

Federico Mazzola

List of Publications by Year in descending order

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47

papers

1,742

citations

394421

19

h-index

276875

41

g-index

47

all docs

47

docs citations

47

times ranked

3236

citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of spin-polarized bulk bands in an inversion-symmetric semiconductor. <i>Nature Physics</i> , 2014, 10, 835-839.	16.7	271
2	Electronic Structure and Enhanced Charge-Density Wave Order of Monolayer VSe ₂ . <i>Nano Letters</i> , 2018, 18, 4493-4499.	9.1	200
3	Oxygen Switching of the Epitaxial Graphene–Metal Interaction. <i>ACS Nano</i> , 2012, 6, 9551-9558.	14.6	195
4	Ubiquitous formation of bulk Dirac cones and topological surface states from a single orbital manifold in transition-metal dichalcogenides. <i>Nature Materials</i> , 2018, 17, 21-28.	27.5	144
5	Fermiology and Superconductivity of Topological Surface States in $\text{PdTe}_{2\frac{8}{107}}$. <i>Physical Review Letters</i> , 2018, 120, 156401.		
6	Maximal Rashba-like spin splitting via kinetic-energy-coupled inversion-symmetry breaking. <i>Nature</i> , 2017, 549, 492-496.	27.8	105
7	Spin–valley locking in the normal state of a transition-metal dichalcogenide superconductor. <i>Nature Communications</i> , 2016, 7, 11711.	12.8	85
8	Direct observation of a uniaxial stress-driven Lifshitz transition in Sr ₂ RuO ₄ . <i>Npj Quantum Materials</i> , 2019, 4,	5.2	54
9	Unconventional magneto-transport in ultrapure PdCoO ₂ and PtCoO ₂ . <i>Npj Quantum Materials</i> , 2018, 3, .	5.2	46
10	Orbital- and -Selective Hybridization of Se $\text{Pd}_{4\frac{1}{2}}$ and Ti $\text{Pd}_{3\frac{1}{2}}$. <i>Npj Quantum Materials</i> , 2018, 3, .	7.8	46
11	Itinerant ferromagnetism of the Pd-terminated polar surface of PdCoO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12956-12960.	7.1	45
12	Kinks in the Band of Graphene Induced by Electron-Phonon Coupling. <i>Physical Review Letters</i> , 2013, 111, 216806.	7.8	36
13	Strong electron-phonon coupling in the band of graphene. <i>Physical Review B</i> , 2017, 95,	3.2	27
14	Electron–phonon coupling in quasi-free-standing graphene. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 094001.	1.8	25
15	Electrically driven spin-reorientation transition of the correlated polar metal Ca ₃ Ru ₂ O ₇ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15524-15529.	7.1	25
16	Proximity-induced ferromagnetism and chemical reactivity in few-layer heterostructures. <i>Physical Review B</i> , 2020, 101, .	3.2	25
17	Probing spin correlations using angle-resolved photoemission in a coupled metallic/Mott insulator system. <i>Science Advances</i> , 2020, 6, eaaz0611.	10.3	24
18	Direct observation of the energy gain underpinning ferromagnetic superexchange in the electronic structure of $\text{CrGeTe}_{3\frac{2}{23}}$. <i>Physical Review B</i> , 2020, 101, .		

#	ARTICLE	IF	CITATIONS
19	Morphology control of epitaxial monolayer transition metal dichalcogenides. Physical Review Materials, 2020, 4, .	2.4	23
20	Valley Splitting in a Silicon Quantum Device Platform. Nano Letters, 2014, 14, 1515-1519.	9.1	18
21	Photoemission investigation of oxygen intercalated epitaxial graphene on Ru(0001). Surface Science, 2018, 678, 57-64.	1.9	18
22	Disentangling phonon and impurity interactions in $\tilde{\Gamma}$ -doped Si(001). Applied Physics Letters, 2014, 104, 173108.	3.3	16
23	Dual quantum confinement and anisotropic spin splitting in the multivalley semimetal PtSe_2 . Physical Review B, 2019, 99, .	3.3	16
24	The sub-band structure of atomically sharp dopant profiles in silicon. Npj Quantum Materials, 2020, 5, .	5.2	15
25	A general route to form topologically-protected surface and bulk Dirac fermions along high-symmetry lines. Electronic Structure, 2019, 1, 014002.	2.8	14
26	Weyl-like points from band inversions of spin-polarised surface states in NbGeSb. Nature Communications, 2019, 10, 5485.	12.8	14
27	Tunable electron-magnon coupling of ferromagnetic surface states in PdCoO ₂ . Npj Quantum Materials, 2022, 7, .	5.2	12
28	Determining the Electronic Confinement of a Subsurface Metallic State. ACS Nano, 2014, 8, 10223-10228.	14.6	11
29	Graphene coatings for chemotherapy: avoiding silver-mediated degradation. 2D Materials, 2015, 2, 025004.	4.4	11
30	Strong-coupling charge density wave in monolayer TiSe ₂ . 2D Materials, 2021, 8, 015004.	4.4	9
31	<i>In Situ</i> Patterning of Ultrasharp Dopant Profiles in Silicon. ACS Nano, 2017, 11, 1683-1688.	14.6	7
32	Simultaneous Conduction and Valence Band Quantization in Ultrashallow High-Density Doping Profiles in Semiconductors. Physical Review Letters, 2018, 120, 046403.	7.8	7
33	Changes of Fermi surface topology due to the rhombohedral distortion in SnTe. Physical Review B, 2020, 102, .	3.2	7
34	Quasi-two-dimensional Fermi surface topography of the delafossite PdRhO_2 . Physical Review B, 2017, 96, .	3.2	7
35	Adsorbate-Induced Modification of the Confining Barriers in a Quantum Box Array. ACS Nano, 2018, 12, 768-778.	14.6	6
36	Surface and bulk electronic structure of aluminium diboride. Physical Review B, 2020, 102, .	3.2	6

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37	Disentangling Structural and Electronic Properties in V ₂ O ₃ Thin Films: A Genuine Nonsymmetry Breaking Mott Transition. <i>Nano Letters</i> , 2022, 22, 5990-5996.	9.1	6
38	Resonant photoemission spectroscopy for intermediate band materials. <i>Applied Physics Letters</i> , 2015, 107, 192104.	3.3	5
39	Degradation of the chemotherapy drug 5-fluorouracil on medical-grade silver surfaces. <i>Applied Surface Science</i> , 2018, 435, 1213-1219.	6.1	5
40	Phonon-induced linewidths of graphene electronic states. <i>Physical Review B</i> , 2018, 98, .	3.2	5
41	The occupied electronic structure of ultrathin boron doped diamond. <i>Nanoscale Advances</i> , 2020, 2, 1358-1364.	4.6	5
42	Tautomerization of Thymine Using Ultraviolet Light. <i>Langmuir</i> , 2017, 33, 9666-9672.	3.5	4
43	Measuring spin-polarized electronic states of quantum materials: NbSe_2 . Physical Review B, 2021, 103, .	3.2	4
44	Thermal migration of alloying agents in aluminium. <i>Materials Research Express</i> , 2016, 3, 116501.	1.6	3
45	Publisherâ€™s Note: Kinks in the Band of Graphene Induced by Electron-Phonon Coupling [Phys. Rev. Lett. 111 , 216806 (2013)]. <i>Physical Review Letters</i> , 2013, 111, .	7.8	2
46	Robust p-type doping of copper oxide using nitrogen implantation. <i>Materials Research Express</i> , 2017, 4, 075905.	1.6	2
47	Accelerated ageing of molybdenum oxide. <i>Materials Research Express</i> , 2017, 4, 115502.	1.6	2