

# Andrii Shapovalov

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3440163/andrii-shapovalov-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46  
papers

244  
citations

11  
h-index

14  
g-index

52  
ext. papers

288  
ext. citations

1.2  
avg, IF

2.6  
L-index

#	Paper	IF	Citations
46	Oxygen lattice disorder in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> epitaxial films with enlarged c-axis lattice parameter. <i>Superconductor Science and Technology</i> , <b>1992</b> , 5, 283-289	3.1	27
45	Transition from Coulomb blockade to resonant transmission regime in superconducting tunnel junctions with W-doped Si barriers. <i>Materials Research Express</i> , <b>2014</b> , 1, 026001	1.7	18
44	Analysis of Internally Shunted Josephson Junctions. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2016</b> , 26, 1-5	1.8	17
43	Higher borides and oxygen-enriched MgB <sub>2</sub> inclusions as possible pinning centers in nanostructural magnesium diboride and the influence of additives on their formation. <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, 935-938	1.3	17
42	Tunneling through localized barrier states in superconducting heterostructures. <i>Low Temperature Physics</i> , <b>2016</b> , 42, 426-428	0.7	17
41	Universal Character of Tunnel Conductivity of Metalinsulator-Metal Heterostructures with Nanosized Oxide Barriers. <i>Physics Procedia</i> , <b>2012</b> , 36, 94-99		15
40	. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2017</b> , 27, 1-7	1.8	13
39	Effect of higher borides and inhomogeneity of oxygen distribution on critical current density of undoped and doped magnesium diboride. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 234, 012031	0.3	13
38	Charge transport in superconducting MoReBi(W)/MoRe heterostructures with hybrid semiconductor barrier containing metal nanoclusters. <i>Low Temperature Physics</i> , <b>2017</b> , 43, 877-881	0.7	12
37	YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> epitaxial films prepared by RF magnetron sputtering: deposition mechanisms, structure and superconducting properties. <i>Superconductor Science and Technology</i> , <b>1991</b> , 4, 149-152	3.1	12
36	Formation of nanostructure in magnesium diboride based materials with high superconducting characteristics. <i>Low Temperature Physics</i> , <b>2016</b> , 42, 380-394	0.7	12
35	Nanostructural Superconducting Materials for Fault Current Limiters and Cryogenic Electrical Machines. <i>Acta Physica Polonica A</i> , <b>2010</b> , 117, 7-14	0.6	11
34	Pinning in high performance MgB <sub>2</sub> thin films and bulks: Role of Mg-B-O nano-scale inhomogeneities. <i>Physica C: Superconductivity and Its Applications</i> , <b>2017</b> , 533, 36-39	1.3	10
33	Structure and Properties of MgB <sub>2</sub> Bulks, Thin Films, and Wires. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2017</b> , 27, 1-5	1.8	8
32	Tunneling-Spectroscopy Evidence for Two-Gap Superconductivity in a Binary Mo-Re Alloy. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2020</b> , 33, 569-574	1.5	7
31	The effect of size of the SiC inclusions in the AlN/SiC composite structure on its electrophysical properties. <i>Journal of Superhard Materials</i> , <b>2016</b> , 38, 241-250	0.9	5
30	On the possibility of faster detection of magnetic flux changes in a single-photon counter by RF SQUID with MoReBi(W)/MoRe junction. <i>Low Temperature Physics</i> , <b>2019</b> , 45, 776-784	0.7	4

29	Small capacitance self-shunted MoReBi(W)MoRe junctions for SQUIDs applications. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 2843-2848	3.3	3
28	Structure and Properties of MgB <sub>2</sub> : Effect of Ti-O and TiC Additions. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	3
27	Structure and properties of MgB <sub>2</sub> bulks: ab-initio simulations compared to experiment. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 756, 012020	0.4	2
26	Negative differential conductance in doped-silicon nanoscale devices with superconducting electrodes. <i>Applied Nanoscience (Switzerland)</i> , <b>2018</b> , 8, 1025-1030	3.3	2
25	High Pressure Synthesized Magnesium Diboride- and Dodecaboride-Based Superconductors: Structure and Properties. <i>Materials Science Forum</i> , <b>2010</b> , 670, 21-27	0.4	2
24	Synthesis Peculiarities of CNT Forest Under Conditions of Adding a Regulated Plasma Component of the Working Gas. <i>Journal of Superhard Materials</i> , <b>2018</b> , 40, 267-273	0.9	2
23	Critical Current Density, Pinning and Nanostructure of MT-YBCO and MgB <sub>2</sub> -based Materials. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 31, 1-5	1.8	2
22	MgB <sub>2</sub> -based superconductors for fault current limiters. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 171, 012144	0.4	1
21	Electrical Characteristics of Long Josephson Junctions Based on Tungsten Nanorods as Weak Links: Effect of Random Critical-Current Distributions. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-6	1.8	1
20	Preparation and Properties of MgB <sub>2</sub> Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-7	1.8	1
19	Josephson effect in superconducting junctions with a semiconducting barrier containing metallic nanoclusters. <i>Physica C: Superconductivity and Its Applications</i> , <b>2019</b> , 566, 1353539	1.3	1
18	Structure and superconducting characteristics of magnesium diboride, substitution of boron atoms by oxygen and carbon. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 279, 012023	0.4	1
17	Tunneling characteristics of superconducting junctions with inhomogeneous tunnel barriers. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2013</b> , 44, 205-209	0.9	1
16	Influence of high pressures and temperatures on the behaviour of Bismuth-based superconductors. <i>Journal of the European Ceramic Society</i> , <b>1994</b> , 14, 221-225	6	1
15	Crystal structure of epitaxial YBCO films prepared on (001) MgO substrates at low oxygen partial pressures. <i>Cryogenics</i> , <b>1992</b> , 32, 608-611	1.8	1
14	Pinning and trapped field in MgB <sub>2</sub> - and MT-YBaCuO bulk superconductors manufactured under pressure. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 695, 012001	0.3	1
13	Dissipation effects in superconducting heterostructures with tungsten nanorods as weak links. <i>Low Temperature Physics</i> , <b>2018</b> , 44, 252-256	0.7	0
12	Effect of the deposition technological parameters on the transparencies distribution functions of Josephson junction barriers. <i>Journal of Superhard Materials</i> , <b>2014</b> , 36, 180-186	0.9	

11	Structure and properties of oxygen-containing thin films and bulk MgB <sub>2</sub> . <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 102, 012030	0.4
10	Influence of space charge on the critical rayleigh number in a solution with concentration polarization. <i>Fluid Dynamics</i> , <b>1988</b> , 22, 660-664	0.7
9	Influence of external microwave radiation on transport characteristics of superconducting MoRe-Si(W)-MoRe junctions. <i>Low Temperature Physics</i> , <b>2021</b> , 47, 908-911	0.7
8	Influence of Oxygen Concentration and Distribution on Microstructure and Superconducting Characteristics of MgB <sub>2</sub> -Based Materials and Melt-Textured YBCO. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2021</b> , 1-1	1.8
7	The Physical Nature of Resistive Switchings in Mesoscopic Contacts Based on the Complex Oxides of the Transition Metals. <i>Metallofizika I Noveishie Tekhnologii</i> , <b>2017</b> , 39, 1005-1016	0.5
6	Structure and Transport Characteristics of Tunnel Junctions with Hybrid Semiconductor Barriers with Quantum Dots. <i>Acta Physica Polonica A</i> , <b>2018</b> , 133, 1060-1064	0.6
5	Phase Synchronization in a System of Parallel Connected Nano-Sized Josephson Contacts by External High-Frequency Field. <i>Metallofizika I Noveishie Tekhnologii</i> , <b>2019</b> , 41, 417-425	0.5
4	Superconducting Hybrid Heterostructures MoReBi(W)/MoRe and Charge Transport Through Localized States in the Barrier. <i>Metallofizika I Noveishie Tekhnologii</i> , <b>2019</b> , 41, 565-582	0.5
3	Josephson Junctions with the Increased Value of a Characteristic Voltage. <i>Metallofizika I Noveishie Tekhnologii</i> , <b>2016</b> , 38, 319-328	0.5
2	Optical Emission Spectroscopy of Magnethron Discharge Ar/Cu Plasma. <i>Plasma Physics and Technology</i> , <b>2019</b> , 6, 87-90	0.4
1	Hybrid shield for microwave single-photon counter based on a flux qubit. <i>Low Temperature Physics</i> , <b>2022</b> , 48, 228-231	0.7