

Gertjan Koster

List of Publications by Year in descending order

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papers

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71102

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166
docs citations

166
times ranked

7159
citing authors

#	ARTICLE	IF	CITATIONS
1	Signatures of enhanced out-of-plane polarization in asymmetric BaTiO ₃ superlattices integrated on silicon. Nature Communications, 2022, 13, 265.	12.8	13
2	Growth studies of heteroepitaxial oxide thin films using reflection high-energy electron diffraction. , 2022, , 3-36.		1
3	Interface-induced effects on the polarization response of epitaxial ferroelectric thin filmsâ€”an experimental study and theoretical analysis. , 2022, , 137-155.		0
4	Hole Dynamics in Photoexcited Hematite Studied with Femtosecond Oxygen K-edge X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 4207-4214.	4.6	5
5	Observing structural distortions in complex oxides by x-ray photoelectron diffraction. Journal of Electron Spectroscopy and Related Phenomena, 2022, 257, 147201.	1.7	0
6	Enhancing the Energyâ€”Storage Density and Breakdown Strength in PbZrO ₃ /Pb _{0.9} La _{0.1} Zr _{0.52} Ti _{0.48} O ₃ â€”Derived Antiferroelectric/Relaxorâ€”Ferroelectric Multilayers. Advanced Energy Materials, 2022, 12, .	16.3	25
7	Growth mode and strain effect on relaxor ferroelectric domains in epitaxial 0.67Pb(Mg _{1/3} Nb _{2/3})O ₃ â€”0.33PbTiO ₃ /SrRuO ₃ heterostructures. RSC Advances, 2021, 11, 1222-1232.	3.6	7
8	Spatially Controlled Octahedral Rotations and Metalâ€”Insulator Transitions in Nickelate Superlattices. Nano Letters, 2021, 21, 1295-1302.	9.1	24
9	Interface degradation and field screening mechanism behind bipolar-cycling fatigue in ferroelectric capacitors. APL Materials, 2021, 9, .	5.1	6
10	Femtosecond Charge Density Modulations in Photoexcited CuWO ₄ . Journal of Physical Chemistry C, 2021, 125, 7329-7336.	3.1	6
11	Epitaxial ferroelectric oxides on silicon with perspectives for future device applications. APL Materials, 2021, 9, .	5.1	23
12	Epitaxial lift-off of freestanding (011) and (111) SrRuO ₃ thin films using a water sacrificial layer. Scientific Reports, 2021, 11, 12435.	3.3	17
13	Growth and Crystallization of SiO ₂ /GeO ₂ Thin Films on Si(100) Substrates. Nanomaterials, 2021, 11, 1654.	4.1	2
14	Tuning the metal insulator transition of vanadium dioxide on oxide nanosheets. Applied Physics Letters, 2021, 119, .	3.3	1
15	Reversible polarization switching in leaky ferroelectrics using an ionic gel induced electrostatic field effect. Applied Physics Letters, 2021, 119, .	3.3	1
16	Asymmetric Interfacial Intermixing Associated Magnetic Coupling in LaMnO ₃ /LaFeO ₃ Heterostructures. Frontiers in Physics, 2021, 9, .	2.1	2
17	Oxygen in Complex Oxide Thin Films Grown by Pulsed Laser Deposition: a Perspective. Journal of Superconductivity and Novel Magnetism, 2020, 33, 205-212.	1.8	7
18	Tailoring Vanadium Dioxide Film Orientation Using Nanosheets: a Combined Microscopy, Diffraction, Transport, and Soft Xâ€”Ray in Transmission Study. Advanced Functional Materials, 2020, 30, 1900028.	14.9	16

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19	Direct observation of the electronic states of photoexcited hematite with ultrafast 2p3d X-ray absorption spectroscopy and resonant inelastic X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2685-2692.	2.8	26
20	Growth mechanism of epitaxial SrTiO ₃ on a (1 $\bar{1}$ - 2) + (2 $\bar{1}$ - 1) reconstructed Sr(1/2 ML)/Si(001) surface. <i>Journal of Materials Chemistry C</i> , 2020, 8, 518-527.	5.5	13
21	On the Importance of the Work Function and Electron Carrier Density of Oxide Electrodes for the Functional Properties of Ferroelectric Capacitors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900520.	2.4	6
22	Strain-Engineered Metal-Insulator Transition and Orbital Polarization in Nickelate Superlattices Integrated on Silicon. <i>Advanced Materials</i> , 2020, 32, e2004995.	21.0	24
23	Atomic layer deposition of SiO ₂ /GeO ₂ multilayers. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	9
24	Metal-insulator transition of SrVO ₃ ultrathin films embedded in SrVO ₃ / SrTiO ₃ superlattices. <i>Applied Physics Letters</i> , 2020, 117, 133105.	3.3	7
25	Magnetic domain engineering in SrRuO ₃ thin films. <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	18
26	Simultaneous heteroepitaxial growth of SrO (001) and SrO (111) during strontium-assisted deoxidation of the Si (001) surface. <i>RSC Advances</i> , 2020, 10, 31261-31270.	3.6	1
27	Shape Control of Ca ₂ Nb ₃ O ₁₀ Nanosheets: Paving the Way for Monolithic Integration of Functional Oxides with CMOS. <i>ACS Applied Nano Materials</i> , 2020, 3, 9487-9493.	5.0	5
28	Integration of Single Oriented Oxide Superlattices on Silicon Using Various Template Techniques. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42925-42932.	8.0	8
29	Epitaxial growth of full range of compositions of (1 $\bar{1}$ 1 $\bar{1}$) PbZr ₁ -Ti O ₃ on GaN. <i>Journal of Crystal Growth</i> , 2020, 538, 125620.	1.5	4
30	Interfacial dielectric layer as an origin of polarization fatigue in ferroelectric capacitors. <i>Scientific Reports</i> , 2020, 10, 7310.	3.3	19
31	Thermal-strain-engineered ferromagnetism of $\text{LaMnO}_3/\text{SrTiO}_3$ heterostructures. <i>Advanced Materials</i> , 2020, 4, .	2.4	31
32	Covalence transformation in isopolar $\text{LaCoO}_3/\text{LaTiO}_3$ heterostructures via interfacial engineering. <i>Physical Review Materials</i> , 2020, 4, .	2.4	31
33	Stabilization of phase-pure rhombohedral HfZrO_4 in pulsed laser deposited thin films. <i>Physical Review Materials</i> , 2020, 4, .	2.4	31
34	Mapping unit-cell thickness variations in thin films by post-deposition reflection high-energy electron diffraction. <i>Physical Review Materials</i> , 2020, 4, .	2.4	3
35	Numerical modeling of the plasma plume propagation and oxidation during pulsed laser deposition of complex oxide thin films. <i>Physical Review Materials</i> , 2020, 4, .	2.4	2
36	Spin chirality fluctuation in two-dimensional ferromagnets with perpendicular magnetic anisotropy. <i>Nature Materials</i> , 2019, 18, 1054-1059.	27.5	85

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37	Asymmetric response of electrical conductivity and V valence state to strain in cation-deficient SrVO ₃ ultrathin films based on absorption measurements at the V L ₂ - and L ₃ -edges. Journal of Synchrotron Radiation, 2019, 26, 1687-1693.	2.4	4
38	Towards Oxide Electronics: a Roadmap. Applied Surface Science, 2019, 482, 1-93.	6.1	236
39	Stabilization of the Perovskite Phase in the YBaO System By Using a BaBiO ₃ Buffer Layer. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800679.	2.4	10
40	Growing a LaAlO ₃ /SrTiO ₃ heterostructure on Ca ₂ Nb ₃ O ₁₀ nanosheets. Scientific Reports, 2019, 9, 17617.	3.3	1
41	Atomic structure of Sr/Si(100)(1-2) surfaces prepared by Pulsed laser deposition. Applied Surface Science, 2019, 471, 664-669.	6.1	6
42	Hysteretic Characteristics of Pulsed Laser Deposited 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ 0.5(Ba _{0.7} Ca _{0.3})TiO ₃ /ZnO Bilayers. ACS Applied Materials & Interfaces, 2018, 10, 15240-15249.	3.3	16
43	Oxide superlattices by PLD: A practical guide. , 2018, , 27-52.		4
44	Epitaxial Stress-Free Growth of High Crystallinity Ferroelectric PbZr _{0.52} Ti _{0.48} O ₃ on GaN/AlGaN/Si(111) Substrate. Advanced Materials Interfaces, 2018, 5, 1700921.	3.7	16
45	Complex plume stoichiometry during pulsed laser deposition of SrVO ₃ at low oxygen pressures. Applied Physics Letters, 2018, 113, .	3.3	14
46	Metal-insulator-transition engineering by modulation tilt-control in perovskite nickelates for room temperature optical switching. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9515-9520.	7.1	56
47	Growth mechanism of epitaxial YSZ on Si by Pulsed Laser Deposition. Scientific Reports, 2018, 8, 5774.	3.3	16
48	Ferroelectric switching dynamics in 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.5(Ba _{0.7} Ca _{0.3})TiO ₃ thin films. Applied Physics Letters, 2018, 113, 082903.	3.3	11
49	Thickness Dependent Properties in Oxide Heterostructures Driven by Structurally Induced Metal-Oxygen Hybridization Variations. Advanced Functional Materials, 2017, 27, 1606717.	14.9	61
50	Controlling Piezoelectric Responses in Pb(Zr _{0.52} Ti _{0.48})O ₃ Films through Deposition Conditions and Nanosheet Buffer Layers on Glass. ACS Applied Materials & Interfaces, 2017, 9, 35947-35957.	8.0	28
51	Interface-engineered oxygen octahedral coupling in manganite heterostructures. Applied Physics Reviews, 2017, 4, 041103.	11.3	32
52	Modified spin relaxation mechanism by tunable coupling between interfacial two-dimensional electron gases in correlated oxide heterostructures. Physical Review B, 2017, 96, .	3.2	9
53	Experimental evidence for anisotropic double exchange interaction driven anisotropic transport in manganite heterostructures. Scientific Reports, 2017, 7, 2654.	3.3	7
54	Localized Control of Curie Temperature in Perovskite Oxide Film by Capping-Layer-Induced Octahedral Distortion. Physical Review Letters, 2017, 119, 177203.	7.8	31

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55	Quantum Anomalous Hall State in Ferromagnetic SrRuO ₃ (111) Bilayers. Physical Review Letters, 2017, 119, 026402.	7.8	47
56	Imaging pulsed laser deposition oxide growth by in situ atomic force microscopy. Review of Scientific Instruments, 2017, 88, 123902.	1.3	1
57	Functional Properties of Polydomain Ferroelectric Oxide Thin Films. , 2017, , 29-53.		5
58	Determining the energetics of vicinal perovskite oxide surfaces. AIP Advances, 2017, 7, 055302.	1.3	1
59	Tunable and stable in time ferroelectric imprint through polarization coupling. APL Materials, 2016, 4, .	5.1	10
60	Laser-induced fluorescence analysis of plasmas for epitaxial growth of YBiO ₃ films with pulsed laser deposition. APL Materials, 2016, 4, .	5.1	8
61	Multistability in Bistable Ferroelectric Materials toward Adaptive Applications. Advanced Functional Materials, 2016, 26, 5748-5756.	14.9	20
62	Highly Oriented Growth of Piezoelectric Thin Films on Silicon Using Two-Dimensional Nanosheets as Growth Template Layer. ACS Applied Materials & Interfaces, 2016, 8, 31120-31127.	8.0	41
63	Quenched Magnon excitations by oxygen sublattice reconstruction in (SrCuO ₂) _n /(SrTiO ₃) ₂ superlattices. Scientific Reports, 2016, 6, 32896.	3.3	9
64	Domain Selectivity in BiFeO ₃ Thin Films by Modified Substrate Termination. Advanced Functional Materials, 2016, 26, 2882-2889.	14.9	35
65	Long-Range Domain Structure and Symmetry Engineering by Interfacial Oxygen Octahedral Coupling at Heterostructure Interface. Advanced Functional Materials, 2016, 26, 6627-6634.	14.9	25
66	Properties of epitaxial, (001)- and (110)-oriented (PbMg _{1/3} Nb _{2/3} O ₃) _{2/3} -(PbTiO ₃) _{1/3} films on silicon described by polarization rotation. Science and Technology of Advanced Materials, 2016, 17, 45-57.	6.1	17
67	Controlled lateral anisotropy in correlated manganite heterostructures by interface-engineered oxygen octahedral coupling. Nature Materials, 2016, 15, 425-431.	27.5	292
68	Magnons in tetragonal CuO. Physical Review B, 2015, 92, .	3.2	10
69	Influence of the oxidation state of SrTiO ₃ plasmas for stoichiometric growth of pulsed laser deposition films identified by laser induced fluorescence. APL Materials, 2015, 3, 106103.	5.1	26
70	Research Update: Stoichiometry controlled oxide thin film growth by pulsed laser deposition. APL Materials, 2015, 3, .	5.1	61
71	Epitaxy on Demand. Advanced Functional Materials, 2015, 25, 5140-5148.	14.9	16
72	Extreme mobility enhancement of two-dimensional electron gases at oxide interfaces by charge-transfer-induced modulation doping. Nature Materials, 2015, 14, 801-806.	27.5	174

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73	Manipulating oxygen sublattice in ultrathin cuprates: A new direction to engineer oxides. Journal of Materials Research, 2015, 30, 463-476.	2.6	11
74	Synthesis of $\text{KCa}_2\text{Nb}_3\text{O}_{10}$ Crystals with Varying Grain Sizes and Their Nanosheet Monolayer Films As Seed Layers for PiezoMEMS Applications. ACS Applied Materials & Interfaces, 2015, 7, 27473-27478.	8.0	45
75	Enhanced Local Magnetization by Interface Engineering in Perovskite-Type Correlated Oxide Heterostructures. Advanced Materials Interfaces, 2015, 2, 1400416.	3.7	33
76	Integration of epitaxial $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ films on GaN/AlGaN/GaN/Si(111) substrates using rutile TiO_2 buffer layers. Thin Solid Films, 2015, 591, 66-71.	1.8	8
77	Growth studies of heteroepitaxial oxide thin films using reflection high-energy electron diffraction (RHEED). , 2015, , 3-29.		9
78	Uniaxial magnetic anisotropy induced low field anomalous anisotropic magnetoresistance in manganite thin films. APL Materials, 2014, 2, .	5.1	9
79	Symmetry and lattice mismatch induced strain accommodation near and away from correlated perovskite interfaces. Applied Physics Letters, 2014, 105, .	3.3	77
80	Electronic Reconstruction at the Isopolar LaTiO_3 An X-Ray Photoemission and Density-Functional Theory Study. Physical Review Letters, 2014, 113, 237402.	7.8	56
81	Quantum oscillations and subband properties of the two-dimensional electron gas at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. APL Materials, 2014, 2, .	5.1	50
82	Fabrication of piezodriven, free-standing, all-oxide heteroepitaxial cantilevers on silicon. APL Materials, 2014, 2, .	5.1	8
83	Patterning of Epitaxial Perovskites from Micro and Nano Molded Stencil Masks. Advanced Functional Materials, 2014, 24, 6853-6861.	14.9	8
84	Local Control over Nucleation of Epitaxial Thin Films by Seed Layers of Inorganic Nanosheets. ACS Applied Materials & Interfaces, 2014, 6, 2777-2785.	8.0	41
85	Atomically Defined Templates for Epitaxial Growth of Complex Oxide Thin Films. Journal of Visualized Experiments, 2014, , .	0.3	2
86	Experimental Evidence for Oxygen Sublattice Control in Polar Infinite Layer SrCuO_2 . Physical Review Letters, 2013, 111, 096102.	7.8	28
87	Fast and gentle side approach for atomic force microscopy. Review of Scientific Instruments, 2013, 84, 123704.	1.3	1
88	Hard x-ray photoemission and density functional theory study of the internal electric field in $\text{SrTiO}_3/\text{LaAlO}_3$ oxide heterostructures. Physical Review B, 2013, 87, .	3.2	64
89	Multi-band conduction behaviour at the interface of $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructures. Journal of the Korean Physical Society, 2013, 63, 437-440.	0.7	4
90	Atomic scale investigation of a $\text{PbTiO}_3/\text{SrRuO}_3/\text{DyScO}_3$ heterostructure. Applied Physics Letters, 2013, 102, .	3.3	8

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91	Defect Engineering in Oxide Heterostructures by Enhanced Oxygen Surface Exchange. <i>Advanced Functional Materials</i> , 2013, 23, 5240-5248.	14.9	88
92	Functional oxide interfaces. <i>MRS Bulletin</i> , 2013, 38, 1017-1023.	3.5	47
93	Submicron patterning of epitaxial PbZr _{0.52} Ti _{0.48} O ₃ heterostructures. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	21
94	Testing dependence of anomalous Hall effect on resistivity in SrRuO ₃ by its increase with electron irradiation. <i>Physical Review B</i> , 2013, 88, .	3.2	2
95	Band offsets and density of states probed by x-ray photoemission on LaAlO ₃ /SrTiO ₃ heterostructures. <i>Physical Review B</i> , 2012, 86, .	3.2	41
96	Control of oxygen sublattice structure in ultra-thin SrCuO ₂ films studied by X-ray photoelectron diffraction. <i>APL Materials</i> , 2013, 1, .	5.1	6
97	Spatial and temporal mapping of Al and AlO during oxidation in pulsed laser ablation of LaAlO ₃ . <i>Journal of Instrumentation</i> , 2013, 8, C10021-C10021.	1.2	10
98	Prediction of thickness limits of ideal polar ultrathin films. <i>Physical Review B</i> , 2012, 85, .	3.2	36
99	Local probing of coupled interfaces between two-dimensional electron and hole gases in oxide heterostructures by variable-temperature scanning tunneling spectroscopy. <i>Physical Review B</i> , 2012, 86, .	3.2	13
100	Direct patterning of functional interfaces in oxide heterostructures. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	45
101	Active multilayer mirrors for reflectance tuning at extreme ultraviolet (EUV) wavelengths. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 494001.	2.8	9
102	High-Temperature Magnetic Insulating Phase in Ultrathin La _{0.67} Sr _{0.33} CoO ₃ . <i>Physical Review Letters</i> , 2012, 109, 157207.	7.8	106
103	Structure of singly terminated polar DyScO ₃ (110) surfaces. <i>Physical Review B</i> , 2012, 85, .	3.2	17
104	Influence of charge compensation mechanisms on the sheet electron density at conducting LaAlO ₃ /SrTiO ₃ -interfaces. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	48
105	Preventing the Reconstruction of the Polar Discontinuity at Oxide Heterointerfaces. <i>Advanced Functional Materials</i> , 2012, 22, 2235-2240.	14.9	72
106	Structure, physical properties, and applications of SrRuO ₃ thin films. <i>Reviews of Modern Physics</i> , 2012, 84, 253-298.	45.6	550
107	Epitaxial oxide growth on polar (111) surfaces. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	42
108	Self-organization of SrRuO ₃ nanowires on ordered oxide surface terminations. <i>MRS Communications</i> , 2011, 1, 17-21.	1.8	16

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109	Metallic and Insulating Interfaces of Amorphous SrTiO ₃ -Based Oxide Heterostructures. Nano Letters, 2011, 11, 3774-3778.	9.1	304
110	Misfit strain accommodation in epitaxial $\text{SrRuO}_3/\text{LaAlO}_3$ interfaces. Physical Review B, 2011, 83, .	3.2	319
111	Uniaxial contribution to the magnetic anisotropy of La _{0.67} Sr _{0.33} MnO ₃ thin films induced by orthorhombic crystal structure. Journal of Magnetism and Magnetic Materials, 2011, 323, 2632-2638.	2.3	42
112	Determination of the spin-flip time in ferromagnetic SrRuO ₃ thin films from time-resolved Kerr measurements. Physical Review B, 2011, 83, .	3.2	15
113	Anisotropic electrical transport properties of a two-dimensional electron gas at SrTiO ₃ /LaAlO ₃ interfaces. Applied Physics Letters, 2011, 98, .	3.3	42
114	Reflection high-energy electron diffraction (RHEED) for in situ characterization of thin film growth. , 2011, , 3-28.		5
115	Optimized fabrication of high-quality La _{0.67} Sr _{0.33} MnO ₃ thin films considering all essential characteristics. Journal Physics D: Applied Physics, 2011, 44, 205001.	2.8	105
116	<i>In situ</i> characterization of thin film growth. , 2011, , .		9
117	Atomically Defined Rare-Earth Scandate Crystal Surfaces. Advanced Functional Materials, 2010, 20, 3490-3496.	14.9	72
118	Epitaxial EuO thin films by pulsed laser deposition monitored by in situ x-ray photoelectron spectroscopy. Thin Solid Films, 2010, 518, 5173-5176.	1.8	22
119	Dielectric-permittivity-driven charge carrier modulation at oxide interfaces. Physical Review B, 2010, 81, .	3.2	11
120	Magnetic anisotropy and magnetization reversal of La _{0.67} Sr _{0.33} MnO ₃ thin films on SrTiO ₃ (110). Journal of Applied Physics, 2010, 108, 103906.	2.5	33
121	Parallel Electron-Hole Bilayer Conductivity from Electronic Interface Reconstruction. Physical Review Letters, 2010, 104, 166804.	7.8	102
122	Critical thickness for itinerant ferromagnetism in ultrathin films of SrRuO_3 . Physical Review B, 2009, 79, .	3.2	170
123	Strong uniaxial in-plane magnetic anisotropy of (001)- and (011)-oriented $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ films on SrTiO_3 . Physical Review B, 2009, 79, .	3.2	107
124	Anisotropic stress relief mechanism in epitaxial La _{0.67} Sr _{0.33} MnO ₃ films. Applied Physics Letters, 2009, 95, 152508.	3.3	16
125	Structure-Property Relation of SrTiO ₃ /LaAlO ₃ Interfaces. Advanced Materials, 2009, 21, 1665-1677.	21.0	292
126	Tetragonal CuO: End member of the Cu_xO transition metal monoxides. Physical Review B, 2009, 79, .	3.2	55

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127	Polar Kerr-Effect Measurements of the High-Temperature Superconducting Thin Films of YBa ₂ Cu ₃ O _{7-x} . Evidence for Broken Symmetry near the Pseudogap Temperature. Physical Review Letters, 2008, 100, 127002.	7.8	331
128	Interface engineering and strain in YBa ₂ Cu ₃ O _{7-δ} thin films. Phase Transitions, 2008, 81, 703-716.	1.3	4
129	High-T _c superconducting thin films with composition control on a sub-unit cell level; the effect of the polar nature of the cuprates. Journal of Physics Condensed Matter, 2008, 20, 264007.	1.8	12
130	Preparation and properties of amorphous MgB ₂ •MgO superstructures: Model disordered superconductor. Physical Review B, 2008, 77, .	3.2	5
131	Room temperature epitaxial stabilization of a tetragonal phase in ARuO ₃ (A=Ca and Sr) thin films. Applied Physics Letters, 2008, 93, .	3.3	103
132	Use of real-time Fourier transform infrared reflectivity as an in situ monitor of YBa ₂ Cu ₃ O ₇ film deposition and processing. Applied Physics Letters, 2007, 90, 261917.	3.3	7
133	Strain-induced single-domain growth of epitaxial SrRuO ₃ layers on SrTiO ₃ : A high-temperature x-ray diffraction study. Applied Physics Letters, 2007, 91, .	3.3	32
134	Dependence of the electronic structure of SrRuO ₃ on the degree of correlation on cation off-stoichiometry. Physical Review B, 2007, 76, .	3.2	102
135	Experimental investigation of electronic properties of buried heterointerfaces of LaAlO ₃ on SrTiO ₃ . Physical Review B, 2007, 76, .	3.2	48
136	Origin of Charge Density at LaAlO ₃ on SrTiO ₃ Heterointerfaces: Possibility of Intrinsic Doping. Physical Review Letters, 2007, 98, 196802.	7.8	537
137	Length scales for coherent Ĥ-bonding interactions in complex high-k oxide dielectrics and their interfaces. Microelectronic Engineering, 2007, 84, 2298-2301.	2.4	4
138	Discovering superconductors: A path to new science and higher T _c 's. , 2005, , .		0
139	Shear at Twin Domain Boundaries in YBa ₂ Cu ₃ O _{7-x} . Physical Review Letters, 2004, 92, 216105.	7.8	8
140	Pulsed laser deposition of dielectrics. Series in Materials Science and Engineering, 2003, , .	0.1	0
141	Charge instabilities in the ionic model of metal oxides: Importance of polarization energy. Physical Review B, 2002, 66, .	3.2	8
142	Structure and properties of (Sr,Ca)CuO ₂ •BaCuO ₂ superlattices grown by pulsed laser interval deposition. Physica C: Superconductivity and Its Applications, 2001, 353, 167-183.	1.2	13
143	Epitaxial growth of oxides with pulsed laser interval deposition. Journal of Crystal Growth, 2000, 211, 98-105.	1.5	50
144	Surface morphology determined by (001) single-crystal SrTiO ₃ termination. Physica C: Superconductivity and Its Applications, 2000, 339, 215-230.	1.2	90

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145	Imposed layer-by-layer growth with pulsed laser interval deposition. Applied Surface Science, 2000, 168, 223-226.	6.1	22
146	A New Approach in Layer-by-layer Growth of Oxide Materials by Pulsed Laser Deposition. , 2000, 4, 311-318.		14
147	Wet Etching Methods for Perovskite Substrates. Materials Research Society Symposia Proceedings, 1999, 587, O3.6.1.	0.1	9
148	Imposed layer-by-layer growth by pulsed laser interval deposition. Applied Physics Letters, 1999, 74, 3729-3731.	3.3	129
149	In-situ monitoring by reflective high energy electron diffraction during pulsed laser deposition. Applied Surface Science, 1999, 138-139, 17-23.	6.1	19
150	Imposed layer-by-layer growth by pulsed laser interval deposition. Applied Physics A: Materials Science and Processing, 1999, 69, S17-S22.	2.3	10
151	Imposed layer-by-layer growth by pulsed laser interval deposition. Applied Physics A: Materials Science and Processing, 1999, 69, S17-S22.	2.3	18
152	In-situ monitoring during PLD of YBa/sub 2/Cu/sub 3/O/sub 7- δ using RHEED at high oxygen pressure. IEEE Transactions on Applied Superconductivity, 1999, 9, 1547-1550.	1.7	5
153	In Situ Growth Studies of Artificial Layered (Ba,Sr,Ca)CuO ₂ on Quasi-Ideal SrTiO ₃ Substrates by High Pressure Rheed. Materials Research Society Symposia Proceedings, 1999, 569, 35.	0.1	1
154	In-situ growth monitoring during PLD of oxides using RHEED at high oxygen pressure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 223-227.	3.5	16
155	Influence of the surface treatment on the homoepitaxial growth of SrTiO ₃ . Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 209-212.	3.5	34
156	In-situ monitoring during pulsed laser deposition using RHEED at high pressure. Applied Surface Science, 1998, 127-129, 633-638.	6.1	15
157	Quasi-ideal strontium titanate crystal surfaces through formation of strontium hydroxide. Applied Physics Letters, 1998, 73, 2920-2922.	3.3	661
158	<i>In Situ</i> Initial Growth Studies of SrTiO ₃ on SrTiO ₃ by Time Resolved High Pressure RHEED. Materials Research Society Symposia Proceedings, 1998, 526, 33.	0.1	12
159	In-situ monitoring during pulsed laser deposition of layered oxide materials. , 1998, 3481, 197.		0
160	In Situ Initial Growth Studies of (Sr, Ca)CuO ₂ ON SrTiO ₃ by High Pressure Rheed. Materials Research Society Symposia Proceedings, 1997, 502, 255.	0.1	3
161	In situmonitoring during pulsed laser deposition of complex oxides using reflection high energy electron diffraction under high oxygen pressure. Applied Physics Letters, 1997, 70, 1888-1890.	3.3	242
162	The ab-anisotropy of twinfree YBa ₂ Cu ₃ O _{7-δ} films above and below T _c . Physica C: Superconductivity and Its Applications, 1997, 282-287, 665-666.	1.2	5