

Katharina Kubicek

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,249
citations

430874

18
h-index

477307

29
g-index

31
all docs

31
docs citations

31
times ranked

1768
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracking excited-state charge and spin dynamics in iron coordination complexes. <i>Nature</i> , 2014, 509, 345-348.	27.8	382
2	An unexpectedly low oscillator strength as the origin of the Fe ^{xvii} emission problem. <i>Nature</i> , 2012, 492, 225-228.	27.8	133
3	Manipulating charge transfer excited state relaxation and spin crossover in iron coordination complexes with ligand substitution. <i>Chemical Science</i> , 2017, 8, 515-523.	7.4	102
4	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.	4.6	64
5	Testing QED Screening and Two-Loop Contributions with He-Like Ions. <i>Physical Review Letters</i> , 2007, 99, 113001.	7.8	52
6	Resonant and Near-Threshold Photoionization Cross Sections of Fe^{14+} . <i>Physical Review Letters</i> , 2010, 105, 183001.	7.8	49
7	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.	4.6	42
8	Ligand manipulation of charge transfer excited state relaxation and spin crossover in $[\text{Fe}(\text{2,2}'\text{-bipyridine})_2(\text{CN})_2]$. <i>Structural Dynamics</i> , 2017, 4, 044030.	2.3	41
9	Transition energy measurements in hydrogenlike and heliumlike ions strongly supporting bound-state QED calculations. <i>Physical Review A</i> , 2014, 90, .	2.5	38
10	Photoionization of N^{3+} and Ar^{8+} in an electron beam ion trap by synchrotron radiation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 065003.	1.5	37
11	Ultrafast X-ray Photochemistry at European XFEL: Capabilities of the Femtosecond X-ray Experiments (FXE) Instrument. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 995.	2.5	35
12	Reabsorption of Soft X-Ray Emission at High X-Ray Free-Electron Laser Fluences. <i>Physical Review Letters</i> , 2014, 113, 153002.	7.8	33
13	X-ray emission spectroscopy of bulk liquid water in e^{-} -man TM s land TM . <i>Journal of Chemical Physics</i> , 2015, 142, 044505.	3.0	32
14	Spin cascade and doming in ferric hemes: Femtosecond X-ray absorption and X-ray emission studies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21914-21920.	7.1	27
15	Geometric and electronic properties in a series of phosphorescent heteroleptic Cu(I) complexes: Crystallographic and computational studies. <i>Polyhedron</i> , 2017, 124, 166-176.	2.2	26
16	Scientific instrument Femtosecond X-ray Experiments (FXE): instrumentation and baseline experimental capabilities. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1432-1447.	2.4	24
17	High-precision laser-assisted absolute determination of x-ray diffraction angles. <i>Review of Scientific Instruments</i> , 2012, 83, 013102.	1.3	23
18	Probing the Hofmeister Effect with Ultrafast Core-Hole Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9398-9403.	2.6	22

#	ARTICLE	IF	CITATIONS
19	Transmission zone plates as analyzers for efficient parallel 2D RIXS-mapping. Scientific Reports, 2017, 7, 8849.	3.3	18
20	ON THE TRANSITION RATE OF THE Fe X RED CORONAL LINE. Astrophysical Journal, 2009, 703, 68-73.	4.5	17
21	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.	4.6	11
22	Exploring the light-induced dynamics in solvated metallogrid complexes with femtosecond pulses across the electromagnetic spectrum. Journal of Chemical Physics, 2020, 152, 214301.	3.0	10
23	Two-loop QED contributions tests with <i>mid-Z</i> He-like ions. Journal of Physics: Conference Series, 2009, 163, 012007.	0.4	9
24	Photoionization of ions in arbitrary charge states by synchrotron radiation in an electron beam ion trap. Journal of Physics: Conference Series, 2009, 194, 012009.	0.4	7
25	A zone-plate-based two-color spectrometer for indirect X-ray absorption spectroscopy. Journal of Synchrotron Radiation, 2019, 26, 1266-1271.	2.4	5
26	A step toward probing higher-order Feynman diagrams in few-electron highly charged ions. Physica Scripta, 2013, T156, 014005.	2.5	4
27	ID-Full Field Microscopy of Elastic and Inelastic Scattering with Transmission off-axis Fresnel Zone Plates. Microscopy and Microanalysis, 2018, 24, 184-185.	0.4	3
28	Studies of highly charged iron ions using electron beam ion traps for interpreting astrophysical spectra. Physica Scripta, 2013, T156, 014001.	2.5	2
29	X-ray laser spectroscopy with an electron beam ion trap at the free electron laser LCLS. Journal of Physics: Conference Series, 2012, 388, 032037.	0.4	1
30	Photoionizing trapped highly charged ions with synchrotron radiation. , 2012, , .		0
31	CHAPTER 15. Ultrafast Time Structure Imprints in Complex Chemical and Biochemical Reactions. RSC Energy and Environment Series, 0, , 301-322.	0.5	0