

# Krastyo Buchkov

## List of Publications by Year in descending order

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38  
papers

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citations

758635

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794141

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g-index

38  
all docs

38  
docs citations

38  
times ranked

323  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vortex pinning properties in Fe-chalcogenides. Superconductor Science and Technology, 2015, 28, 125001.	1.8	40
2	Evidence of pinning crossover and the role of twin boundaries in the peak effect in FeSeTe iron based superconductor. Superconductor Science and Technology, 2018, 31, 015014.	1.8	40
3	Evaluation of the intragrain critical current density in a multidomain FeSe crystal by means of dc magnetic measurements. Superconductor Science and Technology, 2015, 28, 115005.	1.8	34
4	Critical current and flux dynamics in Ag-doped FeSe superconductor. Superconductor Science and Technology, 2017, 30, 025013.	1.8	29
5	A precursor mechanism triggering the second magnetization peak phenomenon in superconducting materials. Scientific Reports, 2021, 11, 7247.	1.6	25
6	Transport and pinning properties of Ag-doped FeSe <sub>0.94</sub> . Superconductor Science and Technology, 2015, 28, 025013.	1.8	22
7	Pinning energy and anisotropy properties of a Fe(Se, Te) iron based superconductor. Nanotechnology, 2019, 30, 254001.	1.3	21
8	Mixed state properties of iron based Fe(Se,Te) superconductor fabricated by Bridgman and by self-flux methods. Journal of Applied Physics, 2018, 123, .	1.1	20
9	Transport properties and high upper critical field of a Fe(Se,Te) iron based superconductor. European Physical Journal: Special Topics, 2019, 228, 725-731.	1.2	17
10	The Effect of Ag Addition on the Superconducting Properties of FeSe <sub>0.94</sub> . Journal of Superconductivity and Novel Magnetism, 2015, 28, 1135-1138.	0.8	13
11	Ag-doped FeSe <sub>0.94</sub> polycrystalline samples obtained through hot isostatic pressing with improved grain connectivity. Superconductor Science and Technology, 2016, 29, 095002.	1.8	13
12	Investigation of the vortex dynamics of Fe <sub>1.02</sub> Se crystals by fundamental and 3rd harmonic ac magnetic susceptibility analysis. Superconductor Science and Technology, 2015, 28, 035009.	1.8	12
13	Improvement of the superconducting properties of polycrystalline FeSe by silver addition. Superconductor Science and Technology, 2015, 28, 125013.	1.8	12
14	Doping dependence of irreversibility line in Y <sub>1-x</sub> CaxBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . Physica C: Superconductivity and Its Applications, 2010, 470, 421-427.	0.6	11
15	High Pinning Force Values of a Fe(Se, Te) Single Crystal Presenting a Second Magnetization Peak Phenomenon. Materials, 2021, 14, 5214.	1.3	9
16	Second Magnetization Peak Effect in a Fe(Se,Te) iron based superconductor. Journal of Physics: Conference Series, 2019, 1226, 012012.	0.3	8
17	Harmonic AC magnetic susceptibility analysis of FeSe crystals with composite morphology. Physica Scripta, 2019, 94, 085804.	1.2	8
18	Anisotropic Optical Response of WTe <sub>2</sub> Single Crystals Studied by Ellipsometric Analysis. Nanomaterials, 2021, 11, 2262.	1.9	8

#	ARTICLE	IF	CITATIONS
19	Features of excess conductivity and a possible pseudogap in FeSe superconductors. Low Temperature Physics, 2020, 46, 538-549.	0.2	6
20	Mixed state properties analysis in AC magnetic field of strong pinning Fe(Se,Te) single crystal. Superconductor Science and Technology, 2020, 33, 094006.	1.8	6
21	Fundamental and 3rd harmonic $\Delta$ ; magnetic susceptibility of over-doped polycrystalline $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ ( $x=0.025$ and $x=0.20$ ) samples. Physica C: Superconductivity and Its Applications, 2012, 473, 48-56.	0.6	5
22	A Comparative Study Between Electro and Magneto Excess Conductivities in FeTeSe Superconductors. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2751-2762.	0.8	5
23	Silver doping effects on irreversibility field and pinning energy of a FeSe iron based superconductor. Journal of Physics: Conference Series, 2020, 1548, 012024.	0.3	5
24	Magnetic field sweep rate influence on the critical current capabilities of a Fe(Se,Te) crystal. Journal of Applied Physics, 2020, 128, .	1.1	5
25	Synthesis and characterization of 2D platinum diselenide. Journal of Physics: Conference Series, 2020, 1492, 012022.	0.3	4
26	Magneto-optical characterization of ZnO / Ni nano-laminate obtained via Atomic Layer Deposition. Journal of Physics: Conference Series, 2021, 1762, 012041.	0.3	4
27	Fluctuating Cooper pairs in FeSe at temperatures exceeding double $T_c$ . Superconductor Science and Technology, 2021, 34, 015013.	1.8	4
28	Electro-transport studies of silver doped FeSe <sub>0.94</sub> superconducting system. AIP Conference Proceedings, 2016, , .	0.3	2
29	Magnetron sputtering of Fe-oxides on the top of HTS YBCO films. Journal of Magnetism and Magnetic Materials, 2017, 429, 138-141.	1.0	2
30	Synthesis and Characterizations of 2D Platinum Diselenide. , 0, , .		2
31	Evolution of WSe <sub>2</sub> Flakes Synthesized by Thermally Assisted Conversion Method. Coatings, 2022, 12, 353.	1.2	2
32	Effect of Sn-doping on the Superconducting Properties of HoBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> , Obtained by the MTG Method. Journal of Superconductivity and Novel Magnetism, 2014, 27, 763-769.	0.8	1
33	Properties Analysis of 2D PtSe <sub>2</sub> Layers Grown by Thermally Assisted Conversion of Chemical Vapor Deposition. , 2021, , .		1
34	Effect of Mechanochemical Treatment on Magnetic Properties of Nanodimensional Magnetite-Type Materials. Acta Physica Polonica A, 2014, 126, 912-915.	0.2	0
35	Inter-granular effects at high magnetic fields of cuprate and iron chalcogenide superconducting materials. Journal of Physics: Conference Series, 2019, 1186, 012004.	0.3	0
36	Scaling behavior of current-voltage characteristics of Fe <sub>1.02</sub> Se crystal. AIP Conference Proceedings, 2019, , .	0.3	0

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37	The Vortex Glass-Liquid Transition in Fe <sub>1.02</sub> Se Crystal. <i>Advanced Materials Letters</i> , 2019, 10, 627-632.	0.3	0
38	2D WSe <sub>2</sub> films synthesized by thermally assisted conversion method. , 2021, , .		0