Weine Olovsson

List of Publications by Year
in descending order

39 papers	1,067 citations	394421 19 h-index	414414 32 g-index
40 all docs	40 docs citations	40 times ranked	1562 citing authors

#	Article	IF	Citations
1	Cerium oxide nanoparticles with antioxidant capabilities and gadolinium integration for MRI contrast enhancement. Scientific Reports, 2018, 8, 6999.	3.3	111
2	Valence-Band Hybridization and Core Level Shifts in Random Ag-Pd Alloys. Physical Review Letters, 2001, 87, 176403.	7.8	101
3	Theoretical ELNES using one-particle and multi-particle calculations. Micron, 2010, 41, 695-709.	2.2	79
4	Origin of magnetic frustrations inFeâ^'NiInvar alloys. Physical Review B, 2005, 71, .	3.2	73
5	All-electron Bethe-Salpeter calculations for shallow-core x-ray absorption near-edge structures. Physical Review B, 2009, 79, .	3.2	65
6	Core-level shifts in fcc random alloys: A first-principles approach. Physical Review B, 2005, 72, .	3.2	49
7	Core-level shifts in complex metallic systems from first principle. Physica Status Solidi (B): Basic Research, 2006, 243, 2447-2464.	1.5	42
8	Band structure of hydrogenated silicene on Ag(111): Evidence for half-silicane. Physical Review B, 2016, 93, .	3.2	39
9	Sample Preserving Deep Interface Characterization Technique. Physical Review Letters, 2006, 97, 266106.	7.8	38
10	Numerical investigation of the validity of the Slater-Janak transition-state model in metallic systems. Physical Review B, 2005, 72, .	3.2	36
11	Near-edge structures from first principles all-electron Betheâ€“Salpeter equation calculations. Journal of Physics Condensed Matter, 2009, 21, 104205.	1.8	34
12	Core-level shifts for two- and three-dimensional bimetallicPdxCu1â^'xandPdxAg1â^'xalloys on Ru(0001). Physical Review B, 2005, 72, .	3.2	27
13	Ab initiostudy of disorder broadening of core photoemission spectra in randomCuâ^'PdandAgâ^'Pdalloys. Physical Review B, 2005, 72, .	3.2	25
14	First principle calculations of core-level binding energy and Auger kinetic energy shifts in metallic solids. Journal of Electron Spectroscopy and Related Phenomena, 2010, 178-179, 88-99.	1.7	25
15	Core level shift in random CuPd and AgPd alloys by the complete screening picture. Journal of Electron Spectroscopy and Related Phenomena, 2002, 127, 65-69.	1.7	24
16	Double-segregation effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ag</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">Pd</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:mi mathvariant="normal">Ru</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>0001</mml:mn><mml:mo>)</mml:mo></mml:mrow></mml:mrow></mml:math>	3.2	24
17	Ab initio<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>L</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>,</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> x-ray absorption spectra in III-V semiconductors: Many-body perturbation theory in comparison with experiment. Physical Review B, 2011, 83, .	3.2	24
18	Investigation of interface properties of Ni/Cu multilayers by high kinetic energy photoelectron spectroscopy. Physical Review B, 2009, 80, .	3.2	21

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19	Structure and Bonding in Amorphous Cr_{1â€“x}C_x Nanocomposite Thin Films: X-ray Absorption Spectra and First-Principles Calculations. Journal of Physical Chemistry C, 2016, 120, 12890-12899.	3.1	21
20	Strong excitonic interactions in the oxygen K-edge of perovskite oxides. Ultramicroscopy, 2017, 178, 105-111.	1.9	20
21	Experimental and theoretical determination ofÏ€ bands on (â€œ23Ã—23â€) silicene grown on Ag(111). Physical Review B, 2015, 92, .	3.2	17
22	Understanding interface properties from high kinetic energy photoelectron spectroscopy and first principles theory. Journal of Electron Spectroscopy and Related Phenomena, 2011, 183, 80-93.	1.7	16
23	Core-level shifts for surface bimetallic systems from first-principles theory: Pd-Mn structures on Pd(100). Physical Review B, 2003, 68, .	3.2	15
24	Auger Energy Shifts in fcc AgPd Random Alloys from Complete Screening Picture and Experiment. Physical Review Letters, 2004, 92, 226406.	7.8	15
25	Magnetic interactions in NiO at ultrahigh pressure. Physical Review B, 2016, 93, .	3.2	15
26	Vibrational Effects in X-ray Absorption Spectra of Two-Dimensional Layered Materials. Journal of Physical Chemistry C, 2019, 123, 9688-9692.	3.1	14
27	The Be K-edge in beryllium oxide and chalcogenides: soft x-ray absorption spectra from first-principles theory and experiment. Journal of Physics Condensed Matter, 2013, 25, 315501.	1.8	13
28	Origin of the core-level binding energy shifts in Au nanoclusters. Physical Review B, 2017, 95, .	3.2	13
29	Suppression of disorder broadening of core-level photoelectron lines in CuAu alloys by inhomogeneous lattice distortion. Physical Review B, 2009, 79, .	3.2	12
30	Coreâ€“Exciton Interaction in Sodium L_{2,3} edge Structure Investigated Using the Betheâ€“Salpeter Equation. Journal of Physical Chemistry C, 2016, 120, 9036-9042.	3.1	12
31	Elastic properties of body-centered cubic iron in Earth's inner core. Physical Review B, 2022, 105, .	3.2	12
32	Excitonic, vibrational, and van der Waals interactions in electron energy loss spectroscopy. Ultramicroscopy, 2017, 180, 93-103.	1.9	8
33	Relationship between the electronic structure of embedded single to triple atomic monolayers and bulk alloys. Physical Review B, 2005, 72, .	3.2	7
34	Highly Efficient Free Energy Calculations of the Fe Equation of State Using Temperature-Dependent Effective Potential Method. Journal of Physical Chemistry A, 2016, 120, 8761-8768.	2.5	6
35	Variation of the effective exchange parameter across 3d-transition-metal series. Journal of Applied Physics, 2005, 97, 10A317.	2.5	4
36	Interface core-level shifts as a probe of embedded thin-film quality. Physical Review B, 2011, 84, .	3.2	3

#	Article	IF	Citations
37	e bonding of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">Z</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">A</mml:mi><mml:msub><mml:mi mathvariant="normal">l</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">N	3.6	3
38	Strain sensitivity in the nitrogen 1 s NEXAFS spectra of gallium nitride. Applied Surface Science, 2014, 316, 232-236.	6.1	2
39	Effects of rhenium on graphene grown on SiC(0001). Journal of Electron Spectroscopy and Related Phenomena, 2018, 222, 117-121.	1.7	1