Saulius Balevicius

List of Publications by Year
in descending order

75 papers	739 citations	567281 15 h-index	677142 22 g-index
75 all docs	75 docs citations	75 times ranked	492 citing authors

#	Article	IF	Citations
1	Magnetic Diffusion in Railguns: Measurements Using CMR-Based Sensors. IEEE Transactions on Magnetics, 2009, 45, 430-435.	2.1	50
2	Highly Local Measurements of Strong Transient Magnetic Fields During Railgun Experiments Using CMR-Based Sensors. IEEE Transactions on Magnetics, 2007, 43, 370-375.	2.1	38
3	B-Scalar Sensor Using CMR Effect in Thin Polycrystalline Manganite Films. IEEE Transactions on Plasma Science, 2011, 39, 411-416.	1.3	36
4	The link between yeast cell wall porosity and plasma membrane permeability after PEF treatment. Scientific Reports, 2019, 9, 14731.	3.3	32
5	Evaluation of affinity sensor response kinetics towards dimeric ligands linked with spacers of different rigidity: Immobilized recombinant granulocyte colony-stimulating factor based synthetic receptor binding with genetically engineered dimeric analyte derivatives. Biosensors and Bioelectronics, 2020, 156, 112112.	10.1	27
6	Electric fieldâ€induced effects on yeast cell wall permeabilization. Bioelectromagnetics, 2014, 35, 136-144.	1.6	24
7	B-Scalar Measurements by CMR-Based Sensors of Highly Inhomogeneous Transient Magnetic Fields. IEEE Transactions on Magnetics, 2009, 45, 5301-5306.	2.1	23
8	CMR-B-Scalar Sensor Application for High Magnetic Field Measurement in Nondestructive Pulsed Magnets. IEEE Transactions on Magnetics, 2013, 49, 5480-5484.	2.1	19
9	Magnetic Diffusion Inside the Rails of an Electromagnetic Launcher: Experimental and Numerical Studies. IEEE Transactions on Plasma Science, 2013, 41, 2790-2795.	1.3	19
10	Modelling of immunosensor response: the evaluation of binding kinetics between an immobilized receptor and structurally-different genetically engineered ligands. Sensors and Actuators B: Chemical, 2019, 297, 126770.	7.8	18
11	Increase of Operating Temperature of Magnetic Field Sensors Based on Laâ€“Srâ€“Mnâ€“O Films With Mn Excess. IEEE Transactions on Plasma Science, 2019, 47, 4530-4535.	1.3	18
12	Total internal reflection ellipsometry for kinetics-based assessment of bovine serum albumin immobilization on ZnO nanowires. Journal of Materials Chemistry C, 2021, 9, 1345-1352.	5.5	18
13	High quality YBa2Cu3O7 films grown on LaAlO3 by single source pulsed metalorganic chemical vapor deposition. Journal of Crystal Growth, 1998, 191, 79-83.	1.5	17
14	Colossal Magnetoresistance Properties ofÂLa0.83Sr0.17MnO3 Thin Films Grown by MOCVD onÂLucalox Substrate. Journal of Low Temperature Physics, 2010, 159, 64-67.	1.4	16
15	Current Distribution and Contact Mechanisms in Static Railgun Experiments With Brush Armatures. IEEE Transactions on Plasma Science, 2011, 39, 431-436.	1.3	16
16	Velocity-Induced Current Profiles Inside the Rails of an Electric Launcher. IEEE Transactions on Plasma Science, 2013, 41, 1520-1525.	1.3	15
17	Permeabilization of yeast <i>Saccharomyces cerevisiae</i> cell walls using nanosecond high power electrical pulses. Applied Physics Letters, 2014, 105, .	3.3	15
18	Compact Square-Wave Pulse Electroporator with Controlled Electroporation Efficiency and Cell Viability. Symmetry, 2020, 12, 412.	2.2	15

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19	Nanosecond switching in amorphous In2Te3 films. Physica Status Solidi A, 1976, 35, K41-K43.	1.7	14
20	Theoretical Analysis and Experimental Determination of the Relationships Between the Parameters of the Electric Field Pulse Required to Electroporate the Cells. IEEE Transactions on Plasma Science, 2013, 41, 2913-2919.	1.3	14
21	Investigation and Comparison of Specific Antibodiesâ€™ Affinity Interaction with SARS-CoV-2 Wild-Type, B.1.1.7, and B.1.351 Spike Protein by Total Internal Reflection Ellipsometry. Biosensors, 2022, 12, 351.	4.7	14
22	Dynamics of resistivity response of La0.67Ca0.33MnO3 films in pulsed high magnetic fields. Journal of Magnetism and Magnetic Materials, 2000, 211, 243-247.	2.3	13
23	Nanostructured Laâ€"Srâ€"Mnâ€"Coâ€"O Films for Room-Temperature Pulsed Magnetic Field Sensors. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	13
24	Porous Aluminium Oxide Coating for the Development of Spectroscopic Ellipsometry Based Biosensor: Evaluation of Human Serum Albumin Adsorption. Coatings, 2020, 10, 1018.	2.6	12
25	Investigation of SARS-CoV-2 nucleocapsid protein interaction with a specific antibody by combined spectroscopic ellipsometry and quartz crystal microbalance with dissipation. Journal of Colloid and Interface Science, 2022, 626, 113-122.	9.4	12
26	Vilnius High Magnetic Field Centre Facilities. Journal of Low Temperature Physics, 2010, 159, 406-409.	1.4	11
27	Magnetoresistance and Resistance Relaxation of Nanostructured La-Ca-MnO Films in Pulsed Magnetic Fields. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	11
28	Room temperature Co-doped manganite/graphene sensor operating at high pulsed magnetic fields. Scientific Reports, 2019, 9, 9497.	3.3	11
29	On the effects of threshold switching and memory in In2 Te3 thin amorphous films. Physica Status Solidi A, 1975, 32, K11-K13.	1.7	10
30	Fast Protector Against EMP Using Thin Epitaxial and Polycrystalline Manganite Films. IEEE Electron Device Letters, 2011, 32, 551-553.	3.9	10
31	System for the Nanoporation of Biological Cells Based on an Optically-Triggered High-Voltage Spark-Gap Switch. IEEE Transactions on Plasma Science, 2013, 41, 2706-2711.	1.3	10
32	Structural transformations in thin amorphous semiconductor films induced by electrical nanosecond switching. Thin Solid Films, 1984, 112, 75-80.	1.8	9
33	Two-phase structure of ultra-thin Laâ€"Srâ€"MnO films. Thin Solid Films, 2006, 515, 691-694.	1.8	9
34	Fast reversible thermoelectrical switching in manganite thin films. Applied Physics Letters, 2007, 90, 212503.	3.3	9
35	Hybrid graphene-manganite thin film structure for magnetoresistive sensor application. Nanotechnology, 2019, 30, 355503.	2.6	9
36	Manganite Sensor for Measurements of Magnetic Field Disturbances of Pulsed Actuators. Solid State Phenomena, 2006, 113, 459-464.	0.3	8

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37	High-Frequency CMR-B-Scalar Sensor for Pulsed Magnetic Field Measurement. IEEE Transactions on Plasma Science, 2013, 41, 2885-2889.	1.3	7
38	Hand-Held Magnetic Field Meter Based on Colossal Magnetoresistance-B-Scalar Sensor. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2808-2816.	4.7	7
39	Magnetic Field Measurements during Magnetic Pulse Welding Using CMR-B-Scalar Sensors. Sensors, 2020, 20, 5925.	3.8	7
40	Magnetic Field Expulsion From a Conducting Projectile in a Pulsed Serial Augmented Railgun. IEEE Transactions on Plasma Science, 2020, 48, 727-732.	1.3	7
41	Ageing effects on electrical resistivity and magnetoresistance of nanostructured manganite films. Lithuanian Journal of Physics, 2012, 52, 224-230.	0.4	7
42	Magnetoresistance Relaxation in Thin La-Sr-Mn-O Films Exposed to High-Pulsed Magnetic Fields. IEEE Transactions on Plasma Science, 2013, 41, 2830-2835.	1.3	6
43	Uniaxial stress influence on electrical conductivity of thin epitaxial lanthanum-strontium manganite films. Thin Solid Films, 2013, 540, 194-201.	1.8	6
44	Nanostructured Manganite Films Grown by Pulsed Injection MOCVD: Tuning Low- and High-Field Magnetoresistive Properties for Sensors Applications. Sensors, 2022, 22, 605.	3.8	6
45	Electric Properties of Contacts t o HTS Thin Films at Current Densities J > J c. Journal of Low Temperature Physics, 1999, 117, 1555-1559.	1.4	5
46	Relaxation of La0.67Ca0.33MnO3 Films Resistance in Pulsed High Magnetic Fields. Journal of Low Temperature Physics, 1999, 117, 1653-1657.	1.4	5
47	Negative magnetoresistance of polycrystalline thin Bi1ÂxSbxalloy films in quantizing magnetic fields. Semiconductor Science and Technology, 2003, 18, 430-433.	2.0	5
48	EMP Effects on High-<tex>$T _c$</tex>Superconducting Devices. IEEE Transactions on Applied Superconductivity, 2004, 14, 112-118.	1.7	5
49	Accelerated ageing effects in nanostructured La0.83Sr0.17MnO3 films. Thin Solid Films, 2015, 589, 331-337.	1.8	5
50	Improvement in the long-term stability of parameters of encapsulated magnetic field sensors based on LaSrMnO thin films. Sensors and Actuators A: Physical, 2015, 228, 112-117.	4.1	5
51	Magnetoresistance Relaxation Anisotropy of Nanostructured La-Sr(Ca)-Mn-O Films Induced by High-Pulsed Magnetic Fields. IEEE Transactions on Plasma Science, 2017, 45, 2773-2779.	1.3	5
52	Fast Resistance Relaxation in Nanostructured Laâ€“Caâ€“Mnâ€“O Films in Pulsed Magnetic Fields. IEEE Transactions on Plasma Science, 2015, 43, 3445-3450.	1.3	4
53	European Laboratories for Pulsed Power Research. Journal of the Korean Physical Society, 2011, 59, 3594-3598.	0.7	4
54	Flux flow during high power nanosecond S-N switching in thin high-T/sub c/ films. IEEE Transactions on Magnetics, 1993, 29, 3589-3591.	2.1	3

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55	Electric properties of planar Ag/HgBa2CaCu2O6+Î´ interface. Physica C: Superconductivity and Its Applications, 1999, 316, 83-88.	1.2	3
56	An Increase of a Down-Hole Nuclear Magnetic Resonance Toolâ€™s Reliability and Accuracy by the Cancellation of a Multi-Module DC/AC Converterâ€™s Outputâ€™s Higher Harmonics. IEEE Access, 2016, 4, 7912-7920.	4.2	3
57	Compact Manganite-Graphene Magnetoresistive Sensor. IEEE Magnetics Letters, 2019, 10, 1-5.	1.1	3
58	Fast High-Voltage Light Triggered Superconducting Opening Switch. Journal of Low Temperature Physics, 1999, 117, 1561-1565.	1.4	2
59	Electrical Conductivity of Thin Polycrystalline La0.83Sr0.17MnO3 Films in Pulsed High Electric andÂMagnetic Fields. Journal of Low Temperature Physics, 2010, 159, 68-71.	1.4	2
60	Specifics of the X7R capacitors application in the high frequency inverters. , 2016, , .		2
61	Influence of MOCVD Growth Pressure on Magnetoresistance of Nanostructured La-Ca-Mn-O Films Used for Magnetic Field Sensors. IEEE Transactions on Plasma Science, 2017, 45, 2780-2786.	1.3	2
62	Magnetoresistance anisotropy of ultrathin epitaxial La0.83Sr0.17MnO3 films. Journal of Applied Physics, 2017, 122, 213901.	2.5	2
63	The Application of a CMR-B-Scalar Sensor for the Investigation of the Electromagnetic Acceleration of Type II Superconductors. Sensors, 2021, 21, 1293.	3.8	2
64	Nanostructured Manganite Films as Protectors Against Fast Electromagnetic Pulses. IEEE Transactions on Plasma Science, 2013, 41, 2890-2895.	1.3	1
65	Laâ€"Srâ€"Mnâ€"Coâ€"O Films for High Pulsed Magnetic Field Measurements at Cryogenic Temperatures. IEEE Transactions on Plasma Science, 2019, 47, 4541-4546.	1.3	1
66	Pulsed magnetic flux penetration dynamics inside a thin-walled superconducting tube. Journal of Applied Physics, 2020, 127, 113901.	2.5	1
67	Frequency Dependence of Electrical Response of Polycrystalline LCMO Thin Films. Acta Physica Polonica A, 2005, 107, 193-197.	0.5	1
68	<title>Short electrical pulse generation using light-induced switching in high-Tc superconductors</title>. , 2001, , .		0
69	RAMAN SCATTERING IN THE MAGNETIZED SEMICONDUCTOR PLASMA. International Journal of Modern Physics B, 2004, 18, 3825-3829.	2.0	0
70	Large effect of the deformation on magnetoresistance of stretched and compressed thin polycrystalline Bi films. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 293-297.	1.8	0
71	Distributed laboratory system for characterization of current distribution in electromagnetic rail launchers. , 2011, , .		0
72	Current Sensing System for Protection of High Power Frequency Converters. IEEE Transactions on Plasma Science, 2013, 41, 2896-2900.	1.3	0

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73	Fast Two-stage Protector Against Electromagnetic Pulse Based on Electroresistance Effect in Polycrystalline La-Sr(Ca)-Mn-O Films. Medziagotyra, 2014, 20, .	0.2	0
74	Multistep Accelerated Aging of Magnetic Field Sensors Based on Nanostructured Laâ€“Srâ€“Mnâ€“O Thin Films. IEEE Transactions on Plasma Science, 2017, 45, 2787-2793.	1.3	0
75	Relaxation of Ferromagnetic and Paramagnetic State of Thin La-Sr-MnO Films Exposed by High-Power Picosecond Duration Optical Pulses. IEEE Transactions on Plasma Science, 2017, 45, 2794-2799.	1.3	0