

Turan Birol

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

1,224

citations

19

h-index

33

g-index

72

ext. papers

1,625

ext. citations

7.6

avg, IF

4.91

L-index

#	Paper	IF	Citations
63	Strain-tunable metamagnetic critical endpoint in Mott insulating rare-earth titanates. <i>Physical Review B</i> , 2022 , 105,	3.3	1
62	What controls electrostatic vs electrochemical response in electrolyte-gated materials? A perspective on critical materials factors. <i>APL Materials</i> , 2022 , 10, 040901	5.7	3
61	Uniaxial Strain Control of Bulk Ferromagnetism in Rare-Earth Titanates.. <i>Physical Review Letters</i> , 2022 , 128, 167201	7.4	0
60	Theory of the charge density wave in AV ₃ Sb ₅ kagome metals. <i>Physical Review B</i> , 2021 , 104,	3.3	7
59	Revealing the competition between charge density wave and superconductivity in CsV ₃ Sb ₅ through uniaxial strain. <i>Physical Review B</i> , 2021 , 104,	3.3	7
58	Chemical bonding and Born charge in 1T-HfS ₂ . <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	3
57	Dopant Segregation Inside and Outside Dislocation Cores in Perovskite BaSnO and Reconstruction of the Local Atomic and Electronic Structures. <i>Nano Letters</i> , 2021 , 21, 4357-4364	11.5	4
56	Two-component electronic phase separation in the doped Mott insulator Y _{1-x} CaxTiO ₃ . <i>Physical Review B</i> , 2021 , 104,	3.3	3
55	Paul et al. Reply. <i>Physical Review Letters</i> , 2021 , 127, 049702	7.4	
54	Free-Carrier-Induced Ferroelectricity in Layered Perovskites. <i>Physical Review Letters</i> , 2021 , 127, 087601	7.4	1
53	Electronic correlations in the semiconducting half-Heusler compound FeVSb. <i>Physical Review B</i> , 2021 , 103,	3.3	2
52	SrNbO ₃ as a transparent conductor in the visible and ultraviolet spectra. <i>Communications Physics</i> , 2020 , 3,	5.4	27
51	Multiferroic behavior in EuTiO ₃ films constrained by symmetry. <i>Physical Review B</i> , 2020 , 101,	3.3	1
50	Sputtered SrNbO as a UV-Transparent Conducting Film. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30520-30529	9.5	14
49	Strain-induced majority carrier inversion in ferromagnetic epitaxial LaCoO ₃ /thin films. <i>Physical Review Materials</i> , 2020 , 4,	3.2	4
48	Contrasting ferromagnetism in pyrite FeS ₂ induced by chemical doping versus electrostatic gating. <i>Physical Review Materials</i> , 2020 , 4,	3.2	3
47	Cation order control of correlations in double perovskite Sr ₂ VNbO ₆ . <i>Physical Review Research</i> , 2020 , 2,	3.9	4

46	Coexistence and Interaction of Spinons and Magnons in an Antiferromagnet with Alternating Antiferromagnetic and Ferromagnetic Quantum Spin Chains. <i>Physical Review Letters</i> , 2020 , 125, 037204	7.4	0
45	Voltage-induced ferromagnetism in a diamagnet. <i>Science Advances</i> , 2020 , 6, eabb7721	14.3	18
44	The Catalytic Mechanics of Dynamic Surfaces: Stimulating Methods for Promoting Catalytic Resonance. <i>ACS Catalysis</i> , 2020 , 10, 12666-12695	13.1	18
43	Suppressing the ferroelectric switching barrier in hybrid improper ferroelectrics. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	3
42	Spin-lattice Coupling and the Emergence of the Trimerized Phase in the S=1 Kagome Antiferromagnet $\text{Na}_2\text{Ti}_3\text{Cl}_8$. <i>Physical Review Letters</i> , 2020 , 124, 167203	7.4	5
41	Applications of DFT + DMFT in Materials Science. <i>Annual Review of Materials Research</i> , 2019 , 49, 31-52	12.8	18
40	Spin-lattice and electron-phonon coupling in 3d/5d hybrid $\text{Sr}_3\text{NiIrO}_6$. <i>Npj Quantum Materials</i> , 2019 , 4,	5	2
39	Catalytic resonance theory: superVolcanoes, catalytic molecular pumps, and oscillatory steady state. <i>Catalysis Science and Technology</i> , 2019 , 9, 5058-5076	5.5	20
38	Strain tuning of plasma frequency in vanadate, niobate, and molybdate perovskite oxides. <i>Physical Review Materials</i> , 2019 , 3,	3.2	8
37	Visualizing the metal-MoS ₂ contacts in two-dimensional field-effect transistors with atomic resolution. <i>Physical Review Materials</i> , 2019 , 3,	3.2	13
36	Phonon Softening due to Melting of the Ferromagnetic Order in Elemental Iron. <i>Physical Review Letters</i> , 2018 , 120, 187203	7.4	14
35	Engineering SrSnO Phases and Electron Mobility at Room Temperature Using Epitaxial Strain. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43802-43808	9.5	25
34	High-pressure spectroscopic investigation of multiferroic Ni_3TeO_6 . <i>Physical Review B</i> , 2018 , 98,	3.3	3
33	Nature of the magnetic interactions in $\text{Sr}_3\text{NiIrO}_6$. <i>Physical Review B</i> , 2018 , 98,	3.3	4
32	Phase stability and large in-plane resistivity anisotropy in the 112-type iron-based superconductor $\text{Ca}_{1-x}\text{La}_x\text{FeAs}_2$. <i>Physical Review B</i> , 2017 , 95,	3.3	11
31	Role of entropy and structural parameters in the spin-state transition of LaCoO_3 . <i>Physical Review Materials</i> , 2017 , 1,	3.2	17
30	Ion-gel-gating-induced oxygen vacancy formation in epitaxial $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ films from in operando x-ray and neutron scattering. <i>Physical Review Materials</i> , 2017 , 1,	3.2	37
29	Structural and magnetic phase transitions in $\text{Ca}_{0.73}\text{La}_{0.27}\text{FeAs}_2$ with electron-overdoped FeAs layers. <i>Physical Review B</i> , 2016 , 93,	3.3	31

28	Publisher's Note: Structural and magnetic phase transitions in $\text{Ca}_{0.73}\text{La}_{0.27}\text{FeAs}_2$ with electron-overdoped FeAs layers [Phys. Rev. B 93, 054522 (2016)]. <i>Physical Review B</i> , 2016 , 93,	3.3	2
27	Magnetically induced phonon splitting in ACr_2O_4 spinels from first principles. <i>Physical Review B</i> , 2016 , 93,	3.3	8
26	Ferroelectric metals reexamined: fundamental mechanisms and design considerations for new materials. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4000-4015	7.1	91
25	Electromagnon dispersion probed by inelastic X-ray scattering in LiCrO . <i>Nature Communications</i> , 2016 , 7, 13547	17.4	18
24	Atomic scale imaging of competing polar states in a Ruddlesden-Popper layered oxide. <i>Nature Communications</i> , 2016 , 7, 12572	17.4	17
23	Optical spectroscopy and band gap analysis of hybrid improper ferroelectric $\text{Ca}_3\text{Ti}_2\text{O}_7$. <i>Applied Physics Letters</i> , 2016 , 108, 262901	3.4	19
22	Guided design of copper oxysulfide superconductors. <i>Europhysics Letters</i> , 2015 , 111, 17002	1.6	7
21	Raman study of magnetic excitations and magnetoelastic coupling in ErCr_2O_4 . <i>Physical Review B</i> , 2015 , 91,	3.3	7
20	Free Energy from Stationary Implementation of the DFT+DMFT Functional. <i>Physical Review Letters</i> , 2015 , 115, 256402	7.4	61
19	$J(\text{eff})=1/2$ Mott-insulating state in Rh and Ir fluorides. <i>Physical Review Letters</i> , 2015 , 114, 096403	7.4	20
18	Evidence for topologically protected surface states and a superconducting phase in $[\text{Tl}_4](\text{Tl}(1-x)\text{Sn}(x))\text{Te}_3$ using photoemission, specific heat, and magnetization measurements, and density functional theory. <i>Physical Review Letters</i> , 2014 , 112, 017002	7.4	27
17	Covalency in transition-metal oxides within all-electron dynamical mean-field theory. <i>Physical Review B</i> , 2014 , 90,	3.3	48
16	Series of alternating states with unpolarized and spin-polarized bands in dimerized IrTe_2 . <i>Physical Review B</i> , 2014 , 90,	3.3	18
15	Influence of the central mode and soft phonon on the microwave dielectric loss near the strain-induced ferroelectric phase transitions in $\text{Sr}_{n+1}\text{Ti}_n\text{O}_{3n+1}$. <i>Physical Review B</i> , 2014 , 90,	3.3	9
14	Dimerization-Induced Cross-Layer Quasi-Two-Dimensionality in Metallic IrTe_2 . <i>Physical Review Letters</i> , 2014 , 112,	7.4	66
13	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. <i>Nature</i> , 2013 , 502, 532-6	50.4	170
12	Structural control of magnetic anisotropy in a strain-driven multiferroic EuTiO_3 thin film. <i>Physical Review B</i> , 2013 , 88,	3.3	17
11	Origin of giant spin-lattice coupling and the suppression of ferroelectricity in EuTiO_3 from first principles. <i>Physical Review B</i> , 2013 , 88,	3.3	34

10	Reversible control of magnetic interactions by electric field in a single-phase material. <i>Nature Communications</i> , 2013 , 4, 1334	17.4	62
9	Effect of film thickness and biaxial strain on the curie temperature of EuO. <i>Applied Physics Letters</i> , 2013 , 102, 062404	3.4	20
8	Magnetodielectric effect and phonon properties of compressively strained EuTiO ₃ thin films deposited on (001)(LaAlO ₃) _{0.29} -(SrAl _{1/2} Ta _{1/2} O ₃) _{0.71} . <i>Physical Review B</i> , 2012 , 85,	3.3	19
7	The magnetoelectric effect in transition metal oxides: Insights and the rational design of new materials from first principles. <i>Current Opinion in Solid State and Materials Science</i> , 2012 , 16, 227-242	12	54
6	Publisher's Note: Interface Control of Emergent Ferroic Order in Ruddlesden-Popper Sr _{n+1} Ti _n O _{3n+1} [Phys. Rev. Lett. 107, 257602 (2011)]. <i>Physical Review Letters</i> , 2012 , 108,	7.4	2
5	Interface control of emergent ferroic order in Ruddlesden-Popper Sr _(n+1) Ti _(n) O _(3n+1) . <i>Physical Review Letters</i> , 2011 , 107, 257602	7.4	64
4	Phase Diffusion of a q-Deformed Oscillator. <i>Symmetry</i> , 2009 , 1, 240-251	2.7	0
3	Spin torque from tunneling through impurities in a magnetic tunnel junction. <i>Physical Review B</i> , 2009 , 80,	3.3	5
2	Effects of zero mode and thin spectrum on the life time of atomic Bose Einstein condensates. <i>European Physical Journal: Special Topics</i> , 2008 , 160, 11-22	2.3	1
1	Coherence lifetimes of excitations in an atomic condensate due to the thin spectrum. <i>Physical Review A</i> , 2007 , 76,	2.6	9