Piter S Miedema

List of Publications by Year
in descending order

44 papers	1,197 citations	394421 19 h-index	377865 34 g-index
45 all docs	45 docs citations	45 times ranked	2374 citing authors

#	Article	IF	Citations
1	Direct and real-time observation of hole transport dynamics in anatase TiO2 using X-ray free-electron laser. Nature Communications, 2022, 13, 2531.	12.8	15
2	Probing electron and hole colocalization by resonant four-wave mixing spectroscopy in the extreme ultraviolet. Science Advances, 2022, 8, .	10.3	11
3	Soft x-ray imaging spectroscopy with micrometer resolution. Optica, 2021, 8, 156.	9.3	6
4	The electronic structure and deexcitation pathways of an isolated metalloporphyrin ion resolved by metal L-edge spectroscopy. Chemical Science, 2021, 12, 3966-3976.	7.4	3
5	Shot noise limited soft x-ray absorption spectroscopy in solution at a SASE-FEL using a transmission grating beam splitter. Structural Dynamics, 2021, 8, 014303.	2.3	7
6	The TRIXS end-station for femtosecond time-resolved resonant inelastic x-ray scattering experiments at the soft x-ray free-electron laser FLASH. Structural Dynamics, 2020, 7, 054301.	2.3	9
7	Parallel Broadband Femtosecond Reflection Spectroscopy at a Soft X-Ray Free-Electron Laser. Applied Sciences (Switzerland), 2020, 10, 6947.	2.5	7
8	Strain analysis from M-edge resonant inelastic X-ray scattering of nickel oxide films. Physical Chemistry Chemical Physics, 2019, 21, 21596-21602.	2.8	2
9	Non-linear soft x-ray methods on solids with MUSIXâ€"the multi-dimensional spectroscopy and inelastic x-ray scattering endstation. Journal of Physics Condensed Matter, 2019, 31, 014003.	1.8	15
10	Normalized single-shot X-ray absorption spectroscopy at a free-electron laser. Optics Letters, 2019, 44, 2157.	3.3	11
11	Soft Xâ€ray Spectroscopy as a Probe for Gasâ€Phase Protein Structure: Electron Impact Ionization from Within. Chemistry - A European Journal, 2018, 24, 7631-7636.	3.3	23
12	Total 3s Emission Yield as Bulk-Sensitive Probe for a True Soft X-ray Absorption Spectrum?. Journal of Physical Chemistry Letters, 2018, 9, 2579-2583.	4.6	8
13	X-ray spectroscopy with variable line spacing based on reflection zone plate optics. Optics Letters, 2018, 43, 4390.	3.3	10
14	The nature of frontier orbitals under systematic ligand exchange in (pseudo-)octahedral Fe(<scp>ii</scp>) complexes. Physical Chemistry Chemical Physics, 2018, 20, 27745-27751.	2.8	21
15	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.	3.0	20
16	Communication: Direct evidence for sequential dissociation of gas-phase Fe(CO)5 via a singlet pathway upon excitation at 266 nm. Journal of Chemical Physics, 2017, 146, 211103.	3.0	14
17	Ultrafast Independent Nâˆ'H and Nâˆ'C Bond Deformation Investigated with Resonant Inelastic Xâ€Ray Scattering. Angewandte Chemie - International Edition, 2017, 56, 6088-6092.	13.8	36
18	Untersuchung unabhÃngiger Nâ€Hâ€•und Nâ€Câ€Bindungsverformungen auf ultrakurzen Zeitskalen mit resonanter inelastischer RÃ¶ntgenstreuung. Angewandte Chemie, 2017, 129, 6184-6188.	2.0	3

#	Article	IF	Citations
19	InnenrÃ¼cktitelbild: Untersuchung unabhÃngiger Nâ€Hâ€•und Nâ€Câ€Bindungsverformungen auf ultrakurzen Zeitskalen mit resonanter inelastischer RÃ¶ntgenstreuung (Angew. Chem. 22/2017). Angewandte Chemie, 2017, 129, 6441-6441.	2.0	0
20	X-ray spectroscopy on the active ion in laser crystals. Physical Chemistry Chemical Physics, 2017, 19, 21800-21806.	2.8	3
21	Valence orbitals and local bond dynamics around N atoms of histidine under X-ray irradiation. Physical Chemistry Chemical Physics, 2017, 19, 32091-32098.	2.8	14
22	Raman Spectroscopy with X-Rays. , 2017, , .		0
23	Mn and Co Charge and Spin Evolutions in LaMn_{1â€“x}Co_xO₃ Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 8167-8174.	3.1	45
24	Ground state potential energy surfaces around selected atoms from resonant inelastic x-ray scattering. Scientific Reports, 2016, 6, 20054.	3.3	30
25	Viewing the Valence Electronic Structure of Ferric and Ferrous Hexacyanide in Solution from the Fe and Cyanide Perspectives. Journal of Physical Chemistry B, 2016, 120, 7182-7194.	2.6	76
26	Iron 1s X-ray photoemission of Fe2O3. Journal of Electron Spectroscopy and Related Phenomena, 2015, 203, 8-13.	1.7	22
27	The angular- and crystal-momentum transfer through electronâ€“phonon coupling in silicon and silicon-carbide: similarities and differences. New Journal of Physics, 2014, 16, 093056.	2.9	5
28	Coupling of single, double, and triple-decker metal-phthalocyanine complexes to ferromagnetic and antiferromagnetic substrates. Surface Science, 2014, 630, 361-374.	1.9	49
29	State-dependent fluorescence yields through the core-valence Coulomb exchange parameter. Physical Review A, 2014, 89, .	2.5	9
30	Dynamics of the OH group and the electronic structure of liquid alcohols. Structural Dynamics, 2014, 1, 054901.	2.3	27
31	In situ X-ray Raman spectroscopy study of the hydrogen sorption properties of lithium borohydride nanocomposites. Physical Chemistry Chemical Physics, 2014, 16, 22651-22658.	2.8	28
32	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.	1.7	11
33	From Ligand Fields to Molecular Orbitals: Probing the Local Valence Electronic Structure of Ni²⁺ in Aqueous Solution with Resonant Inelastic X-ray Scattering. Journal of Physical Chemistry B, 2013, 117, 16512-16521.	2.6	36
34	Styrene oligomerization as a molecular probe reaction for BrÃ¸nsted acidity at the nanoscale. Physical Chemistry Chemical Physics, 2012, 14, 6967.	2.8	20
35	In situ X-ray Raman spectroscopy of LiBH4. Physical Chemistry Chemical Physics, 2012, 14, 5581.	2.8	27
36	Coupling Single Molecule Magnets to Ferromagnetic Substrates. Physical Review Letters, 2011, 107, 177205.	7.8	153

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37	Oxygen Binding to Cobalt and Iron Phthalocyanines As Determined from in Situ X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 25422-25428.	3.1	45
38	First principles multiplet calculations of the calcium L_{2, 3}x-ray absorption spectra of CaO and CaF₂. Journal of Physics Condensed Matter, 2011, 23, 145501.	1.8	27
39	Mixed-valence behavior and strong correlation effects of metal phthalocyanines adsorbed on metals. Physical Review B, 2011, 83, .	3.2	128
40	Accuracy of the spin sum rule in XMCD for the transition-metal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>L</mml:mi></mml:math>edges from manganese to copper. Physical Review B, 2009, 80, .	3.2	165
41	2p x-ray absorption of iron-phthalocyanine. Journal of Physics: Conference Series, 2009, 190, 012143.	0.4	32
42	The accuracy of the spin sum rule in XMCD. Journal of Physics: Conference Series, 2009, 190, 012015.	0.4	3
43	Monte Carlo simulations of in-plane stacking disorder in hard-sphere crystals. Physical Review E, 2008, 77, 010401.	2.1	3
44	The variable polarization undulator beamline UE52 SGM at BESSY II. Journal of Large-scale Research Facilities JLSRF, 0, 2, A70.	0.0	18