

Alexander FÄhlich

List of Publications by Year in descending order

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222
papers

7,209
citations

50170

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229
all docs

229
docs citations

229
times ranked

6611
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-resolved study of recoil-induced rotation by X-ray pump X-ray probe spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 6627-6638.	1.3	3
2	Wafer-sized WS ₂ monolayer deposition by sputtering. Nanoscale, 2022, 14, 6331-6338.	2.8	6
3	Fundamental electronic changes upon intersystem crossing in large aromatic photosensitizers: free base 5,10,15,20-tetrakis(4-carboxylatophenyl)porphyrin. Physical Chemistry Chemical Physics, 2022, 24, 7505-7511.	1.3	6
4	Targeting Individual Tautomers in Equilibrium by Resonant Inelastic X-ray Scattering. Journal of Physical Chemistry Letters, 2022, 13, 2459-2466.	2.1	4
5	Stimulated resonant inelastic X-ray scattering in a solid. Communications Physics, 2022, 5, .	2.0	9
6	Auger- and photoelectron coincidences of molecular O ₂ adsorbed on Ag(111). Journal of Electron Spectroscopy and Related Phenomena, 2022, 256, 147174.	0.8	0
7	A rate model approach for FEL pulse induced transmissions changes, saturable absorption, X-ray transparency and stimulated emission. Journal of Electron Spectroscopy and Related Phenomena, 2022, 256, 147139.	0.8	1
8	The meV XUV-RIXS facility at UE112-PGM1 of BESSY II. Journal of Synchrotron Radiation, 2022, 29, 908-915.	1.0	2
9	Photo-induced ligand substitution of Cr(CO) ₆ in 1-pentanol probed by time resolved X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 17979-17985.	1.3	4
10	Uppsala and Berkeley: Two essential laboratories in the development of modern photoelectron spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 043207.	0.9	0
11	R-Group stabilization in methylated formamides observed by resonant inelastic X-ray scattering. Chemical Communications, 2022, 58, 8834-8837.	2.2	2
12	From the Free Ligand to the Transition Metal Complex: FeEDTA ³⁻ Formation Seen at Ligand K-Edges. Inorganic Chemistry, 2022, 61, 10321-10328.	1.9	5
13	Excited-state exchange interaction in NiO determined by high-resolution resonant inelastic x-ray scattering at the Ni. M Mn^2 edges. Physical Review B, 2022, 106, .	1.1	0
14	Cuts through the manifold of molecular H ₂ O potential energy surfaces in liquid water at ambient conditions. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	2
15	Thresholding of the Elliott-Yafet spin-flip scattering in multi-sublattice magnets by the respective exchange energies. Scientific Reports, 2021, 11, 1883.	1.6	5
16	How Hydrogen Bonding Amplifies Isomeric Differences in Pyridones toward Strong Changes in Acidity and Tautomerism. Journal of Physical Chemistry B, 2021, 125, 2372-2379.	1.2	7
17	Vibrational resonant inelastic X-ray scattering in liquid acetic acid: a ruler for molecular chain lengths. Scientific Reports, 2021, 11, 4098.	1.6	7
18	Photodriven Transient Picosecond Topo-Layer Semiconductor to Metal Phase Transition in p-Doped Molybdenum Disulfide. Advanced Materials, 2021, 33, e2006957.	11.1	11

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19	Directional charge delocalization dynamics in semiconducting 2H-MoSS ₂ and metallic 1T-LiSS _x MoSS ₂ . Scientific Reports, 2021, 11, 6893.	1.6	3
20	Quantification of Ni L _{2,3} core-hole relaxation pathways utilizing Auger photoelectron coincidence spectroscopy. Physical Review B, 2021, 103, .	1.1	5
21	Molybdenum Disulfide: Photodriven Transient Picosecond Top Layer Semiconductor to Metal Phase Transition in p-Doped Molybdenum Disulfide (Adv. Mater. 14/2021). Advanced Materials, 2021, 33, 2170108.	11.1	2
22	Hydrogen bond effects in multimode nuclear dynamics of acetic acid observed via resonant x-ray scattering. Journal of Chemical Physics, 2021, 154, 214304.	1.2	2
23	Growth of two-dimensional WS ₂ thin films by reactive sputtering. Vacuum, 2021, 188, 110205.	1.6	14
24	Following Metal-to-Ligand Charge-Transfer Dynamics with Ligand and Spin Specificity Using Femtosecond Resonant Inelastic X-ray Scattering at the Nitrogen K-Edge. Journal of Physical Chemistry Letters, 2021, 12, 6676-6683.	2.1	12
25	The CoESCA station at BESSY: Auger electron photoelectron coincidences from surfaces demonstrated for Ag MNN. Journal of Electron Spectroscopy and Related Phenomena, 2021, 250, 147075.	0.8	12
26	Dynamics of resonant x-ray and Auger scattering. Reviews of Modern Physics, 2021, 93, .	16.4	48
27	Separation of surface oxide from bulk Ni by selective Ni 3p photoelectron spectroscopy for chemical analysis in coincidence with Ni M-edge Auger electrons. Scientific Reports, 2021, 11, 16596.	1.6	1
28	Breaking the Symmetry of Pyrimidine: Solvent Effects and Core-Excited State Dynamics. Journal of Physical Chemistry Letters, 2021, 12, 8637-8643.	2.1	8
29	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
30	Spin-lattice angular momentum transfer of localized and valence electrons in the demagnetization transient state of gadolinium. Applied Physics Letters, 2021, 119, .	1.5	4
31	The porphyrin center as a regulator for metal-ligand covalency and π hybridization in the entire molecule. Physical Chemistry Chemical Physics, 2021, 23, 24765-24772.	1.3	11
32	Resonant inelastic x-ray scattering on CO : Parity conservation in inversion-symmetric polyatomics. Physical Review A, 2020, 101, .	1.6	16
33	Probing Solute-Solvent Interactions of Transition Metal Complexes Using L-Edge Absorption Spectroscopy. Journal of Physical Chemistry B, 2020, 124, 5636-5645.	1.2	8
34	Quantitative evaluation of transient valence orbital occupations in a 3d transition metal complex as seen from the metal and ligand perspective. Chemical Physics Letters, 2020, 754, 137681.	1.2	6
35	A method for studying pico to microsecond time-resolved core-level spectroscopy used to investigate electron dynamics in quantum dots. Scientific Reports, 2020, 10, 22438.	1.6	5
36	Titelbild: Kovalenzgetriebene Erhaltung lokaler Ladungsdichten in einem durch Metall-Ligand-Ladungstransfer angeregten Eisenphotosensibilisator (Angew. Chem. 31/2019). Angewandte Chemie, 2019, 131, 10485-10485.	1.6	0

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37	Measuring the atomic spin-flip scattering rate by x-ray emission spectroscopy. Scientific Reports, 2019, 9, 8977.	1.6	5
38	The influence of x-ray pulse length on space-charge effects in optical pump/x-ray probe photoemission. New Journal of Physics, 2019, 21, 073042.	1.2	5
39	Directional sub-femtosecond charge transfer dynamics and the dimensionality of 1T-TaS ₂ . Scientific Reports, 2019, 9, 488.	1.6	9
40	Nuclear dynamics in resonant inelastic X-ray scattering and X-ray absorption of methanol. Journal of Chemical Physics, 2019, 150, 234301.	1.2	26
41	Covalency-Driven Preservation of Local Charge Densities in a Metal-to-Ligand Charge-Transfer Excited Iron Photosensitizer. Angewandte Chemie - International Edition, 2019, 58, 10742-10746.	7.2	17
42	Kovalenzgetriebene Erhaltung lokaler Ladungsdichten in einem durch Metall-Ligand-Ladungstransfer angeregten Eisenphotosensibilisator. Angewandte Chemie, 2019, 131, 10853-10857.	1.6	0
43	Probing hydrogen bond strength in liquid water by resonant inelastic X-ray scattering. Nature Communications, 2019, 10, 1013.	5.8	53
44	Compatibility of quantitative X-ray spectroscopy with continuous distribution models of water at ambient conditions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4058-4063.	3.3	54
45	Reply to Pettersson et al.: Why X-ray spectral features are compatible to continuous distribution models in ambient water. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17158-17159.	3.3	9
46	Recoil-induced dissociation in hard-x-ray photoionization. Physical Review A, 2019, 100, .	1.0	8
47	<i>Ab initio</i> simulations of complementary K-edges and solvation effects for detection of proton transfer in aqueous 2-thiopyridone. Journal of Chemical Physics, 2019, 151, 114117.	1.2	8
48	T ₁ Population as the Driver of Excited-State Proton Transfer in 2-Thiopyridone. Chemistry - A European Journal, 2019, 25, 1733-1739.	1.7	14
49	Fingerprints of electronic, spin and structural dynamics from resonant inelastic soft X-ray scattering in transient photo-chemical species. Physical Chemistry Chemical Physics, 2018, 20, 7243-7253.	1.3	25
50	Inverted VLS Spectrometer at BESSY for Molecular Potential Energy Surfaces and Excitations. Synchrotron Radiation News, 2018, 31, 20-25.	0.2	3
51	Ultrafast dissociation features in RIXS spectra of the water molecule. Physical Chemistry Chemical Physics, 2018, 20, 14384-14397.	1.3	24
52	Low Dose Photoelectron Spectroscopy at BESSY II: Electronic structure of matter in its native state. Journal of Electron Spectroscopy and Related Phenomena, 2018, 224, 68-78.	0.8	33
53	Capabilities of Angle Resolved Time of Flight electron spectroscopy with the 60° wide angle acceptance lens. Journal of Electron Spectroscopy and Related Phenomena, 2018, 224, 45-50.	0.8	15
54	Probing the non-equilibrium transient state in magnetite by a jitter-free two-color X-ray pump and X-ray probe experiment. Structural Dynamics, 2018, 5, 054501.	0.9	6

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55	Ultrafast Self-Induced X-Ray Transparency and Loss of Magnetic Diffraction. <i>Physical Review Letters</i> , 2018, 121, 137403.	2.9	20
56	The nature of frontier orbitals under systematic ligand exchange in (pseudo-)octahedral Fe(scp) complexes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27745-27751.	1.3	21
57	One-dimensional cuts through multidimensional potential-energy surfaces by tunable x rays. <i>Physical Review A</i> , 2018, 97, .	1.0	13
58	Time-resolved electron spectroscopy for chemical analysis of photodissociation: Photoelectron spectra of Fe(CO) ₅ , Fe(CO) ₄ , and Fe(CO) ₃ . <i>Journal of Chemical Physics</i> , 2018, 149, 044307.	1.2	20
59	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
60	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
61	Selective gating to vibrational modes through resonant X-ray scattering. <i>Nature Communications</i> , 2017, 8, 14165.	5.8	50
62	Quantifying covalent interactions with resonant inelastic soft X-ray scattering: Case study of Ni ²⁺ -aqua complex. <i>Chemical Physics Letters</i> , 2017, 669, 196-201.	1.2	4
63	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
64	Ultrafast Independent N-H and N-C Bond Deformation Investigated with Resonant Inelastic X-Ray Scattering. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6088-6092.	7.2	36
65	Dynamics of space-charge acceleration of X-ray generated electrons emitted from a metal surface. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 220, 40-45.	0.8	4
66	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
67	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
68	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
69	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
70	Disentangling structural information from core-level excitation spectra. <i>Physical Review E</i> , 2017, 96, 013319.	0.8	21
71	Untersuchung unabhängiger N-H- und N-C-Bindungsverformungen auf ultrakurzen Zeitskalen mit resonanter inelastischer Röntgenstreuung. <i>Angewandte Chemie</i> , 2017, 129, 6184-6188.	1.6	3
72	Innenrücktitelbild: Untersuchung unabhängiger N-H- und N-C-Bindungsverformungen auf ultrakurzen Zeitskalen mit resonanter inelastischer Röntgenstreuung (Angew. Chem. 22/2017). <i>Angewandte Chemie</i> , 2017, 129, 6441-6441.	1.6	0

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73	X-ray spectroscopy on the active ion in laser crystals. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21800-21806.	1.3	3
74	Local Maps of Potential Energy Surfaces and Chemical Pathways. <i>Synchrotron Radiation News</i> , 2017, 30, 8-13.	0.2	0
75	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
76	Ultrafast and Energy-Efficient Quenching of Spin Order: Antiferromagnetism Beats Ferromagnetism. <i>Physical Review Letters</i> , 2017, 119, 197202.	2.9	49
77	Theoretical simulations of oxygen K -edge resonant inelastic x-ray scattering of kaolinite. <i>Physical Review B</i> , 2017, 95, .	1.1	11
78	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
79	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
80	X-ray absorption spectroscopy using a self-seeded soft X-ray free-electron laser. <i>Optics Express</i> , 2016, 24, 22469.	1.7	19
81	Versatile soft X-ray-optical cross-correlator for ultrafast applications. <i>Structural Dynamics</i> , 2016, 3, 054304.	0.9	4
82	Density functional simulation of resonant inelastic X-ray scattering experiments in liquids: acetonitrile. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26026-26032.	1.3	6
83	Chemical Bond Activation Observed with an X-ray Laser. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3647-3651.	2.1	21
84	Ground state potential energy surfaces around selected atoms from resonant inelastic x-ray scattering. <i>Scientific Reports</i> , 2016, 6, 20054.	1.6	30
85	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
86	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
87	Identification of the dominant photochemical pathways and mechanistic insights to the ultrafast ligand exchange of $Fe(CO)_5$ to $Fe(CO)_4EtOH$. <i>Structural Dynamics</i> , 2016, 3, 043204.	0.9	48
88	Molecular structures and protonation state of 2-Mercaptopyridine in aqueous solution. <i>Chemical Physics Letters</i> , 2016, 647, 103-106.	1.2	19
89	Analysis of the halo background in femtosecond slicing experiments. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 700-711.	1.0	9
90	Laser-pump/X-ray-probe experiments with electrons ejected from a Cu(111) target: space-charge acceleration. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1158-1170.	1.0	7

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91	Free-electron laser based resonant inelastic X-ray scattering on molecules and liquids. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 345-355.	0.8	3
92	Snapshots of the Fluctuating Hydrogen Bond Network in Liquid Water on the Sub-Femtosecond Timescale with Vibrational Resonant Inelastic x-ray Scattering. Physical Review Letters, 2015, 114, 088302.	2.9	41
93	Vacuum space charge effects in sub-picosecond soft X-ray photoemission on a molecular adsorbate layer. Structural Dynamics, 2015, 2, 025101.	0.9	27
94	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. Surface Science, 2015, 640, 80-88.	0.8	13
95	Implications of stimulated resonant X-ray scattering for spectroscopy, imaging, and diffraction in the regime from soft to hard X-rays. Journal of Modern Optics, 2015, 62, S34-S45.	0.6	10
96	Ionic Solutions Probed by Resonant Inelastic X-ray Scattering. Zeitschrift Fur Physikalische Chemie, 2015, 229, 1855-1867.	1.4	13
97	Probing the transition state region in catalytic CO oxidation on Ru. Science, 2015, 347, 978-982.	6.0	193
98	Rydberg-Resolved Resonant Inelastic Soft X-Ray Scattering: Dynamics at Core Ionization Thresholds. Physical Review Letters, 2015, 114, 133001.	2.9	12
99	Strong Influence of Coadsorbate Interaction on CO Desorption Dynamics on Ru(0001) Probed by Ultrafast X-Ray Spectroscopy and Ab Initio Simulations. Physical Review Letters, 2015, 114, 156101.	2.9	25
100	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
101	Orbital-specific mapping of the ligand exchange dynamics of Fe(CO) ₅ in solution. Nature, 2015, 520, 78-81.	13.7	247
102	Phase-locked MHz pulse selector for x-ray sources. Optics Letters, 2015, 40, 2265.	1.7	33
103	X-ray emission spectroscopy of bulk liquid water in ϵ -man TM s land ϵ . Journal of Chemical Physics, 2015, 142, 044505.	1.2	32
104	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. Spin, 2015, 05, 1550004.	0.6	81
105	Engineering Ultrafast Magnetism. Springer Proceedings in Physics, 2015, , 297-299.	0.1	1
106	Laser-induced charge-disproportionated metallic state in LaCoO_3 . Physical Review B, 2014, 90, .	1.1	13
107	The role of space charge in spin-resolved photoemission experiments. New Journal of Physics, 2014, 16, 043031.	1.2	9
108	The angular- and crystal-momentum transfer through electron-phonon coupling in silicon and silicon-carbide: similarities and differences. New Journal of Physics, 2014, 16, 093056.	1.2	5

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109	Design and optimization of a parallel spectrometer for ultra-fast X-ray science. Optics Express, 2014, 22, 12583.	1.7	11
110	Comment on "State-Dependent Electron Delocalization Dynamics at the Solute-Solvent Interface: Soft-X-ray Absorption Spectroscopy and Ab Initio Calculations" Physical Review Letters, 2014, 112, 129302.	2.9	5
111	Reabsorption of Soft X-Ray Emission at High X-Ray Free-Electron Laser Fluences. Physical Review Letters, 2014, 113, 153002.	2.9	33
112	State-dependent fluorescence yields through the core-valence Coulomb exchange parameter. Physical Review A, 2014, 89, .	1.0	9
113	Ultrafast reduction of the total magnetization in iron. Applied Physics Letters, 2014, 104, .	1.5	22
114	Reply to 'Optical excitation of thin magnetic layers in multilayer structures'. Nature Materials, 2014, 13, 102-103.	13.3	11
115	Dynamics of the OH group and the electronic structure of liquid alcohols. Structural Dynamics, 2014, 1, 054901.	0.9	27
116	Probing the Hofmeister Effect with Ultrafast Core" Hole Spectroscopy. Journal of Physical Chemistry B, 2014, 118, 9398-9403.	1.2	22
117	Thermal evolution of the band edges of 6H-SiC: X-ray methods compared to the optical band gap. Journal of Electron Spectroscopy and Related Phenomena, 2014, 197, 37-42.	0.8	11
118	Single bunch X-ray pulses on demand from a multi-bunch synchrotron radiation source. Nature Communications, 2014, 5, 4010.	5.8	42
119	FemtoSpeX: a versatile optical pump" soft X-ray probe facility with 100" fs X-ray pulses of variable polarization. Journal of Synchrotron Radiation, 2014, 21, 1090-1104.	1.0	71
120	Speed limit of the insulator" metal transition in " magnetite. Nature Materials, 2013, 12, 882-886.	13.3	121
121	Stimulated X-ray emission for materials science. Nature, 2013, 501, 191-194.	13.7	102
122	Interference between Resonant and Nonresonant Inelastic X-Ray Scattering. Physical Review Letters, 2013, 110, 223001.	2.9	9
123	Ultrafast electronic processes in an insulator: The Be and O sites in BeO. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 48-55.	0.6	6
124	From Ligand Fields to Molecular Orbitals: Probing the Local Valence Electronic Structure of Ni ²⁺ in Aqueous Solution with Resonant Inelastic X-ray Scattering. Journal of Physical Chemistry B, 2013, 117, 16512-16521.	1.2	36
125	L-Edge X-ray Absorption Spectroscopy of Dilute Systems Relevant to Metalloproteins Using an X-ray Free-Electron Laser. Journal of Physical Chemistry Letters, 2013, 4, 3641-3647.	2.1	64
126	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

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127	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
128	The confocal plane grating spectrometer at BESSY II. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 188, 133-139.	0.8	9
129	Ultrafast spin transport as key to femtosecond demagnetization. <i>Nature Materials</i> , 2013, 12, 332-336.	13.3	262
130	Real-Time Observation of Surface Bond Breaking with an X-ray Laser. <i>Science</i> , 2013, 339, 1302-1305.	6.0	179
131	Soft X-ray probes of ultrafast dynamics for heterogeneous catalysis. <i>Chemical Physics</i> , 2013, 414, 130-138.	0.9	8
132	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
133	A novel monochromator for experiments with ultrashort X-ray pulses. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 522-530.	1.0	27
134	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
135	Novel wavelength-dispersive X-ray fluorescence spectrometer. <i>Journal of Physics: Conference Series</i> , 2013, 425, 152013.	0.3	3
136	A novel monochromator for ultrashort soft x-ray pulses. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
137	Mapping chemical bonding of reaction intermediates with femtosecond X-ray laser spectroscopy. <i>EPJ Web of Conferences</i> , 2013, 41, 05025.	0.1	3
138	Time and momentum resolved resonant magnetic x-ray diffraction on EuTe. <i>EPJ Web of Conferences</i> , 2013, 41, 03014.	0.1	0
139	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
140	A versatile detector for total fluorescence and electron yield experiments. <i>Review of Scientific Instruments</i> , 2012, 83, 093109.	0.6	1
141	Time-resolved x-ray photoelectron spectroscopy at FLASH. <i>New Journal of Physics</i> , 2012, 14, 013062.	1.2	69
142	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
143	X-ray pulse preserving single-shot optical cross-correlation method for improved experimental temporal resolution. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	111
144	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

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145	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. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3565-3570.	2.1	168
146	Charge transfer dynamics in molecular solids and adsorbates driven by local and non-local excitations. <i>Surface Science</i> , 2012, 606, 881-885.	0.8	17
147	Unveiling the complex electronic structure of amorphous metal oxides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6355-6360.	3.3	102
148	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
149	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
150	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
151	Intramolecular soft modes and intermolecular interactions in liquid acetone. <i>Physical Review B</i> , 2011, 84, .	1.1	44
152	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
153	Resonant Inelastic Scattering Spectra of Free Molecules with Vibrational Resolution. <i>Physical Review Letters</i> , 2010, 104, 193002.	2.9	126
154	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
155	The liquid-liquid phase transition in silicon revealed by snapshots of valence electrons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16772-16776.	3.3	158
156	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
157	Ultrast Melting of a Charge-Density Wave in the Mott Insulator $\hat{a}^{\sim} T \text{TaS}_2$. <i>Physical Review Letters</i> , 2010, 105, 187401.	2.9	151
158	Longitudinal coherence measurements of an extreme-ultraviolet free-electron laser. <i>Optics Letters</i> , 2010, 35, 372.	1.7	63
159	Near edge x-ray absorption fine structure spectroscopy with x-ray free-electron lasers. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	25
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161	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
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