on Perovskite-Coupled Plasmonic Silver Schottky Nanodiodes. *Journal of Physical Chemistry C*, **2021**, 125, 2575-2582	3.8	2
154	Femtosecond X-ray Liquidography Visualizes Wavepacket Trajectories in Multidimensional Nuclear Coordinates for a Bimolecular Reaction. *Accounts of Chemical Research*, **2021**, 54, 1685-1698	24.3	1
153	Reversible molecular motional switch based on circular photoactive protein oligomers exhibits unexpected photo-induced contraction.. *Cell Reports Physical Science*, **2021**, 2, 100512-100512	6.1	4
152	Filming ultrafast roaming-mediated isomerization of bismuth triiodide in solution. *Nature Communications*, **2021**, 12, 4732	17.4	5
151	Optical Kerr Effect of Liquid Acetonitrile Probed by Femtosecond Time-Resolved X-ray Liquidography. *Journal of the American Chemical Society*, **2021**, 143, 14261-14273	16.4	3
150	Structural dynamics probed by X-ray pulses from synchrotrons and XFELs. *Comptes Rendus Physique* , **2021**, 22, 1-20	1.4	1
149	Effect of the abolition of intersubunit salt bridges on allosteric protein structural dynamics. *Chemical Science*, **2021**, 12, 8207-8217	9.4	4
148	Exciton delocalization length in chlorosomes investigated by lineshape dynamics of two-dimensional electronic spectra. *Physical Chemistry Chemical Physics*, **2021**, 23, 24111-24117	3.6	1
147	High electroluminescence efficiency and long device lifetime of a fluorescent green-light emitter using aggregation-induced emission. *Journal of Industrial and Engineering Chemistry*, **2020**, 87, 213-221	6.3	1
146	Mapping the emergence of molecular vibrations mediating bond formation. *Nature*, **2020**, 582, 520-524	50.4	28
145	Protein folding from heterogeneous unfolded state revealed by time-resolved X-ray solution scattering. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14996-15005	11.5	19
144	Effect of Occluded Ligand Migration on the Kinetics and Structural Dynamics of Homodimeric Hemoglobin. *Journal of Physical Chemistry B*, **2020**, 124, 1550-1556	3.4	3
143	Charge transfer induced by electronic state mixing in a symmetric X-Y-X-type multi-chromophore system. *Physical Chemistry Chemical Physics*, **2020**, 22, 28440-28447	3.6	2

142	Estimating signal and noise of time-resolved X-ray solution scattering data at synchrotrons and XFELs. *Journal of Synchrotron Radiation*, **2020**, 27, 633-645	2.4	0
141	Preface to the special issue: Selected papers from the 5th International Conference on Ultrafast Structural Dynamics. *Structural Dynamics*, **2020**, 7, 060402	3.2	
140	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	3.8	5
139	Enhancement of Energy Transfer Efficiency with Structural Control of Multichromophore Light-Harvesting Assembly. *Advanced Science*, **2020**, 7, 2001623	13.6	1
138	Synthesis of -aryl amines enabled by photocatalytic dehydrogenation. *Chemical Science*, **2020**, 12, 1915-1923	9.4	5
137	Ultrafast structural dynamics of in-cage isomerization of diiodomethane in solution. *Chemical Science*, **2020**, 12, 2114-2120	9.4	3
136	Sub-nanosecond secondary geminate recombination in mercury halides HgX2 (X = I, Br) investigated by time-resolved x-ray scattering. *Journal of Chemical Physics*, **2019**, 151, 054310	3.9	1
135	Ultrafast charge transfer coupled with lattice phonons in two-dimensional covalent organic frameworks. *Nature Communications*, **2019**, 10, 1873	17.4	55
134	Formation of the Charge-Localized Dimer Radical Cation of 2-Ethyl-9,10-dimethoxyanthracene in Solution Phase. *Chemistry - A European Journal*, **2019**, 25, 5586-5594	4.8	1
133	Structural Dynamics of Bismuth Triiodide in Solution Triggered by Photoinduced Ligand-to-Metal Charge Transfer. *Journal of Physical Chemistry Letters*, **2019**, 10, 1279-1285	6.4	5
132	SVD-aided non-orthogonal decomposition (SANOD) method to exploit prior knowledge of spectral components in the analysis of time-resolved data. *Structural Dynamics*, **2019**, 6, 024303	3.2	4
131	Proton Transfer Accompanied by the Oxidation of Adenosine. *Chemistry - A European Journal*, **2019**, 25, 7711-7718	4.8	5
130	Fate of transient isomer of CHI: Mechanism and origin of ionic photoproducts formation unveiled by time-resolved x-ray liquidography. *Journal of Chemical Physics*, **2019**, 150, 224201	3.9	6
129	Elongated Lifetime and Enhanced Flux of Hot Electrons on a Perovskite Plasmonic Nanodiode. *Nano Letters*, **2019**, 19, 5489-5495	11.5	23
128	Sterically Controlled Excited-State Intramolecular Proton Transfer Dynamics in Solution. *Journal of Physical Chemistry C*, **2019**, 123, 29116-29125	3.8	4
127	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	3.2	6
126	Measurements of complex refractive index change of photoactive yellow protein over a wide wavelength range using hyperspectral quantitative phase imaging. *Scientific Reports*, **2018**, 8, 3064	4.9	8
125	Chromophore-Removal-Induced Conformational Change in Photoactive Yellow Protein Determined through Spectroscopic and X-ray Solution Scattering Studies. *Journal of Physical Chemistry B*, **2018**, 122, 4513-4520	3.4	4

124	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	6.4	10
123	Protein Structural Dynamics of Wild-Type and Mutant Homodimeric Hemoglobin Studied by Time-Resolved X-Ray Solution Scattering. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	6
122	Regulation of Protein Structural Changes by Incorporation of a Small-Molecule Linker. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	1
121	Photocycle of Photoactive Yellow Protein in Cell-Mimetic Environments: Molecular Volume Changes and Kinetics. *Journal of Physical Chemistry B*, **2017**, 121, 769-779	3.4	4
120	Kinetics of the E46Q mutant of photoactive yellow protein investigated by transient grating spectroscopy. *Chemical Physics Letters*, **2017**, 683, 262-267	2.5	2
119	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	3.2	17
118	Ultrafast X-Ray Crystallography and Liquidography. *Annual Review of Physical Chemistry*, **2017**, 68, 473-497	13.7	25
117	Charge Transfer-Induced Torsional Dynamics in the Excited State of 2,6-Bis(diphenylamino)anthraquinone. *Journal of Physical Chemistry C*, **2017**, 121, 24317-24323	3.8	23
116	Reply to "Comment on 'Proton Transfer of Guanine Radical Cations Studied by Time-Resolved Resonance Raman Spectroscopy Combined with Pulse Radiolysis'" *Journal of Physical Chemistry B*, **2016**, 120, 2987-2989	3.4	7
115	Lanthanum-catalysed synthesis of microporous 3D graphene-like carbons in a zeolite template. *Nature*, **2016**, 535, 131-5	50.4	188
114	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
113	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	3.6	18
112	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
111	Atomistic characterization of the active-site solvation dynamics of a model photocatalyst. *Nature Communications*, **2016**, 7, 13678	17.4	58
110	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	3.2	19
109	Preference of Ruthenium-Based Metathesis Catalysts toward Z- and E-Alkenes as a Guide for Selective Reactions to Alkene Stereoisomers. *Journal of Organic Chemistry*, **2016**, 81, 7591-6	4.2	9
108	Single-step fabrication of quantum funnels via centrifugal colloidal casting of nanoparticle films. *Nature Communications*, **2015**, 6, 7772	17.4	57
107	Role of thermal excitation in ultrafast energy transfer in chlorosomes revealed by two-dimensional electronic spectroscopy. *Physical Chemistry Chemical Physics*, **2015**, 17, 17872-9	3.6	10

106	The time scale of the quaternary structural changes in hemoglobin revealed using the transient grating technique. *Physical Chemistry Chemical Physics*, **2015**, 17, 22571-5	3.6	3
105	Protein structural dynamics revealed by time-resolved X-ray solution scattering. *Accounts of Chemical Research*, **2015**, 48, 2200-8	24.3	33
104	Identifying the major intermediate species by combining time-resolved X-ray solution scattering and X-ray absorption spectroscopy. *Physical Chemistry Chemical Physics*, **2015**, 17, 23298-302	3.6	13
103	Solvent-dependent structure of molecular iodine probed by picosecond X-ray solution scattering. *Physical Chemistry Chemical Physics*, **2015**, 17, 8633-7	3.6	12
102	A Photoresponsive Smart Covalent Organic Framework. *Angewandte Chemie - International Edition*, **2015**, 54, 8704-7	16.4	151
101	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	1.3	15
100	Ultrafast myoglobin structural dynamics observed with an X-ray free-electron laser. *Nature Communications*, **2015**, 6, 6772	17.4	131
99	Direct observation of bond formation in solution with femtosecond X-ray scattering. *Nature*, **2015**, 518, 385-9	50.4	173
98	Reply to 'contradictions in X-ray structures of intermediates in the photocycle of photoactive yellow protein'. *Nature Chemistry*, **2014**, 6, 259-60	17.6	20
97	Random-graft polymer-directed synthesis of inorganic mesostructures with ultrathin frameworks. *Angewandte Chemie - International Edition*, **2014**, 53, 5117-21	16.4	34
96	Anti-counterfeit nanoscale fingerprints based on randomly distributed nanowires. *Nanotechnology*, **2014**, 25, 155303	3.4	52
95	Random-Graft Polymer-Directed Synthesis of Inorganic Mesostructures with Ultrathin Frameworks. *Angewandte Chemie*, **2014**, 126, 5217-5221	3.6	6
94	Conformational Substates of Myoglobin Intermediate Resolved by Picosecond X-ray Solution Scattering. *Journal of Physical Chemistry Letters*, **2014**, 5, 804-808	6.4	20
93	Coherent Oscillations in Chlorosome Elucidated by Two-Dimensional Electronic Spectroscopy. *Journal of Physical Chemistry Letters*, **2014**, 5, 1386-92	6.4	22
92	Sub-100-ps structural dynamics of horse heart myoglobin probed by time-resolved X-ray solution scattering. *Chemical Physics*, **2014**, 422, 137-142	2.3	17
91	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
90	Pump-Probe X-ray Solution Scattering Reveals Accelerated Folding of Cytochrome Upon Suppression of Misligation. *Bulletin of the Korean Chemical Society*, **2014**, 35, 695-696	1.2	5
89	Ultrafast Energy Transfer in Chlorosome Probed by Femtosecond Pump-Probe Polarization Anisotropy. *Bulletin of the Korean Chemical Society*, **2014**, 35, 703-704	1.2	1

88	Correlation between functionality preference of Ru carbenes and exo/endo product selectivity for clarifying the mechanism of ring-closing enyne metathesis. *Journal of Organic Chemistry*, **2013**, 78, 8242-9	4.2	15
87	Prospect of Retrieving Vibrational Wave Function by Single-Object Scattering Sampling. *Journal of Physical Chemistry Letters*, **2013**, 4, 3345-50	6.4	3
86	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, 735-40	2.8	167
85	Volume-conserving trans-cis isomerization pathways in photoactive yellow protein visualized by picosecond X-ray crystallography. *Nature Chemistry*, **2013**, 5, 212-20	17.6	138
84	High-throughput instant quantification of protein expression and purity based on photoactive yellow protein turn off/on label. *Protein Science*, **2013**, 22, 1109-17	6.3	12
83	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, 3861-8	2.8	3
82	Filming the birth of molecules and accompanying solvent rearrangement. *Journal of the American Chemical Society*, **2013**, 135, 3255-61	16.4	49
81	Protein energy landscapes determined by five-dimensional crystallography. *Acta Crystallographica Section D: Biological Crystallography*, **2013**, 69, 2534-42		42
80	Solvent-dependent molecular structure of ionic species directly measured by ultrafast x-ray solution scattering. *Physical Review Letters*, **2013**, 110, 165505	7.4	33
79	Global reaction pathways in the photodissociation of I3 (-) ions in solution at 267 and 400 nm studied by picosecond X-ray liquidography. *ChemPhysChem*, **2013**, 14, 3687-97	3.2	14
78	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, 3145-53	16.4	88
77	Microtubes with rectangular cross-section by self-assembly of a short □peptide foldamer. *Journal of the American Chemical Society*, **2012**, 134, 20573-6	16.4	53
76	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, 7001-8	16.4	70
75	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
74	Theoretical study on the reaction of butadiynyl radical (C4H) with ethylene (C2H4) to form C6H4 and H. *International Journal of Quantum Chemistry*, **2012**, 112, 1913-1925	2.1	3
73	Protein folding dynamics of cytochrome c seen by transient grating and transient absorption spectroscopies. *Journal of Physical Chemistry B*, **2011**, 115, 3127-35	3.4	13
72	Spin□rbit ab initio study of two low-lying states of chloroiodomethane cation. *Theoretical Chemistry Accounts*, **2011**, 129, 343-347	1.9	4
71	Self-Assembly of Semiconducting Photoluminescent Peptide Nanowires in the Vapor Phase. *Angewandte Chemie*, **2011**, 123, 1196-1199	3.6	20

70	Self-assembly of semiconducting photoluminescent peptide nanowires in the vapor phase. *Angewandte Chemie - International Edition*, **2011**, 50, 1164-7	16.4	82
69	Direct observation of myoglobin structural dynamics from 100 picoseconds to 1 microsecond with picosecond X-ray solution scattering. *Chemical Communications*, **2011**, 47, 289-91	5.8	34
68	The short-lived signaling state of the photoactive yellow protein photoreceptor revealed by combined structural probes. *Journal of the American Chemical Society*, **2011**, 133, 9395-404	16.4	71
67	Ultrafast structural dynamics of the photocleavage of protein hybrid nanoparticles. *ACS Nano*, **2011**, 5, 3788-94	16.7	42
66	Anisotropic Picosecond X-ray Solution Scattering from Photo-selectively Aligned Protein Molecules. *Journal of Physical Chemistry Letters*, **2011**, 2, 350-356	6.4	36
65	Density functional and spin-orbit ab initio study of CF3Br: molecular properties and electronic curve crossing. *Journal of Physical Chemistry A*, **2011**, 115, 1264-71	2.8	10
64	Novel Single-Molecule Technique by Single-Object Scattering Sampling (SOSS). *Bulletin of the Korean Chemical Society*, **2011**, 32, 1849-1850	1.2	3
63	Spin-orbit density functional and ab initio study of HgX(n) (X=F, Cl, Br, and I; n=1, 2, and 4). *Journal of Chemical Physics*, **2010**, 133, 144309	3.9	29
62	Photochemistry of HgBr(2) in methanol investigated using time-resolved X-ray liquidography. *Physical Chemistry Chemical Physics*, **2010**, 12, 11536-47	3.6	31
61	Ultrafast X-ray solution scattering reveals different reaction pathways in the photolysis of triruthenium dodecacarbonyl (Ru3(CO)12) after ultraviolet and visible excitation. *Journal of the American Chemical Society*, **2010**, 132, 2600-7	16.4	33
60	Molecular structures, energetics, and electronic properties of neutral and charged Hg(n) clusters (n = 2-8). *Journal of Physical Chemistry A*, **2010**, 114, 5630-9	2.8	7
59	Quantitative catalyst-substrate association relationships between metathesis molybdenum or ruthenium carbene complexes and their substrates. *Journal of the American Chemical Society*, **2010**, 132, 12027-33	16.4	25
58	Ultrafast X-ray scattering: structural dynamics from diatomic to protein molecules. *International Reviews in Physical Chemistry*, **2010**, 29, 453-520	7	62
57	Steering epitaxial alignment of Au, Pd, and AuPd nanowire arrays by atom flux change. *Nano Letters*, **2010**, 10, 432-8	11.5	84
56	Advantages of time-resolved difference X-ray solution scattering curves in analyzing solute molecular structure. *Structural Chemistry*, **2010**, 21, 37-42	1.8	5
55	Protein conformational dynamics of homodimeric hemoglobin revealed by combined time-resolved spectroscopic probes. *ChemPhysChem*, **2010**, 11, 109-14	3.2	9
54	Role of water in directing diphenylalanine assembly into nanotubes and nanowires. *Advanced Materials*, **2010**, 22, 583-7	24	156
53	Au nanowire-Au nanoparticles conjugated system which provides micrometer size molecular sensors. *Chemistry - A European Journal*, **2010**, 16, 1351-5	4.8	29

52	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
51	Photolysis of Br2 in CCl4 studied by time-resolved X-ray scattering. *Acta Crystallographica Section A: Foundations and Advances*, **2010**, 66, 252-60		24
50	Bionanosphere lithography via hierarchical peptide self-assembly of aromatic triphenylalanine. *Small*, **2010**, 6, 945-51	11	57
49	Spatiotemporal kinetics in solution studied by time-resolved X-ray liquidography (solution scattering). *ChemPhysChem*, **2009**, 10, 1958-80	3.2	67
48	Spatiotemporal Kinetics in Solution Studied by Time-Resolved X-Ray Liquidography (Solution Scattering). *ChemPhysChem*, **2009**, 10, 3140-3140	3.2	2
47	A photoconductive covalent organic framework: self-condensed arene cubes composed of eclipsed 2D polypyrene sheets for photocurrent generation. *Angewandte Chemie - International Edition*, **2009**, 48, 5439-42	16.4	460
46	100 ps time-resolved solution scattering utilizing a wide-bandwidth X-ray beam from multilayer optics. *Journal of Synchrotron Radiation*, **2009**, 16, 391-4	2.4	24
45	Creating Well-Defined Hot Spots for Surface-Enhanced Raman Scattering by Single-Crystalline Noble Metal Nanowire Pairs. *Journal of Physical Chemistry C*, **2009**, 113, 7492-7496	3.8	53
44	Theoretical study on the reaction of Ti+ with acetone and the role of intersystem crossing. *Journal of Physical Chemistry A*, **2009**, 113, 11382-9	2.8	9
43	Visualizing solution-phase reaction dynamics with time-resolved X-ray liquidography. *Accounts of Chemical Research*, **2009**, 42, 356-66	24.3	93
42	Noncovalently netted, photoconductive sheets with extremely high carrier mobility and conduction anisotropy from triphenylene-fused metal trigon conjugates. *Journal of the American Chemical Society*, **2009**, 131, 7287-92	16.4	67
41	Single nanowire on a film as an efficient SERS-active platform. *Journal of the American Chemical Society*, **2009**, 131, 758-62	16.4	201
40	Protein tertiary structural changes visualized by time-resolved X-ray solution scattering. *Journal of Physical Chemistry B*, **2009**, 113, 13131-3	3.4	48
39	Density functional and ab initio investigation of CF2ICF2I and CF2CF2I radicals in gas and solution phases. *Journal of Physical Chemistry A*, **2009**, 113, 11059-66	2.8	9
38	Tracking the structural dynamics of proteins in solution using time-resolved wide-angle X-ray scattering. *Nature Methods*, **2008**, 5, 881-6	21.6	216
37	Capturing transient structures in the elimination reaction of haloalkane in solution by transient X-ray diffraction. *Journal of the American Chemical Society*, **2008**, 130, 5834-5	16.4	46
36	Initial catalyst-substrate association step in enyne metathesis catalyzed by grubbs ruthenium complex probed by time-dependent fluorescence quenching. *Journal of the American Chemical Society*, **2008**, 130, 16506-7	16.4	24
35	Folding dynamics of ferrocytochrome C in a denaturant-free environment probed by transient grating spectroscopy. *ChemPhysChem*, **2008**, 9, 2708-14	3.2	11

34	Transient X-ray diffraction reveals global and major reaction pathways for the photolysis of iodoform in solution. *Angewandte Chemie - International Edition*, **2008**, 47, 1047-50	16.4	46
33	Ultrafast X-ray solution scattering reveals an unknown reaction intermediate in the photolysis of [Ru3(CO)12]. *Angewandte Chemie - International Edition*, **2008**, 47, 5550-3	16.4	39
32	A belt-shaped, blue luminescent, and semiconducting covalent organic framework. *Angewandte Chemie - International Edition*, **2008**, 47, 8826-30	16.4	637
31	Transient X-ray Diffraction Reveals Global and Major Reaction Pathways for the Photolysis of Iodoform in Solution. *Angewandte Chemie*, **2008**, 120, 1063-1066	3.6	6
30	Simple vapor-phase synthesis of single-crystalline ag nanowires and single-nanowire surface-enhanced Raman scattering. *Journal of the American Chemical Society*, **2007**, 129, 9576-7	16.4	123
29	Photochemical reaction pathways of carbon tetrabromide in solution probed by picosecond X-ray diffraction. *Journal of the American Chemical Society*, **2007**, 129, 13584-91	16.4	44
28	Liquid Crystalline Peptide Nanowires. *Advanced Materials*, **2007**, 19, 3924-3927	24	95
27	Density functional and ab initio studies on structures and energies of the ground state of CrCO. *International Journal of Quantum Chemistry*, **2007**, 107, 458-463	2.1	7
26	Density functional and Ab initio study of Cr(CO)n (n = 1-6) complexes. *Journal of Physical Chemistry A*, **2007**, 111, 4697-710	2.8	17
25	Picosecond Diffraction at the ESRF: How Far Have We Come and Where Are We Going?. *AIP Conference Proceedings*, **2007**,	0	5
24	Analyzing solution-phase time-resolved x-ray diffraction data by isolated-solute models. *Journal of Chemical Physics*, **2006**, 125, 174504	3.9	20
23	Spatiotemporal reaction kinetics of an ultrafast photoreaction pathway visualized by time-resolved liquid x-ray diffraction. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 9410-5	11.5	55
22	Impulsive solvent heating probed by picosecond x-ray diffraction. *Journal of Chemical Physics*, **2006**, 124, 124504	3.9	88
21	Structure of the photodissociation products of CCl4, CBr4, and CI4 in solution studied by DFT and ab initio calculations. *Journal of Physical Chemistry A*, **2006**, 110, 11178-87	2.8	9
20	Recombination of photodissociated iodine: a time-resolved x-ray-diffraction study. *Journal of Chemical Physics*, **2006**, 124, 034501	3.9	53
19	Photodissociation reaction of 1,2-diiodoethane in solution: a theoretical and X-ray diffraction study. *Journal of Physical Chemistry A*, **2005**, 109, 10451-8	2.8	24
18	Ultrafast x-ray diffraction of transient molecular structures in solution. *Science*, **2005**, 309, 1223-7	33.3	207
17	Visualizing reaction pathways in photoactive yellow protein from nanoseconds to seconds. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 7145-50	11.5	233

16	Analysis of experimental time-resolved crystallographic data by singular value decomposition. *Acta Crystallographica Section D: Biological Crystallography*, **2004**, 60, 860-71		38
15	Protein kinetics: structures of intermediates and reaction mechanism from time-resolved x-ray data. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 4799-804	11.5	77
14	Ultrafast electron diffraction of transient cyclopentadienyl radical: A dynamic pseudorotary structure. *Chemical Physics Letters*, **2002**, 353, 325-334	2.5	24
13	Ultrafast Electron Diffraction and Structural Dynamics: Transient Intermediates in the Elimination Reaction of C2F4I2. *Journal of Physical Chemistry A*, **2002**, 106, 4087-4103	2.8	49
12	Ultrafast diffraction and structural dynamics: the nature of complex molecules far from equilibrium. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 7117-22	11.5	80
11	CF2XCF2X and CF2XCF2Radicals (X = Cl, Br, I): Ab Initio and DFT Studies and Comparison with Experiments. *Journal of Physical Chemistry A*, **2001**, 105, 3623-3632	2.8	36
10	Direct imaging of transient molecular structures with ultrafast diffraction. *Science*, **2001**, 291, 458-62	33.3	415
9	Ultrafast Electron Diffraction of Transient. *Angewandte Chemie - International Edition*, **2001**, 40, 1532-1536	16.4	3
8	Ultrafast electron diffraction and direct observation of transient structures in a chemical reaction. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 338-42	11.5	70
7	Conformations and Barriers of Haloethyl Radicals (CH2XCH2, X = F, Cl, Br, I): Ab Initio Studies. *Journal of Physical Chemistry A*, **1999**, 103, 6638-6649	2.8	43
6	Ultrafast electron diffraction: determination of radical structure with picosecond time resolution. *Chemical Physics Letters*, **1998**, 290, 1-8	2.5	44
5	Clocking transient chemical changes by ultrafast electron diffraction. *Nature*, **1997**, 386, 159-162	50.4	198
4	Ultrafast electron diffraction: structures in dissociation dynamics of Fe(CO)5. *Chemical Physics Letters*, **1997**, 281, 10-19	2.5	61
3	129Xe Nuclear magnetic resonance study on a solid-state defect in HZSM-5 zeolite. *Microporous Materials*, **1995**, 4, 59-64		11
2	Clustering of Platinum Atoms in Zeolite EMT Supercage: Comprehensive Physicochemical Characterization. *Studies in Surface Science and Catalysis*, **1994**, 84, 765-772	1.8	7
1	Ultrafast excited state relaxation dynamics in a heteroleptic Ir(III) complex, fac-Ir(ppy)2(ppz), revealed by femtosecond X-ray transient absorption spectroscopy. *Inorganic Chemistry Frontiers*,	6.8	3