

Tonica Valla

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	In-situ angle-resolved photoemission spectroscopy of copper-oxide thin films synthesized by molecular beam epitaxy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2022, 257, 146775.	1.7	17
2	Visualizing the unusual spectral weight transfer in DyBa ₂ Cu ₃ O _{7-δ} thin film. <i>Scientific Reports</i> , 2022, 12, 830.	3.3	1
3	Topological electronic structure of YbMg ₂ Bi ₂ and CaMg ₂ Bi ₂ . <i>Npj Quantum Materials</i> , 2022, 7, .	5.2	7
4	Absence of a Dirac gap in ferromagnetic Cr _x (Bi _{0.1} Sb _{0.9}) ₂ Te ₃ . <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	5
5	Hole-like Fermi surface in the overdoped non-superconducting Bi _{1.8} Pb _{0.4} Sr ₂ CuO _{6+δ} . <i>Europhysics Letters</i> , 2021, 134, 17002.	2.0	3
6	Quantum Size Effects, Multiple Dirac Cones, and Edge States in Ultrathin Bi(110) Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33627-33634.	8.0	11
7	Multi-hole bands and quasi-two-dimensionality in Cr ₂ Ge ₂ Te ₆ studied by angle-resolved photoemission spectroscopy. <i>Europhysics Letters</i> , 2021, 133, 27002.	2.0	5
8	Valence band electronic structure of the van der Waals ferromagnetic insulators: VI ₃ and CrI ₃ . <i>Scientific Reports</i> , 2020, 10, 15602.	3.3	20
9	Origin of Suppression of Proximity-Induced Superconductivity in Bi ₂ Sr ₂ CaCuO _{8+δ} Heterostructures. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000038.	3.9	5
10	Combined spectroscopic imaging STM and ARPES study of different gaps measured in the cuprate phase diagram. <i>Physical Review B</i> , 2020, 101, .	3.2	1
11	Dirac energy spectrum and inverted bandgap in metamorphic InAsSb/InSb superlattices. <i>Applied Physics Letters</i> , 2020, 116, 032101.	3.3	5
12	Disappearance of superconductivity due to vanishing coupling in the overdoped Bi ₂ Sr ₂ CaCuO _{8+δ} . <i>Nature Communications</i> , 2020, 11, 569.	12.8	15
13	Homogeneous superconducting gap in DyBa ₂ O ₇ synthesized by oxide molecular beam epitaxy. <i>Physical Review Materials</i> , 2020, 4, .	2.2	4
14	A New Magnetic Topological Quantum Material Candidate by Design. <i>ACS Central Science</i> , 2019, 5, 900-910.	11.3	63
15	Reconstruction of the Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} Fermi surface. <i>Physical Review B</i> , 2019, 100, .	3.2	3
16	Optical and photoemission investigation of structural and magnetic transitions in the iron-based superconductor Sr _{0.67} Na _{0.33} FeAs ₂ .	0.6	3
17	Realization of a Type-II Nodal Line Semimetal in Mg ₃ Bi ₂ . <i>Advanced Science</i> , 2019, 6, 1800897.	11.2	84
18	Band Structure of the IV-VI Black Phosphorus Analog and Thermoelectric SnSe. <i>Physical Review Letters</i> , 2018, 120, 156403.	7.8	49

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19	Phase diagram of Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ revisited. Nature Communications, 2018, 9, 5210.	12.8	43
20	Distinct effects of Cr bulk doping and surface deposition on the chemical environment and electronic structure of the topological insulator Bi ₂ Se ₃ . Applied Surface Science, 2017, 407, 371-378.	6.1	10
21	Sn-doped Bi _{1.1} Sb _{0.9} Te ₂ S bulk crystal topological insulator with excellent properties. Nature Communications, 2016, 7, 11456.	12.8	94
22	Growth and characterization of Al ₂ O ₃ films on fluorine functionalized epitaxial graphene. Journal of Applied Physics, 2016, 120, .	2.5	6
23	Superconductivity in a Misfit Phase That Combines the Topological Crystalline Insulator Pb _{1-x} Sn _x Se with the CDW-Bearing Transition Metal Dichalcogenide TiSe ₂ . Journal of the Physical Society of Japan, 2016, 85, 064705.	1.6	9
24	Strong topological metal material with multiple Dirac cones. Physical Review B, 2016, 93, .	3.2	19
25	Differences in Chemical Doping Matter: Superconductivity in Ti _{1-x} Ta _x Se ₂ but Not in Ti _{1-x} Nb _x Se ₂ . Chemistry of Materials, 2016, 28, 1927-1935.	6.7	40
26	Chiral magnetic effect in ZrTe ₅ . Nature Physics, 2016, 12, 550-554.	16.7	793
27	Li adsorption versus graphene intercalation on Ir(111): From quenching to restoration of the Ir surface state. Physical Review B, 2015, 92, .	3.2	27
28	Surface Collective Modes in the Topological Insulators Bi_2Te_3 and Bi_2Se_3 . Physical Review Letters, 2015, 115, 257402.	7.8	67
29	Surface-state-dominated transport in crystals of the topological crystalline insulator In-doped Pb _{1-x} Sn _x Te. Physical Review B, 2015, 91, .	3.2	18
30	Imaging Dirac-mass disorder from magnetic dopant atoms in the ferromagnetic topological insulator Cr _x (Bi _{0.1} Sb _{0.9}) _{2-x} Te ₃ . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1316-1321.	7.1	206
31	Quasiparticle Interference, Quasiparticle Interactions, and the Origin of the Charge Density Wave in WTe_2 . Physical Review Letters, 2015, 114, 037001.	7.8	67
32	Gapped Surface States in a Strong-Topological-Insulator Material. Physical Review Letters, 2015, 114, 256401.	7.8	24
33	Spin-Orbit Interactions and the Nematicity Observed in the Fe-Based Superconductors. Physical Review Letters, 2015, 114, 167001.	7.8	42
34	Inducing a Lifshitz Transition by Extrinsic Doping of Surface Bands in the Topological Crystalline Insulator Pb _{1-x} Sn _x Se. Physical Review Letters, 2014, 112, 146403.	7.8	25
35	Electronic Structure Basis for the Extraordinary Magnetoresistance in WTe_2 . Physical Review Letters, 2014, 113, 067003.	7.8	241
36	Absence of a Proximity Effect for a Thin Film of a Topological Insulator Grown on Top of a Topological Crystalline Insulator Bi_2Te_3 . Physical Review Letters, 2014, 113, 067003.	7.8	39

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37	Comparison of Sn-doped and nonstoichiometric vertical-Bridgman-grown crystals of the topological insulator Bi ₂ Te ₂ Se. Journal of Applied Physics, 2014, 115, 143708.	2.5	33
38	Quasiparticle interference on the surface of the topological crystalline insulator Pb _{1-x} Sn _x Bi ₂ Se ₃ . Physical Review B, 2013, 88, .	12.8	184
39	The mechanism of caesium intercalation of graphene. Nature Communications, 2013, 4, 2772.	12.8	105
40	Symmetry protected Josephson supercurrents in three-dimensional topological insulators. Nature Communications, 2013, 4, 1689.	12.8	105
41	Persistent coherence and spin polarization of topological surface states on topological insulators. Physical Review B, 2013, 88, .	3.2	18
42	Termination-dependent topological surface states of the natural superlattice phase Bi ₄ Se ₃ . Physical Review B, 2013, 88, .	3.2	52
43	Orbital characters and near two-dimensionality of Fermi surfaces in NaFe _{1-x} CoxAs. Applied Physics Letters, 2012, 101, .	3.3	8
44	The electron spectro-microscopy beamline at National Synchrotron Light Source II: A wide photon energy range, micro-focusing beamline for photoelectron spectro-microscopies. Review of Scientific Instruments, 2012, 83, 023102.	1.3	10
45	Topological semimetal in a Bi-Bi ₂ Se ₃ infinitely adaptive superlattice phase. Physical Review B, 2012, 86, .	3.2	59
46	PanetÅal.Reply:. Physical Review Letters, 2012, 108, .	7.8	4
47	Probing the bulk electronic states of Bi ₂ Se ₃ using nuclear magnetic resonance. Physical Review B, 2012, 86, .	3.2	26
48	Photoemission Spectroscopy of Magnetic and Nonmagnetic Impurities on the Surface of the Bi ₂ Se ₃ Topological Insulator. Physical Review Letters, 2012, 108, 117601.	7.8	179
49	Angle-resolved photoemission from cuprates with static stripes. Physica C: Superconductivity and Its Applications, 2012, 481, 66-74.	1.2	12
50	Measurement of an Exceptionally Weak Electron-Phonon Coupling on the Surface of the Topological Insulator Bi ₂ Se ₃ . Physical Review Letters, 2012, 108, 187001.	7.8	140
51	Angle-Resolved Photoemission Spectroscopy of KC ₈ and Nonsuperconducting LiC ₆ Graphite. Physical Review Letters, 2011, 106, 257004.	7.8	68
52	Electronic Structure of the Topological Insulator Bi ₂ Se ₃ in an Even Superconducting State. Physical Review Letters, 2011, 106, 257004.	7.8	192
53	Superconductivity and Electron-Phonon Coupling in Graphite Intercalation Compunds. , 2011, .		0
54	Coupling of spin and orbital excitations in the iron-based superconductor FeSe _{0.5} . Physical Review B, 2010, 81, .	3.2	61

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55	Metal to Insulator Transition on the $N < \text{Landau Level in Graphene}$. Physical Review Letters, 2010, 105, 046804.	7.8	66
56	Anisotropic Electron-Phonon Coupling and Dynamical Nesting on the Graphene Sheets in Superconducting CaC_6 using Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2009, 102, 107007.	7.8	78
57	Electronic properties of iron arsenic high temperature superconductors revealed by angle resolved photoemission spectroscopy (ARPES). Physica C: Superconductivity and Its Applications, 2009, 469, 491-497.	1.2	25
58	Breakdown of the $N=0$ quantum Hall state in graphene: Two insulating regimes. Physical Review B, 2009, 80, .	3.2	24
59	Emergence of preformed Cooper pairs from the doped Mott insulating state in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Nature, 2008, 456, 77-80.	27.8	217
60	K-Doping Dependence of the Fermi Surface of the Iron-Arsenic $\text{BaKFe}_2\text{As}_4$ Using Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2008, 101, 177005.	7.8	214
61	Spin-orbit interaction effect in the electronic structure of Bi_2Te_3 observed by angle-resolved photoemission spectroscopy. Europhysics Letters, 2008, 81, 57006.	2.0	96
62	Doping of a one-dimensional Mott insulator: Photoemission and optical studies of $\text{Sr}_2\text{Cu}_2\text{O}_7$. Physical Review B, 2008, 77, .	3.2	14
63	Electronic structure of a Co-decorated vicinal $\text{Cu}(775)$ surface: High-resolution photoemission spectroscopy. Physical Review B, 2008, 77, .	3.2	12
64	Experimental determination of the Fermi surface of the spin spiral compound TlCo_2Se_2 . Europhysics Letters, 2007, 77, 27001.	2.0	7
65	High-Energy Kink Observed in the Electron Dispersion of High-Temperature Cuprate Superconductors. Physical Review Letters, 2007, 98, 167003.	7.8	129
66	Angle-resolved photoemission study of the metal-insulator transition in bismuth cobaltates. Physical Review B, 2007, 76, .	3.2	5
67	The Ground State of the Pseudogap in Cuprate Superconductors. Science, 2006, 314, 1914-1916.	12.6	221
68	Fine details of the nodal electronic excitations in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physical Review B, 2006, 73, .	3.2	25
69	Comment on "Multiple Bosonic Mode Coupling in the Electron Self-Energy of $(\text{La}_{2-x}\text{Sr}_x)\text{CuO}_4$ ". Physical Review Letters, 2006, 96, 119701; author reply 119702.	7.8	12
70	Charge Order, Metallic Behavior, and Superconductivity in $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$ with $x=1/8$. Physical Review Letters, 2006, 96, 257002.	7.8	50
71	Nature of oxygen dopant-induced states in high-temperature $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ superconductors: A photoemission investigation. Physical Review B, 2006, 74, .	3.2	14
72	Electronic interactions in strongly correlated systems: what is the glue for high temperature superconductivity?. , 2005, 5932, 593203.		6

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73	Scaling of the superfluid density in high-temperature superconductors. <i>Physical Review B</i> , 2005, 72, .	3.2	68
74	Orbital Dependence of the Fermi Liquid State in Sr_2RuO_4 . <i>Physical Review Letters</i> , 2005, 94, 107003.	7.8	25
75	Charge-density-wave gap in the quasi-two-dimensional conductor $\text{Na}_{0.9}\text{Mo}_6\text{O}_{17}$ measured by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2005, 72, .	3.2	5
76	Extracting the electron-boson spectral function $\hat{\chi}_2 F(\omega)$ from infrared and photoemission data using inverse theory. <i>Physical Review B</i> , 2005, 71, .	3.2	74
77	Quasiparticle Spectra, Charge-Density Waves, Superconductivity, and Electron-Phonon Coupling in $2\text{H}\delta\text{-NbSe}_2$. <i>Physical Review Letters</i> , 2004, 92, 086401.	7.8	163
78	Quasiparticle Line Shape of Sr_2RuO_4 and Its Relation to Anisotropic Transport. <i>Physical Review Letters</i> , 2004, 92, 137002.	7.8	36
79	d-band quantum well states in ultrathin silver films on $\text{V}(100)$. <i>Physical Review B</i> , 2003, 68, .	3.2	20
80	Quasiparticle Liquid in the Highly Overdoped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 2002, 88, 167006.	7.8	54
81	Spin-resolved photoemission study of photohole lifetimes in ferromagnetic gadolinium. <i>Physical Review B</i> , 2002, 65, .	3.2	33
82	ARPES EVIDENCE FOR A QUASIPARTICLE LIQUID IN OVERDOPED $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Surface Review and Letters</i> , 2002, 09, 1091-1096.	1.1	0
83	Coherenceâ€“incoherence and dimensional crossover in layered strongly correlated metals. <i>Nature</i> , 2002, 417, 627-630.	27.8	171
84	Photoemission studies of self-energy effects in cuprate superconductors. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 117-118, 153-164.	1.7	15
85	Temperature dependence of photoemission from quantum-well states in $\text{Ag}/\text{V}(100)$:â€“ Moving surface-vacuum barrier effects. <i>Physical Review B</i> , 2001, 64, .	3.2	34
86	Doping and Temperature Dependence of the Mass Enhancement Observed in the Cuprate $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 2001, 87, 177007.	7.8	331
87	High-resolution photoemission studies of complex materials. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	3
88	Oscillatory electron-phonon coupling in ultra-thin silver films on $\text{V}(100)$. <i>Journal of Physics Condensed Matter</i> , 2000, 12, L477-L482.	1.8	37
89	Charge-Density-Wave-Induced Modifications to the Quasiparticle Self-Energy in 2H-TaSe_2 . <i>Physical Review Letters</i> , 2000, 85, 4759-4762.	7.8	85
90	Temperature Dependent Scattering Rates at the Fermi Surface of Optimally Doped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 2000, 85, 828-831.	7.8	171

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91	Unoccupied band structure of wurtzite GaN(0001). Physical Review B, 1999, 59, 5003-5007.	3.2	21
92	Many-Body Effects in Angle-Resolved Photoemission: Quasiparticle Energy and Lifetime of a Mo(110) Surface State. Physical Review Letters, 1999, 83, 2085-2088.	7.8	307
93	Evidence for Quantum Critical Behavior in the Optimally Doped Cuprate Bi ₂ Sr ₂ CaCu ₂ O ₈ +. Science, 1999, 285, 2110-2113.	12.6	512
94	Temperature Dependent Photoemission Studies of Optimally Doped Bi ₂ Sr ₂ CaCu ₂ O ₈ . Physical Review Letters, 1999, 82, 2179-2182.	7.8	145
95	Photoemission study of ultra-thin vanadium films on Cu(100). Vacuum, 1998, 50, 245-249.	3.5	3
96	Spin polarized photoemission studies of the Gd(0001) surface. Journal of Electron Spectroscopy and Related Phenomena, 1998, 92, 19-24.	1.7	14
97	Structural and electronic properties of vanadium ultra-thin films on Cu(100). Surface Science, 1998, 397, 270-277.	1.9	14
98	Growth modes and electronic properties of copper ultra-thin films on a V(100) surface. Surface Science, 1997, 374, 51-60.	1.9	11
99	Vanadium CVV Auger transition. Solid State Communications, 1996, 99, 393-397.	1.9	4
100	Electrochemical and X-ray photoelectron spectroscopy studies of passive film on tin in citrate buffer solution. Journal of Electroanalytical Chemistry, 1996, 407, 83-89.	3.8	74
101	Electronic structure of silver and copper ultrathin films on V(100): Quantum-well states. Physical Review B, 1996, 54, 11786-11795.	3.2	51
102	Photoemission and inverse photoemission spectroscopy of V(100). Journal of Physics Condensed Matter, 1996, 8, 4195-4204.	1.8	10
103	Interaction of oxygen and silver on the V(100) surface. Applied Surface Science, 1995, 89, 375-381.	6.1	17
104	On the electronic structure of vanadium: the angular resolved photoelectron spectroscopy of V(100) surface. Vacuum, 1995, 46, 1181-1183.	3.5	10
105	Characterization of the 1 and 2 ML silver films on the V(100) surface. Vacuum, 1995, 46, 1223-1226.	3.5	13
106	Inverse photoemission and Auger electron spectroscopy of Rh thin films on Cu(100). Journal of Physics Condensed Matter, 1995, 7, 9475-9484.	1.8	10
107	Numerical Simulation of Polymer Forging. International Polymer Processing, 1995, 10, 179-185.	0.5	4
108	Spectroscopic study of SiC _x like structures formed on polycrystalline silicon sheets during growth. Journal of Applied Physics, 1994, 75, 3586-3592.	2.5	19

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109	Valence band spectroscopy of V(100) surface. Solid State Communications, 1994, 89, 917-920.	1.9	20
110	Properties of ultra thin silver films on a V(100) surface in a wide temperature range. Surface Science, 1994, 315, 81-92.	1.9	17
111	Photoelectron spectroscopy of gold and silver ultra-thin films on V(100). Surface Science, 1994, 307-309, 576-581.	1.9	8
112	Photoelectron spectroscopy characterization of the V(100) surface. Surface Science, 1994, 307-309, 843-847.	1.9	23
113	Electron spectroscopy characterization of an activated ruthenium electrode. Journal of Electroanalytical Chemistry, 1993, 356, 81-91.	3.8	32
114	Simple adapter for a closed-loop helium cryostat in ultrahigh vacuum application. Review of Scientific Instruments, 1991, 62, 3116-3117.	1.3	4