

Piter S Miedema

List of Publications by Year in descending order

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44
papers

1,197
citations

394421

19
h-index

377865

34
g-index

45
all docs

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docs citations

45
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	Accuracy of the spin sum rule in XMCD for the transition-metal $L_{2,3}$ edges from manganese to copper. <i>Physical Review B</i> , 2009, 80, .	3.2	165
2	Coupling Single Molecule Magnets to Ferromagnetic Substrates. <i>Physical Review Letters</i> , 2011, 107, 177205.	7.8	153
3	Mixed-valence behavior and strong correlation effects of metal phthalocyanines adsorbed on metals. <i>Physical Review B</i> , 2011, 83, .	3.2	128
4	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.	2.6	76
5	Coupling of single, double, and triple-decker metal-phthalocyanine complexes to ferromagnetic and antiferromagnetic substrates. <i>Surface Science</i> , 2014, 630, 361-374.	1.9	49
6	Oxygen Binding to Cobalt and Iron Phthalocyanines As Determined from in Situ X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25422-25428.	3.1	45
7	Mn and Co Charge and Spin Evolutions in $\text{LaMnO}_3/\text{CoO}_3$ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8167-8174.	3.1	45
8	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.	2.6	36
9	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.	13.8	36
10	2p x-ray absorption of iron-phthalocyanine. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012143.	0.4	32
11	Ground state potential energy surfaces around selected atoms from resonant inelastic x-ray scattering. <i>Scientific Reports</i> , 2016, 6, 20054.	3.3	30
12	In situ X-ray Raman spectroscopy study of the hydrogen sorption properties of lithium borohydride nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22651-22658.	2.8	28
13	First principles multiplet calculations of the calcium $L_{2,3}$ x-ray absorption spectra of CaO and CaF_2 . <i>Journal of Physics Condensed Matter</i> , 2011, 23, 145501.	1.8	27
14	In situ X-ray Raman spectroscopy of LiBH_4 . <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5581.	2.8	27
15	Dynamics of the OH group and the electronic structure of liquid alcohols. <i>Structural Dynamics</i> , 2014, 1, 054901.	2.3	27
16	Soft X-ray Spectroscopy as a Probe for Gas-Phase Protein Structure: Electron Impact Ionization from Within. <i>Chemistry - A European Journal</i> , 2018, 24, 7631-7636.	3.3	23
17	Iron 1s X-ray photoemission of Fe_2O_3 . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 203, 8-13.	1.7	22
18	The nature of frontier orbitals under systematic ligand exchange in (pseudo-)octahedral $\text{Fe}(\text{L})_6$ complexes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27745-27751.	2.8	21

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19	Styrene oligomerization as a molecular probe reaction for Brønsted acidity at the nanoscale. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6967.	2.8	20
20	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.	3.0	20
21	The variable polarization undulator beamline UE52 SGM at BESSY II. <i>Journal of Large-scale Research Facilities JLSRF</i> , 0, 2, A70.	0.0	18
22	Non-linear soft x-ray methods on solids with MUSIX—the multi-dimensional spectroscopy and inelastic x-ray scattering endstation. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 014003.	1.8	15
23	Direct and real-time observation of hole transport dynamics in anatase TiO ₂ using X-ray free-electron laser. <i>Nature Communications</i> , 2022, 13, 2531.	12.8	15
24	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.	3.0	14
25	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.	2.8	14
26	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.	1.7	11
27	Normalized single-shot X-ray absorption spectroscopy at a free-electron laser. <i>Optics Letters</i> , 2019, 44, 2157.	3.3	11
28	Probing electron and hole colocalization by resonant four-wave mixing spectroscopy in the extreme ultraviolet. <i>Science Advances</i> , 2022, 8, .	10.3	11
29	X-ray spectroscopy with variable line spacing based on reflection zone plate optics. <i>Optics Letters</i> , 2018, 43, 4390.	3.3	10
30	State-dependent fluorescence yields through the core-valence Coulomb exchange parameter. <i>Physical Review A</i> , 2014, 89, .	2.5	9
31	The TRIXS end-station for femtosecond time-resolved resonant inelastic x-ray scattering experiments at the soft x-ray free-electron laser FLASH. <i>Structural Dynamics</i> , 2020, 7, 054301.	2.3	9
32	Total 3s Emission Yield as Bulk-Sensitive Probe for a True Soft X-ray Absorption Spectrum?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2579-2583.	4.6	8
33	Parallel Broadband Femtosecond Reflection Spectroscopy at a Soft X-Ray Free-Electron Laser. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6947.	2.5	7
34	Shot noise limited soft x-ray absorption spectroscopy in solution at a SASE-FEL using a transmission grating beam splitter. <i>Structural Dynamics</i> , 2021, 8, 014303.	2.3	7
35	Soft x-ray imaging spectroscopy with micrometer resolution. <i>Optica</i> , 2021, 8, 156.	9.3	6
36	The angular- and crystal-momentum transfer through electron-phonon coupling in silicon and silicon-carbide: similarities and differences. <i>New Journal of Physics</i> , 2014, 16, 093056.	2.9	5

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37	Monte Carlo simulations of in-plane stacking disorder in hard-sphere crystals. <i>Physical Review E</i> , 2008, 77, 010401.	2.1	3
38	The accuracy of the spin sum rule in XMCD. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012015.	0.4	3
39	Untersuchung unabhängiger Nâ€Hâ€- und Nâ€Câ€-Bindungsverformungen auf ultrakurzen Zeitskalen mit resonanter inelastischer Râ€ntgenstreuung. <i>Angewandte Chemie</i> , 2017, 129, 6184-6188.	2.0	3
40	X-ray spectroscopy on the active ion in laser crystals. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21800-21806.	2.8	3
41	The electronic structure and deexcitation pathways of an isolated metalloporphyrin ion resolved by metal L-edge spectroscopy. <i>Chemical Science</i> , 2021, 12, 3966-3976.	7.4	3
42	Strain analysis from M-edge resonant inelastic X-ray scattering of nickel oxide films. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21596-21602.	2.8	2
43	Innenrâ€4cktitelbild: Untersuchung unabhängiger Nâ€Hâ€- und Nâ€Câ€-Bindungsverformungen auf ultrakurzen Zeitskalen mit resonanter inelastischer Râ€ntgenstreuung (<i>Angew. Chem.</i> 22/2017). <i>Angewandte Chemie</i> , 2017, 129, 6441-6441.	2.0	0
44	Raman Spectroscopy with X-Rays. , 2017, , .		0