Wojciech M Gawelda

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1352985/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Unveiling the origin of photo-induced enhancement of oxidation catalysis at Mo(<scp>vi</scp>) centres of Ru(<scp>ii</scp>)–Mo(<scp>vi</scp>) dyads. Chemical Communications, 2021, 57, 4142-4145.	2.2	2
2	Siteâ€Selective Realâ€Time Observation of Bimolecular Electron Transfer in a Photocatalytic System Using Lâ€Edge Xâ€Ray Absorption Spectroscopy**. ChemPhysChem, 2021, 22, 693-700.	1.0	5
3	Fundamental Characterization, Photophysics and Photocatalysis of a Base Metal Iron(II)â€Cobalt(III) Dyad. Chemistry - A European Journal, 2021, 27, 9905-9918.	1.7	12
4	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
5	Femtosecond X-ray emission study of the spin cross-over dynamics in haem proteins. Nature Communications, 2020, 11, 4145.	5.8	29
6	Exploring the light-induced dynamics in solvated metallogrid complexes with femtosecond pulses across the electromagnetic spectrum. Journal of Chemical Physics, 2020, 152, 214301.	1.2	10
7	Direct observation of nuclear reorganization driven by ultrafast spin transitions. Nature Communications, 2020, 11, 1530.	5.8	20
8	Ultrafast X-ray Photochemistry at European XFEL: Capabilities of the Femtosecond X-ray Experiments (FXE) Instrument. Applied Sciences (Switzerland), 2020, 10, 995.	1.3	35
9	Revealing Hot and Long-Lived Metastable Spin States in the Photoinduced Switching of Solvated Metallogrid Complexes with Femtosecond Optical and X-ray Spectroscopies. Journal of Physical Chemistry Letters, 2020, 11, 2133-2141.	2.1	11
10	Femtosecond Molecular Flattening in [Cu(dmp)2]+ Probed by X-ray Emission Spectroscopy and Solution Scattering. , 2020, , .		0
11	Using Ultrafast X-ray Spectroscopy To Address Questions in Ligand-Field Theory: The Excited State Spin and Structure of [Fe(dcpp) ₂] ²⁺ . Inorganic Chemistry, 2019, 58, 9341-9350.	1.9	29
12	Elucidation of the photoaquation reaction mechanism in ferrous hexacyanide using synchrotron x-rays with sub-pulse-duration sensitivity. Journal of Chemical Physics, 2019, 151, 144306.	1.2	24
13	Tracking multiple components of a nuclear wavepacket in photoexcited Cu(I)-phenanthroline complex using ultrafast X-ray spectroscopy. Nature Communications, 2019, 10, 3606.	5.8	56
14	Combining X-ray Kβ _{1,3} , valence-to-core, and X-ray Raman spectroscopy for studying Earth materials at high pressure and temperature: the case of siderite. Journal of Analytical Atomic Spectrometry, 2019, 34, 384-393.	1.6	17
15	Ultrafast spin crossover in a single crystal. EPJ Web of Conferences, 2019, 205, 07009.	0.1	0
16	Scientific instrument Femtosecond X-ray Experiments (FXE): instrumentation and baseline experimental capabilities. Journal of Synchrotron Radiation, 2019, 26, 1432-1447.	1.0	24
17	Revealing hole trapping in zinc oxide nanoparticles by time-resolved X-ray spectroscopy. Nature Communications, 2018, 9, 478.	5.8	84
18	Towards Nobleâ€Metalâ€Free Dyads: Ground and Excited State Tuning by a Cobalt Dimethylglyoxime Motif Connected to an Iron Nâ€Heterocyclic Carbene Photosensitizer. European Journal of Inorganic Chemistry, 2018, 2018, 5203-5214.	1.0	19

#	Article	IF	CITATIONS
19	Probing Transient Valence Orbital Changes with Picosecond Valence-to-Core X-ray Emission Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 2620-2626.	1.5	27
20	Finite difference method accelerated with sparse solvers for structural analysis of the metal-organic complexes. Journal of Physics: Conference Series, 2016, 712, 012004.	0.3	24
21	Spectral Signatures of Ultrafast Spin Crossover in Single Crystal [Fe ^{II} (bpy) ₃](PF ₆) ₂ . Chemistry - A European Journal, 2016, 22, 5118-5122.	1.7	24
22	Atomistic characterization of the active-site solvation dynamics of a model photocatalyst. Nature Communications, 2016, 7, 13678.	5.8	74
23	Time-resolved pump and probe x-ray absorption fine structure spectroscopy at beamline P11 at PETRA III. Review of Scientific Instruments, 2016, 87, 053116. Femtosecond X-Ray Scattering Study of Ultrafast Photoinduced Structural Dynamics in	0.6	24
24	Solvated <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mo stretchy="false">[</mml:mo><mml:mi>Co</mml:mi><mml:mo stretchy="false">(<mml:mtext) (mathvariant="bold" 0="" 10="" 50="" 532="" etqq0="" overlock="" rgbt="" td="" tf="" tj="">t</mml:mtext)></mml:mo </mml:mrow></mml:math>	erp y ?/mm	l:mtext> <mm< td=""></mm<>
25	A multi-MHz single-shot data acquisition scheme with high dynamic range: pump–probe X-ray experiments at synchrotrons. Journal of Synchrotron Radiation, 2016, 23, 1409-1423.	1.0	12
26	Observing Solvation Dynamics with Simultaneous Femtosecond X-ray Emission Spectroscopy and X-ray Scattering. Journal of Physical Chemistry B, 2016, 120, 1158-1168.	1.2	85
27	Femtosecond X-ray Absorption and Emission Spectroscopy on ZnO Nanoparticles in Solution. , 2016, , .		0
28	Synchrotron and X-Ray Free Electron Laser Studies of High-Valent Iron Formation with X-ray Absorption Spectroscopy. , 2016, , .		0
29	Visualizing the non-equilibrium dynamics of photoinduced intramolecular electron transfer with femtosecond X-ray pulses. Nature Communications, 2015, 6, 6359.	5.8	134
30	Feasibility of Valence-to-Core X-ray Emission Spectroscopy for Tracking Transient Species. Journal of Physical Chemistry C, 2015, 119, 14571-14578.	1.5	40
31	Optimized Finite Difference Method for the Full-Potential XANES Simulations: Application to Molecular Adsorption Geometries in MOFs and Metal–Ligand Intersystem Crossing Transients. Journal of Chemical Theory and Computation, 2015, 11, 4512-4521.	2.3	179
32	Detailed Characterization of a Nanosecond-Lived Excited State: X-ray and Theoretical Investigation of the Quintet State in Photoexcited [Fe(terpy) ₂] ²⁺ . Journal of Physical Chemistry C, 2015, 119, 5888-5902.	1.5	72
33	Solvation dynamics monitored by combined X-ray spectroscopies and scattering: photoinduced spin transition in aqueous [Fe(bpy) ₃] ²⁺ . Faraday Discussions, 2014, 171, 169-178.	1.6	17
34	Tracking excited-state charge and spin dynamics in iron coordination complexes. Nature, 2014, 509, 345-348.	13.7	382
35	Spin-state studies with XES and RIXS: From static to ultrafast. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 166-171.	0.8	87
36	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.	1.1	183

WOJCIECH M GAWELDA

#	Article	IF	CITATIONS
37	Ad-hoc design of temporally shaped fs laser pulses based on plasma dynamics for deep ablation in fused silica. Applied Physics A: Materials Science and Processing, 2013, 112, 185-189.	1.1	14
38	Toward Highlighting the Ultrafast Electron Transfer Dynamics at the Optically Dark Sites of Photocatalysts. Journal of Physical Chemistry Letters, 2013, 4, 1972-1976.	2.1	49
39	Guest–Host Interactions Investigated by Time-Resolved X-ray Spectroscopies and Scattering at MHz Rates: Solvation Dynamics and Photoinduced Spin Transition in Aqueous Fe(bipy) ₃ ²⁺ . Journal of Physical Chemistry A, 2012, 116, 9878-9887.	1.1	112
40	Coherent optical phonons in different phases of Ge2Sb2Te5 upon strong laser excitation. Applied Physics Letters, 2011, 98, 251906.	1.5	23
41	Dynamics of laser-induced phase switching in GeTe films. Journal of Applied Physics, 2011, 109, 123102.	1.1	33
42	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
43	Dynamics of plasma formation, relaxation, and topography modification induced by femtosecond laser pulses in crystalline and amorphous dielectrics. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1065.	0.9	105
44	In situ assessment and minimization of nonlinear propagation effects for femtosecond-laser waveguide writing in dielectrics. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1688.	0.9	27
45	Femtosecond X-ray Absorption Spectroscopy οf a Light-Driven Spin-Crossover Process. Acta Physica Polonica A, 2010, 117, 391-393.	0.2	2
46	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
47	Hot-wire chemical vapor growth and characterization of crystalline GeTe films. Journal of Crystal Growth, 2009, 311, 362-367.	0.7	11
48	Effect of pulsed laser irradiation on the structure of GeTe films deposited by metal organic chemical vapor deposition: A Raman spectroscopy study. Journal of Applied Physics, 2009, 105, .	1.1	12
49	Independent control of beam astigmatism and ellipticity using a SLM for fs-laser waveguide writing. Optics Express, 2009, 17, 20853.	1.7	28
50	Femtosecond XANES Study of the Light-Induced Spin Crossover Dynamics in an Iron(II) Complex. Science, 2009, 323, 489-492.	6.0	497
51	Time-resolved x-ray absorption spectroscopy: Watching atoms dance. Journal of Physics: Conference Series, 2009, 190, 012052.	0.3	9
52	Retrieving photochemically active structures by time-resolved EXAFS spectroscopy. Journal of Physics: Conference Series, 2009, 190, 012054.	0.3	3
53	Transient reflectivity and transmission changes during plasma formation and ablation in fused silica induced by femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2008, 92, 803-808.	1.1	42
54	Chemical vapor deposition of chalcogenide materials for phase-change memories. Microelectronic Engineering, 2008, 85, 2338-2341.	1,1	20

WOJCIECH M GAWELDA

#	Article	IF	CITATIONS
55	Amorphization dynamics of Ge2Sb2Te5 films upon nano- and femtosecond laser pulse irradiation. Journal of Applied Physics, 2008, 103, .	1.1	92
56	Hot-Wire Chemical Vapor Deposition of Chalcogenide Materials for Phase Change Memory Applications. Chemistry of Materials, 2008, 20, 3557-3559.	3.2	33
57	Ultrafast imaging of transient electronic plasmas produced in conditions of femtosecond waveguide writing in dielectrics. Applied Physics Letters, 2008, 93, .	1.5	51
58	Relaxation processes of point defects in vitreous silica from femtosecond to nanoseconds. Applied Physics Letters, 2008, 93, 102901.	1.5	3
59	Light-Induced Spin Crossover Probed by Ultrafast Optical and X-ray Spectroscopies. Chimia, 2007, 61, 179-183.	0.3	15
60	Ultrafast x-ray spectroscopy for structural dynamics studies in chemistry and biology. Proceedings of SPIE, 2007, , .	0.8	1
61	Plasma formation and structural modification below the visible ablation threshold in fused silica upon femtosecond laser irradiation. Applied Physics Letters, 2007, 91, .	1.5	56
62	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
63	Ultrafast Nonadiabatic Dynamics of [FeII(bpy)3]2+in Solution. Journal of the American Chemical Society, 2007, 129, 8199-8206.	6.6	303
64	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
65	Observing molecular structure changes and dynamics in polar solution. , 2007, , 689-731.		1
66	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
67	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
68	Electronic and Molecular Structure of Photoexcited [Rull(bpy)3]2+Probed by Picosecond X-ray Absorption Spectroscopy. Journal of the American Chemical Society, 2006, 128, 5001-5009.	6.6	165
69	Broadband Femtosecond Fluorescence Spectroscopy of [Ru(bpy)3]2+. Angewandte Chemie - International Edition, 2006, 45, 3174-3176.	7.2	251
70	Picosecond TimeResolved XRay Absorption Spectroscopy of Solvated Organometallic Complexes. Physica Scripta, 2005, , 102.	1.2	31
71	A setup for ultrafast time-resolved x-ray absorption spectroscopy. Review of Scientific Instruments, 2004, 75, 24-30.	0.6	91
72	Structural dynamics and electronic structure changes probed with lasers and X-rays. , 2004, , 353-361.		0

5

#	Article	IF	CITATIONS
73	Time resolved dynamics of rapid melting and resolidification of Sb thin films under ns and ps laser pulse irradiation. Journal of Applied Physics, 2003, 94, 4961.	1.1	6
74	Ultrafast timeâ€resolved Xâ€ray absorption spectroscopy of chemical systems. Synchrotron Radiation News, 2003, 16, 12-20.	0.2	24