

# 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	Tuneable electron-magnon coupling of ferromagnetic surface states in PdCoO <sub>2</sub> . Npj Quantum Materials, 2022, 7, .	5.2	12
2	Disentangling Structural and Electronic Properties in V <sub>2</sub> O <sub>3</sub> Thin Films: A Genuine Nonsymmetry Breaking Mott Transition. Nano Letters, 2022, 22, 5990-5996.	9.1	6
3	Measuring spin-polarized electronic states of quantum materials: $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\alpha}^{\gamma} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math variant="normal"} \rangle \text{NbSe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle . \text{Physical Review B, 2021, 103, .}$	3.2	4
4	Strong-coupling charge density wave in monolayer TiSe <sub>2</sub> . 2D Materials, 2021, 8, 015004.	4.4	9
5	Surface and bulk electronic structure of aluminium diboride. Physical Review B, 2020, 102, .	3.2	6
6	Changes of Fermi surface topology due to the rhombohedral distortion in SnTe. Physical Review B, 2020, 102, .	3.2	7
7	Direct observation of the energy gain underpinning ferromagnetic superexchange in the electronic structure of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{CrGeTe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle . \text{Physical Review B, 2020, 101, .}$	3.2	23
8	Electronically driven spin-reorientation transition of the correlated polar metal Ca <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15524-15529.	7.1	25
9	The sub-band structure of atomically sharp dopant profiles in silicon. Npj Quantum Materials, 2020, 5, .	5.2	15
10	Probing spin correlations using angle-resolved photoemission in a coupled metallic/Mott insulator system. Science Advances, 2020, 6, eaaz0611.	10.3	24
11	The occupied electronic structure of ultrathin boron doped diamond. Nanoscale Advances, 2020, 2, 1358-1364.	4.6	5
12	Proximity-induced ferromagnetism and chemical reactivity in few-layer $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{VSe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{heterostructures. Physical Review B, 2020, 101, .}$	3.2	25
13	Morphology control of epitaxial monolayer transition metal dichalcogenides. Physical Review Materials, 2020, 4, .	2.4	23
14	Direct observation of a uniaxial stress-driven Lifshitz transition in Sr <sub>2</sub> RuO <sub>4</sub> . Npj Quantum Materials, 2019, 4, .	5.2	54
15	Dual quantum confinement and anisotropic spin splitting in the multivalley semimetal $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{PtSe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Orbital and spin-orbit coupling induced topological phase transition in \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{PtSe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$	3.2	23
16	Selective Hybridization of Se $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ and Ti $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{d} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$	7.8	46
17	A general route to form topologically-protected surface and bulk Dirac fermions along high-symmetry lines. Electronic Structure, 2019, 1, 014002.	2.8	14
18	Weyl-like points from band inversions of spin-polarised surface states in NbGeSb. Nature Communications, 2019, 10, 5485.	12.8	14

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19	Fermiology and Superconductivity of Topological Surface States in $\text{PdTe}$ . Physical Review Letters, 2018, 120, 156401.	7.8	107
20	Simultaneous Conduction and Valence Band Quantization in Ultrashallow High-Density Doping Profiles in Semiconductors. Physical Review Letters, 2018, 120, 046403.	7.8	7
21	Degradation of the chemotherapy drug 5-fluorouracil on medical-grade silver surfaces. Applied Surface Science, 2018, 435, 1213-1219.	6.1	5
22	Adsorbate-Induced Modification of the Confining Barriers in a Quantum Box Array. ACS Nano, 2018, 12, 768-778.	14.6	6
23	Photoemission investigation of oxygen intercalated epitaxial graphene on Ru(0001). Surface Science, 2018, 678, 57-64.	1.9	18
24	Unconventional magneto-transport in ultrapure $\text{PdCoO}_2$ and $\text{PtCoO}_2$ . Npj Quantum Materials, 2018, 3, .	5.2	46
25	Phonon-induced linewidths of graphene electronic states. Physical Review B, 2018, 98, .	3.2	5
26	Itinerant ferromagnetism of the Pd-terminated polar surface of $\text{PdCoO}_2$ . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12956-12960.	7.1	45
27	Ubiquitous formation of bulk Dirac cones and topological surface states from a single orbital manifold in transition-metal dichalcogenides. Nature Materials, 2018, 17, 21-28.	27.5	144
28	Electronic Structure and Enhanced Charge-Density Wave Order of Monolayer $\text{VSe}_2$ . Nano Letters, 2018, 18, 4493-4499.	9.1	200
29	Strong electron-phonon coupling in the $\tilde{\Gamma}_f$ band of graphene. Physical Review B, 2017, 95, .	3.2	27
30	<i>In Situ</i> Patterning of Ultrasharp Dopant Profiles in Silicon. ACS Nano, 2017, 11, 1683-1688.	14.6	7
31	Robust p-type doping of copper oxide using nitrogen implantation. Materials Research Express, 2017, 4, 075905.	1.6	2
32	Maximal Rashba-like spin splitting via kinetic-energy-coupled inversion-symmetry breaking. Nature, 2017, 549, 492-496.	27.8	105
33	Accelerated ageing of molybdenum oxide. Materials Research Express, 2017, 4, 115502.	1.6	2
34	Tautomerization of Thymine Using Ultraviolet Light. Langmuir, 2017, 33, 9666-9672.	3.5	4
35	Quasi-two-dimensional Fermi surface topography of the delafossite $\text{PdRhO}_2$ . Physical Review B, 2017, 96, .	3.2	2
36	Spin-valley locking in the normal state of a transition-metal dichalcogenide superconductor. Nature Communications, 2016, 7, 11711.	12.8	85

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37	Thermal migration of alloying agents in aluminium. <i>Materials Research Express</i> , 2016, 3, 116501.	1.6	3
38	Resonant photoemission spectroscopy for intermediate band materials. <i>Applied Physics Letters</i> , 2015, 107, 192104.	3.3	5
39	Graphene coatings for chemotherapy: avoiding silver-mediated degradation. <i>2D Materials</i> , 2015, 2, 025004.	4.4	11
40	Disentangling phonon and impurity interactions in $\hat{\Gamma}$ -doped Si(001). <i>Applied Physics Letters</i> , 2014, 104, 173108.	3.3	16
41	Determining the Electronic Confinement of a Subsurface Metallic State. <i>ACS Nano</i> , 2014, 8, 10223-10228.	14.6	11
42	Valley Splitting in a Silicon Quantum Device Platform. <i>Nano Letters</i> , 2014, 14, 1515-1519.	9.1	18
43	Direct observation of spin-polarized bulk bands in an inversion-symmetric semiconductor. <i>Nature Physics</i> , 2014, 10, 835-839.	16.7	271
44	Kinks in the $\Gamma$ -Band of Graphene Induced by Electron-Phonon Coupling. <i>Physical Review Letters</i> , 2013, 111, 216806.	7.8	36
45	Electron-phonon coupling in quasi-free-standing graphene. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 094001.	1.8	25
46	Publisher's Note: Kinks in the $\Gamma$ -Band of Graphene Induced by Electron-Phonon Coupling [ <i>Phys. Rev. Lett.</i> <b>111</b> , 216806 (2013)]. <i>Physical Review Letters</i> , 2013, 111, .	7.8	2
47	Oxygen Switching of the Epitaxial Graphene-Metal Interaction. <i>ACS Nano</i> , 2012, 6, 9551-9558.	14.6	195