

Irene lucas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7310613/publications.pdf>

Version: 2024-02-01

41
papers

1,096
citations

471371

17
h-index

395590

33
g-index

41
all docs

41
docs citations

41
times ranked

1710
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition of laser-induced terahertz spin currents from torque- to conduction-electron-mediated transport. <i>Physical Review B</i> , 2022, 105, .	1.1	17
2	Quantification of the interfacial and bulk contributions to the longitudinal spin Seebeck effect. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	14
3	Engineering the spin conversion in graphene monolayer epitaxial structures. <i>APL Materials</i> , 2021, 9, .	2.2	9
4	Strong Crystallographic Influence on Spin Hall Mechanism in PLD-Grown IrO ₂ Thin Films. <i>Nanomaterials</i> , 2021, 11, 1478.	1.9	2
5	Dimensionality-driven metal-insulator transition in spin-orbit-coupled IrO ₂ . <i>Nanoscale</i> , 2021, 13, 17125-17135.	2.8	3
6	Tuning Coherent-Phonon Heat Transport in LaCoO ₃ /SrTiO ₃ Superlattices. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11878-11885.	2.1	5
7	Ferromagnetic epitaxial Cr ₂ O ₃ thin films grown on oxide substrates by Pulsed Laser Deposition. <i>Applied Surface Science</i> , 2020, 534, 147638.	3.1	4
8	Interfacial ferromagnetism and atomic structures in high-temperature grown Fe ₃ O ₄ /Pt/Fe ₃ O ₄ epitaxial trilayers. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	12
9	Room-Temperature AFM Electric-Field-Induced Topotactic Transformation between Perovskite and Brownmillerite SrFeO _x with Sub-Micrometer Spatial Resolution. <i>Advanced Functional Materials</i> , 2019, 29, 1901984.	7.8	15
10	Interface-induced anomalous Nernst effect in Fe ₃ O ₄ /Pt-based heterostructures. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	32
11	Apparent auxetic to non-auxetic crossover driven by Co ²⁺ redistribution in CoFe ₂ O ₄ thin films. <i>APL Materials</i> , 2019, 7, .	2.2	11
12	Observation of a topologically protected state in a magnetic domain wall stabilized by a ferromagnetic chemical barrier. <i>Scientific Reports</i> , 2018, 8, 16695.	1.6	35
13	Highly Bi-doped Cu thin films with large spin-mixing conductance. <i>APL Materials</i> , 2018, 6, .	2.2	5
14	Enhanced thermo-spin effects in iron-oxide/metal multilayers. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 224003.	1.3	9
15	Temperature dependence of the spin Seebeck effect in [Fe ₃ O ₄ /Pt] _n multilayers. <i>AIP Advances</i> , 2017, 7, .	0.6	19
16	Magnetic hardening and domain structure in Co/Pt antidots with perpendicular anisotropy. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 065003.	1.3	10
17	Spin Seebeck effect in insulating epitaxial ⁵⁷ Fe ₂ O ₃ thin films. <i>APL Materials</i> , 2017, 5, .	2.2	23
18	Terahertz Spin Currents and Inverse Spin Hall Effect in Thin-Film Heterostructures Containing Complex Magnetic Compounds. <i>Spin</i> , 2017, 07, 1740010.	0.6	65

#	ARTICLE	IF	CITATIONS
19	Enhancement of the spin Peltier effect in multilayers. Physical Review B, 2017, 95, .	1.1	36
20	Chemical solution synthesis and ferromagnetic resonance of epitaxial thin films of yttrium iron garnet. Physical Review Materials, 2017, 1, .	0.9	13
21	Assessment of Layer Thickness and Interface Quality in CoP Electrodeposited Multilayers. ACS Applied Materials & Interfaces, 2016, 8, 18930-18934.	4.0	0
22	Thermoelectric performance of spin Seebeck effect in Fe ₃ O ₄ /Pt-based thin film heterostructures. APL Materials, 2016, 4, 104802.	2.2	42
23	Characteristic length scale of the magnon accumulation in Fe ₃ O ₄ /Pt bilayer structures by incoherent thermal excitation. Applied Physics Letters, 2016, 109, .	1.5	20
24	Langmuir-Blodgett Films of the Metal-Organic Framework MIL-101(Cr): Preparation, Characterization, and CO ₂ Adsorption Study Using a QCM-Based Setup. ACS Applied Materials & Interfaces, 2016, 8, 16486-16492.	4.0	49
25	Independent Control of the Magnetization in Ferromagnetic La _{2/3} Sr _{1/3} MnO ₃ /SrTiO ₃ /LaCoO ₃ Heterostructures Achieved by Epitaxial Lattice Mismatch. Nano Letters, 2016, 16, 1736-1740.	4.5	19
26	Unconventional scaling and significant enhancement of the spin Seebeck effect in multilayers. Physical Review B, 2015, 92, .	1.1	73
27	Control of the spin to charge conversion using the inverse Rashba-Edelstein effect. Applied Physics Letters, 2015, 106, .	1.5	66
28	Observation of the Strain Induced Magnetic Phase Segregation in Manganite Thin Films. Nano Letters, 2015, 15, 492-497.	4.5	35
29	Tunnel Conduction in Epitaxial Bilayers of Ferromagnetic LaCoO ₃ /La _{2/3} Sr _{1/3} MnO ₃ Deposited by a Chemical Solution Method. ACS Applied Materials & Interfaces, 2014, 6, 21279-21285.	4.0	10
30	Anomalous Nernst effect of Fe ₃ O ₄ single crystal. Physical Review B, 2014, 90, .	1.1	100
31	Influence of the substrate on the anomalous Nernst effect of magnetite thin films. Materials Research Society Symposia Proceedings, 2014, 1674, 19.	0.1	0
32	Observation of the spin Seebeck effect in epitaxial Fe ₃ O ₄ thin films. Applied Physics Letters, 2013, 102, .	1.5	163
33	Epitaxial Growth of Superconducting Ba(Fe _{1-x} Co _x) ₂ As ₂ Thin Films on Technical Ion Beam Assisted Deposition MgO Substrates. Applied Physics Express, 2011, 4, 013103.	1.1	79
34	In situ MEMS gradiometer with nanometer-resolution optical detection system. Sensors and Actuators A: Physical, 2010, 159, 33-40.	2.0	2
35	Resonance frequency dependence on out-of-plane forces for square silicon membranes: Applications to a MEMS gradiometer. Sensors and Actuators A: Physical, 2010, 163, 75-81.	2.0	6
36	A New Single-Sensor Magnetic Field Gradiometer. Sensor Letters, 2009, 7, 563-570.	0.4	11

#	ARTICLE	IF	CITATIONS
37	Optimization of magnetic properties of electrodeposited CoP multilayers for sensor applications. Journal of Applied Physics, 2007, 101, 043907.	1.1	16
38	Pinning field and coercivity in CoP alloys. Journal of Magnetism and Magnetic Materials, 2007, 316, 462-464.	1.0	10
39	Analytical model for the sensitivity of a toroidal fluxgate sensor. Sensors and Actuators A: Physical, 2006, 130-131, 142-146.	2.0	12
40	Magnetic properties of CoP alloys electrodeposited at room temperature. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1513-1516.	1.0	39
41	Optimization of YIG/Bi stacks for spin-to-charge conversion and influence of aging. Journal Physics D: Applied Physics, 0, , .	1.3	5