

E Ward Plummer

List of Publications by Year in descending order

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56
papers

2,509
citations

257450

24
h-index

189892

50
g-index

56
all docs

56
docs citations

56
times ranked

3255
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic oxygen in transition metal oxides: A case study of Ba ₂ CoO ₄ . Journal of Physics and Chemistry of Solids, 2021, 150, 109803.	4.0	2
2	Formation of dislocations via misfit strain across interfaces in epitaxial BaTiO ₃ and SrIrO ₃ heterostructures. Journal of Physics Condensed Matter, 2021, 33, 275003.	1.8	4
3	Visualizing quantum phenomena at complex oxide interfaces: An atomic view from scanning transmission electron microscopy. Frontiers of Physics, 2020, 15, 1.	5.0	5
4	Emergent Spin Glass Behavior Created by Self-Assembled Antiferromagnetic NiO Columns in Ferrimagnetic NiFe ₂ O ₄ . ACS Applied Materials & Interfaces, 2020, 12, 38788-38795.	8.0	5
5	Evidence for topological semimetallicity in a chain-compound TaSe ₃ . Npj Quantum Materials, 2020, 5, .	5.2	20
6	Role of disorder and correlations in the metal-insulator transition in ultrathin SrVO ₃ films. Physical Review B, 2019, 100, .	3.2	17
7	Probing the Interfacial Symmetry Using Rotational Second-Harmonic Generation in Oxide Heterostructures. Journal of Physical Chemistry C, 2019, 123, 23000-23006.	3.1	5
8	Atomic-scale determination of spontaneous magnetic reversal in oxide heterostructures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10309-10316.	7.1	18
9	Fermions and bosons in nonsymmorphic PdSb ₂ with sixfold degeneracy. Physical Review B, 2019, 99, .	3.2	21
10	Observing a previously hidden structural-phase transition onset through heteroepitaxial cap response. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4141-4146.	7.1	11
11	Enhanced Superconducting State in FeSe/SrTiO ₃ by a Dynamic Interfacial Polaron Mechanism. Physical Review Letters, 2019, 122, 066802.	3.1	18
12	Raman interrogation of the ferroelectric phase transition in polar metal LiOsO ₃ . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20322-20327.	7.1	21
13	Interface-induced magnetic polar metal phase in complex oxides. Nature Communications, 2019, 10, 5248.	12.8	35
14	Tribute to Hai-Lung Dai. Journal of Physical Chemistry A, 2019, 123, 10463-10464.	2.5	0
15	Rumpling and Enhanced Covalency at the SrTiO ₃ (001) Surface. Journal of Physical Chemistry C, 2019, 123, 8086-8091.	3.1	20
16	Surface and interface properties of La ₂ SrCu ₂ O ₇ . Physical Review B, 2019, 100, 080401.	2.4	16
17	Exchange bias and inverted hysteresis in monolithic oxide films by structural gradient. Physical Review Research, 2019, 1, .	3.6	5
18	Lattice dynamics of ultrathin FeSe films on SrTiO ₃ . Physical Review B, 2018, 97, .	3.2	26

#	ARTICLE	IF	CITATIONS
19	Designing antiphase boundaries by atomic control of heterointerfaces. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9485-9490.	7.1	43
20	Ultrafast Carrier Dynamics in Self-Assembled $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3/\text{SrTiO}_3$ Heterostructures. , 2018, , .		0
21	Nontrivial Berry phase in magnetic BaMnSb semimetal. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6256-6261.	7.1	71
22	Interface-induced multiferroism by design in complex oxide superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5062-E5069.	7.1	42
23	Interfacial coupling and polarization of perovskite ABO_3 heterostructures. , 2017, , .		0
24	Surface phases of the transition-metal dichalcogenide IrTe_2 . Physical Review B, 2017, 95, .	3.2	20
25	Anomalous Acoustic Plasmon Mode from Topologically Protected States. Physical Review Letters, 2017, 119, 136805.	7.8	41
26	Manganese-induced magnetic symmetry breaking and its correlation with the metal-insulator transition in bilayered $\text{Sr}_3(\text{Ru}^{1-x}\text{Mn}_x)\text{O}_7$. Physical Review B, 2017, 95, .	3.2	3
27	Predicting hidden bulk phases from surface phases in bilayered $\text{Sr}_3\text{Ru}_2\text{O}_7$. Scientific Reports, 2017, 7, 10265.	3.3	7
28	Misconceptions associated with the origin of charge density waves. Advances in Physics: X, 2017, 2, 622-640.	4.1	61
29	δ -Doping of oxygen vacancies dictated by thermodynamics in epitaxial SrTiO_3 films. AIP Advances, 2017, 7, .	1.3	9
30	Role of SrTiO_3 penetrating into thin FeSe films in the enhancement of superconductivity. Physical Review B, 2016, 94, .	3.2	7
31	Polar compensation at the surface of SrTiO_3 (111). Physical Review B, 2016, 93, .	3.2	6
32	Anomalously deep polarization in SrTiO_3 (001) interfaced with an epitaxial ultrathin manganite film. Physical Review B, 2016, 94, .	3.2	14
33	Hidden phases revealed at the surface of double-layered $\text{Sr}_3(\text{Ru}^{1-x}\text{Mn}_x)\text{O}_7$. Physical Review B, 2016, 94, .	3.2	7
34	Giant magneto-optical Raman effect in a layered transition metal compound. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2349-2353.	7.1	24
35	Origin of the metal-insulator transition in ultrathin films of SrTiO_3 . Physical Review B, 2016, 93, .	3.2	80
36	High resolution electron energy loss spectroscopy with two-dimensional energy and momentum mapping. Review of Scientific Instruments, 2015, 86, 083902.	1.3	36

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37	Classification of charge density waves based on their nature. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2367-2371.	7.1	241
38	Tantalus, the First Dedicated Synchrotron Radiation Source. Synchrotron Radiation News, 2015, 28, 20-23.	0.8	6
39	Defect-Driven Restructuring of TiO ₂ Surface and Modified Reactivity Toward Deposited Gold Atoms. Catalysts, 2013, 3, 276-287.	3.5	5
40	Atomic-Scale Fingerprint of Mn Dopant at the Surface of Sr ₃ (Ru _{1-x} Mn _x) ₂ O ₇ . Scientific Reports, 2013, 3, 2882.	3.3	18
41	Structure-property coupling in Sr ₂ Fe ₂ As ₂ single bilayer E-type antiferromagnetism in Mn-substituted Sr ₂ Fe ₂ As ₂ . Scientific Reports, 2013, 3, 2882.	3.2	26
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#	ARTICLE	IF	CITATIONS
55	Influence of Multielectron Excitations on the Band Structure of Adsorbate Overlayers. Physical Review Letters, 1983, 50, 768-771.	7.8	72
56	Explanation of the satellite structure observed in the photoemission spectra of coordinated CO. Physical Review B, 1981, 23, 4859-4878.	3.2	121