

Olof Karis

List of Publications by Year in descending order

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papers

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101496

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98753

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docs citations

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times ranked

6349
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-Room-Temperature Colossal Magnetodielectricity and Multiglass Properties in Partially Disordered $\text{La}_{2-x}\text{NiMnO}_{6-x}$. Physical Review Letters, 2012, 108, 127201.	2.9	375
2	Experimental evidence for sub-3-fs charge transfer from an aromatic adsorbate to a semiconductor. Nature, 2002, 418, 620-623.	13.7	346
3	Charge-transfer dynamics studied using resonant core spectroscopies. Reviews of Modern Physics, 2002, 74, 703-740.	16.4	334
4	Physisorbed, chemisorbed and dissociated O ₂ on Pt(111) studied by different core level spectroscopy methods. Surface Science, 1995, 342, 119-133.	0.8	277
5	The high kinetic energy photoelectron spectroscopy facility at BESSY progress and first results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 601, 48-53.	0.7	181
6	An effective approach of vapour assisted morphological tailoring for reducing metal defect sites in lead-free, (CH ₃ NH ₃) ₃ Bi ₂ I ₉ bismuth-based perovskite solar cells for improved performance and long-term stability. Nano Energy, 2018, 49, 614-624.	8.2	169
7	The electronic structure and surface chemistry of glycine adsorbed on Cu(110). Journal of Chemical Physics, 2000, 112, 5420-5427.	1.2	167
8	The bonding of CO to metal surfaces. Journal of Chemical Physics, 2000, 112, 1946-1958.	1.2	165
9	Inorganic CsPb ₃ Perovskite Coating on PbS Quantum Dot for Highly Efficient and Stable Infrared Light Converting Solar Cells. Advanced Energy Materials, 2018, 8, 1702049.	10.2	143
10	Electronic Structure of CH ₃ NH ₃ PbX ₃ Perovskites: Dependence on the Halide Moiety. Journal of Physical Chemistry C, 2015, 119, 1818-1825.	1.5	127
11	Influence of Ligand States on the Relationship between Orbital Moment and Magnetocrystalline Anisotropy. Physical Review Letters, 2007, 99, 177207.	2.9	124
12	Resonant Photoemission at the 2p Edges of Ni: Resonant Raman and Interference Effects. Physical Review Letters, 1997, 78, 967-970.	2.9	114
13	An Atom-Specific Look at the Surface Chemical Bond. Physical Review Letters, 1997, 78, 2847-2850.	2.9	108
14	Two-dimensional van der Waals spin interfaces and magnetic interfaces. Applied Physics Reviews, 2020, 7, .	5.5	100
15	One-Step and Two-Step Description of Deexcitation Processes in Weakly Interacting Systems. Physical Review Letters, 1996, 76, 1380-1383.	2.9	96
16	Ground-state interpretation of x-ray emission spectroscopy on adsorbates: CO adsorbed on Cu(100). Physical Review B, 2000, 61, 16229-16240.	1.1	72
17	Determination of the spin Hall effect and the spin diffusion length of Pt from self-consistent fitting of damping enhancement and inverse spin-orbit torque measurements. Physical Review B, 2018, 98, .	1.1	69
18	N _{1s} x-ray absorption study of the bonding interaction of bi-isonicotinic acid adsorbed on rutile TiO ₂ (110). Journal of Chemical Physics, 2000, 112, 3945-3948.	1.2	68

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19	Tuning of dielectric properties and magnetism of SrTiO ₃ by site-specific doping of Mn. Physical Review B, 2011, 84, .	1.1	67
20	Electronic structure of benzene on Ni(100) and Cu(110): An x-ray-spectroscopy study. Physical Review B, 1998, 58, 7351-7360.	1.1	66
21	Beyond the Chemical Shift: Vibrationally Resolved Core-Level Photoelectron Spectra of Adsorbed CO. Physical Review Letters, 1998, 81, 1730-1733.	2.9	66
22	Local probing of the surface chemical bond using X-ray emission spectroscopy. Applied Physics A: Materials Science and Processing, 1997, 65, 147-154.	1.1	61
23	Nature of the surface chemical bond in N ₂ on Ni(100) studied by x-ray-emission spectroscopy and ab initio calculations. Physical Review B, 1998, 57, 9274-9284.	1.1	61
24	Effect of anti-site disorder on magnetism in La _{2-x} Sr _x CoO ₄ . Physical Review B, 2018, 97, .	2.1	58
25	Highly Stabilized Quantum Dot Ink for Efficient Infrared Light Absorbing Solar Cells. Advanced Energy Materials, 2019, 9, 1902809.	10.2	50
26	Coherent and incoherent processes in resonant photoemission. Applied Physics A: Materials Science and Processing, 1997, 65, 159-167.	1.1	49
27	Excited-state charge transfer dynamics in systems of aromatic adsorbates on TiO ₂ studied with resonant core techniques. Journal of Chemical Physics, 2003, 119, 12462-12472.	1.2	48
28	Electronic structure and chemical and magnetic interactions in ZnO doped with Co and Al: Experiments and ab initio density-functional calculations. Physical Review B, 2008, 78, .	1.1	47
29	The bonding of simple carboxylic acids on Cu(110). Journal of Chemical Physics, 2000, 112, 8146-8155.	1.2	46
30	Probing chemical bonding in adsorbates using X-ray emission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2000, 110-111, 15-39.	0.8	43
31	Role of boron diffusion in CoFeB/MgO magnetic tunnel junctions. Physical Review B, 2015, 91, .	1.1	40
32	Resonant soft-x-ray emission spectroscopy of surface adsorbates: Theory, computations, and measurements of ethylene and benzene on Cu(110). Physical Review B, 1999, 59, 5189-5200.	1.1	39
33	Ammonia adsorbed on Cu(110): An angle resolved x-ray spectroscopic and ab initio study. Journal of Chemical Physics, 1999, 110, 4880-4890.	1.2	38
34	Sample Preserving Deep Interface Characterization Technique. Physical Review Letters, 2006, 97, 266106.	2.9	38
35	Two-Dimensional Flexible High Diffusive Spin Circuits. Nano Letters, 2019, 19, 666-673.	4.5	38
36	Interplay of charge density wave and multiband superconductivity in layered quasi-two-dimensional materials: The case of H ₂ NbS ₂ and H ₂ NbSe ₂ .	0.9	36

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37	Ultimate Spin Currents in Commercial Chemical Vapor Deposited Graphene. ACS Nano, 2020, 14, 12771-12780.	7.3	33
38	Electronic Structure of Two-Dimensional Lead(II) Iodide Perovskites: An Experimental and Theoretical Study. Chemistry of Materials, 2018, 30, 4959-4967.	3.2	29
39	Structure and Electronic Effects from Mn and Nb Co-doping for Low Band Gap BaTiO ₃ Ferroelectrics. Journal of Physical Chemistry C, 2021, 125, 14910-14923.	1.5	28
40	Magnetic and electronic characterization of highly Co-doped ZnO: An annealing study at the solubility limit. Physical Review B, 2010, 82, .	1.1	27
41	Inhomogeneity in Co doped ZnO diluted magnetic semiconductor. Journal of Applied Physics, 2008, 103, .	1.1	26
42	Magnetic damping in sputter-deposited $C_{1-x}Mn_xO$ Heusler compounds with $MnGe$	1.1	26
43	Cap layer influence on the spin reorientation transition in Au/Co/Au. Physical Review B, 2002, 66, .	1.1	24
44	Coexistence of Superconductivity and Charge Density Waves in Tantalum Disulfide: Experiment and Theory. Physical Review Letters, 2020, 125, 186401.	2.9	24
45	Signature of an antiferromagnetic metallic ground state in heavily electron-doped Sr _{1-x} Fe _x MoO ₆	1.1	22
46	Depth-Dependent Magnetization Profiles of Hybrid Exchange Springs. Physical Review Applied, 2014, 2, .	1.5	22
47	Exponentially decaying magnetic coupling in sputtered thin film FeNi/Cu/FeCo trilayers. Applied Physics Letters, 2015, 106, .	1.5	22
48	High photon energy spectroscopy of NiO: Experiment and theory. Physical Review B, 2016, 93, .	1.1	22
49	Initial and final state effects in the x-ray absorption process of La _{1-x} Sr _x MnO ₃ . Physical Review B, 2003, 68, .	1.1	21
50	Investigation of interface properties of Ni/Cu multilayers by high kinetic energy photoelectron spectroscopy. Physical Review B, 2009, 80, .	1.1	21
51	Interface characterization of $Cu_{1-x}Mn_xO$ Heusler multilayers. Physical Review B, 2013, 88, .	1.1	21
52	Revisiting Goodenough-Kanamori rules in a new series of double perovskites LaSr _{1-x} CaxNiReO ₆ . Scientific Reports, 2019, 9, 18296.	1.6	21
53	High-kinetic-energy photoemission spectroscopy of Ni at $Mn_{1-x}Cu_xO$ Heusler multilayers	1.1	20
54	Ferrimagnetism, antiferromagnetism, and magnetic frustration in La _{1-x} Sr _x CuRuO ₆ 6-eV satellite at 4 eV. Physical Review B, 2008, 78, .	1.1	20

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55	Recurrent Superspin Glass Phase in a $\text{La}_{0.82}\text{Ca}_{0.18}\text{MnO}_3$ Ferromagnetic Insulator. Physical Review X, 2014, 4, .	2.8	20
56	Structural properties of amorphous metal carbides: Theory and experiment. Acta Materialia, 2012, 60, 4720-4728.	3.8	19
57	The electronic structure and band interface of cesium bismuth iodide on a titania heterostructure using hard X-ray spectroscopy. Journal of Materials Chemistry A, 2018, 6, 9498-9505.	5.2	19
58	Valence electronic structure of ruthenium based complexes probed by photoelectron spectroscopy at high kinetic energy (HIKE) and modeled by DFT calculations. Chemical Physics Letters, 2008, 464, 192-197.	1.2	16
59	Understanding interface properties from high kinetic energy photoelectron spectroscopy and first principles theory. Journal of Electron Spectroscopy and Related Phenomena, 2011, 183, 80-93.	0.8	16
60	Determination of Internal Structures of Heterogeneous Nanocrystals Using Variable-Energy Photoemission Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 15534-15540.	1.5	16
61	A setup for element specific magnetization dynamics using the transverse magneto-optic Kerr effect in the energy range of 30-72 eV. Review of Scientific Instruments, 2017, 88, 033113.	0.6	16
62	Analysis of the linear relationship between asymmetry and magnetic moment at the edge of transition metals. Physical Review Research, 2020, 2, .	1.3	16
63	Structure and magnetism of ultrathin epitaxial Fe on Ag(100). Physical Review B, 2006, 73, .	1.1	15
64	Peculiar magnetic states in the double perovskite $\text{Nd}_{1-x}\text{Mn}_x\text{Mg}_{1-x}\text{O}_6$. Physical Review B, 2019, 100, .	1.2	15
65	The valence band electronic structure of rhombohedral-like and tetragonal-like BiFeO_3 thin films from hard X-ray photoelectron spectroscopy and first-principles theory. Journal of Electron Spectroscopy and Related Phenomena, 2016, 208, 63-66.	0.8	14
66	Atomic-scale chemical fluctuation in LaSrVMoO_6 , a proposed half-metallic antiferromagnet. Physical Review B, 2010, 82, .	1.1	13
67	Reactive ZnO/Ti/ZnO interfaces studied by hard x-ray photoelectron spectroscopy. Journal of Applied Physics, 2014, 115, 043714.	1.1	13
68	Nonreciprocal spin pumping damping in asymmetric magnetic trilayers. Physical Review B, 2020, 101, .	1.1	13
69	Ultrathin Co films on flat and vicinal Cu(111) surfaces: per atom determination of orbital and spin moments. Journal of Physics Condensed Matter, 2003, 15, S573-S586.	0.7	12
70	Origin and distribution of charge carriers in $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructures in the high carrier density limit. Physical Review B, 2016, 93, .	1.1	12
71	Charge disproportionate antiferromagnetism at the verge of the insulator-metal transition in doped LaFeO_3 . Physical Review B, 2019, 99, .	1.1	12
72	Electronic structure of Co doped ZnO: Theory and experiment. Journal of Applied Physics, 2008, 103, .	1.1	11

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73	Electronic structure dynamics in a low bandgap polymer studied by time-resolved photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21921-21929.	1.3	11
74	Ferroelectric properties of BaTiO ₃ thin films co-doped with Mn and Nb. <i>AIP Advances</i> , 2019, 9, 095207.	0.6	10
75	Ultrafast magnetization dynamics in the half-metallic Heusler alloy CoMn_2FeAl . <i>Physical Review B</i> , 2021, 104, .	1.1	10
76	Quantifying Spin-Mixed States in Ferromagnets. <i>Physical Review Letters</i> , 2021, 127, 207201.	2.9	10
77	Magnetocrystalline anisotropy and uniaxiality of MnAs/GaAs(100) films. <i>Physical Review B</i> , 2011, 83, .	1.1	9
78	Magnetic coupling in asymmetric FeCoV/Ru/FeNi trilayers. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	9
79	Nonlocal Interactions in the Double Perovskite $\text{Sr}_2\text{FeMoO}_6$ from Core-Level X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11249-11256.	1.5	9
80	Resonant processes in the soft X-ray regime. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 100, 379-393.	0.8	8
81	Annealing effects on structural and magnetic properties of Co implanted ZnO single crystals. <i>Journal of Applied Physics</i> , 2011, 109, 083918.	1.1	8
82	Exploring the accessible frequency range of phase-resolved ferromagnetic resonance detected with x-rays. <i>Journal of Applied Physics</i> , 2013, 113, 033904.	1.1	8
83	Investigation of the spectral properties and magnetism of BiFeO_3 by dynamical mean-field theory. <i>Physical Review B</i> , 2018, 97, .	1.1	8
84	The origin of low bandgap and ferroelectricity of a co-doped BaTiO ₃ . <i>Europhysics Letters</i> , 2018, 124, 27005.	0.7	8
85	Experimental confirmation of the delayed Ni demagnetization in FeNi alloy. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8
86	Observation of short- and long-range hybridization of a buried Cu monolayer in Ni. <i>Physical Review B</i> , 2000, 62, R16239-R16242.	1.1	7
87	Elliptically polarised soft x-rays produced using a local bump in MAX II " Characterisation of the degree of polarisation. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	7
88	High energy photoelectron spectroscopy in basic and applied science: Bulk and interface electronic structure. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 190, 278-288.	0.8	7
89	Element-Specific Magnetization Dynamics in CoPt Alloys Induced by Strong Optical Excitation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11714-11721.	1.5	7
90	Magnetic polarons and spin-glass behavior in insulating $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ ($x=0.125$ and 0.15). <i>Physical Review Research</i> , 2020, 2, .	1.3	7

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91	Element-selective ultrafast magnetization dynamics of hybrid Stoner-Heisenberg magnets. Physical Review B, 2022, 105, .	1.1	5
92	Origin of itinerant carriers in antiferromagnetic LaFe _{1-x} MoxO ₃ studied by x-ray spectroscopies. Physical Review Materials, 2020, 4, .	0.9	4
93	Manifestation of the paramagnetic splitting of physisorbed O ₂ in core and valence spectroscopies. Surface Science, 1996, 352-354, 511-517.	0.8	3
94	Magnetic X-ray circular dichroism on in situ grown 3d magnetic thin films on surfaces. Journal of Synchrotron Radiation, 2001, 8, 120-124.	1.0	3
95	Ultrathin Co films on flat and stepped Cu(111) surfaces: Determination of per atom orbital and spin moments. Journal of Applied Physics, 2002, 91, 6881.	1.1	3
96	Photoinduced reduction of surface states in Fe:ZnO. Journal of Chemical Physics, 2015, 142, 204703.	1.2	3
97	Perpendicular and in-plane hole asymmetry in a strained NiFe ₂ O ₄ film. Journal of Physics Condensed Matter, 2021, 33, 225801.	0.7	3
98	Alkoxide based deposition and properties of a multilayer La _{0.67} Sr _{0.33} MnO ₃ /CoFe ₂ O ₄ /La _{0.67} Sr _{0.33} film. European Journal of Inorganic Chemistry, 2021, 2021, 1736-1744.	0.6	0
99	Spectroscopic investigations of electronic structure. Science and Technology of Atomic, Molecular, Condensed Matter and Biological Systems, 2012, 2, 45-70.	0.6	1
100	Optical and extreme UV studies of spin dynamics in metallic and insulating ferrimagnets. Journal of Applied Physics, 2021, 130, 240901.	1.1	1
101	Quantitative analysis of L-edge white line intensities: the influence of saturation and transverse coherence. Journal of Synchrotron Radiation, 2001, 8, 437-439.	1.0	0
102	Joint NSLS-II/MAX-lab Magnetism Workshop. Synchrotron Radiation News, 2011, 24, 13-15.	0.2	0