

E Ward Plummer

List of Publications by Year in descending order

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Version: 2024-02-01

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	Direct observation of a surface charge density wave. Nature, 1996, 381, 398-400.	27.8	340
2	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
3	Surface Charge Ordering Transition: \pm Phase of Sn/Ge(111). Physical Review Letters, 1997, 79, 2859-2862.	7.8	219
4	Ferromagnetism Stabilized by Lattice Distortion at the Surface of the p-Wave Superconductor Sr ₂ RuO ₄ . Science, 2000, 289, 746-748.	12.6	211
5	Explanation of the satellite structure observed in the photoemission spectra of coordinated CO. Physical Review B, 1981, 23, 4859-4878.	3.2	121
6	Can Pulsed Laser Excitation of Surfaces Be Described by a Thermal Model?. Physical Review Letters, 1988, 61, 2588-2591.	7.8	118
7	Origin of the metal-insulator transition in ultrathin films of $L_{a-x}S_{x-2}O_{7-x}$. Physical Review Letters, 1988, 61, 1380-1383.	3.2	80
8	Dynamical Screening at a Metal Surface Probed by Second-Harmonic Generation. Physical Review Letters, 1988, 61, 1380-1383.	7.8	79
9	Role of $SrTiO_3$ in penetrating into thin FeSe films in the enhancement of superconductivity. Physical Review B, 2016, 94, .	7.1	71
10	Influence of Multielectron Excitations on the Band Structure of Adsorbate Overlayers. Physical Review Letters, 1983, 50, 768-771.	7.8	72
11	Nontrivial Berry phase in magnetic BaMnSb $\times 2$ semimetal. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6256-6261.	7.1	71
12	A Surface-Tailored, Purely Electronic, Mott Metal-to-Insulator Transition. Science, 2007, 318, 615-619.	12.6	67
13	Misconceptions associated with the origin of charge density waves. Advances in Physics: X, 2017, 2, 622-640.	4.1	61
14	Tunable Metallicity of the $La_{1-x}Sr_xO_{3-x}$ system. Physical Review Letters, 2019, 122, 066104.	7.1	43
15	Enhanced Superconducting State in $FeSe_{1-x}S_x$ by a Dynamic Interfacial Polaron Mechanism. Physical Review Letters, 2019, 122, 066802.	7.1	43
16	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
17	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
18	Anomalous Acoustic Plasmon Mode from Topologically Protected States. Physical Review Letters, 2017, 119, 136805.	7.8	41

#	ARTICLE	IF	CITATIONS
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19	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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20	Interface-induced magnetic polar metal phase in complex oxides. Nature Communications, 2019, 10, 5248. Structure-property coupling in Sr $\langle \text{mml:msub} \rangle \langle \text{mml:mrow}$	12.8	35
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#	ARTICLE	IF	CITATIONS
37	Direct Determination of the Electron-Phonon Coupling Matrix Element in a Correlated System. Physical Review Letters, 2010, 105, 256402.	7.8	14
38	Anomalously deep polarization in SrTiO_3 (001) interfaced with an epitaxial ultrathin manganite film. Physical Review B, 2016, 94, .	3.2	14
39	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
40	Surface lattice dynamics of layered transition metal oxides: Sr_2RuO_4 and $\text{La}_{0.5}\text{Sr}_{1.5}\text{MnO}_4$. Physical Review B, 2003, 67, .	3.2	10
41	δ -Doping of oxygen vacancies dictated by thermodynamics in epitaxial SrTiO_3 films. AIP Advances, 2017, 7, .	1.3	9
42	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
43	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
44	Tantalus, the First Dedicated Synchrotron Radiation Source. Synchrotron Radiation News, 2015, 28, 20-23.	0.8	6
45	Polar compensation at the surface of SrTiO_3 (111). Physical Review B, 2016, 93, .	3.2	6
46	Defect-Driven Restructuring of TiO_2 Surface and Modified Reactivity Toward Deposited Gold Atoms. Catalysts, 2013, 3, 276-287.	3.5	5
47	Probing the Interfacial Symmetry Using Rotational Second-Harmonic Generation in Oxide Heterostructures. Journal of Physical Chemistry C, 2019, 123, 23000-23006.	3.1	5
48	Visualizing quantum phenomena at complex oxide interfaces: An atomic view from scanning transmission electron microscopy. Frontiers of Physics, 2020, 15, 1.	5.0	5
49	Emergent Spin Glass Behavior Created by Self-Assembled Antiferromagnetic NiO Columns in Ferrimagnetic NiFe_2O_4 . ACS Applied Materials & Interfaces, 2020, 12, 38788-38795.	8.0	5
50	Exchange bias and inverted hysteresis in monolithic oxide films by structural gradient. Physical Review Research, 2019, 1, .	3.6	5
51	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
52	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
53	Magnetic oxygen in transition metal oxides: A case study of Ba_2CoO_4 . Journal of Physics and Chemistry of Solids, 2021, 150, 109803.	4.0	2
54	Interfacial coupling and polarization of perovskite ABO_3 heterostructures. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
55	Tribute to Hai-Lung Dai. Journal of Physical Chemistry A, 2019, 123, 10463-10464.	2.5	0
56	Ultrafast Carrier Dynamics in Self-Assembled $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3/\text{SrTiO}_3$ Heterostructures. , 2018, , .		0