

# Philipp Komissinskiy

## List of Publications by Year in descending order

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99  
papers

1,112  
citations

361045

20  
h-index

500791

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102  
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102  
docs citations

102  
times ranked

1456  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thickness independent reduced forming voltage in oxygen engineered HfO <sub>2</sub> based resistive switching memories. Applied Physics Letters, 2014, 105, 073505. Magnetism and spin-orbit coupling in Ir-based double perovskites: La	1.5	59
2	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>âˆ²</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Sr<mml:mi>x</mml:mi></mml:math>ColrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:math>	1.1	56
3	Impact of oxygen stoichiometry on electroforming and multiple switching modes in TiN/TaO <sub>x</sub> /Pt based ReRAM. Applied Physics Letters, 2016, 109, .	1.5	51
4	Sc-substituted Nasicon solid electrolyte for an all-solid-state Na <sub>x</sub> CoO <sub>2</sub> /Nasicon/Na sodium model battery with stable electrochemical performance. Journal of Power Sources, 2019, 409, 86-93.	4.0	50
5	Observation of the second harmonic in superconducting current-phase relation of Nb/Au/(001)YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> heterojunctions. Europhysics Letters, 2002, 57, 585-591.	0.7	38
6	Synthesis, morphology, thermal stability and magnetic properties of Î±-Fe <sub>16</sub> N <sub>2</sub> nanoparticles obtained by hydrogen reduction of Î³-Fe <sub>2</sub> O <sub>3</sub> and subsequent nitrogenation. Acta Materialia, 2017, 123, 214-222.	3.8	38
7	High-frequency dynamics of hybrid oxide Josephson heterostructures. Physical Review B, 2008, 78, .	1.1	34
8	Effect of composition and strain on the electrical properties of LaNiO <sub>3</sub> thin films. Applied Physics Letters, 2013, 103, 141902.	1.5	34
9	Increased magnetic moment induced by lattice expansion from <math>\hat{I}_{\pm}</math>-Fe to <math>\hat{I}_{\pm}</math>-Fe <sub>8</sub> N. Journal of Applied Physics, 2015, 117, . Growth, structure, and magnetic properties of	1.1	33
10	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0011.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi>mathvariant="bold-italic">Î³</mml:mi></mml:mrow><mml:mrow><mml:mo>â€²</mml:mo></mml:mrow></mml:msup><mml:mi>mathvariant="normal">-Fe</mml:mi></mml:mrow><mml:mrow><mml:mn>mathvariant="bold">4</mml:mn></mml:mrow></mml:msub><mml:mi>mathvariant="normal">N</mml:mi>	1.1	33
11	Highly conducting SrMoO <sub>3</sub> thin films for microwave applications. Applied Physics Letters, 2014, 105, .	1.5	32
12	Josephson Effect in Hybrid Oxide Heterostructures with an Antiferromagnetic Layer. Physical Review Letters, 2007, 99, 017004.	2.9	27
13	Atomically interface engineered micrometer-thick SrMoO <sub>3</sub> oxide electrodes for thin-film Ba<sub>x</sub>Sr <sub>1-x&lt;/sub&gt;TiO<sub>3</sub> ferroelectric varactors tunable at low voltages. APL Materials, 2019, 7, .</sub>	2.2	25
14	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
15	Optical properties of single crystalline SrMoO <sub>3</sub> thin films. Journal of Applied Physics, 2016, 119, .	1.1	24
16	In-operando photoelectron spectroscopy for batteries: Set-up using pristine thin film cathode and first results on Na <sub>x</sub> CoO <sub>2</sub> . Review of Scientific Instruments, 2018, 89, 073104.	0.6	24
17	Interfaces in solid-state sodium-ion batteries: NaCoO <sub>2</sub> thin films on solid electrolyte substrates. Electrochimica Acta, 2018, 268, 226-233.	2.6	23
18	Electronic depth profiles with atomic layer resolution from resonant soft x-ray reflectivity. New Journal of Physics, 2015, 17, 083046.	1.2	22

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19	Origin of superstructures in (double) perovskite thin films. Journal of Applied Physics, 2014, 116, 114901.	1.1	21
20	Tailoring the Switching Dynamics in Yttrium Oxide-Based RRAM Devices by Oxygen Engineering: From Digital to Multi-Level Quantization toward Analog Switching. Advanced Electronic Materials, 2020, 6, 2000439.	2.6	20
21	Growth and domain structure of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> thin films and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> /CeO <sub>2</sub> heterostructures on tilted NdGaO <sub>3</sub> substrates. Physica C: Superconductivity and Its Applications, 2002, 377, 26-35.	0.6	18
22	Growth and interface engineering in thin-film $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$	0.7	17
23	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
24	Electrochemical Performance of All-Solid-State Sodium-Ion Model Cells with Crystalline Na <sub>x</sub> CoO <sub>2</sub> Thin-Film Cathodes. Journal of the Electrochemical Society, 2019, 166, A5328-A5332.	1.3	16
25	Joint effect of composition and strain on the anomalous transport properties of LaNiO <sub>3</sub> films. Journal of Applied Physics, 2015, 117, .	1.1	15
26	Oxygen diffusion barriers for epitaxial thin-film heterostructures with highly conducting SrMoO <sub>3</sub> electrodes. Journal of Applied Physics, 2020, 127, .	1.1	14
27	Temperature behavior of electron transport in normal-metal-HTSC heterojunctions. Physics of the Solid State, 2001, 43, 801-807.	0.2	13
28	Submicron YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> ramp Josephson junctions. Applied Physics Letters, 2002, 80, 1022-1024.	1.5	13
29	Dynamics of underdamped Josephson junctions with non-sinusoidal current-phase relation. Physica C: Superconductivity and Its Applications, 2006, 435, 27-30.	0.6	13
30	Optical Plasmon Excitation in Transparent Conducting SrNbO <sub>3</sub> and SrVO <sub>3</sub> Thin Films. Advanced Optical Materials, 2021, 9, 2100520.	3.6	13
31	Temperature induced reduction of the trivalent Ni ions in LiMO <sub>2</sub> (M = Ni, Co) thin films. Surface Science, 2013, 608, L1-L4.	0.8	12
32	Ferrimagnetism, exchange bias and spin-glass property of disordered La <sub>2</sub> CrNiO <sub>6</sub> . Journal of Magnetism and Magnetic Materials, 2020, 508, 166873.	1.0	12
33	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
34	Epitaxial growth and control of the sodium content in Na <sub>x</sub> CoO <sub>2</sub> thin films. Thin Solid Films, 2013, 545, 291-295.	0.8	11
35	{001}-textured Pb(Zr, Ti)O <sub>3</sub> thin films on stainless steel by pulsed laser deposition. Journal of Applied Physics, 2020, 128, .	1.1	11
36	Fabrication and properties of high-T <sub>c</sub> ramp junctions with manganite barriers. Physica C: Superconductivity and Its Applications, 1999, 326-327, 79-82.	0.6	10



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55	The influence of the top and the bottom grain boundaries on the current transport in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> step-edge Josephson junction. Applied Superconductivity, 1998, 6, 437-443.	0.5	5
56	Substitutions in the Nd/Ba cation subsystem in thin films of the NdBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> high-temperature superconductor. Physics of the Solid State, 2000, 42, 1590-1595.	0.2	5
57	Sol-gel synthesis of sodium and lithium based materials. Journal of Sol-Gel Science and Technology, 2012, 63, 307-314.	1.1	5
58	Interfaces in superconducting hybrid heterostructures with an antiferromagnetic interlayer. Physics of the Solid State, 2013, 55, 461-465.	0.2	5
59	The effect of calcium impurities of $\gamma$ -alumina on the degradation of Na <sub>x</sub> CoO <sub>2</sub> cathodes in all solid state sodium-ion batteries. Solid State Ionics, 2019, 341, 115041.	1.3	5
60	Superconductivity enhancement in thin films of niobium in superconducting double-barrier structures. Physical Review B, 1996, 54, 13184-13187.	1.1	4
61	Comparison of high-pressure dc-sputtering and pulsed laser deposition of superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> thin films. Journal of Superconductivity and Novel Magnetism, 1997, 10, 221-226.	0.5	4
62	Current transport along the [001] axis of YBCO in low-temperature superconductor-normal metal-high-temperature superconductor heterostructures. Journal of Experimental and Theoretical Physics, 1999, 89, 1160-1165.	0.2	4
63	Josephson effect in Nb/Au/YBCO heterojunctions. IEEE Transactions on Applied Superconductivity, 2003, 13, 881-884.	1.1	4
64	Electron transport in metal oxide superconducting heterojunctions. Low Temperature Physics, 2004, 30, 599-609.	0.2	4
65	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
66	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
67	Single flux quantum comparators for HTS AD converters. Physica C: Superconductivity and Its Applications, 1999, 326-327, 83-92.	0.6	3
68	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
69	Strain engineering in epitaxial La <sup>x</sup> Sr <sub>1+x</sub> MnO <sub>4</sub> thin films. Journal of Applied Physics, 2013, 113, 053906.	1.1	3
70	Modification of energy band alignment and electric properties of Pt/Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> /Pt thin-film ferroelectric varactors by Ag impurities at interfaces. Journal of Applied Physics, 2014, 115, .	1.1	3
71	Wet-chemical etching of SrMoO <sub>3</sub> thin films. Materials Letters, 2016, 184, 173-176.	1.3	3
72	Characterization and Modeling of Epitaxially Grown BST on a Conducting Oxide Electrode. , 2018, , .		3

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73	Modelling of the vertical deflection of ferroelectric bending tongues loaded at their free end. AIP Advances, 2019, 9, 025017.	0.6	3
74	Thickness-Dependent Magnetism in Epitaxial SrFeO <sub>3-<math>\delta</math></sub> Thin Films. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	3
75	Molecular dynamics simulation of crystal structure and heat capacity in perovskite-type molybdates SrMoO <sub>3</sub> and BaMoO <sub>3</sub> . Computational Materials Science, 2021, 197, 110609.	1.4	3
76	Structural Studies of YBCO Ramp Josephson Junctions for Rapid Single Flux Quantum Circuits. Journal of Low Temperature Physics, 1999, 117, 575-579.	0.6	2
77	Superconductivity in magnesium diboride thin films. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1274-1276.	0.6	2
78	Conductivity and antiferromagnetism of CaCuO <sub>2</sub> thin films doped by Sr. Physica C: Superconductivity and Its Applications, 2007, 460-462, 536-537.	0.6	2
79	Polarization investigation of a tunable high-speed short-wavelength bulk-micromachined MEMS-VCSEL. , 2012, , .		2
80	Induction of uniaxial anisotropy by controlled phase separation in Y-Co thin films. Physical Review B, 2020, 102, .	1.1	2
81	Suppression of Acoustic Resonances in All-Oxide Varactors. , 2020, , .		2
82	Improvement of the conducting parameters of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> films grown on sapphire through the use of a strontium titanate buffer layer. Technical Physics Letters, 1998, 24, 676-678.	0.2	1
83	High-Tc Ramp-Type Josephson Junctions for Rapid Single Flux Quantum Circuits. Journal of Low Temperature Physics, 1999, 117, 587-591.	0.6	1
84	Small scale integrated technology for HTS RSFQ circuits. IEEE Transactions on Applied Superconductivity, 2001, 11, 558-561.	1.1	1
85	Superconducting current-phase relation of Nb/Au/YBaCuO heterojunctions. Physica C: Superconductivity and Its Applications, 2002, 368, 271-275.	0.6	1
86	Superconducting Current-Phase Relation and Andreev Bound States in Nb/Au/YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> Josephson Heterojunctions. Modern Physics Letters B, 2003, 17, 569-578.	1.0	1
87	Twinning and domain structure of epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> films studies by X-ray diffraction methods. Journal of Crystal Growth, 2005, 275, e2475-e2480.	0.7	1
88	Josephson Parameters of Bicrystal Junctions of a New Type Based on Metal Oxide Semiconductors. Technical Physics Letters, 2005, 31, 332.	0.2	1
89	Smooth NdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films and ramp Josephson junctions. Journal of Physics: Conference Series, 2006, 43, 1139-1142.	0.3	1
90	Microwave dynamics of Josephson structures with nontrivial current-phase relation. Journal of Communications Technology and Electronics, 2006, 51, 1078-1086.	0.2	1

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91	Increased magnetic moment induced by lattice expansion from $\hat{1}\pm\text{-Fe}$ to $\hat{1}\pm\text{-Fe}_{8\text{N}}$ . , 2015, , .		1
92	{001}-Textured Nb-Doped $\text{Pb}(\text{Zr,Ti})\text{O}_3$ Thin Films on Stainless Steel by Pulsed Laser Deposition. , 2021, , .		1
93	Experimental observation of an enhancement of superconducting gap in niobium thin film of superconducting double barrier structures. European Physical Journal D, 1996, 46, 653-654.	0.4	0
94	Metal Oxide Bicrystal Josephson Junctions of a New Type with High Critical Parameters. Technical Physics Letters, 2005, 31, 189.	0.2	0
95	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
96	All-Oxide Thin Film Varactor: From Test Structure to SMD Component. , 2019, , .		0
97	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
98	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
99	Spectroscopy of highly conductive SMO thin film in the THz range. , 2020, , .		0