Robert W Schoenlein

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108 papers 8,983 citations

46 h-index

94 g-index

123 ext. papers

9,840 ext. citations

7.8 avg, IF

5.35 L-index

#	Paper	IF	Citations
108	The first step in vision: femtosecond isomerization of rhodopsin. <i>Science</i> , 1991 , 254, 412-5	33.3	715
107	Femtosecond studies of nonequilibrium electronic processes in metals. <i>Physical Review Letters</i> , 1987 , 58, 1680-1683	7.4	555
106	Vibrationally coherent photochemistry in the femtosecond primary event of vision. <i>Science</i> , 1994 , 266, 422-4	33.3	551
105	Evidence for a structurally-driven insulator-to-metal transition in VO2: A view from the ultrafast timescale. <i>Physical Review B</i> , 2004 , 70,	3.3	514
104	Generation of femtosecond pulses of synchrotron radiation. <i>Science</i> , 2000 , 287, 2237-40	33.3	493
103	Control of the electronic phase of a manganite by mode-selective vibrational excitation. <i>Nature</i> , 2007 , 449, 72-4	50.4	418
102	Femtosecond X-ray Pulses at 0.4 A Generated by 90 Thomson Scattering: A Tool for Probing the Structural Dynamics of Materials. <i>Science</i> , 1996 , 274, 236-238	33.3	363
101	Quantum size dependence of femtosecond electronic dephasing and vibrational dynamics in CdSe nanocrystals. <i>Physical Review B</i> , 1994 , 49, 14435-14447	3.3	257
100	Observation of laser assisted photoelectric effect and femtosecond high order harmonic radiation. <i>Physical Review Letters</i> , 1996 , 76, 2468-2471	7.4	244
99	Band-selective measurements of electron dynamics in VO2 using femtosecond near-edge x-ray absorption. <i>Physical Review Letters</i> , 2005 , 95, 067405	7.4	218
98	The first step in vision occurs in femtoseconds: complete blue and red spectral studies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 11762-6	11.5	174
97	Non-Markovian dephasing of molecules in solution measured with three-pulse femtosecond photon echoes. <i>Physical Review Letters</i> , 1991 , 66, 1138-1141	7.4	164
96	Femtosecond Soft X-ray Spectroscopy of Solvated Transition-Metal Complexes: Deciphering the Interplay of Electronic and Structural Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 880-4	6.4	159
95	Investigation of femtosecond electronic dephasing in CdSe nanocrystals using quantum-beat-suppressed photon echoes. <i>Physical Review Letters</i> , 1993 , 70, 1014-1017	7.4	159
94	Ultrafast Structural Dynamics in InSb Probed by Time-Resolved X-Ray Diffraction. <i>Physical Review Letters</i> , 1999 , 83, 336-339	7.4	158
93	Picosecond X-ray absorption spectroscopy of a photoinduced iron(II) spin crossover reaction in solution. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 38-44	2.8	152
92	Photoinduced phase transition in VO2 nanocrystals: ultrafast control of surface-plasmon resonance. <i>Optics Letters</i> , 2005 , 30, 558-60	3	150

91	. IEEE Journal of Quantum Electronics, 1988 , 24, 267-275	2	149
90	Femtosecond studies of image-potential dynamics in metals. <i>Physical Review Letters</i> , 1988 , 61, 2596-25	9 9 .4	148
89	Corneal ablation by nanosecond, picosecond, and femtosecond lasers at 532 and 625 nm. <i>JAMA Ophthalmology</i> , 1989 , 107, 587-92		145
88	Ultra-fast and ultra-intense x-ray sciences: first results from the Linac Coherent Light Source free-electron laser. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013 , 46, 164003	1.3	143
87	X-Ray Based Subpicosecond Electron Bunch Characterization Using 90 degrees Thomson Scattering. <i>Physical Review Letters</i> , 1996 , 77, 4182-4185	7.4	132
86	Coherent orbital waves in the photo-induced insulator-metal dynamics of a magnetoresistive manganite. <i>Nature Materials</i> , 2007 , 6, 643-7	27	130
85	Photo-induced spin-state conversion in solvated transition metal complexes probed via time-resolved soft X-ray spectroscopy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6809-16	16.4	122
84	Optical switching in VO2 films by below-gap excitation. <i>Applied Physics Letters</i> , 2008 , 92, 181904	3.4	115
83	Two-dimensional carrier-carrier screening in a quantum well. <i>Physical Review Letters</i> , 1991 , 67, 636-639	7.4	106
82	Femtosecond relaxation dynamics of image-potential states. <i>Physical Review B</i> , 1991 , 43, 4688-4698	3.3	100
81	A setup for ultrafast time-resolved x-ray absorption spectroscopy. <i>Review of Scientific Instruments</i> , 2004 , 75, 24-30	1.7	90
80	Tracking the motion of charges in a terahertz light field by femtosecond X-ray diffraction. <i>Nature</i> , 2006 , 442, 664-6	50.4	85
79	Femtosecond dynamics of cis-trans isomerization in a visual pigment analog: isorhodopsin. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 12087-12092		85
78	Femtosecond hot-carrier energy relaxation in GaAs. <i>Applied Physics Letters</i> , 1987 , 51, 1442-1444	3.4	85
77	Electronic and nuclear contributions to time-resolved optical and X-ray absorption spectra of hematite and insights into photoelectrochemical performance. <i>Energy and Environmental Science</i> , 2016 , 9, 3754-3769	35.4	82
76	Phase fluctuations and the absence of topological defects in a photo-excited charge-ordered nickelate. <i>Nature Communications</i> , 2012 , 3, 838	17.4	74
75	Atomic-Scale Perspective of Ultrafast Charge Transfer at a Dye-Semiconductor Interface. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2753-9	6.4	73
74	Generation of femtosecond X-ray pulses via laserBlectron beam interaction. <i>Applied Physics B:</i> Lasers and Optics, 2000 , 71, 1-10	1.9	69

73	Picosecond soft x-ray absorption measurement of the photoinduced insulator-to-metal transition in VO2. <i>Physical Review B</i> , 2004 , 69,	3.3	68
72	Probing the hydrogen-bond network of water via time-resolved soft X-ray spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 3951-7	3.6	64
71	Coupled Skyrmion sublattices in Cu(2)OSeO(3). Physical Review Letters, 2014, 112, 167202	7.4	60
70	Femtosecond Spectroscopy of a 13-Demethylrhodopsin Visual Pigment Analogue:□The Role of Nonbonded Interactions in the Isomerization Process. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 173	88-173	39 ⁴⁸
69	Probing the Electronic Structure of a Photoexcited Solar Cell Dye with Transient X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1695-700	6.4	54
68	Femtosecond dynamics of the n=2 image-potential state on Ag(100). <i>Physical Review B</i> , 1990 , 41, 5436-	5 <u>4.3</u> 9	54
67	Generation of blue-green 10 fs pulses using an excimer pumped dye amplifier. <i>Applied Physics Letters</i> , 1991 , 58, 801-803	3.4	53
66	Recent advances in ultrafast X-ray sources. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180384	3	51
65	Simulating Ru L3-edge X-ray absorption spectroscopy with time-dependent density functional theory: model complexes and electron localization in mixed-valence metal dimers. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 4444-54	2.8	50
64	Interaction of relativistic electrons with ultrashort laser pulses: generation of femtosecond X-rays and microprobing of electron beams. <i>IEEE Journal of Quantum Electronics</i> , 1997 , 33, 1925-1934	2	48
63	k-space carrier dynamics in GaAs. <i>Applied Physics Letters</i> , 1992 , 60, 2123-2125	3.4	48
62	Ligand-field symmetry effects in Fe(II) polypyridyl compounds probed by transient X-ray absorption spectroscopy. <i>Faraday Discussions</i> , 2012 , 157, 463-74; discussion 475-500	3.6	46
61	Femtosecond laser-tissue interactions: Retinal injury studies. <i>IEEE Journal of Quantum Electronics</i> , 1987 , 23, 1836-1844	2	46
60	Ultra-Broadband Femtosecond Measurements of the Photo-Induced Phase Transition in VO2: From the Mid-IR to the Hard X-rays. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 011004	1.5	44
59	Observation of a nearly isotropic, high-energy Coulomb explosion group in the fragmentation of D2 by short laser pulses. <i>Physical Review A</i> , 2002 , 65,	2.6	44
58	Time-Resolved X-ray Spectroscopy in the Water Window: Elucidating Transient Valence Charge Distributions in an Aqueous Fe(II) Complex. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 465-70	6.4	41
57	Ultrafast conversions between hydrogen bonded structures in liquid water observed by femtosecond x-ray spectroscopy. <i>Journal of Chemical Physics</i> , 2009 , 131, 234505	3.9	41
56	Real-time manifestation of strongly coupled spin and charge order parameters in stripe-ordered La(1.75)Sr(0.25)NiO(4) nickelate crystals using time-resolved resonant x-ray diffraction. <i>Physical Review Letters</i> , 2013 , 110, 127404	7.4	40

55	Tailored terahertz pulses from a laser-modulated electron beam. <i>Physical Review Letters</i> , 2006 , 96, 164	8 9 .14	37	
54	Metal-insulator transitions in an expanding metallic fluid: particle formation kinetics. <i>Physical Review Letters</i> , 2003 , 90, 236102	7.4	37	
53	Resonant intervalley scattering in GaAs. <i>Physical Review Letters</i> , 1990 , 65, 3429-3432	7.4	31	
52	Element-specific characterization of transient electronic structure of solvated Fe(II) complexes with time-resolved soft X-ray absorption spectroscopy. <i>Accounts of Chemical Research</i> , 2015 , 48, 2957-66	24.3	28	
51	Ultrafast charge localization in a stripe-phase nickelate. <i>Nature Communications</i> , 2013 , 4, 2643	17.4	28	
50	The Linac Coherent Light Source: Recent Developments and Future Plans. <i>Applied Sciences</i> (Switzerland), 2017 , 7, 850	2.6	27	
49	Comprehensive Experimental and Computational Spectroscopic Study of Hexacyanoferrate Complexes in Water: From Infrared to X-ray Wavelengths. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 5075-5086	3.4	27	
48	Femtosecond excited-state dynamics of polydiacetylene. <i>Applied Physics Letters</i> , 1990 , 56, 1600-1602	3.4	27	
47	Tracking reaction dynamics in solution by pump-probe X-ray absorption spectroscopy and X-ray liquidography (solution scattering). <i>Chemical Communications</i> , 2016 , 52, 3734-49	5.8	26	
46	Sub-nanosecond time-resolved ambient-pressure X-ray photoelectron spectroscopy setup for pulsed and constant wave X-ray light sources. <i>Review of Scientific Instruments</i> , 2014 , 85, 093102	1.7	24	
45	Ferromagnetic enhancement of CE-type spin ordering in (Pr,Ca)MnO3. <i>Physical Review Letters</i> , 2011 , 106, 186404	7.4	24	
44	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. <i>Nature Chemistry</i> , 2021 , 13, 343-349	17.6	21	
43	Light-Induced Radical Formation and Isomerization of an Aromatic Thiol in Solution Followed by Time-Resolved X-ray Absorption Spectroscopy at the Sulfur K-Edge. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4797-4804	16.4	20	
42	Generation of 312 nm, femtosecond pulses using a poled copolymer film. <i>IEEE Journal of Quantum Electronics</i> , 1992 , 28, 2398-2403	2	20	
41	UV-Photochemistry of the Disulfide Bond: Evolution of Early Photoproducts from Picosecond X-ray Absorption Spectroscopy at the Sulfur K-Edge. <i>Journal of the American Chemical Society</i> , 2018 , 140, 655	54 ¹ 656	1 ¹⁹	
40	Using Ultrafast X-ray Spectroscopy To Address Questions in Ligand-Field Theory: The Excited State Spin and Structure of [Fe(dcpp)]. <i>Inorganic Chemistry</i> , 2019 , 58, 9341-9350	5.1	18	
39	Electronic and Molecular Structure of the Transient Radical Photocatalyst Mn(CO)5 and Its Parent Compound Mn2(CO)10. <i>Inorganic Chemistry</i> , 2016 , 55, 5895-903	5.1	17	
38	Transient electronic structure of the photoinduced phase of Pr0.7Ca0.3MnO3 probed with soft x-ray pulses. <i>Physical Review B</i> , 2009 , 80,	3.3	17	

37	Laser seeding of the storage-ring microbunching instability for high-power coherent terahertz radiation. <i>Physical Review Letters</i> , 2006 , 97, 074802	7.4	17
36	Measurement of synchrotron pulse durations using surface photovoltage transients. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001 , 467-468, 1438-1440	1.2	17
35	Femtosecond hot carrier energy redistribution in GaAs and AlGaAs. Solid-State Electronics, 1988, 31, 44	3- 4/ 46	17
34	Transient metal-centered states mediate isomerization of a photochromic ruthenium-sulfoxide complex. <i>Nature Communications</i> , 2018 , 9, 1989	17.4	17
33	Using X-ray free-electron lasers for spectroscopy of molecular catalysts and metalloenzymes. <i>Nature Reviews Physics</i> , 2021 , 3, 264-282	23.6	16
32	Picosecond sulfur K-edge X-ray absorption spectroscopy with applications to excited state proton transfer. <i>Structural Dynamics</i> , 2017 , 4, 044021	3.2	13
31	Observation of coherent helimagnons and gilbert damping in an itinerant magnet. <i>Physical Review Letters</i> , 2012 , 109, 247204	7·4	13
30	Amplification of femtosecond pulses in Ti:Al(2)O(3) using an injection-seeded laser. <i>Optics Letters</i> , 1989 , 14, 1347-9	3	13
29	Glass-like recovery of antiferromagnetic spin ordering in a photo-excited manganite PrlandmonOlScientific Reports, 2014 , 4, 4050	4.9	12
28	Femtosecond X-Rays and Structural Dynamics in Condensed Matter. <i>Topics in Applied Physics</i> , 2004 , 309	-3338	12
27	Nonlinear Ultrafast Spin Scattering in the Skyrmion Phase of Cu_{2}OSeO_{3}. <i>Physical Review Letters</i> , 2017 , 119, 107204	7.4	11
26	Advances in Ultrafast Control and Probing of Correlated-Electron Materials. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012 , 18, 81-91	3.8	9
25	Revealing the bonding of solvated Ru complexes with valence-to-core resonant inelastic X-ray scattering. <i>Chemical Science</i> , 2021 , 12, 3713-3725	9.4	9
24	Double core hole valence-to-core x-ray emission spectroscopy: A theoretical exploration using time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2019 , 151, 144114	3.9	8
23	Ultrafast X-ray diffraction of laser-irradiated crystals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 2001 , 467-468, 986-989	1.2	8
22	Probing reaction dynamics of transition-metal complexesin solutionvia time-resolved X-ray spectroscopy. <i>Journal of Physics: Conference Series</i> , 2009 , 148, 012043	0.3	7
21	High-order harmonic pulse broadening in an ionizing medium. <i>Physical Review A</i> , 2001 , 63,	2.6	7
20	Excited-State Charge Distribution of a Donor-EAcceptor Zn Porphyrin Probed by N K-Edge Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1182-1188	6.4	7

19	Time-resolved x-ray photoelectron spectroscopy techniques for real-time studies of interfacial charge transfer dynamics 2013 ,		6
18	Femtosecond studies of intervalley scattering in GaAs and AlxGa1-xAs. <i>Solid-State Electronics</i> , 1989 , 32, 1491-1495	1.7	6
17	Time-resolved studies of phase transition dynamics in strongly correlated manganites. <i>Journal of Physics: Conference Series</i> , 2009 , 148, 012013	0.3	3
16	Femtosecond X-rays from relativistic electrons: new tools for probing structural dynamics. <i>Comptes Rendus Physique</i> , 2001 , 2, 1373-1388		3
15	Ultrafast dynamics of photoexcited C6O 1993 ,		3
14	Following Metal-to-Ligand Charge-Transfer Dynamics with Ligand and Spin Specificity Using Femtosecond Resonant Inelastic X-ray Scattering at the Nitrogen K-Edge. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6676-6683	6.4	3
13	Femtosecond X-ray generation through relativistic electron beamlaser interaction. <i>Comptes Rendus Physique</i> , 2000 , 1, 279-296		2
12	Ultrafast x-ray pump x-ray probe transient absorption spectroscopy: A computational study and proposed experiment probing core-valence electronic correlations in solvated complexes. <i>Journal of Chemical Physics</i> , 2021 , 154, 214107	3.9	2
11	Successful completion of the femtosecond slicing upgrade at the ALS 2007,		1
10	A high-average power femtosecond laser for synchrotron light source applications 2007,		1
9	Excited State Structural Dynamics Probed with Time-Resolved Sulfur K-Edge X-Ray Absorption Spectroscopy. <i>Springer Proceedings in Physics</i> , 2015 , 403-406	0.2	1
8	Monitoring Excited State Charge Transfer of Transition Metal Mixed-Valence Complexes with Femtosecond X-ray Absorption and Emission Spectroscopy 2016 ,		1
7	Femtosecond X-ray Spectroscopy Directly Quantifies Transient Excited-State Mixed Valency Journal of Physical Chemistry Letters, 2022 , 378-386	6.4	O
6	UV-photochemistry of the biologically relevant thiol group and the disulfide bond: Evolution of early photoproducts from picosecond X-ray absorption spectroscopy at the sulfur K-Edge. <i>EPJ Web of Conferences</i> , 2019 , 205, 09006	0.3	
5	Elucidating Charge Delocalization in the High-Spin State of aqueous FellSpin-Crossover Compounds via Time-Resolved Spectroscopy in the X-ray Water Window. <i>EPJ Web of Conferences</i> , 2013 , 41, 05037	0.3	
4	Picosecond X-ray Absorption Spectroscopy of Photochemical Transient Species in Solution. <i>Springer Series in Chemical Physics</i> , 2007 , 722-724	0.3	
3	Probing Reaction Dynamics of Transition-Metal Complexes in Solution via Time-Resolved Soft X-ray Spectroscopy. <i>Springer Series in Chemical Physics</i> , 2009 , 125-127	0.3	
2	Ultrafast Mid-infrared Spectroscopy of the Charge- and Spin-Ordered Nickelate La1.75Sr0.25NiO4. <i>EPJ Web of Conferences</i> , 2013 , 41, 03016	0.3	

The magnetic order in multiferroic DyMnO3. *Journal of Electron Spectroscopy and Related Phenomena*, **2021**, 246, 147013

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