Liu Hao Tjeng

List of Publications by Citations

289 papers	13,132 citations	61 h-index	105 g-index
312 ext. papers	14,451 ext. citations	5.2 avg, IF	5.72 L-index

#	Paper	IF	Citations
289	Electronic structure of Cu2O and CuO. *Physical Review B*, **1988**, 38, 11322-11330	3.3	1318
288	Spin state transition in LaCoO3 studied using soft x-ray absorption spectroscopy and magnetic circular dichroism. *Physical Review Letters*, **2006**, 97, 176405	7.4	417
287	Electronic structure of Ag2O. *Physical Review B*, **1990**, 41, 3190-3199	3.3	299
286	Out-of-plane orbital characters of intrinsic and doped holes in La2-xSrxCuO4. *Physical Review Letters*, **1992**, 68, 2543-2546	7.4	295
285	Electronic structure and spin-state transition of LaCoO3. *Physical Review B*, **1993**, 47, 16124-16130	3.3	294
284	Orbital-assisted metal-insulator transition in VO2. *Physical Review Letters*, **2005**, 95, 196404	7.4	278
283	Cluster-model calculation of the electronic structure of CuO: A model material for the high-Tc superconductors. *Physical Review B*, **1990**, 41, 288-299	3.3	265
282	Microscopic origin of the giant ferroelectric polarization in tetragonal-like BiFeO(3). *Physical Review Letters*, **2011**, 107, 147602	7.4	248
281	Transfer of spectral weight and symmetry across the metal-insulator transition in VO(2). *Physical Review Letters*, **2006**, 97, 116402	7.4	236
280	Electronic states and phases of KxC60 from photoemission and X-ray absorption spectroscopy. *Nature*, **1991**, 352, 603-605	50.4	233
279	Temperature and thickness dependence of magnetic moments in NiO epitaxial films. *Physical Review B*, **1998**, 57, 11623-11631	3.3	225
278	X-ray magnetic dichroism of antiferromagnet Fe2O3: The orientation of magnetic moments observed by Fe 2p x-ray absorption spectroscopy. *Physical Review Letters*, **1993**, 70, 1549-1552	7.4	203
277	Exchange splitting and charge carrier spin polarization in EuO. *Physical Review Letters*, **2002**, 88, 047201	7.4	193
276	Direct observation of electron doping in La0.7Ce0.3MnO3 using x-ray absorption spectroscopy. *Physical Review B*, **2003**, 67,	3.3	168
275	Strong spin-orbit coupling effects on the Fermi surface of Sr2RuO4 and Sr2RhO4. *Physical Review Letters*, **2008**, 101, 026406	7.4	166
274	Spin and orbital occupation and phase transitions in V2O3. *Physical Review B*, **2000**, 61, 11506-11509	3.3	156
273	Different look at the spin state of Co(3+) ions in a CoO(5) pyramidal coordination. *Physical Review Letters*, **2004**, 92, 207402	7.4	155

272	Spin-orbit coupling in the Mott insulator Ca(2)RuO(4). *Physical Review Letters*, **2001**, 87, 077202	7.4	147
271	Asymmetric orbital-lattice interactions in ultrathin correlated oxide films. *Physical Review Letters*, **2011**, 107, 116805	7.4	142
270	Controlling orbital moment and spin orientation in CoO layers by strain. *Physical Review Letters*, **2005**, 95, 187205	7.4	140
269	Local electronic structure and magnetic properties of LaMn0.5Co0.5O3 studied by x-ray absorption and magnetic circular dichroism spectroscopy. *Physical Review B*, **2008**, 77,	3.3	134
268	Nature of magnetism in Ca3Co2O6. *Physical Review Letters*, **2005**, 95, 186401	7.4	124
267	Spin blockade, orbital occupation, and charge ordering in La1.5Sr0.5CoO4. *Physical Review Letters*, **2009**, 102, 116401	7.4	123
266	Strongly reduced band gap in a correlated insulator in close proximity to a metal. *Europhysics Letters*, **1997**, 40, 177-182	1.6	121
265	Resonant photoemission study of the electronic structure of CuO and Cu2O. *Physical Review B*, **1990**, 42, 2268-2274	3.3	118
264	Temperature dependence of the Kondo resonance in YbAl3. *Physical Review Letters*, **1993**, 71, 1419-1422	7.4	113
263	Giant Cu 2p resonances in CuO valence-band photoemission. *Physical Review Letters*, **1991**, 67, 501-504	7.4	111
262	Ising magnetism and ferroelectricity in Ca3CoMnO6. *Physical Review Letters*, **2009**, 102, 026404	7.4	102
261	Charge transfer and doping-dependent hybridization of C60 on noble metals. *Physical Review B*, **1998**, 57, 11939-11942	3.3	99
260	Hybridization gap and Fano resonance in SmB6. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 4798-802	11.5	98
259	Electronic structure of MgO studied by angle-resolved ultraviolet photoelectron spectroscopy. *Surface Science*, **1990**, 235, 269-279	1.8	97
258	A complete high-to-low spin state transition of trivalent cobalt ion in octahedral symmetry in SrCo0.5Ru0.5O(3-δ) *Journal of the American Chemical Society*, **2014**, 136, 1514-9	16.4	95
257	Single-particle gap above the Verwey transition in Fe3O4. *Physical Review B*, **1997**, 55, 12813-12817	3.3	94
256	Development of the electronic structure in a K-doped C60 monolayer on a Ag(1 1 1) surface. *Solid State Communications*, **1997**, 103, 31-35	1.6	90
255	Valence, spin, and orbital state of Co ions in one-dimensional Ca3Co2O6: An x-ray absorption and magnetic circular dichroism study. *Physical Review B*, **2006**, 74,	3.3	89

254	Orthorhombic BiFeO3. *Physical Review Letters*, **2012**, 109, 247606	7.4	87
253	k=0 magnetic structure and absence of ferroelectricity in SmFeO3. *Physical Review Letters*, **2014**, 113, 217203	7.4	86
252	Heteroepitaxy of FeO/Muscovite: A New Perspective for Flexible Spintronics. *ACS Applied Materials & Interfaces*, **2016**, 8, 33794-33801	9.5	83
251	Photoemission and x-ray-absorption study of misfit-layered (Bi,Pb)-Sr-Co-O compounds: Electronic structure of a hole-doped Co-O triangular lattice. *Physical Review B*, **2001**, 64,	3.3	83
250	Photoemission evidence of electronic stabilization of polar surfaces in K3C60. *Physical Review B*, **2000**, 62, 16046-16055	3.3	83
249	Magnetic structure of Fe/Cr/Fe trilayers. *Physical Review B*, **1993**, 48, 4144-4147	3.3	81
248	SYNCHROTRON RADIATION AND LOW ENERGY ELECTRON DIFFRACTION STUDIES OF ULTRATHIN C60 FILMS DEPOSITED ON Cu(100), Cu(111) AND Cu(110). *International Journal of Modern Physics B*, **1992**, 06, 3909-3913	1.1	79
247	Magnetic versus crystal-field linear dichroism in NiO thin films. *Physical Review B*, **2004**, 69,	3.3	75
246	Single-domain multiferroic BiFeO3 films. *Nature Communications*, **2016**, 7, 12712	17.4	74
245	Antiferromagnetic correlations in the metallic strongly correlated transition metal oxide LaNiO. *Nature Communications*, **2018**, 9, 43	17.4	73
244	Intrinsic conduction through topological surface states of insulating Bi2Te3 epitaxial thin films. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 14979-84	11.5	73
243	Electronic structure and chemical reactivity of oxide-metal interfaces: MgO(100)/Ag(100). *Physical Review B*, **2000**, 61, 16948-16955	3.3	73
242	Reduction of Coulomb and charge-transfer energies in oxide films on metals. *Physical Review B*, **1999**, 59, R2517-R2520	3.3	73
241	Epitaxial and layer-by-layer growth of EuO thin films on yttria-stabilized cubic zirconia (001) using MBE distillation. *Physical Review B*, **2009**, 79,	3.3	72
240	Nonresonant inelastic x-ray scattering involving excitonic excitations: the examples of NiO and CoO. *Physical Review Letters*, **2007**, 99, 257401	7.4	72
239	Direct observation of t2g orbital ordering in magnetite. *Physical Review Letters*, **2008**, 100, 026406	7.4	71
238	Electronic and magnetic properties of the kagome systems YBaCo4O7 and YBaCo3MO7 (M=Al, Fe). *Physical Review B*, **2009**, 80,	3.3	70
237	Spin-Resolved Photoemission on Anti-Ferromagnets: Direct Observation of Zhang-Rice Singlets in CuO. *Physical Review Letters*, **1997**, 78, 1126-1129	7.4	70

236	Soft x-ray magnetic circular dichroism study on Gd-doped EuO thin films. *Physical Review B*, **2006**, 73,	3.3	70
235	X-ray absorption and x-ray magnetic dichroism study on Ca3CoRhO6 and Ca3FeRhO6. *Physical Review B*, **2008**, 77,	3.3	69
234	Ultrathin oxide films on metals: new physics and new chemistry?. *Thin Solid Films*, **2001**, 400, 9-15	2.2	69
233	Soft-X-ray magnetic circular dichroism: a new technique for probing magnetic properties of magnetic surfaces and ultrathin films. *Journal of Magnetism and Magnetic Materials*, **1992**, 109, 288-292	2.8	69
232	Crystal-field and Kondo-scale investigations of CeMIn5 (M=Co, Ir, and Rh): A combined x-ray absorption and inelastic neutron scattering study. *Physical Review B*, **2010**, 81,	3.3	65
231	Comparative soft-x-ray resonant-photoemission study on Bi2Sr2CaCu2O8, CuO, and Cu2O. *Physical Review B*, **1992**, 45, 8205-8208	3.3	64
230	Verwey transition in Fe3O4 thin films: Influence of oxygen stoichiometry and substrate-induced microstructure. *Physical Review B*, **2014**, 90,	3.3	62
229	Valence states and metamagnetic phase transition in partially B-site-disordered perovskite EuMn0.5Co0.5O3. *Physical Review B*, **2008**, 77,	3.3	62
228	Voltage- and time-dependent valence state transition in cobalt oxide catalysts during the oxygen evolution reaction. *Nature Communications*, **2020**, 11, 1984	17.4	60
227	Ultrahigh-performance tungsten-doped perovskites for the oxygen evolution reaction. *Journal of Materials Chemistry A*, **2018**, 6, 9854-9859	13	60
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225	Electronic structure of clean and oxygen covered silver (110) surface. *Surface Science*, **1990**, 236, 341-368	1.8	60
224	Magnetic X-Ray Dichroism Study of the Nearest-Neighbor Spin-Spin Correlation Function and Long-Range Magnetic Order Parameter in Antiferromagnetic NiO. *Europhysics Letters*, **1995**, 32, 259-265	1.6	57
223	Spin-resolved photoemission studies of epitaxial Fe3O4(100) thin films. *Journal of Magnetism and Magnetic Materials*, **2002**, 239, 261-265	2.8	56
222	Crystal-field ground state of the orthorhombic Kondo insulator CeRu2Al10. *Physical Review B*, **2012**, 86,	3.3	55
221	Determination of the orbital moment and crystal-field splitting in LaTiO3. *Physical Review Letters*, **2005**, 94, 056401	7.4	55
220	Oxygen-Deficient Perovskite Sr0.7Y0.3CoO2.65□s a Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. *Chemistry of Materials*, **2011**, 23, 5037-5044	9.6	54
219	Spectroscopy of stripe order in La1.8Sr0.2NiO4 using resonant soft x-ray diffraction. *Physical Review Letters*, **2005**, 95, 156402	7.4	54

218	X-ray absorption study of layered Co oxides with a Co-O triangular lattice. *Physical Review B*, **2005**, 71,	3.3	54
217	Magnetic circularly polarized 2p resonant photoemission of nickel. *Physical Review B*, **1993**, 48, 13378-13382	3.3	53
216	Impact of interface orientation on magnetic coupling in highly ordered systems: A case study of the low-indexed Fe3O4/NiO interfaces. *Physical Review B*, **2008**, 78,	3.3	49
215	Orbitally driven spin-singlet dimerization in S=1 La4Ru2O10. *Physical Review Letters*, **2006**, 96, 256402	7.4	47
214	Core-level x-ray photoemission on NiO in the impurity limit. *Physical Review B*, **2000**, 61, 13403-13409	3.3	47
213	Determining the crystal-field ground state in rare earth heavy fermion materials using soft-x-ray absorption spectroscopy. *Physical Review Letters*, **2008**, 100, 066405	7.4	45
212	Relationship between atomic and electronic structure of clean and oxygen covered copper (110) surface. *Surface Science*, **1990**, 233, 163-183	1.8	45
211	Local symmetry and magnetic anisotropy in multiferroic MnWO4 and antiferromagnetic CoWO4 studied by soft x-ray absorption spectroscopy. *Physical Review B*, **2010**, 82,	3.3	44
210	Local Electronic and Magnetic Structure of Ni below and above TC: A Spin-Resolved Circularly Polarized Resonant Photoemission Study. *Physical Review Letters*, **1997**, 79, 3510-3513	7.4	44
209	Correlation between ground state and orbital anisotropy in heavy fermion materials. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2384-8	11.5	43
208	Local orbital occupation and energy levels of Co in NaxCoO2: A soft x-ray absorption study. *Physical Review B*, **2010**, 81,	3.3	42
207	From antiferromagnetic insulator to correlated metal in pressurized and doped LaMnPO. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E1815-9	11.5	42
206	Deterministic optical control of room temperature multiferroicity in BiFeO thin films. *Nature Materials*, **2019**, 18, 580-587	27	41
205	Spin-state order/disorder and metal□nsulator transition in GdBaCo2O5.5: experimental determination of the underlying electronic structure. *New Journal of Physics*, **2012**, 14, 123025	2.9	41
204	Magnetically Frustrated Double Perovskites: Synthesis, Structural Properties, and Magnetic Order of Sr2BOsO6 (B = Y, In, Sc). *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2015**, 641, 197-205	1.3	40
203	Epitaxy, stoichiometry, and magnetic properties of Gd-doped EuO films on YSZ (001). *Physical Review B*, **2009**, 80,	3.3	40
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199	Spin-state-driven metal-insulator transition in (La,Sr)CoO3 under high-pressure. *Physical Review B*, **2007**, 75,	3.3	38
198	Magnetic moments in a gadolinium iron garnet studied by soft-X-ray magnetic circular dichroism. *Journal of Magnetism and Magnetic Materials*, **1992**, 109, 109-112	2.8	38
197	Insight into the Role of Metal□Oxygen Bond and O 2p Hole in High-Voltage Cathode LiNixMn2□O4. *Journal of Physical Chemistry C*, **2017**, 121, 16079-16087	3.8	37
196	Jahn-Teller distortion driven magnetic polarons in magnetite. *Nature Communications*, **2017**, 8, 15929	17.4	37
195	Spectroscopic determination of crystal-field levels in CeRh2Si2 and CeRu2Si2 and of the 4f0 contributions in CeM2Si2 (M=Cu, Ru, Rh, Pd, and Au). *Physical Review B*, **2012**, 85,	3.3	37
194	Three Oxidation States of Manganese in the Barium Hexaferrite BaFeMnO. *Inorganic Chemistry*, **2017**, 56, 3861-3866	5.1	36
193	An unusual high-spin ground state of Co3+ in octahedral coordination in brownmillerite-type cobalt oxide. *Dalton Transactions*, **2015**, 44, 10708-13	4.3	36
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186	Coupled valence and spin state transition in (Pr0.7Sm0.3)0.7Ca0.3CoO3. *Physical Review B*, **2013**, 87,	3.3	33
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181	Disorder-driven electronic localization and phase separation in superconducting Fe1+yTe0.5Se0.5 single crystals. *Physical Review B*, **2010**, 82,	3.3	30
180	Crystal-field level inversion in lightly Mn-doped Sr3Ru2O7. *Physical Review Letters*, **2008**, 101, 016404	7.4	30
179	Complex strain evolution of polar and magnetic order in multiferroic BiFeO thin films. *Nature Communications*, **2018**, 9, 3764	17.4	30
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177	Crossing the gap from p- to n-type doping: nature of the states near the chemical potential in La(2)-(x)Sr(x)CuO(4) and Nd(2-x)Ce(x)CuO(4-delta). *Physical Review Letters*, **2003**, 90, 247005	7.4	29
176	Detection of Zhang-Rice singlets using spin-polarized photoemission. *Physical Review Letters*, **2001**, 87, 237003	7.4	29
175	Spin-orbit coupling and crystal-field distortions for a low-spin 3d5 state in BaCoO3. *Physical Review B*, **2019**, 100,	3.3	29
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168	Local electronic structure of Fe2+ impurities in MgO thin films: Temperature-dependent soft x-ray absorption spectroscopy study. *Physical Review B*, **2010**, 82,	3.3	26
167	Orbital order in La0.5Sr1.5MnO4: Beyond a common local Jahn-Teller picture. *Physical Review B*, **2011**, 84,	3.3	26
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164	Determination of the Co valence in bilayer hydrated superconducting NaxCoO2 □yH2O by soft x-ray absorption spectroscopy. *Physical Review Letters*, **2011**, 107, 066404	7.4	25
163	BCS-like density of states in superconducting A3C60 surfaces. *Physical Review Letters*, **2000**, 85, 1970-3	7.4	25
162	Magnetic properties and crystal structure of Sr3CoIrO6 and Sr3NiIrO6. *Physical Review B*, **2012**, 86,	3.3	24
161	Growth and properties of strained VOx thin films with controlled stoichiometry. *Physical Review B*, **2004**, 69,	3.3	23
160	Charge fluctuations and image potential at oxide-metal interfaces. *Physical Review B*, **2002**, 66,	3.3	23
159	Magnetic circular dichroism of FexCo1□ single-crystal thin films. *Journal of Magnetism and Magnetic Materials*, **1993**, 127, 109-114	2.8	23
158	Direct bulk-sensitive probe of 5f symmetry in URu2Si2. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13989-13994	11.5	23
157	Polarization dependent hard X-ray photoemission experiments for solids: Efficiency and limits for unraveling the orbital character of the valence band. *Journal of Electron Spectroscopy and Related Phenomena*, **2015**, 198, 6-11	1.7	22
156	Epitaxial europium oxide on Ni(100) with single-crystal quality. *Physical Review B*, **2011**, 83,	3.3	22
155	Soft x-ray magnetic circular dichroism: a probe for studying paramagnetic bioinorganic systems. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 9664-7	11.5	22
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138	Dynamic Atomic Reconstruction: How Fe3O4 Thin Films Evade Polar Catastrophe for Epitaxy. *Physical Review X*, **2016**, 6,	9.1	16
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135	Magnetic coupling in highly ordered NiO/Fe 3 O 4 (110): Ultrasharp magnetic interfaces vs. long-range magnetoelastic interactions. *Europhysics Letters*, **2008**, 81, 17005	1.6	16
134	Comment on Resonant Photoemission vs. Coster-Kronig Auger Decay at the L III Thresholds of Ni Metal and CuO *Europhysics Letters*, **1993**, 23, 535-537	1.6	16
133	Contiguous 3d and 4f magnetism: strongly correlated 3d electrons in YbFe2Al10. *Physical Review Letters*, **2014**, 113, 216403	7.4	15
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131	Strain-dependent transport properties of the ultra-thin correlated metal, LaNiO3. *New Journal of Physics*, **2011**, 13, 073037	2.9	15
130	Orbital state and metal-insulator transition in Ca2SrxRuO4 (x=0.0 and 0.09) studied by x-ray absorption spectroscopy. *Physical Review B*, **2004**, 69,	3.3	15
129	Theoretical description of the Fano effect in the angle-integrated valence-band photoemission of paramagnetic solids. *Physical Review B*, **2001**, 63,	3.3	15

128	Quantitative study of valence and configuration interaction parameters of the Kondo semiconductors CeM2Al10 (M = 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	1.7	14
127	The role of nonmagnetic d0 vs. d10 B-type cations on the magnetic exchange interactions in osmium double perovskites. *Journal of Solid State Chemistry*, **2016**, 243, 119-123	3.3	14
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125	Electronic structure of SrPt4Ge12: Combined photoelectron spectroscopy and band structure study. *Physical Review B*, **2009**, 80,	3.3	14
124	Mott versus Slater-type metal-insulator transition in Mn-substituted Sr3Ru2O7. *Physical Review B*, **2012**, 86,	3.3	14
123	Electronic structure of RAuSn (R=Sc, Ce, Gd, Er, and Lu) investigated with x-ray photoelectron spectroscopy and band structure calculations. *Physical Review B*, **2008**, 77,	3.3	14
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