

Alexander FÄhlich

List of Publications by Year in descending order

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222
papers

7,209
citations

50170

46
h-index

71532

76
g-index

229
all docs

229
docs citations

229
times ranked

6611
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of electron dynamics in the attosecond domain. Nature, 2005, 436, 373-376.	13.7	291
2	Ultrafast spin transport as key to femtosecond demagnetization. Nature Materials, 2013, 12, 332-336.	13.3	262
3	Orbital-specific mapping of the ligand exchange dynamics of Fe(CO) ₅ in solution. Nature, 2015, 520, 78-81.	13.7	247
4	Probing the transition state region in catalytic CO oxidation on Ru. Science, 2015, 347, 978-982.	6.0	193
5	Real-Time Observation of Surface Bond Breaking with an X-ray Laser. Science, 2013, 339, 1302-1305.	6.0	179
6	Ab Initio Calculations of X-ray Spectra: Atomic Multiplet and Molecular Orbital Effects in a Multiconfigurational SCF Approach to the L-Edge Spectra of Transition Metal Complexes. Journal of Physical Chemistry Letters, 2012, 3, 3565-3570.	2.1	168
7	The bonding of CO to metal surfaces. Journal of Chemical Physics, 2000, 112, 1946-1958.	1.2	165
8	The liquid-liquid phase transition in silicon revealed by snapshots of valence electrons. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16772-16776.	3.3	158
9	How Carbon Monoxide Adsorbs in Different Sites. Physical Review Letters, 2000, 85, 3309-3312.	2.9	157
10	Size-Dependent Magnetism of Deposited Small Iron Clusters Studied by X-Ray Magnetic Circular Dichroism. Physical Review Letters, 2002, 89, 057201.	2.9	157
11	Ultrafast Melting of a Charge-Density Wave in the Mott Insulator TaS_2 . Physical Review Letters, 2010, 105, 187401.	2.9	151
12	A femtosecond X-ray/optical cross-correlator. Nature Photonics, 2008, 2, 165-169.	15.6	146
13	Resonant Inelastic Scattering Spectra of Free Molecules with Vibrational Resolution. Physical Review Letters, 2010, 104, 193002.	2.9	126
14	Speed limit of the insulator-metal transition in magnetite. Nature Materials, 2013, 12, 882-886.	13.3	121
15	Resonant Photoemission at the 2p Edges of Ni: Resonant Raman and Interference Effects. Physical Review Letters, 1997, 78, 967-970.	2.9	114
16	X-ray pulse preserving single-shot optical cross-correlation method for improved experimental temporal resolution. Applied Physics Letters, 2012, 100, .	1.5	111
17	Unveiling the complex electronic structure of amorphous metal oxides. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6355-6360.	3.3	102
18	Stimulated X-ray emission for materials science. Nature, 2013, 501, 191-194.	13.7	102

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19	Towards time resolved core level photoelectron spectroscopy with femtosecond x-ray free-electron lasers. <i>New Journal of Physics</i> , 2008, 10, 033004.	1.2	97
20	Experiments at FLASH. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 601, 108-122.	0.7	88
21	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. <i>Spin</i> , 2015, 05, 1550004.	0.6	81
22	Single-shot timing measurement of extreme-ultraviolet free-electron laser pulses. <i>New Journal of Physics</i> , 2008, 10, 033026.	1.2	76
23	Viewing the Valence Electronic Structure of Ferric and Ferrous Hexacyanide in Solution from the Fe and Cyanide Perspectives. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7182-7194.	1.2	76
24	Ground-state interpretation of x-ray emission spectroscopy on adsorbates: CO adsorbed on Cu(100). <i>Physical Review B</i> , 2000, 61, 16229-16240.	1.1	72
25	FemtoSpeX: a versatile optical pump-soft X-ray probe facility with 100-fs X-ray pulses of variable polarization. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1090-1104.	1.0	71
26	A setup for resonant inelastic soft x-ray scattering on liquids at free electron laser light sources. <i>Review of Scientific Instruments</i> , 2012, 83, 123109.	0.6	70
27	Spatial Quantum Beats in Vibrational Resonant Inelastic Soft X-Ray Scattering at Dissociating States in Oxygen. <i>Physical Review Letters</i> , 2011, 106, 153004.	2.9	69
28	Time-resolved x-ray photoelectron spectroscopy at FLASH. <i>New Journal of Physics</i> , 2012, 14, 013062.	1.2	69
29	Beyond the Chemical Shift: Vibrationally Resolved Core-Level Photoelectron Spectra of Adsorbed CO. <i>Physical Review Letters</i> , 1998, 81, 1730-1733.	2.9	66
30	Partially Reversible Photoinduced Chemical Changes in a Mixed-Ion Perovskite Material for Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34970-34978.	4.0	65
31	L-Edge X-ray Absorption Spectroscopy of Dilute Systems Relevant to Metalloproteins Using an X-ray Free-Electron Laser. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3641-3647.	2.1	64
32	Longitudinal coherence measurements of an extreme-ultraviolet free-electron laser. <i>Optics Letters</i> , 2010, 35, 372.	1.7	63
33	Temporal cross-correlation of x-ray free electron and optical lasers using soft x-ray pulse induced transient reflectivity. <i>Optics Express</i> , 2012, 20, 11396.	1.7	62
34	Local probing of the surface chemical bond using X-ray emission spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 1997, 65, 147-154.	1.1	61
35	Resonant two-photon absorption of extreme-ultraviolet free-electron-laser radiation in helium. <i>Physical Review A</i> , 2007, 75, .	1.0	61
36	Probing the oxidation state of transition metal complexes: a case study on how charge and spin densities determine Mn L-edge X-ray absorption energies. <i>Chemical Science</i> , 2018, 9, 6813-6829.	3.7	60

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37	Dissecting Local Atomic and Intermolecular Interactions of Transition-Metal Ions in Solution with Selective X-ray Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3448-3453.	2.1	59
38	The extreme ultraviolet split and femtosecond delay unit at the plane grating monochromator beamline PG2 at FLASH. <i>Review of Scientific Instruments</i> , 2010, 81, 043107.	0.6	55
39	Compatibility of quantitative X-ray spectroscopy with continuous distribution models of water at ambient conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4058-4063.	3.3	54
40	Probing hydrogen bond strength in liquid water by resonant inelastic X-ray scattering. <i>Nature Communications</i> , 2019, 10, 1013.	5.8	53
41	Direct Experimental Measurement of Donation/Back-Donation in Unsaturated Hydrocarbon Bonding to Metals. <i>Journal of the American Chemical Society</i> , 2000, 122, 12310-12316.	6.6	52
42	Principles and operation of a new type of electron spectrometer – ArTOF. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 191, 92-103.	0.8	51
43	Selective Ultrafast Probing of Transient Hot Chemisorbed and Precursor States of CO on Ru(0001). <i>Physical Review Letters</i> , 2013, 110, 186101.	2.9	51
44	Selective gating to vibrational modes through resonant X-ray scattering. <i>Nature Communications</i> , 2017, 8, 14165.	5.8	50
45	Ultrafast and Energy-Efficient Quenching of Spin Order: Antiferromagnetism Beats Ferromagnetism. <i>Physical Review Letters</i> , 2017, 119, 197202.	2.9	49
46	Identification of the dominant photochemical pathways and mechanistic insights to the ultrafast ligand exchange of Fe(CO) ₅ to Fe(CO) ₄ EtOH. <i>Structural Dynamics</i> , 2016, 3, 043204.	0.9	48
47	Dynamics of resonant x-ray and Auger scattering. <i>Reviews of Modern Physics</i> , 2021, 93, .	16.4	48
48	Time-resolved soft X-ray absorption spectroscopy in transmission mode on liquids at MHz repetition rates. <i>Structural Dynamics</i> , 2017, 4, 054902.	0.9	47
49	Intramolecular soft modes and intermolecular interactions in liquid acetone. <i>Physical Review B</i> , 2011, 84, .	1.1	44
50	Probing chemical bonding in adsorbates using X-ray emission spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 110-111, 15-39.	0.8	43
51	Spin and orbital magnetic moments of deposited small iron clusters studied by x-ray magnetic circular dichroism spectroscopy. <i>New Journal of Physics</i> , 2002, 4, 98-98.	1.2	43
52	Single bunch X-ray pulses on demand from a multi-bunch synchrotron radiation source. <i>Nature Communications</i> , 2014, 5, 4010.	5.8	42
53	Disentangling Transient Charge Density and Metal–Ligand Covalency in Photoexcited Ferricyanide with Femtosecond Resonant Inelastic Soft X-ray Scattering. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3538-3543.	2.1	42
54	Snapshots of the Fluctuating Hydrogen Bond Network in Liquid Water on the Sub-Femtosecond Timescale with Vibrational Resonant Inelastic x-ray Scattering. <i>Physical Review Letters</i> , 2015, 114, 088302.	2.9	41

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55	Resonant soft-x-ray emission spectroscopy of surface adsorbates: Theory, computations, and measurements of ethylene and benzene on Cu(110). <i>Physical Review B</i> , 1999, 59, 5189-5200.	1.1	39
56	Ammonia adsorbed on Cu(110): An angle resolved x-ray spectroscopic and ab initio study. <i>Journal of Chemical Physics</i> , 1999, 110, 4880-4890.	1.2	38
57	Polarization and angle-resolved NEXAFS of benzene adsorbed on oriented single-domain Si(001)-2 \times 1 surfaces. <i>Physical Review B</i> , 2003, 68, .	1.1	36
58	Nonadiabatic Effects in Resonant Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2005, 95, 163002.	2.9	36
59	From Ligand Fields to Molecular Orbitals: Probing the Local Valence Electronic Structure of Ni ²⁺ in Aqueous Solution with Resonant Inelastic X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16512-16521.	1.2	36
60	Ultrafast Independent N ¹ H and N ¹³ C Bond Deformation Investigated with Resonant Inelastic X-Ray Scattering. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6088-6092.	7.2	36
61	Time-resolved resonant soft x-ray diffraction with free-electron lasers: Femtosecond dynamics across the Verwey transition in magnetite. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	35
62	Soft x-ray absorption spectroscopy of metalloproteins and high-valent metal-complexes at room temperature using free-electron lasers. <i>Structural Dynamics</i> , 2017, 4, 054307.	0.9	34
63	Reabsorption of Soft X-Ray Emission at High X-Ray Free-Electron Laser Fluences. <i>Physical Review Letters</i> , 2014, 113, 153002.	2.9	33
64	Phase-locked MHz pulse selector for x-ray sources. <i>Optics Letters</i> , 2015, 40, 2265.	1.7	33
65	Low Dose Photoelectron Spectroscopy at BESSY II: Electronic structure of matter in its native state. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 224, 68-78.	0.8	33
66	X-ray emission spectroscopy of bulk liquid water in femtosecond time delay. <i>Journal of Chemical Physics</i> , 2015, 142, 044505.	1.2	32
67	A study of the water molecule using frequency control over nuclear dynamics in resonant X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19573-19589.	1.3	32
68	Ethylene on Cu(110) and Ni(110): electronic structure and bonding derived from X-ray spectroscopy and theory. <i>Surface Science</i> , 2004, 559, 85-99.	0.8	30
69	Ground state potential energy surfaces around selected atoms from resonant inelastic x-ray scattering. <i>Scientific Reports</i> , 2016, 6, 20054.	1.6	30
70	Energy dependence of resonant charge transfer from adsorbates to metal substrates. <i>Chemical Physics</i> , 2003, 289, 107-115.	0.9	28
71	Ultrafast soft X-ray emission spectroscopy of surface adsorbates using an X-ray free electron laser. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 187, 9-14.	0.8	27
72	A novel monochromator for experiments with ultrashort X-ray pulses. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 522-530.	1.0	27

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73	Dynamics of the OH group and the electronic structure of liquid alcohols. <i>Structural Dynamics</i> , 2014, 1, 054901.	0.9	27
74	Vacuum space charge effects in sub-picosecond soft X-ray photoemission on a molecular adsorbate layer. <i>Structural Dynamics</i> , 2015, 2, 025101.	0.9	27
75	Resonant Auger spectroscopy at the L _{2,3} shake-up thresholds as a probe of electron correlation effects in nickel. <i>Physical Review B</i> , 1998, 58, 3677-3681.	1.1	26
76	Nuclear dynamics in resonant inelastic X-ray scattering and X-ray absorption of methanol. <i>Journal of Chemical Physics</i> , 2019, 150, 234301.	1.2	26
77	Cationic and Anionic Impact on the Electronic Structure of Liquid Water. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3759-3764.	2.1	26
78	Verification of the core-hole-clock method using two different time references: Attosecond charge transfer in c(4Å ⁻²)S/Ru(0001). <i>Chemical Physics Letters</i> , 2007, 434, 214-217.	1.2	25
79	Near edge x-ray absorption fine structure spectroscopy with x-ray free-electron lasers. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	25
80	Strong Influence of Coadsorbate Interaction on CO Desorption Dynamics on Ru(0001) Probed by Ultrafast X-Ray Spectroscopy and Ab Initio Simulations. <i>Physical Review Letters</i> , 2015, 114, 156101.	2.9	25
81	Fingerprints of electronic, spin and structural dynamics from resonant inelastic soft X-ray scattering in transient photo-chemical species. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7243-7253.	1.3	25
82	Crystal-field splitting in coadsorbate systems: c(2Å ⁻²)CO/K/Ni(100). <i>Physical Review B</i> , 2000, 62, 11192-11196.	1.1	24
83	Auger Resonant Raman Scattering in Itinerant Electron Systems: Continuum Excitation in Cu. <i>Physical Review Letters</i> , 2001, 88, 027601.	2.9	24
84	Dynamic interpretation of resonant x-ray Raman scattering: Ethylene and benzene. <i>Physical Review A</i> , 2007, 76, .	1.0	24
85	Ultrafast dissociation features in RIXS spectra of the water molecule. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14384-14397.	1.3	24
86	Fully polarization resolved X-ray absorption spectroscopy of C ₂ H ₄ on single-domain Si(001)-(2Å ⁻¹). <i>Surface Science</i> , 2003, 529, 144-150.	0.8	23
87	Franck-Condon breakdown in core-level photoelectron spectroscopy of chemisorbed CO. <i>Chemical Physics Letters</i> , 1999, 315, 194-200.	1.2	22
88	Ultrafast reduction of the total magnetization in iron. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	22
89	Probing the Hofmeister Effect with Ultrafast Core-Hole Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9398-9403.	1.2	22
90	Optical luminescence spectroscopy with the scanning soft x-ray microscope at HASYLAB/DESY. <i>Review of Scientific Instruments</i> , 1995, 66, 3513-3519.	0.6	21

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91	Interpretation of x-ray emission spectra: NO adsorbed on Ru(001). Journal of Chemical Physics, 1999, 111, 4704-4713.	1.2	21
92	Chemical Bond Activation Observed with an X-ray Laser. Journal of Physical Chemistry Letters, 2016, 7, 3647-3651.	2.1	21
93	Disentangling structural information from core-level excitation spectra. Physical Review E, 2017, 96, 013319.	0.8	21
94	The nature of frontier orbitals under systematic ligand exchange in (pseudo-)octahedral Fe(N) complexes. Physical Chemistry Chemical Physics, 2018, 20, 27745-27751.	1.3	21
95	X-ray emission spectroscopy of $(23\text{Å}-23)\text{R}30\text{Å}^\circ\text{CO}/\text{Ru}(0001)$: Comparison to $c(2\text{Å}-2)\text{CO}/\text{Ni}(100)$ and $c(2\text{Å}-2)\text{CO}/\text{Cu}(100)$. Journal of Chemical Physics, 2004, 121, 4848-4852.	1.2	20
96	Bonding in metal ϵ^c carbonyls: A comparison with experiment and calculations on adsorbed CO. Computational and Theoretical Chemistry, 2006, 762, 123-132.	1.5	20
97	High-brilliance free-electron-laser photoionization of N^2 : Ground-state depletion and radiation-field-induced modifications. Physical Review A, 2007, 76, .	1.0	20
98	Principles of femtosecond X-ray/optical cross-correlation with X-ray induced transient optical reflectivity in solids. Applied Physics Letters, 2015, 106, .	1.5	20
99	Ultrafast Self-Induced X-Ray Transparency and Loss of Magnetic Diffraction. Physical Review Letters, 2018, 121, 137403.	2.9	20
100	Time-resolved electron spectroscopy for chemical analysis of photodissociation: Photoelectron spectra of Fe(CO) ₅ , Fe(CO) ₄ , and Fe(CO) ₃ . Journal of Chemical Physics, 2018, 149, 044307.	1.2	20
101	TD-DFT simulations of K-edge resonant inelastic X-ray scattering within the restricted subspace approximation. Physical Chemistry Chemical Physics, 2021, 23, 1835-1848.	1.3	20
102	Surface projected electronic band structure and adsorbate charge transfer dynamics: Ar adsorbed on Cu(111) and Cu(100). Chemical Physics Letters, 2006, 427, 91-95.	1.2	19
103	Dynamics of Electron-Phonon Scattering: Crystal- and Angular-Momentum Transfer Probed by Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2009, 103, 237401.	2.9	19
104	X-ray absorption spectroscopy using a self-seeded soft X-ray free-electron laser. Optics Express, 2016, 24, 22469.	1.7	19
105	Molecular structures and protonation state of 2-Mercaptopyridine in aqueous solution. Chemical Physics Letters, 2016, 647, 103-106.	1.2	19
106	Time resolved resonant inelastic X-ray scattering: A supreme tool to understand dynamics in solids and molecules. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 172-182.	0.8	18
107	Ultrafast charge transfer and atomic orbital polarization. Journal of Chemical Physics, 2007, 127, 174708.	1.2	17
108	Charge transfer dynamics in molecular solids and adsorbates driven by local and non-local excitations. Surface Science, 2012, 606, 881-885.	0.8	17

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109	Covalency-Driven Preservation of Local Charge Densities in a Metal-Ligand Charge-Transfer Excited Iron Photosensitizer. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10742-10746.	7.2	17
110	Vibrational fine structure in core level photoelectron lines of adsorbed molecules: System dependent effects. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 101-103, 303-308.	0.8	15
111	Adsorption geometry of C ₂ H ₂ on the single-domain Si(001)-(2 \times 1) surface: fully polarization resolved NEXAFS. <i>Surface Science</i> , 2004, 562, 65-72.	0.8	15
112	Capabilities of Angle Resolved Time of Flight electron spectroscopy with the 60 $^{\circ}$ wide angle acceptance lens. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 224, 45-50.	0.8	15
113	Bond polarization and image-potential screening in adsorbed C ₆ F ₆ on Cu(111). <i>Surface Science</i> , 2006, 600, 4972-4977.	0.8	14
114	Anti-Stokes resonant x-ray Raman scattering for atom specific and excited state selective dynamics. <i>New Journal of Physics</i> , 2016, 18, 103011.	1.2	14
115	Communication: Direct evidence for sequential dissociation of gas-phase Fe(CO) ₅ via a singlet pathway upon excitation at 266 nm. <i>Journal of Chemical Physics</i> , 2017, 146, 211103.	1.2	14
116	Valence orbitals and local bond dynamics around N atoms of histidine under X-ray irradiation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 32091-32098.	1.3	14
117	T_{1} Population as the Driver of Excited-State Proton Transfer in ϵ -Thiopyridone. <i>Chemistry - A European Journal</i> , 2019, 25, 1733-1739.	1.7	14
118	Growth of two-dimensional WS ₂ thin films by reactive sputtering. <i>Vacuum</i> , 2021, 188, 110205.	1.6	14
119	Geometric and electronic structure of lanthanide orthophosphate nanoparticles determined with X-rays. <i>Journal of Chemical Physics</i> , 2008, 128, 134706.	1.2	13
120	Spin-Orbit Mediated Interference in the Radiative and Nonradiative Channels of the La \langle math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle mml:mn>4</mml:mn> \langle mml:mi>d</mml:mi></mml:math> Core Resonances. <i>Physical Review Letters</i> , 2009, 103, 137401.	2.9	13
121	Internal symmetry and selection rules in resonant inelastic soft x-ray scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 161002.	0.6	13
122	Laser-induced charge-disproportionated metallic state in \langle math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle mml:msub><mml:mi mathvariant="normal">LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. <i>Physical Review B</i> , 2014, 90, .	1.1	13
123	Optical laser-induced CO desorption from Ru(0001) monitored with a free-electron X-ray laser: DFT prediction and X-ray confirmation of a precursor state. <i>Surface Science</i> , 2015, 640, 80-88.	0.8	13
124	Ionic Solutions Probed by Resonant Inelastic X-ray Scattering. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 1855-1867.	1.4	13
125	One-dimensional cuts through multidimensional potential-energy surfaces by tunable x rays. <i>Physical Review A</i> , 2018, 97, .	1.0	13
126	Measurement of the predicted asymmetric closing behaviour of the band gap of silicon using x-ray absorption and emission spectroscopy. <i>New Journal of Physics</i> , 2010, 12, 043011.	1.2	12

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127	Rydberg-Resolved Resonant Inelastic Soft X-Ray Scattering: Dynamics at Core Ionization Thresholds. <i>Physical Review Letters</i> , 2015, 114, 133001.	2.9	12
128	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.	2.1	12
129	The CoESCA station at BESSY: Auger electron-photoelectron coincidences from surfaces demonstrated for Ag MNN. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021, 250, 147075.	0.8	12
130	X-ray fluorescence spectra of metals excited below threshold. <i>Physical Review B</i> , 2003, 68, .	1.1	11
131	Design and optimization of a parallel spectrometer for ultra-fast X-ray science. <i>Optics Express</i> , 2014, 22, 12583.	1.7	11
132	Reply to 'Optical excitation of thin magnetic layers in multilayer structures'. <i>Nature Materials</i> , 2014, 13, 102-103.	13.3	11
133	Thermal evolution of the band edges of 6H-SiC: X-ray methods compared to the optical band gap. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 197, 37-42.	0.8	11
134	Theoretical simulations of oxygen K -edge resonant inelastic x-ray scattering of kaolinite. <i>Physical Review B</i> , 2017, 95, .	1.1	11
135	Photodriven Transient Picosecond Top-Layer Semiconductor to Metal Phase-Transition in p-Doped Molybdenum Disulfide. <i>Advanced Materials</i> , 2021, 33, e2006957.	11.1	11
136	The porphyrin center as a regulator for metal-ligand covalency and π hybridization in the entire molecule. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24765-24772.	1.3	11
137	Electronic transfer processes studied at different time scales by selective resonant core hole excitation of adsorbed molecules. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 78, 125-129.	1.1	10
138	Interface photovoltage dynamics at the buried BaF ₂ /Si interface: Time resolved laser-pump/synchrotron-probe photoemission. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 587-592.	1.1	10
139	Implications of stimulated resonant X-ray scattering for spectroscopy, imaging, and diffraction in the regime from soft to hard X-rays. <i>Journal of Modern Optics</i> , 2015, 62, S34-S45.	0.6	10
140	Ultrafast charge transfer and nuclear dynamics studied with resonant X-ray spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 85, 351-359.	1.1	9
141	A soft X-ray approach to electron-phonon interactions beyond the Born-Oppenheimer approximation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011, 184, 313-317.	0.8	9
142	Interference between Resonant and Nonresonant Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2013, 110, 223001.	2.9	9
143	The confocal plane grating spectrometer at BESSY II. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 188, 133-139.	0.8	9
144	The role of space charge in spin-resolved photoemission experiments. <i>New Journal of Physics</i> , 2014, 16, 043031.	1.2	9

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145	State-dependent fluorescence yields through the core-valence Coulomb exchange parameter. <i>Physical Review A</i> , 2014, 89, .	1.0	9
146	Directional sub-femtosecond charge transfer dynamics and the dimensionality of 1T-TaS ₂ . <i>Scientific Reports</i> , 2019, 9, 488.	1.6	9
147	Reply to Pettersson et al.: Why X-ray spectral features are compatible to continuous distribution models in ambient water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17158-17159.	3.3	9
148	Analysis of the halo background in femtosecond slicing experiments. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 700-711.	1.0	9
149	Stimulated resonant inelastic X-ray scattering in a solid. <i>Communications Physics</i> , 2022, 5, .	2.0	9
150	Soft X-ray probes of ultrafast dynamics for heterogeneous catalysis. <i>Chemical Physics</i> , 2013, 414, 130-138.	0.9	8
151	QED effects in 1s and 2s single and double ionization potentials of the noble gases. <i>Journal of Chemical Physics</i> , 2017, 146, 144312.	1.2	8
152	Recoil-induced dissociation in hard-x-ray photoionization. <i>Physical Review A</i> , 2019, 100, .	1.0	8
153	<i>ab initio</i> simulations of complementary K-edges and solvation effects for detection of proton transfer in aqueous 2-thiopyridone. <i>Journal of Chemical Physics</i> , 2019, 151, 114117.	1.2	8
154	Probing Solute-Solvent Interactions of Transition Metal Complexes Using L-Edge Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5636-5645.	1.2	8
155	Breaking the Symmetry of Pyrimidine: Solvent Effects and Core-Excited State Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8637-8643.	2.1	8
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