

M W Haverkort

List of Publications by Year in descending order

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125
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125
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Control of Electronic Exchange Interaction within a Molecule. Physical Review Letters, 2022, 128, 153001.	2.9	6
2	Selective Orbital Imaging of Excited States with X-Ray Spectroscopy: The Example of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \pm \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -MnS. Physical Review X, 2021, 11, .	2.8	1
3	Tensor description of X-ray magnetic dichroism at the Fe $\langle i \rangle L \langle /i \rangle \langle \text{sub} \rangle 2,3 \langle / \text{sub} \rangle$ -edges of Fe $\langle \text{sub} \rangle 3 \langle / \text{sub} \rangle O \langle \text{sub} \rangle 4 \langle / \text{sub} \rangle$. Journal of Synchrotron Radiation, 2021, 28, 247-258.	1.0	3
4	2p x-ray absorption spectroscopy of 3d transition metal systems. Journal of Electron Spectroscopy and Related Phenomena, 2021, 249, 147061.	0.8	44
5	Direct $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle Q \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -Value Determination of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\alpha} \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ Decay of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle$ functions in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle Sr \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$	2.9	16
6	Tree tensor-network real-time multiorbital impurity solver: Spin-orbit coupling and correlation functions in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle Sr \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Physical Review B, 2021, 104, .	1.1	9
7	Detection of metastable electronic states by Penning trap mass spectrometry. Nature, 2020, 581, 42-46.	13.7	31
8	Possible absence of trimeron correlations above the Verwey temperature in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle Fe \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{mathvariant="normal"} \rangle O \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2020, 101, .	1.1	6
9	Many-Body Physics of Single and Double Spin-Flip Excitations in NiO. Physical Review Letters, 2020, 124, 067202.	2.9	10
10	From antiferromagnetic and hidden order to Pauli paramagnetism in U $\langle i \rangle M \langle /i \rangle \langle \text{sub} \rangle 2 \langle / \text{sub} \rangle$ Si $\langle \text{sub} \rangle 2 \langle / \text{sub} \rangle$ compounds with 5 $\langle i \rangle f \langle /i \rangle$ electron duality. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30220-30227.	3.3	25
11	Ab initio calculation of the electron capture spectrum of $\langle \text{sup} \rangle 163 \langle / \text{sup} \rangle$ Ho: Augerâ€“Meitner decay into continuum states. New Journal of Physics, 2020, 22, 093018.	1.2	13
12	Possible multiorbital ground state in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle CeCu \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Physical Review B, 2020, 102, .	1.1	15
13	Nature of the magnetism of iridium in the double perovskite $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle Sr \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Physical Review B, 2019, 100, .	1.1	72
14	Noncollinear Ordering of the Orbital Magnetic Moments in Magnetite. Physical Review Letters, 2019, 123, 207201.	2.9	10
15	Natural-orbital impurity solver and projection approach for Green's functions. Physical Review B, 2019, 100, .	1.1	14
16	Orientation of the ground-state orbital in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle CeCoIn \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle CeRhIn \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Physical Review B, 2019, 99, .	1.1	9
17	Resonant inelastic x-ray scattering study of bond order and spin excitations in nickelate thin-film structures. Physical Review B, 2019, 99, .	1.1	11
18	Direct imaging of orbitals in quantum materials. Nature Physics, 2019, 15, 559-562.	6.5	15

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19	High-resolution and low-background ^{163}Ho spectrum: interpretation of the resonance tails. European Physical Journal C, 2019, 79, 1.	1.4	15
20	Origin of Ising magnetism in $\text{Ca}_3\text{Co}_2\text{O}_6$ unveiled by orbital imaging. Nature Communications, 2019, 10, 5447.	5.8	15
21	Resonant inelastic x-ray scattering investigation of the crystal-field splitting of Sm^{2+} . Physical Review B, 2019, 100, .	1.1	10
22	Hidden kagome-lattice picture and origin of high conductivity in delafossite PtCoO_2 . Physical Review Materials, 2019, 3, .	1.1	12
23	Theory-restricted resonant x-ray reflectometry of quantum materials. Physical Review B, 2018, 97, .	1.1	6
24	TiO_2 -Axis Dimer and Its Electronic Breakup: The Insulator-to-Metal Transition in TiO_2 . Physical Review B, 2018, 98, 014402.	2.8	19
25	Crystal Field Ground State of the Strongly Correlated Topological Insulator SmB_6 . Physical Review B, 2018, 98, 014402.	2.9	37
26	Crystal-field states of UO_2 by directional dependence of nonresonant inelastic x-ray scattering. Physical Review B, 2018, 98, .	1.1	15
27	Probing the energy gap of high-temperature cuprate superconductors by resonant inelastic x-ray scattering. Npj Quantum Materials, 2018, 3, .	1.8	13
28	Determining the local low-energy excitations in the Kondo semimetal CeRu_4 by resonant inelastic x-ray scattering. Physical Review B, 2018, 98, .	1.1	14
29	Probing the $J_{\text{eff}}=0$ ground state and the Van Vleck paramagnetism of the Ir^{5+} ions in layered $\text{Sr}_2\text{Co}_0.5\text{Ir}_0.5\text{O}_4$. Physical Review B, 2018, 97, .	1.1	16
30	<i>Quanty4RIXS</i> : a program for crystal field multiplet calculations of RIXS and RIXS+MCD spectra using <i>Quanty</i> . Journal of Synchrotron Radiation, 2018, 25, 899-905.	1.0	10
31	Site-Selective Probe of Magnetic Excitations in Rare-Earth Nickelates Using Resonant Inelastic X-ray Scattering. Physical Review X, 2018, 8, .	2.8	26
32	<i>Ab initio</i> calculation of the calorimetric electron-capture spectrum of Ho^{2+} : Intra-atomic decay into bound states. Physical Review C, 2018, 97, .	1.1	16
33	Maximal Rashba-like spin splitting via kinetic-energy-coupled inversion-symmetry breaking. Nature, 2017, 549, 492-496.	13.7	105
34	Bulk and surface electronic properties of SmB_6 : A hard x-ray photoelectron spectroscopy study. Physical Review B, 2017, 96, .	1.1	28
35	Crossover from Collective to Incoherent Spin Excitations in Superconducting Cuprates Probed by Detuned Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2017, 119, 097001.	2.9	26
36	The quartet ground state in CeB_6 : An inelastic x-ray scattering study. Europhysics Letters, 2017, 117, 17003.	0.7	15

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37	Challenges from experiment: electronic structure of NiO. European Physical Journal: Special Topics, 2017, 226, 2445-2456.	1.2	20
38	Origins of bond and spin order in rare-earth nickelate bulk and heterostructures. Physical Review B, 2017, 95, .	1.1	9
39	Long-range interactions in the effective low-energy Hamiltonian of SrIrO_2 : A core-to-core resonant inelastic x-ray scattering study. Physical Review B, 2017, 95, .	1.1	18
40	Exact diagonalization as an impurity solver in dynamical mean field theory. European Physical Journal: Special Topics, 2017, 226, 2549-2564.	1.2	11
41	Nonperturbative Series Expansion of Green's Functions: The Anatomy of Resonant Inelastic X-Ray Scattering in the Doped Hubbard Model. Physical Review Letters, 2017, 119, 256401.	2.9	7
42	Theory of L -edge spectroscopy of strongly correlated systems. Physical Review B, 2017, 96, .	1.1	21
43	Lattice and Magnetic Effects on d -Excitation in NiO Using a 25 meV Resolution X-ray Spectrometer. Journal of the Physical Society of Japan, 2017, 86, 093706.	0.7	4
44	Tracking the signature of low symmetry environments in the XAS K -pre-edge. Journal of Physics: Conference Series, 2016, 712, 012005.	0.3	5
45	Bond disproportionation and dynamical charge fluctuations in the perovskite rare-earth nickelates. Physical Review B, 2016, 94, .	1.1	103
46	Cross-type orbital ordering in the layered hybrid organic-inorganic compound SrIrO_2		

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55	SmO thin films: A flexible route to correlated flat bands with nontrivial topology. Physical Review B, 2015, 91, .	1.1	12
56	Absence of orbital rotation in superconducting CeCu_2Si_2 . Physical Review B, 2015, 91, .		
57	Quantitative study of valence and configuration interaction parameters of the Kondo semiconductors $\text{CeM}_2\text{Al}_{10}$ ($M = \text{Ru, Os and Fe}$) by means of bulk-sensitive hard X-ray photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2015, 199, 56-63.	0.8	15
58	Electronic and spin states of SrRuO_3 thin films: An x-ray magnetic circular dichroism study. Physical Review B, 2015, 91, .		
59	Spin-Orbital Entanglement and the Breakdown of Singlets and Triplets in $\text{Sr}_2\text{Cu}_2\text{O}_7$ by Spin- and Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2014, 112, 127002.	2.9	123
60	Bands, resonances, edge singularities and excitons in core level spectroscopy investigated within the dynamical mean-field theory. Europhysics Letters, 2014, 108, 57004.	0.7	78
61	Photoelectron Spin-Polarization Control in the Topological Insulator Bi_2Te_3 . Physical Review Letters, 2014, 112, 076802.	2.9	87
62	Element Specific Monolayer Depth Profiling. Advanced Materials, 2014, 26, 6554-6559.	11.1	58
63	Efficient real-frequency solver for dynamical mean-field theory. Physical Review B, 2014, 90, .	1.1	135
64	Microscopic origin of spin-orbital separation in SrCu_2O_7 . Physical Review B, 2013, 88, .	1.1	43
65	Orbital Control of Noncollinear Magnetic Order in Nickel Oxide Heterostructures. Physical Review Letters, 2013, 111, 106804.	2.9	110
66	Orbital superexchange and crystal field simultaneously at play in YVO_4 : Resonant inelastic x-ray scattering at the V L edge and the O K edge. Physical Review Letters, 2013, 110, 16401.	1.1	24
67	Layer-By-Layer Entangled Spin-Orbital Texture of the Topological Surface State in $\text{Sé}_2\text{Te}_3$. Physical Review Letters, 2013, 110, 16401.	2.9	107
68	Publisher's Note: Crystal field ground state of the orthorhombic Kondo semiconductors $\text{CeOs}_2\text{Al}_{10}$ and $\text{CeFe}_2\text{Al}_{10}$. Physical Review B, 2013, 87, .	1.1	0
69	Crystal field ground state of the orthorhombic Kondo semiconductors $\text{CeOs}_2\text{Al}_{10}$ and $\text{CeFe}_2\text{Al}_{10}$. Physical Review B, 2013, 87, .	1.1	34
70	Strain and composition dependence of orbital polarization in nickel oxide superlattices. Physical Review B, 2013, 88, .	1.1	107
71	Unoccupied electronic structure of TiOCl studied using x-ray absorption near-edge spectroscopy. Journal of Physics: Condensed Matter, 2012, 24, 255602.	0.7	5
72	Mott versus Slater-type metal-insulator transition in Mn-substituted SrRu_2O_7 . Physical Review B, 2012, 85, 114407.	1.1	16

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73	Crystal-field ground state of the orthorhombic Kondo insulator CeRu_2AlSi . Atomic and itinerant effects at the transition-metal X-ray absorption. Physical Review B, 2012, 85, .	1.1	61
74	Atomic and itinerant effects at the transition-metal X-ray absorption. Physical Review B, 2012, 85, .	1.1	13
75	Determining the In-Plane Orientation of the Ground-State Orbital of CeCu_2Si_2 . Physical Review Letters, 2012, 109, 046401.	2.9	38
76	Multiplet ligand-field theory using Wannier orbitals. Physical Review B, 2012, 85, .	1.1	299
77	Spin-orbital separation in the quasi-one-dimensional Mott insulator Sr_2CuO_3 . Nature, 2012, 485, 82-85.	13.7	267
78	Evidence for a temperature-induced spin-state transition of Co^{3+} in $\text{La}_2\text{Sr}_x\text{CoO}_4$. Physical Review B, 2011, 83, .	1.1	28
79	Evolution of the electronic structure of a Mott system across its phase diagram: X-ray absorption spectroscopy study of $(\text{V}_{1-x}\text{Ti}_x)\text{O}_2$. Physical Review B, 2011, 83, .	1.1	22
80	Intense paramagnon excitations in a large family of high-temperature superconductors. Nature Physics, 2011, 7, 725-730.	6.5	349
81	dd excitations in three-dimensional q-space: A nonresonant inelastic X-ray scattering study on NiO . Europhysics Letters, 2011, 96, 37007.	0.7	19
82	Orbital reflectometry of oxide heterostructures. Nature Materials, 2011, 10, 189-193.	13.3	215
83	Publisher's Note: Two-Spinon and Orbital Excitations of the Spin-Peierls System TiOCl [Phys. Rev. Lett. 107, 107402 (2011)]. Physical Review Letters, 2011, 107, .	2.9	1
84	Two-Spinon and Orbital Excitations of the Spin-Peierls System TiOCl . Physical Review Letters, 2011, 107, 107402.	2.9	29
85	Coexistence of bound and virtual-bound states in shallow-core to valence x-ray spectroscopies. Physical Review B, 2011, 84, .	1.1	33
86	Theory of Resonant Inelastic X-Ray Scattering by Collective Magnetic Excitations. Physical Review Letters, 2010, 105, 167404.	2.9	137
87	Weak magnetism in insulating and superconducting cuprates. Physical Review B, 2010, 82, .	1.1	22
88	Symmetry analysis of magneto-optical effects: The case of x-ray diffraction and x-ray absorption at the transition metal La_2CuO_4 . Physical Review B, 2010, 82, .	1.1	54
89	Local electronic structure of Fe^{2+} in MgO thin films: Temperature-dependent soft x-ray absorption spectroscopy study. Physical Review B, 2010, 82, .	1.1	29
90	Probing electronic correlations in actinide materials using multipolar transitions. Physical Review B, 2010, 81, .	1.1	41

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91	Analytical continuation of imaginary axis data using maximum entropy. Physical Review B, 2010, 81, .	1.1	36
92	Fourier transformation and response functions. Physical Review B, 2010, 82, .	1.1	7
93	Inequivalent Routes across the Mott Transition in V_2O_3 Explored by X-Ray Absorption. Physical Review Letters, 2010, 104, 047401.	2.9	66
94	Analytical continuation of imaginary axis data for optical conductivity. Physical Review B, 2010, 82, .	1.1	42
95	Image charge screening: A new approach to enhance magnetic ordering temperatures in ultrathin correlated oxide films. Physical Review B, 2009, 79, .	1.1	30
96	Orientation-dependent x-ray Raman scattering from cubic crystals: Natural linear dichroism in MnO_2 and CeO_2 . Journal of Physics: Conference Series, 2009, 190, 012047.	0.3	26
97	Electronic correlations in V_2O_3 studied with K-edge X-ray absorption spectroscopy. Journal of Physics: Conference Series, 2009, 190, 012092.	0.3	2
98	Anisotropic susceptibility of La_2SrCoO_4 related to the spin states of cobalt. New Journal of Physics, 2008, 10, 023018. Strong Spin-Orbit Coupling Effects on the Fermi Surface of La_2SrCoO_4	1.2	37
99	Local electronic structure and magnetic properties of Ru_2O_7 and Rh_2O_7	2.9	201
100	Local electronic structure and magnetic properties of $LaMnO_3$	1.1	167
101	High multipole transitions in NIXS: Valence and hybridization in 4f systems. Europhysics Letters, 2008, 81, 26004.	0.7	74
102	Magnetic coupling in highly ordered $NiO/Fe_3O_4(110)$: Ultrasharp magnetic interfaces vs. long-range magnetoelastic interactions. Europhysics Letters, 2008, 81, 17005.	0.7	17
103	Impact of interface orientation on magnetic coupling in highly ordered systems: A case study of the low-indexed Fe_3O_4/NiO interfaces. Physical Review B, 2008, 78, .	1.1	54
104	Effective operator for $d-d$ transition in nonresonant inelastic x-ray scattering. Physical Review B, 2008, 77, .	1.1	18
105	Determining the Crystal-Field Ground State in Rare Earth Heavy Fermion Materials Using Soft-X-Ray Absorption Spectroscopy. Physical Review Letters, 2008, 100, 066405.	2.9	55
106	Direct Observation of t_2g Ordering in Magnetite. Physical Review Letters, 2008, 100, 026406.	1.1	77
107	Crystal-Field Level Inversion in Lightly Mn-Doped $YTiO_3$ and $SmTiO_3$	1.1	34
108	Crystal-Field Level Inversion in Lightly Mn-Doped Ru_2O_7	1.1	15

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109	Mott-Hubbard versus charge-transfer behavior in LaSrMnO ₄ studied via optical conductivity. Physical Review B, 2008, 77, .	1.1	24
110	Nonresonant Inelastic X-Ray Scattering Involving Excitonic Excitations: The Examples of NiO and CoO. Physical Review Letters, 2007, 99, 257401.	2.9	84
111	Spin State Transition in LaCoO ₃ Studied Using Soft X-ray Absorption Spectroscopy and Magnetic Circular Dichroism. Physical Review Letters, 2006, 97, 176405.	2.9	471
112	Spin-State Transition in LaCoO ₃ : Direct Neutron Spectroscopic Evidence of Excited Magnetic States. Physical Review Letters, 2006, 97, 247208.	2.9	222
113	Transfer of Spectral Weight and Symmetry across the Metal-Insulator Transition in VO ₂ . Physical Review Letters, 2006, 97, 116402.	2.9	271
114	Valence, spin, and orbital state of Co ions in one-dimensional Ca ₃ Co ₂ O ₆ : An x-ray absorption and magnetic circular dichroism study. Physical Review B, 2006, 74, .	1.1	103
115	Controlling Orbital Moment and Spin Orientation in CoO Layers by Strain. Physical Review Letters, 2005, 95, 187205.	2.9	165
116	Determination of the Orbital Moment and Crystal-Field Splitting in LaTiO ₃ . Physical Review Letters, 2005, 94, 056401.	2.9	64
117	Zero-Field Incommensurate Spin-Peierls Phase with Interchain Frustration in TiOCl. Physical Review Letters, 2005, 95, 097203.	2.9	66
118	Optical study of orbital excitations in transition-metal oxides. New Journal of Physics, 2005, 7, 144-144.	1.2	54
119	Nature of Magnetism in Ca ₃ Co ₂ O ₆ . Physical Review Letters, 2005, 95, 186401.	2.9	137
120	Orbital-Assisted Metal-Insulator Transition in VO ₂ . Physical Review Letters, 2005, 95, 196404.	2.9	335
121	Different Look at the Spin State of Co ³⁺ Ions in a CoO ₅ Pyramidal Coordination. Physical Review Letters, 2004, 92, 207402.	2.9	170
122	Magnetic versus crystal-field linear dichroism in NiO thin films. Physical Review B, 2004, 69, .	1.1	89
123	Growth and properties of strained VO _x thin films with controlled stoichiometry. Physical Review B, 2004, 69, .	1.1	39