Majed Chergui

List of Publications by Year
in descending order

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307 papers	14,099 citations	17405 63 h-index	30010 103 g-index
326 all docs	326 docs citations	326 times ranked	11325 citing authors

#	Article	IF	Citations
1	Femtosecond XANES Study of the Light-Induced Spin Crossover Dynamics in an Iron(II) Complex. Science, 2009, 323, 489-492.	6.0	497
2	Ultrafast X-ray Absorption Spectroscopy. Chemical Reviews, 2004, 104, 1781-1812.	23.0	444
3	Photochemically Grown Silver Nanoparticles with Wavelength-Controlled Size and Shape. Nano Letters, 2003, 3, 1565-1568.	4.5	436
4	Sub-50-fs photoinduced spin crossover in [Fe(bpy)3]2+. Nature Chemistry, 2015, 7, 629-633.	6.6	304
5	Ultrafast Nonadiabatic Dynamics of [FeII(bpy)3]2+in Solution. Journal of the American Chemical Society, 2007, 129, 8199-8206.	6.6	303
6	Femtosecond Fluorescence and Intersystem Crossing in Rhenium(I) Carbonylâ^'Bipyridine Complexes. Journal of the American Chemical Society, 2008, 130, 8967-8974.	6.6	269
7	Broadband Femtosecond Fluorescence Spectroscopy of [Ru(bpy)3]2+. Angewandte Chemie - International Edition, 2006, 45, 3174-3176.	7.2	251
8	Light-induced spin crossover in Fe(II)-based complexes: The full photocycle unraveled by ultrafast optical and X-ray spectroscopies. Coordination Chemistry Reviews, 2010, 254, 2677-2686.	9.5	246
9	Electron and Xâ€Ray Methods of Ultrafast Structural Dynamics: Advances and Applications. ChemPhysChem, 2009, 10, 28-43.	1.0	206
10	Structural Determination of a Short-Lived Excited Iron(II) Complex by Picosecond X-Ray Absorption Spectroscopy. Physical Review Letters, 2007, 98, 057401.	2.9	204
11	Photoinduced Structural Dynamics of Molecular Systems Mapped by Time-Resolved X-ray Methods. Chemical Reviews, 2017, 117, 11025-11065.	23.0	189
12	Fluorescence and Phosphorescence from IndividualC60Molecules Excited by Local Electron Tunneling. Physical Review Letters, 2005, 95, 196102.	2.9	172
13	Ultrafast Excited-State Dynamics of Rhenium(I) Photosensitizers [Re(Cl)(CO)₃(N,N)] and [Re(imidazole)(CO)₃(N,N)]⁺: Diimine Effects. Inorganic Chemistry, 2011, 50, 2932-2943.	1.9	171
14	Observing Photochemical Transients by Ultrafast X-Ray Absorption Spectroscopy. Physical Review Letters, 2003, 90, 047403.	2.9	167
15	Electronic and Molecular Structure of Photoexcited [RuII(bpy)3]2+Probed by Picosecond X-ray Absorption Spectroscopy. Journal of the American Chemical Society, 2006, 128, 5001-5009.	6.6	165
16	Ultrafast Photophysics of Transition Metal Complexes. Accounts of Chemical Research, 2015, 48, 801-808.	7.6	165
17	Vibrational Coherences and Relaxation in the Highâ€Spin State of Aqueous [Fe^{II}(bpy)₃]²⁺. Angewandte Chemie - International Edition, 2009, 48, 7184-7187.	7.2	164
18	Recent experimental and theoretical developments in time-resolved X-ray spectroscopies. Coordination Chemistry Reviews, 2014, 277-278, 44-68.	9.5	161

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19	Molecular Structural Dynamics Probed by Ultrafast X-Ray Absorption Spectroscopy. Annual Review of Physical Chemistry, 2010, 61, 263-282.	4.8	150
20	Strongly bound excitons in anatase TiO2 single crystals and nanoparticles. Nature Communications, 2017, 8, 13.	5.8	148
21	Charge migration and charge transfer in molecular systems. Structural Dynamics, 2017, 4, 061508.	0.9	146
22	Synthesis of High Quality Zinc Blende CdSe Nanocrystals. Journal of Physical Chemistry B, 2005, 109, 10533-10537.	1.2	144
23	A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. Nature Photonics, 2020, 14, 748-754.	15.6	140
24	Temperature effects on the spectral properties of colloidal CdSe nanodots, nanorods, and tetrapods. Applied Physics Letters, 2007, 90, 093104.	1.5	139
25	Probing the Ultrafast Charge Translocation of Photoexcited Retinal in Bacteriorhodopsin. Science, 2005, 309, 917-920.	6.0	123
26	Vibrational Relaxation and Intersystem Crossing of Binuclear Metal Complexes in Solution. Journal of the American Chemical Society, 2011, 133, 305-315.	6.6	122
27	Ultrafast Tryptophan-to-Heme Electron Transfer in Myoglobins Revealed by UV 2D Spectroscopy. Science, 2013, 339, 1586-1589.	6.0	122
28	Ultrafast Excited-State Dynamics of [Re(L)(CO)₃(bpy)]ⁿ Complexes: Involvement of the Solvent. Journal of Physical Chemistry A, 2010, 114, 6361-6369.	1.1	118
29	Structural Determination of a Photochemically Active Diplatinum Molecule by Timeâ€Resolved EXAFS Spectroscopy. Angewandte Chemie - International Edition, 2009, 48, 2711-2714.	7.2	116
30	On the interplay between charge, spin and structural dynamics in transition metal complexes. Dalton Transactions, 2012, 41, 13022.	1.6	115
31	Solvent-Induced Luminescence Quenching: Static and Time-Resolved X-Ray Absorption Spectroscopy of a Copper(I) Phenanthroline Complex. Journal of Physical Chemistry A, 2013, 117, 4591-4601.	1.1	111
32	A high-repetition rate scheme for synchrotron-based picosecond laser pump/x-ray probe experiments on chemical and biological systems in solution. Review of Scientific Instruments, 2011, 82, 063111.	0.6	103
33	Coherent ultrafast torsional motion and isomerization of a biomimetic dipolar photoswitch. Physical Chemistry Chemical Physics, 2010, 12, 3178.	1.3	100
34	Mapping of the Photoinduced Electron Traps in TiO₂ by Picosecond Xâ€ray Absorption Spectroscopy. Angewandte Chemie - International Edition, 2014, 53, 5858-5862.	7.2	92
35	A setup for ultrafast time-resolved x-ray absorption spectroscopy. Review of Scientific Instruments, 2004, 75, 24-30.	0.6	91
36	Relativistic effects in spectroscopy and photophysics of heavy-metal complexes illustrated by spinâ€“orbit calculations of [Re(imidazole)(CO)3(phen)]+. Coordination Chemistry Reviews, 2011, 255, 975-989.	9.5	90

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37	An artificial molecular switch that mimics the visual pigment and completes its photocycle in picoseconds. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17642-17647.	3.3	89
38	Time-Resolved Photodynamics of Triangular-Shaped Silver Nanoplates. Nano Letters, 2006, 6, 7-10.	4.5	88
39	Coupling of a high-energy excitation to superconducting quasiparticles in a cuprate from coherent charge fluctuation spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4539-4544.	3.3	86
40	Rydberg states of NO trapped in rare gas matrices. Journal of Chemical Physics, 1986, 85, 2472-2482.	1.2	85
41	Ultrafast Excited State Dynamics of the Protonated Schiff Base of All-trans Retinal in Solvents. Biophysical Journal, 2005, 88, 2779-2788.	0.2	84
42	Polychromatic femtosecond fluorescence studies of metalâ€“polypyridine complexes in solution. Chemical Physics, 2012, 393, 51-57.	0.9	84
43	Revealing hole trapping in zinc oxide nanoparticles by time-resolved X-ray spectroscopy. Nature Communications, 2018, 9, 478.	5.8	84
44	Spectral and dynamical characterization of multiexcitons in colloidal CdSe semiconductor quantum dots. Physical Review B, 2005, 71, .	1.1	79
45	The visible emission and absorption spectrum of C60. Journal of Chemical Physics, 1997, 107, 8731-8741.	1.2	77
46	Ultrafast X-Ray Spectroscopy of Conical Intersections. Physical Review Letters, 2018, 120, 243001.	2.9	77
47	Ultrafast fluorescence studies of dye sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 7934.	1.3	75
48	A Quantum Dynamics Study of the Ultrafast Relaxation in a Prototypical Cu(I)â€“Phenanthroline. Journal of Physical Chemistry A, 2014, 118, 9861-9869.	1.1	74
49	Evidence of Large Polarons in Photoemission Band Mapping of the Perovskite Semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CsPbBr</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2020, 124, 206402.	2.9	74
50	A femtosecond fluorescence study of vibrational relaxation and cooling dynamics of UV dyes. Physical Chemistry Chemical Physics, 2012, 14, 3513.	1.3	73
51	Contrasting the Excited-State Dynamics of the Photoactive Yellow Protein Chromophore: Protein versus Solvent Environments. Biophysical Journal, 2004, 87, 1848-1857.	0.2	72
52	Exploiting EXAFS and XANES for time-resolved molecular structures in liquids. Zeitschrift FÃ¼r Kristallographie, 2008, 223, 307-321.	1.1	72
53	Rydberg fluorescence of NO trapped in rare gas matrices. Journal of Chemical Physics, 1988, 89, 1277-1284.	1.2	71
54	Probing the Transition from Hydrophilic to Hydrophobic Solvation with Atomic Scale Resolution. Journal of the American Chemical Society, 2011, 133, 12740-12748.	6.6	71

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55	Multiphoton-Excited Luminescent Lanthanide Bioprobes: Two- and Three-Photon Cross Sections of Dipicolinate Derivatives and Binuclear Helicates. Journal of Physical Chemistry B, 2010, 114, 2932-2937.	1.2	70
56	Time-Resolved Visible and Infrared Study of the Cyano Complexes of Myoglobin and of Hemoglobin I from Lucina pectinata. Biophysical Journal, 2004, 87, 1881-1891.	0.2	68
57	Electron Localization Dynamics in the Triplet Excited State of [Ru(bpy)₃]²⁺ in Aqueous Solution. Chemistry - A European Journal, 2010, 16, 5889-5894.	1.7	68
58	On the Excitation Wavelength Dependence of the Luminescence Yield of Colloidal CdSe Quantum Dots. Nano Letters, 2004, 4, 2483-2487.	4.5	67
59	Structural analysis of ultrafast extended x-ray absorption fine structure with subpicometer spatial resolution: Application to spin crossover complexes. Journal of Chemical Physics, 2009, 130, 124520.	1.2	67
60	Origin of electronic absorption spectra of MLCT-excited and one-electron reduced 2,2â€²-bipyridine and 1,10-phenanthroline complexes. Inorganica Chimica Acta, 2011, 374, 578-585.	1.2	67
61	Ultrabroadband femtosecond two-dimensional ultraviolet transient absorption. Optics Letters, 2012, 37, 2337.	1.7	67
62	Towards structural dynamics in condensed chemical systems exploiting ultrafast time-resolved x-ray absorption spectroscopy. Journal of Chemical Physics, 2002, 116, 2955-2966.	1.2	65
63	Photexcitation of Aqueous Ruthenium(II)-tris-(2,2â€˜-bipyridine) with High-Intensity Femtosecond Laser Pulses. Journal of Physical Chemistry B, 2006, 110, 26497-26505.	1.2	64
64	Insights into excited-state and isomerization dynamics of bacteriorhodopsin from ultrafast transient UV absorption. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4101-4106.	3.3	63
65	X-ray Absorption Spectroscopy of Ground and Excited Rheniumâ€“Carbonylâ€“Diimine Complexes: Evidence for a Two-Center Electron Transfer. Journal of Physical Chemistry A, 2013, 117, 361-369.	1.1	63
66	Femtosecond fluorescence upconversion setup with broadband detection in the ultraviolet. Optics Letters, 2007, 32, 3555.	1.7	62
67	Observation of the Solvent Shell Reorganization around Photoexcited Atomic Solutes by Picosecond X-ray Absorption Spectroscopy. Journal of the American Chemical Society, 2007, 129, 1530-1531.	6.6	62
68	Real-time observation of the charge transfer to solvent dynamics. Nature Communications, 2013, 4, 2119.	5.8	62
69	Experimental evidence to Rydbergization of antibonding molecular orbitals. Chemical Physics Letters, 1994, 219, 237-242.	1.2	61
70	Localized holes and delocalized electrons in photoexcited inorganic perovskites: Watching each atomic actor by picosecond X-ray absorption spectroscopy. Structural Dynamics, 2017, 4, 044002.	0.9	61
71	Picosecond and femtosecond X-ray absorption spectroscopy of molecular systems. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, 229-239.	0.3	60
72	Charge transfer to solvent identified using dark channel fluorescence-yield L-edge spectroscopy. Nature Chemistry, 2010, 2, 853-857.	6.6	59

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73	Ultrafast broadband circular dichroism in the deep ultraviolet. Optica, 2019, 6, 56.	4.8	59
74	The solvent shell structure of aqueous iodide: X-ray absorption spectroscopy and classical, hybrid QM/MM and full quantum molecular dynamics simulations. Chemical Physics, 2010, 371, 24-29.	0.9	56
75	Femtosecond X-ray absorption study of electron localization in photoexcited anatase TiO2. Scientific Reports, 2015, 5, 14834.	1.6	56
76	Fluorescence spectra of isolated molecules in neon and argon matrices: assignment of the lowest emitting states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 4997-5013.	0.6	54
77	Femtosecond pump/supercontinuum-probe setup with 20 kHz repetition rate. Review of Scientific Instruments, 2012, 83, 093105.	0.6	54
78	Cage effect for the abstraction of H from H2O in Ar matrices. Journal of Chemical Physics, 1989, 91, 4128-4133.	1.2	53
79	Time-resolved X-ray spectroscopies of chemical systems: New perspectives. Structural Dynamics, 2016, 3, 031001.	0.9	53
80	Femtosecond dynamics of electronic `bubbles' in solid argon: viewing the inertial response and the bath coherences. Chemical Physics Letters, 2000, 316, 51-59.	1.2	52
81	Beyond structure: ultrafast X-ray absorption spectroscopy as a probe of non-adiabatic wavepacket dynamics. Faraday Discussions, 2016, 194, 117-145.	1.6	52
82	Vibrational coherence transfer in the ultrafast intersystem crossing of a diplatinum complex in solution. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6396-E6403.	3.3	51
83	Absorption Wavelengths and Bandwidths for Interstellar Searches of C 60 in the 2400â€“4100 A Region. Astrophysical Journal, Supplement Series, 2001, 135, 263-273.	3.0	51
84	L-edge XANES analysis of photoexcited metal complexes in solution. Physical Chemistry Chemical Physics, 2010, 12, 5551.	1.3	50
85	Photooxidation and photoaquation of iron hexacyanide in aqueous solution: A picosecond X-ray absorption study. Structural Dynamics, 2014, 1, 024901.	0.9	49
86	Photophysics of a copper phenanthroline elucidated by trajectory and wavepacket-based quantum dynamics: a synergetic approach. Physical Chemistry Chemical Physics, 2017, 19, 19590-19600.	1.3	48
87	Phosphorescence of C60 in rare gas matrices. Chemical Physics Letters, 1996, 261, 213-220.	1.2	47
88	Harmonium: A pulse preserving source of monochromatic extreme ultraviolet (30â€“110â€‰eV) radiation for ultrafast photoelectron spectroscopy of liquids. Structural Dynamics, 2016, 3, 023602.	0.9	47
89	Radial Spin Texture of the Weyl Fermions in Chiral Tellurium. Physical Review Letters, 2020, 125, 216402.	2.9	47
90	Femtosecond carrier dynamics in bulk graphite and graphene paper. Chemical Physics Letters, 2011, 504, 37-40.	1.2	46

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91	Probing wavepacket dynamics using ultrafast x-ray spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 214001.	0.6	46
92	Subpicosecond near-infrared fluorescence upconversion study of relaxation processes in PbSe quantum dots. Physical Review B, 2007, 76, .	1.1	45
93	Heterogeneity and Relaxation Dynamics of the Photoexcited Retinal Schiff Base Cation in Solution. Journal of Physical Chemistry B, 2009, 113, 4384-4393.	1.2	44
94	Femtosecond UV Studies of the Electronic Relaxation Processes in Cytochrome c. Journal of Physical Chemistry B, 2011, 115, 13723-13730.	1.2	44
95	Femtosecond dynamics of I2(Bâ€‰3Î0u+) in liquids from resonance Raman spectra. Journal of Chemical Physics, 1994, 101, 7381-7387.	1.2	43
96	Energy transfer and relaxation mechanisms in Cytochrome c. Chemical Physics, 2012, 396, 108-115.	0.9	43
97	The role of Hartreeâ€“Fock exchange in the simulation of X-ray absorption spectra: A study of photoexcited. Chemical Physics Letters, 2013, 580, 179-184.	1.2	43
98	Photoaquation Mechanism of Hexacyanoferrate(II) Ions: Ultrafast 2D UV and Transient Visible and IR Spectroscopies. Journal of the American Chemical Society, 2017, 139, 7335-7347.	6.6	43
99	Threshold and cage effect for dissociation of H2O and D2O in Ar and Kr matrices. Journal of Chemical Physics, 1990, 93, 3245-3251.	1.2	42
100	Cage exit probability versus excess energy in the photodissociation of matrixâ€isolated HCl. Journal of Chemical Physics, 1996, 105, 451-458.	1.2	42
101	Functional electric field changes in photoactivated proteins revealed by ultrafast Stark spectroscopy of the Trp residues. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7718-7723.	3.3	42
102	X-ray Spectroscopic Study of Solvent Effects on the Ferrous and Ferric Hexacyanide Anions. Journal of Physical Chemistry A, 2014, 118, 9411-9418.	1.1	42
103	Dual Luminescence, Interligand Decay, and Nonradiative Electronic Relaxation of Cyclometalated Iridium Complexes in Solution. Journal of Physical Chemistry C, 2016, 120, 16459-16469.	1.5	42
104	Assignment of the Lowest Excited States of C70and Evidence for Fluorescence from the S2State. Journal of Physical Chemistry A, 1998, 102, 3072-3077.	1.1	41
105	A Full Multiple Scattering Model for the Analysis of Time-Resolved X-ray Difference Absorption Spectra. Journal of Physical Chemistry B, 2006, 110, 14035-14039.	1.2	41
106	Charge-transfer and impulsive electronic-to-vibrational energy conversion in ferricyanide: ultrafast photoelectron and transient infrared studies. Physical Chemistry Chemical Physics, 2017, 19, 17052-17062.	1.3	41
107	Perspective: Opportunities for ultrafast science at SwissFEL. Structural Dynamics, 2017, 4, 061602.	0.9	40
108	The medium response to an impulsive redistribution of charge in solid argon: Molecular dynamics simulations and normal mode analysis. Journal of Chemical Physics, 2001, 114, 5264-5272.	1.2	39

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109	Probing the electronic and geometric structure of ferric and ferrous myoglobins in physiological solutions by Fe K-edge absorption spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 1617-1631.	1.3	39
110	Excited state X-ray absorption spectroscopy: Probing both electronic and structural dynamics. Journal of Chemical Physics, 2016, 145, 144307.	1.2	39
111	Photoemission and photoionization time delays and rates. Structural Dynamics, 2017, 4, 061502.	0.9	39
112	Ultrafast expansion and vibrational coherences of electronic `Bubbles' in solid neon. Chemical Physics Letters, 2002, 362, 31-38.	1.2	37
113	A model for the multi-exponential excited-state decay of CdSe nanocrystals. Chemical Physics, 2009, 357, 96-101.	0.9	37
114	Changes in the Silanol Protonation State Measured In Situ at the Silicaâ€“Aqueous Interface. Journal of Physical Chemistry Letters, 2012, 3, 231-235.	2.1	37
115	Energy relaxation pathways between light-matter states revealed by coherent two-dimensional spectroscopy. Communications Physics, 2020, 3, .	2.0	37
116	Conservation of vibrational coherence in ultrafast electronic relaxation: The case of diplatinum complexes in solution. Chemical Physics Letters, 2017, 683, 112-120.	1.2	36
117	Rydberg states in quantum crystals NO in solid H2. Faraday Discussions, 1997, 108, 139-159.	1.6	35
118	Vibrational coherences of the protonated Schiff base of all-trans retinal in solution. Chemical Physics, 2007, 338, 168-174.	0.9	35
119	Ultrafast Relaxation Dynamics of Osmiumâ€“Polypyridine Complexes in Solution. Journal of Physical Chemistry C, 2013, 117, 15958-15966.	1.5	35
120	Photodissociation of water in rare gas matrices: Cage effect and local heating of the lattice. Journal of Chemical Physics, 1993, 98, 7786-7791.	1.2	34
121	Dynamics of structural relaxation upon Rydberg excitation of an impurity in an Ar crystal. Chemical Physics, 1998, 233, 343-352.	0.9	33
122	Nanoscale dynamics by short-wavelength four wave mixing experiments. New Journal of Physics, 2013, 15, 123023.	1.2	33
123	Clocking the Ultrafast Electron Cooling in Anatase Titanium Dioxide Nanoparticles. ACS Photonics, 2018, 5, 1241-1249.	3.2	33
124	Quantifying Photoinduced Polaronic Distortions in Inorganic Lead Halide Perovskite Nanocrystals. Journal of the American Chemical Society, 2021, 143, 9048-9059.	6.6	33
125	Ultrafast UV photon echo peak shift and fluorescence up conversion studies of non-polar solvation dynamics. Chemical Physics, 2008, 350, 104-110.	0.9	32
126	Picosecond TimeResolved XRay Absorption Spectroscopy of Solvated Organometallic Complexes. Physica Scripta, 2005, , 102.	1.2	31

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127	Relaxation Dynamics of Tryptophan in Water: A UV Fluorescence Up-Conversion and Molecular Dynamics Study. Journal of Physical Chemistry A, 2010, 114, 9034-9042.	1.1	31
128	Nonadiabatic effects in electronic and nuclear dynamics. Structural Dynamics, 2017, 4, 061510.	0.9	31
129	Mahan excitons in room-temperature methylammonium lead bromide perovskites. Nature Communications, 2020, 11, 850.	5.8	31
130	Hard X-ray transient grating spectroscopy on bismuth germanate. Nature Photonics, 2021, 15, 499-503.	15.6	31
131	Ultrafast inter-ionic charge transfer of transition-metal complexes mapped by femtosecond X-ray powder diffraction. Journal of Chemical Physics, 2013, 138, 144504.	1.2	30
132	NO binding kinetics in myoglobin investigated by picosecond Fe K-edge absorption spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12922-12927.	3.3	30
133	Investigation of nanolocal fluorescence resonance energy transfer for scanning probe microscopy. Applied Physics Letters, 1999, 74, 3453-3455.	1.5	29
134	Ligand-Centred Fluorescence and Electronic Relaxation Cascade at Vibrational Time Scales in Transition-Metal Complexes. Journal of Physical Chemistry Letters, 2015, 6, 4475-4480.	2.1	29
135	Tryptophan-to-heme electron transfer in ferrous myoglobins. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5602-5606.	3.3	29
136	Phonon-Driven Selective Modulation of Exciton Oscillator Strengths in Anatase TiO₂ Nanoparticles. Nano Letters, 2018, 18, 5007-5014.	4.5	29
137	Femtosecond X-ray emission study of the spin cross-over dynamics in haem proteins. Nature Communications, 2020, 11, 4145.	5.8	29
138	Strain wave pathway to semiconductor-to-metal transition revealed by time-resolved X-ray powder diffraction. Nature Communications, 2021, 12, 1239.	5.8	29
139	Nonradiative Rydbergâ†"valence relaxation of NO trapped in Ar, Kr, and Xe matrices. Journal of Chemical Physics, 1989, 91, 5993-6005.	1.2	28
140	Ultrafast dynamics of Rydberg states in the condensed phase. Chemical Physics Letters, 1996, 259, 475-481.	1.2	28
141	Evidence for a Peierls phase-transition in a three-dimensional multiple charge-density waves solid. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5603-5608.	3.3	28
142	Exciton control in a room temperature bulk semiconductor with coherent strain pulses. Science Advances, 2019, 5, eaax2937.	4.7	28
143	Chiral control of spin-crossover dynamics in Fe(II) complexes. Nature Chemistry, 2022, 14, 739-745.	6.6	28
144	Rydberg series of chargeâ€transfer excitations: Cl and H in rare gas crystals. Journal of Chemical Physics, 1991, 95, 1466-1472.	1.2	27

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145	Femtosecond transition state spectroscopy of solids: electronic â€˜bubbleâ€™ formation in solid hydrogen. Chemical Physics Letters, 1997, 279, 65-72.	1.2	27
146	Ultrafast solvent response upon a change of the solute size in non-polar supercritical fluids. Chemical Physics, 2005, 308, 13-25.	0.9	27
147	Interfacial Electron Injection Probed by a Substrate-Specific Excitonic Signature. Journal of the American Chemical Society, 2017, 139, 11584-11589.	6.6	27
148	Spin cascade and doming in ferric hemes: Femtosecond X-ray absorption and X-ray emission studies. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21914-21920.	3.3	27
149	Ultrafast intramolecular relaxation of C60. Chemical Physics Letters, 2002, 358, 516-522.	1.2	26
150	Temperature-dependent electron-phonon coupling in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>CuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	26
151	A simple electron time-of-flight spectrometer for ultrafast vacuum ultraviolet photoelectron spectroscopy of liquid solutions. Review of Scientific Instruments, 2014, 85, 103117.	0.6	26
152	Retardation of Bulk Water Dynamics by Disaccharide Osmolytes. Journal of Physical Chemistry B, 2016, 120, 9477-9483.	1.2	26
153	Ultrafast structural dynamics in electronically excited solid neon. I.â€ƒReal-time probing of the electronic bubble formation. Physical Review B, 2003, 67, .	1.1	25
154	Chemical Synthesis and Optical Properties of Size-Selected CdSe Tetrapod-Shaped Nanocrystals. ChemPhysChem, 2005, 6, 2505-2507.	1.0	25
155	Simulations of X-ray absorption spectra: the effect of the solvent. Physical Chemistry Chemical Physics, 2012, 14, 9444.	1.3	25
156	A cascade through spin states in the ultrafast haem relaxation of met-myoglobin. Journal of Chemical Physics, 2014, 140, 025103.	1.2	25
157	Penning ionization of C60 molecules. Chemical Physics Letters, 1998, 294, 584-592.	1.2	24
158	Coherent fluorescence resonance energy transfer: Construction of nonlocal multiparticle entangled states and quantum computing. Europhysics Letters, 2003, 63, 21-27.	0.7	24
159	Ultrafast timeâ€resolved Xâ€ray absorption spectroscopy of chemical systems. Synchrotron Radiation News, 2003, 16, 12-20.	0.2	24
160	Ultrafast Solventâ€Assisted Electronic Level Crossing in 1â€Naphthol. Angewandte Chemie - International Edition, 2013, 52, 6871-6875.	7.2	24
161	Ultrafast electronic and vibrational relaxations in mixed-ligand dithioneâ€“dithiolato Ni, Pd, and Pt complexes. Dalton Transactions, 2014, 43, 17666-17676.	1.6	24
162	Implications of short time scale dynamics on long time processes. Structural Dynamics, 2017, 4, 061507.	0.9	24

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163	Ultrafast photophysics and photochemistry of iron hexacyanides in solution: Infrared to X-ray spectroscopic studies. Coordination Chemistry Reviews, 2018, 372, 52-65.	9.5	24
164	Ultrafast molecular photophysics in the deep-ultraviolet. Journal of Chemical Physics, 2019, 150, 070901.	1.2	24
165	Rydbergâˆ¼valence perturbations in matrixâ€isolated NO. Journal of Chemical Physics, 1992, 97, 2881-2890.	1.2	23
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