

Philipp Komissinskiy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8086705/publications.pdf>

Version: 2024-02-01

99
papers

1,112
citations

361045

20
h-index

500791

28
g-index

102
all docs

102
docs citations

102
times ranked

1456
citing authors

#	ARTICLE	IF	CITATIONS
1	Thickness-Dependent Magnetism in Epitaxial SrFeO ₃ Thin Films. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	3
2	{001}-Textured Nb-Doped Pb(Zr,Ti)O ₃ Thin Films on Stainless Steel by Pulsed Laser Deposition. , 2021, , .		1
3	The role of covalent bonding and anionic redox for the performance of sodium cobaltate electrode materials. Energy Storage Materials, 2021, 37, 190-198.	9.5	4
4	Epitaxy Induced Highly Ordered Sm ₂ Co ₁₇ â€“SmCo ₅ Nanoscale Thin-Film Magnets. ACS Applied Materials & Interfaces, 2021, 13, 32415-32423.	4.0	6
5	Optical Plasmon Excitation in Transparent Conducting SrNbO ₃ and SrVO ₃ Thin Films. Advanced Optical Materials, 2021, 9, 2100520.	3.6	13
6	All-Oxide Varactor Electromechanical Properties Extracted by Highly Accurate Modeling Over a Broad Frequency and Electric Bias Range. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2804-2814.	1.7	0
7	Molecular dynamics simulation of crystal structure and heat capacity in perovskite-type molybdates SrMoO ₃ and BaMoO ₃ . Computational Materials Science, 2021, 197, 110609.	1.4	3
8	Charge-transfer driven ferromagnetism in a disordered three-dimensional 3d-5d spin system. Journal of Magnetism and Magnetic Materials, 2021, 539, 168330.	1.0	0
9	Tailoring the Switching Dynamics in Yttrium Oxideâ€“Based RRAM Devices by Oxygen Engineering: From Digital to Multiâ€“Level Quantization toward Analog Switching. Advanced Electronic Materials, 2020, 6, 2000439.	2.6	20
10	Induction of uniaxial anisotropy by controlled phase separation in Y-Co thin films. Physical Review B, 2020, 102, .	1.1	2
11	Suppression of Acoustic Resonances in All-Oxide Varactors. , 2020, , .		2
12	{001}-textured Pb(Zr, Ti)O ₃ thin films on stainless steel by pulsed laser deposition. Journal of Applied Physics, 2020, 128, .	1.1	11
13	Production of Fe nanoparticles from $\hat{3}$ -Fe ₂ O ₃ by high-pressure hydrogen reduction. Nanoscale Advances, 2020, 2, 4777-4784.	2.2	10
14	Matching conflicting oxidation conditions and strain accommodation in perovskite epitaxial thin-film ferroelectric varactors. Journal of Applied Physics, 2020, 128, .	1.1	7
15	Oxygen diffusion barriers for epitaxial thin-film heterostructures with highly conducting SrMoO ₃ electrodes. Journal of Applied Physics, 2020, 127, .	1.1	14
16	Optical Properties of Highly Conductive SrMoO ₃ Oxide Thin Films in the THz Band and Beyond. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1170-1180.	1.2	7
17	Ferrimagnetism, exchange bias and spin-glass property of disordered La ₂ CrNiO ₆ . Journal of Magnetism and Magnetic Materials, 2020, 508, 166873.	1.0	12
18	Spectroscopy of highly conductive SMO thin film in the THz range. , 2020, , .		0

#	ARTICLE	IF	CITATIONS										
19	The effect of calcium impurities of $\hat{\Gamma}^2\hat{\Delta}^3$ -alumina on the degradation of Na_xCoO_2 cathodes in all solid state sodium-ion batteries. Solid State Ionics, 2019, 341, 115041.	1.3	5										
20	Electrochemical Performance of All-Solid-State Sodium-Ion Model Cells with Crystalline Na_xCoO_2 Thin-Film Cathodes. Journal of the Electrochemical Society, 2019, 166, A5328-A5332.	1.3	16										
21	Atomically interface engineered micrometer-thick SrMoO_3 oxide electrodes for thin-film BaSrTiO_3 ferroelectric varactors tunable at low voltages. APL Materials, 2019, 7, .	2.2	25										
22	Characterization and Deembedding of Negative Series Inductance in On-Wafer Measurements of Thin-Film All-Oxide Varactors. IEEE Microwave and Wireless Components Letters, 2019, 29, 213-215.	2.0	7										
23	Modelling of the vertical deflection of ferroelectric bending tongues loaded at their free end. AIP Advances, 2019, 9, 025017.	0.6	3										
24	All-Oxide Thin Film Varactor: From Test Structure to SMD Component. , 2019, , .		0										
25	Synthesis and characterisation of fluorinated epitaxial films of BaFeO_2F : tailoring magnetic anisotropy via a lowering of tetragonal distortion. RSC Advances, 2019, 9, 37136-37143.	1.7	6										
26	Highly Accurate Analytic Modeling of Dispersive Field Distributions in MIM Capacitances With Electrodes Thinner Than Skin Depth. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4665-4673.	2.9	6										
27	Sc-substituted Nasicon solid electrolyte for an all-solid-state Na_xCoO_2 /Nasicon/Na sodium model battery with stable electrochemical performance. Journal of Power Sources, 2019, 409, 86-93.	4.0	50										
28	Interfaces in solid-state sodium-ion batteries: NaCoO_2 thin films on solid electrolyte substrates. Electrochimica Acta, 2018, 268, 226-233.	2.6	23										
29	CeCo_5 thin films with perpendicular anisotropy grown by molecular beam epitaxy. Journal of Magnetism and Magnetic Materials, 2018, 452, 80-85.	1.0	6										
30	Evolution of anisotropy in bcc Fe distorted by interstitial boron. Physical Review B, 2018, 97, .	1.1	6										
31	Characterization and Modeling of Epitaxially Grown BST on a Conducting Oxide Electrode. , 2018, , .		3										
32	In-operando photoelectron spectroscopy for batteries: Set-up using pristine thin film cathode and first results on Na_xCoO_2 . Review of Scientific Instruments, 2018, 89, 073104.	0.6	24										
33	http://www.w3.org/1998/Math/MathML altimg="si10.gif" overflow="scroll">$\text{Ba}_{0.7}\text{Sr}_{0.4}\text{TiO}_3$</td></tr> <tr> <td>34</td> <td>Synthesis, morphology, thermal stability and magnetic properties of $\hat{\Gamma}^2\hat{\Delta}^3$-$\text{Fe}_{16}\text{N}_2$ nanoparticles obtained by hydrogen reduction of $\hat{\Gamma}^3$-Fe_2O_3 and subsequent nitrogenation. Acta Materialia, 2017, 123, 214-222.</td> <td>3.8</td> <td>38</td> </tr> <tr> <td>35</td> <td>Optical properties of single crystalline SrMoO_3 thin films. Journal of Applied Physics, 2016, 119, .</td> <td>1.1</td> <td>24</td> </tr> <tr> <td>36</td> <td>Impact of oxygen stoichiometry on electroforming and multiple switching modes in $\text{TiN}/\text{TaO}_x/\text{Pt}$ based ReRAM. Applied Physics Letters, 2016, 109, .</td> <td>1.5</td> <td>51</td> </tr>	34	Synthesis, morphology, thermal stability and magnetic properties of $\hat{\Gamma}^2\hat{\Delta}^3$ - Fe_{16}N_2 nanoparticles obtained by hydrogen reduction of $\hat{\Gamma}^3$ - Fe_2O_3 and subsequent nitrogenation. Acta Materialia, 2017, 123, 214-222.	3.8	38	35	Optical properties of single crystalline SrMoO_3 thin films. Journal of Applied Physics, 2016, 119, .	1.1	24	36	Impact of oxygen stoichiometry on electroforming and multiple switching modes in $\text{TiN}/\text{TaO}_x/\text{Pt}$ based ReRAM. Applied Physics Letters, 2016, 109, .	1.5	51
34	Synthesis, morphology, thermal stability and magnetic properties of $\hat{\Gamma}^2\hat{\Delta}^3$ - Fe_{16}N_2 nanoparticles obtained by hydrogen reduction of $\hat{\Gamma}^3$ - Fe_2O_3 and subsequent nitrogenation. Acta Materialia, 2017, 123, 214-222.	3.8	38										
35	Optical properties of single crystalline SrMoO_3 thin films. Journal of Applied Physics, 2016, 119, .	1.1	24										
36	Impact of oxygen stoichiometry on electroforming and multiple switching modes in $\text{TiN}/\text{TaO}_x/\text{Pt}$ based ReRAM. Applied Physics Letters, 2016, 109, .	1.5	51										

#	ARTICLE	IF	CITATIONS
37	Hafnium carbide formation in oxygen deficient hafnium oxide thin films. Applied Physics Letters, 2016, 108, .	1.5	7
38	Wet-chemical etching of SrMoO ₃ thin films. Materials Letters, 2016, 184, 173-176.	1.3	3
39	Electronic depth profiles with atomic layer resolution from resonant X-ray reflectivity. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s169-s169.	0.0	0
40	Increased magnetic moment induced by lattice expansion from \hat{I}_{\pm} -Fe to \hat{I}_{\pm} -Fe ₈ N. , 2015, , .		1
41	Electronic depth profiles with atomic layer resolution from resonant soft x-ray reflectivity. New Journal of Physics, 2015, 17, 083046.	1.2	22
42	Increased magnetic moment induced by lattice expansion from \hat{I}_{\pm} -Fe to \hat{I}_{\pm} -Fe ₈ N. Journal of Applied Physics, 2015, 117, .	1.1	33
43	Joint effect of composition and strain on the anomalous transport properties of LaNiO ₃ films. Journal of Applied Physics, 2015, 117, .	1.1	15
44	Superconductivity and role of pnictogen and Fe substitution in 112- LaPd_xP_n Physical Review B, 2015, 91, .		
45	Highly conducting SrMoO ₃ thin films for microwave applications. Applied Physics Letters, 2014, 105, .	1.5	32
46	Highly conducting SrMoO ₃ thin films for microwave applications. Applied Physics Letters, 2014, 105, .	1.5	32
47	Modification of energy band alignment and electric properties of Pt/Ba _{0.6} Sr _{0.4} TiO ₃ /Pt thin-film ferroelectric varactors by Ag impurities at interfaces. Journal of Applied Physics, 2014, 115, .	1.1	3
48	Origin of superstructures in (double) perovskite thin films. Journal of Applied Physics, 2014, 116, 114901.	1.1	21
49	The role of cationic and anionic point defects in pulsed laser deposition of perovskites. Journal Physics D: Applied Physics, 2014, 47, 034012.	1.3	24
50	Thickness independent reduced forming voltage in oxygen engineered HfO ₂ based resistive switching memories. Applied Physics Letters, 2014, 105, 073505.	1.5	59
51	Epitaxial growth and control of the sodium content in Na _x CoO ₂ thin films. Thin Solid Films, 2013, 545, 291-295.	0.8	11
52	Strain engineering in epitaxial La _{1-x} Sr _{1+x} MnO ₄ thin films. Journal of Applied Physics, 2013, 113, 053906.	1.1	3
53	Interfaces in superconducting hybrid heterostructures with an antiferromagnetic interlayer. Physics of the Solid State, 2013, 55, 461-465.	0.2	5
54	Temperature induced reduction of the trivalent Ni ions in LiMO ₂ (M = Ni, Co) thin films. Surface Science, 2013, 608, L1-L4.	0.8	12

#	ARTICLE	IF	CITATIONS
55	Effect of composition and strain on the electrical properties of LaNiO ₃ thin films. Applied Physics Letters, 2013, 103, 141902.	1.5	34
56	Magnetism and spin-orbit coupling in Ir-based double perovskites La _{2-x} Sr _x Co ₂ O _{7-δ} . Physical Review B, 2012, 86, 040407.	1.1	56
57	Polarization investigation of a tunable high-speed short-wavelength bulk-micromachined MEMS-VCSEL. , 2012, , .		2
58	Sol-gel synthesis of sodium and lithium based materials. Journal of Sol-Gel Science and Technology, 2012, 63, 307-314.	1.1	5
59	Superconducting current in hybrid structures with an antiferromagnetic interlayer. Journal of Experimental and Theoretical Physics, 2010, 110, 336-344.	0.2	8
60	Electron transport and microwave dynamics of hybrid Nb/Au/CaSrCuO/YBaCuO planar Josephson junctions. Journal of Physics: Conference Series, 2010, 234, 042004.	0.3	6
61	Magnetically dependent superconducting transport in oxide heterostructures with an antiferromagnetic layer. Journal of Experimental and Theoretical Physics, 2008, 106, 800-805.	0.2	6
62	High-frequency dynamics of hybrid oxide Josephson heterostructures. Physical Review B, 2008, 78, .	1.1	34
63	Josephson Effect in Hybrid Oxide Heterostructures with an Antiferromagnetic Layer. Physical Review Letters, 2007, 99, 017004.	2.9	27
64	Conductivity and antiferromagnetism of CaCuO ₂ thin films doped by Sr. Physica C: Superconductivity and Its Applications, 2007, 460-462, 536-537.	0.6	2
65	Smooth NdBa ₂ Cu ₃ O _{7-δ} thin films and ramp Josephson junctions. Journal of Physics: Conference Series, 2006, 43, 1139-1142.	0.3	1
66	Frequency and size dependence of ac Josephson effect in Nb/Au/YBCO heterojunctions. Journal of Physics: Conference Series, 2006, 43, 1127-1130.	0.3	4
67	Anomalous proximity effect in superconducting oxide structures with an antiferromagnetic layer. JETP Letters, 2006, 84, 262-266.	0.4	7
68	Dynamics of underdamped Josephson junctions with non-sinusoidal current-phase relation. Physica C: Superconductivity and Its Applications, 2006, 435, 27-30.	0.6	13
69	Microwave dynamics of Josephson structures with nontrivial current-phase relation. Journal of Communications Technology and Electronics, 2006, 51, 1078-1086.	0.2	1
70	Twinning and domain structure of epitaxial YBa ₂ Cu ₃ O _x films studies by X-ray diffraction methods. Journal of Crystal Growth, 2005, 275, e2475-e2480.	0.7	1
71	Metal Oxide Bicrystal Josephson Junctions of a New Type with High Critical Parameters. Technical Physics Letters, 2005, 31, 189.	0.2	0
72	Josephson Parameters of Bicrystal Junctions of a New Type Based on Metal Oxide Semiconductors. Technical Physics Letters, 2005, 31, 332.	0.2	1

#	ARTICLE	IF	CITATIONS
73	Superconducting current in hybrid heterojunctions of metal-oxide superconductors: Size and frequency dependences. Journal of Experimental and Theoretical Physics, 2005, 101, 494-503.	0.2	11
74	Characterization and Dynamics of [100]-Tilted Y-B-C-O Bicrystal Junctions on $\sqrt{3}\times\sqrt{3}$ Nd-Ga-O ₃ . IEEE Transactions on Applied Superconductivity, 2005, 15, 165-168.	1.1	7
75	Electron transport in metal oxide superconducting heterojunctions. Low Temperature Physics, 2004, 30, 599-609.	0.2	4
76	Josephson effect in Nb/Au/YBCO heterojunctions. IEEE Transactions on Applied Superconductivity, 2003, 13, 881-884.	1.1	4
77	Superconducting Current-Phase Relation and Andreev Bound States in Nb/Au/YBa ₂ Cu ₃ O _x Josephson Heterojunctions. Modern Physics Letters B, 2003, 17, 569-578.	1.0	1
78	Submicron YBa ₂ Cu ₃ O _x ramp Josephson junctions. Applied Physics Letters, 2002, 80, 1022-1024.	1.5	13
79	Observation of the second harmonic in superconducting current-phase relation of Nb/Au/(001)YBa ₂ Cu ₃ O _x heterojunctions. Europhysics Letters, 2002, 57, 585-591.	0.7	38
80	Growth and domain structure of YBa ₂ Cu ₃ O _x thin films and YBa ₂ Cu ₃ O _x /CeO ₂ heterostructures on tilted NdGaO ₃ substrates. Physica C: Superconductivity and Its Applications, 2002, 377, 26-35.	0.6	18
81	Superconducting current-phase relation of Nb/Au/YBaCuO heterojunctions. Physica C: Superconductivity and Its Applications, 2002, 368, 271-275.	0.6	1
82	Superconductivity in magnesium diboride thin films. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1274-1276.	0.6	2
83	Andreev states and the Josephson effect in superconducting heterojunctions on thin YBa ₂ Cu ₃ O _x films. Journal of Experimental and Theoretical Physics, 2002, 95, 1074-1084.	0.2	6
84	Temperature behavior of electron transport in normal-metal-HTSC heterojunctions. Physics of the Solid State, 2001, 43, 801-807.	0.2	13
85	Observation of the second harmonic in the phase dependence of a superconducting current in Nb/Au/YBCO heterojunctions. JETP Letters, 2001, 73, 361-365.	0.4	3
86	The growth and domain structure of YBa ₂ Cu ₃ O _x films on neodymium gallate substrates with a deviation of the normal to the surface from the [110] direction in NdGaO ₃ . Physics of the Solid State, 2001, 43, 1611-1620.	0.2	6
87	Small scale integrated technology for HTS RSFQ circuits. IEEE Transactions on Applied Superconductivity, 2001, 11, 558-561.	1.1	1
88	Particle formation on the YBCO thin film surface: effect of stoichiometry and substrate material. Physica C: Superconductivity and Its Applications, 2000, 336, 93-101.	0.6	16
89	Substitutions in the Nd/Ba cation subsystem in thin films of the NdBa ₂ Cu ₃ O _y high-temperature superconductor. Physics of the Solid State, 2000, 42, 1590-1595.	0.2	5
90	Fabrication and properties of high-T _c ramp junctions with manganite barriers. Physica C: Superconductivity and Its Applications, 1999, 326-327, 79-82.	0.6	10

#	ARTICLE	IF	CITATIONS
91	Single flux quantum comparators for HTS AD converters. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 326-327, 83-92.	0.6	3
92	Current transport along the [001] axis of YBCO in low-temperature superconductor-normal metal-high-temperature superconductor heterostructures. <i>Journal of Experimental and Theoretical Physics</i> , 1999, 89, 1160-1165.	0.2	4
93	Structural Studies of YBCO Ramp Josephson Junctions for Rapid Single Flux Quantum Circuits. <i>Journal of Low Temperature Physics</i> , 1999, 117, 575-579.	0.6	2
94	High-Tc Ramp-Type Josephson Junctions for Rapid Single Flux Quantum Circuits. <i>Journal of Low Temperature Physics</i> , 1999, 117, 587-591.	0.6	1
95	Improvement of the conducting parameters of YBa ₂ Cu ₃ O _x films grown on sapphire through the use of a strontium titanate buffer layer. <i>Technical Physics Letters</i> , 1998, 24, 676-678.	0.2	1
96	The influence of the top and the bottom grain boundaries on the current transport in YBa ₂ Cu ₃ O _{7-δ} step-edge Josephson junction. <i>Applied Superconductivity</i> , 1998, 6, 437-443.	0.5	5
97	Comparison of high-pressure dc-sputtering and pulsed laser deposition of superconducting YBa ₂ Cu ₃ O _x thin films. <i>Journal of Superconductivity and Novel Magnetism</i> , 1997, 10, 221-226.	0.5	4
98	Experimental observation of an enhancement of superconducting gap in niobium thin film of superconducting double barrier structures. <i>European Physical Journal D</i> , 1996, 46, 653-654.	0.4	0
99	Superconductivity enhancement in thin films of niobium in superconducting double-barrier structures. <i>Physical Review B</i> , 1996, 54, 13184-13187.	1.1	4