Ryan B Comes

List of Publications by Year
in descending order

40 papers	764 citations	471509 17 h-index	526287 27 g-index
41 all docs	41 docs citations	41 times ranked	1332 citing authors

#	Article	IF	Citations
1	Thickness dependent OER electrocatalysis of epitaxial LaFeO₃ thin films. Journal of Materials Chemistry A, 2022, 10, 1909-1918.	10.3	12
2	Engineering ordered arrangements of oxygen vacancies at the surface of superconducting La2CuO4 thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	2.1	9
3	Oxygen Reduction Electrocatalysis with Epitaxially Grown Spinel MnFe₂O₄ and Fe₃O₄. ACS Catalysis, 2022, 12, 3577-3588.	11.2	16
4	Electronic and structural properties of single-crystal Jahnâ€“Teller active Co_{1+x}Mn_{2âˆ’x}O₄ thin films. Journal of Physics Condensed Matter, 2021, 33, 124002.	1.8	3
5	Probing surfaces and interfaces in complex oxide films via in situ X-ray photoelectron spectroscopy. Journal of Materials Research, 2021, 36, 26-51.	2.6	25
6	Incorporation of Ti in epitaxial Fe2TiO4 thin films. Journal of Physics Condensed Matter, 2021, 33, 314004.	1.8	1
7	Examining Defect Creation at Interfaces in Electrocatalytically Cycled LaFeO3-SrTiO3 Thin Films. Microscopy and Microanalysis, 2021, 27, 1178-1179.	0.4	0
8	Correlating surface stoichiometry and termination in SrTiO3 films grown by hybrid molecular beam epitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	8
9	Probing surfaces and interfaces in complex oxide films via in situ X-ray photoelectron spectroscopy. Journal of Materials Research, 2021, 36, 1-26.	2.6	5
10	Self-regulated growth of candidate topological superconducting parkerite by molecular beam epitaxy. APL Materials, 2021, 9, 101110.	5.1	3
11	Machine learning analysis of perovskite oxides grown by molecular beam epitaxy. Physical Review Materials, 2020, 4, .	2.4	21
12	Structural, transport, and ultrafast dynamic properties of V1âˆ’xNbxO2 thin films. Physical Review B, 2019, 99, .	3.2	2
13	Evidence and Influence of Copper Vacancies in p-Type CuGaO₂ Mesoporous Films. ACS Applied Energy Materials, 2019, 2, 19-28.	5.1	30
14	Electronic Structure and Band Alignment of LaMnO₃/SrTiO₃ Polar/Nonpolar Heterojunctions. Advanced Materials Interfaces, 2019, 6, 1801428.	3.7	22
15	Probing the Origin of Interfacial Carriers in SrTiO₃â€“LaCrO₃ Superlattices. Chemistry of Materials, 2017, 29, 1147-1155.	6.7	19
16	Influence of LaFeO₃ Surface Termination on Water Reactivity. Journal of Physical Chemistry Letters, 2017, 8, 1038-1043.	4.6	60
17	The effects of core-level broadening in determining band alignment at the epitaxial SrTiO3(001)/p-Ge(001) heterojunction. Applied Physics Letters, 2017, 110, .	3.3	26
18	Heterogeneous Twoâ€Phase Pillars in Epitaxial NiFe₂O₄â€LaFeO₃ Nanocomposites. Advanced Materials Interfaces, 2017, 4, 1700396.	3.7	5

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19	Dynamic interface rearrangement in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LaFeO</mml:mi><mml:mn>3</mml:mn></m heterojunctions. Physical Review Materials, 2017, 1, .	2.4	23
20	Exchange bias and bistable magneto-resistance states in amorphous TbFeCo thin films. Applied Physics Letters, 2016, 108, .	3.3	12
21	Predictive Control over Charge Density in the Two-Dimensional Electron Gas at the Polar-Nonpolar<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>NdTiO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub>< Physical Review Letters, 2016, 117, 106803.	7.8	44
22	Interface Structure, Band Alignment, and Built-In Potentials at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LaFeO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn>< Heterojunctions. Physical Review Letters, 2016, 117, 226802.	7.8	42
23	Interfaceâ€Induced Polarization in SrTiO₃â€LaCrO₃ Superlattices. Advanced Materials Interfaces, 2016, 3, 1500779.	3.7	28
24	Infrared optical absorption in low-spin Fe²⁺-doped SrTiO₃. Journal of Physics Condensed Matter, 2016, 28, 035901.	1.8	7
25	Threshold Switching Characteristics of Nb/NbO₂/TiN Vertical Devices. IEEE Journal of the Electron Devices Society, 2016, 4, 11-14.	2.1	17
26	Band alignment of epitaxial SrTiO3 thin films with (LaAlO3)0.3-(Sr2AlTaO6)0.7 (001). Applied Physics Letters, 2015, 107, .	3.3	20
27	Visible light carrier generation in co-doped epitaxial titanate films. Applied Physics Letters, 2015, 106, 092901.	3.3	12
28	Microstructural effects of chemical island templating in patterned matrix-pillar oxide nanocomposites. CrystEngComm, 2015, 17, 2041-2049.	2.6	3
29	Epitaxial niobium dioxide thin films by reactive-biased target ion beam deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 021516.	2.1	28
30	L1â€² ordering: Evidence of L10â€“L12 hybridization in strained Fe38.5Pd61.5 epitaxial films. Acta Materialia, 2015, 85, 261-269.	7.9	12
31	Band-Gap Reduction and Dopant Interaction in Epitaxial La,Cr Co-doped SrTiO₃ Thin Films. Chemistry of Materials, 2014, 26, 7073-7082.	6.7	50
32	Electron molecular beam epitaxy: Layer-by-layer growth of complex oxides via pulsed electron-beam deposition. Journal of Applied Physics, 2013, 113, .	2.5	16
33	Structural, magnetic, and nanoscale switching properties of BiFeO3 thin films grown by pulsed electron deposition. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	1.2	5
34	Strain induced microstructural and ordering behaviors of epitaxial Fe38.5Pd61.5films grown by pulsed laser deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, 050824.	2.1	4
35	Magnetic anisotropy in composite CoFe2O4-BiFeO3 ultrathin films grown by pulsed-electron deposition. Journal of Applied Physics, 2012, 111, .	2.5	25
36	Directed Self-Assembly of Epitaxial CoFe₂O₄â€“BiFeO₃ Multiferroic Nanocomposites. Nano Letters, 2012, 12, 2367-2373.	9.1	113

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37	Microstructural and domain effects in epitaxial CoFe2O4 films on MgO with perpendicular magnetic anisotropy. Journal of Magnetism and Magnetic Materials, 2012, 324, 524-527.	2.3	21
38	RAMA. , 2011, , .		5
39	Analysis of Feature-Scale Wear in Chemical Mechanical Polishing: Modeling and Experiments. Tribology Letters, 2010, 37, 327-336.	2.6	6
40	Pad Deflection-Based Model of Chemicalâ€“Mechanical Polishing for Use in CAD IC Layout. IEEE Transactions on Semiconductor Manufacturing, 2010, 23, 121-131.	1.7	4