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	Elastic properties of body-centered cubic iron in Earth's inner core. Physical Review B, 2022, 105, .	3.2	12
2	Interface 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	3.1	3
3	Vibrational Effects in X-ray Absorption Spectra of Two-Dimensional Layered Materials. Journal of Physical Chemistry C, 2019, 123, 9688-9692.	3.1	14
4	Effects of rhenium on graphene grown on SiC(0001). Journal of Electron Spectroscopy and Related Phenomena, 2018, 222, 117-121.	1.7	1
5	Cerium oxide nanoparticles with antioxidant capabilities and gadolinium integration for MRI contrast enhancement. Scientific Reports, 2018, 8, 6999.	3.3	111
6	Strong excitonic interactions in the oxygen K-edge of perovskite oxides. Ultramicroscopy, 2017, 178, 105-111.	1.9	20
7	Excitonic, vibrational, and van der Waals interactions in electron energy loss spectroscopy. Ultramicroscopy, 2017, 180, 93-103.	1.9	8
8	Origin of the core-level binding energy shifts in Au nanoclusters. Physical Review B, 2017, 95, .	3.2	13
9	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
10	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
11	Band structure of hydrogenated silicene on Ag(111): Evidence for half-silicane. Physical Review B, 2016, 93, .	3.2	39
12	Magnetic interactions in NiO at ultrahigh pressure. Physical Review B, 2016, 93, .	3.2	15
13	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
14	Experimental and theoretical determination ofÏƒbands on (â€œ23Ã—23â€) silicene grown on Ag(111). Physical Review B, 2015, 92, .	3.2	17
15	Strain sensitivity in the nitrogen 1 s NEXAFS spectra of gallium nitride. Applied Surface Science, 2014, 316, 232-236.	6.1	2
16	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
17	Al<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:mi> 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	Interface core-level shifts as a probe of embedded thin-film quality. Physical Review B, 2011, 84, .	3.2	3

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19	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
20	Theoretical ELNES using one-particle and multi-particle calculations. Micron, 2010, 41, 695-709.	2.2	79
21	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
22	Suppression of disorder broadening of core-level photoelectron lines in CuAu alloys by inhomogeneous lattice distortion. Physical Review B, 2009, 79, .	3.2	12
23	Investigation of interface properties of Ni/Cu multilayers by high kinetic energy photoelectron spectroscopy. Physical Review B, 2009, 80, .	3.2	21
24	All-electron Bethe-Salpeter calculations for shallow-core x-ray absorption near-edge structures. Physical Review B, 2009, 79, .	3.2	65
25	Near-edge structures from first principles all-electron Betheâ€“Salpeter equation calculations. Journal of Physics Condensed Matter, 2009, 21, 104205.	1.8	34
26	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: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> film nanostructures. Physical Review B, 2008, 77, .	3.2	24
27	Core-level shifts in complex metallic systems from first principle. Physica Status Solidi (B): Basic Research, 2006, 243, 2447-2464.	1.5	42
28	Sample Preserving Deep Interface Characterization Technique. Physical Review Letters, 2006, 97, 266106.	7.8	38
29	Variation of the effective exchange parameter across 3d-transition-metal series. Journal of Applied Physics, 2005, 97, 10A317.	2.5	4
30	Ab initiostudy of disorder broadening of core photoemission spectra in randomCuâ^’PdandAgâ^’Pdalloys. Physical Review B, 2005, 72, .	3.2	25
31	Numerical investigation of the validity of the Slater-Janak transition-state model in metallic systems. Physical Review B, 2005, 72, .	3.2	36
32	Core-level shifts for two- and three-dimensional bimetallicPdxCu1â^’xandPdxAg1â^’xalloys on Ru(0001). Physical Review B, 2005, 72, .	3.2	27
33	Origin of magnetic frustrations inFeâ^’NiInvar alloys. Physical Review B, 2005, 71, .	3.2	73
34	Relationship between the electronic structure of embedded single to triple atomic monolayers and bulk alloys. Physical Review B, 2005, 72, .	3.2	7
35	Core-level shifts in fcc random alloys: A first-principles approach. Physical Review B, 2005, 72, .	3.2	49
36	Auger Energy Shifts in fcc AgPd Random Alloys from Complete Screening Picture and Experiment. Physical Review Letters, 2004, 92, 226406.	7.8	15

#	Article	IF	Citations
37	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
38	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
39	Valence-Band Hybridization and Core Level Shifts in Random Ag-Pd Alloys. Physical Review Letters, 2001, 87, 176403.	7.8	101