

# Lukas Beran

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

586  
citations

759233

12  
h-index

752698

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

755  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical and magneto-optical behavior of Cerium Yttrium Iron Garnet thin films at wavelengths of 200–1770 nm. <i>Scientific Reports</i> , 2016, 6, 23640.	3.3	125
2	Magnetism and spin transport in rare-earth-rich epitaxial terbium and europium iron garnet films. <i>Physical Review Materials</i> , 2018, 2, .	2.4	77
3	Magneto-Optical Bi:YIG Films with High Figure of Merit for Nonreciprocal Photonics. <i>Advanced Optical Materials</i> , 2019, 7, 1900056.	7.3	56
4	Fast switching and signature of efficient domain wall motion driven by spin-orbit torques in a perpendicular anisotropy magnetic insulator/Pt bilayer. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	55
5	Optical and magneto-optical properties of Bi substituted yttrium iron garnets prepared by metal organic decomposition. <i>Optical Materials Express</i> , 2016, 6, 1986.	3.0	43
6	Enhanced magneto-optical effect in Y <sub>1.5</sub> Ce <sub>1.5</sub> Fe <sub>5</sub> O <sub>12</sub> thin films deposited on silicon by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2017, 703, 591-599.	5.5	35
7	Temperature-dependent Faraday rotation and magnetization reorientation in cerium-substituted yttrium iron garnet thin films. <i>APL Materials</i> , 2017, 5, .	5.1	32
8	Dynamics of native oxide growth on CdTe and CdZnTe X-ray and gamma-ray detectors. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 792-798.	6.1	25
9	High Figure of Merit Magneto-Optical Ce- and Bi-Substituted Terbium Iron Garnet Films Integrated on Si. <i>Advanced Optical Materials</i> , 2021, 9, 2100512.	7.3	25
10	Ferromagnetic resonance of perpendicularly magnetized Tm <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> /Pt heterostructures. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	23
11	Investigation of Deep Levels in CdZnTeSe Crystal and Their Effect on the Internal Electric Field of CdZnTeSe Gamma-Ray Detector. <i>IEEE Transactions on Nuclear Science</i> , 2019, 66, 1952-1958.	2.0	20
12	Magneto-optical spectroscopy of ferromagnetic shape-memory Ni-Mn-Ga alloy. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	13
13	Quadratic magneto-optic Kerr effect spectroscopy of Fe epitaxial films on MgO(001) substrates. <i>Physical Review B</i> , 2019, 100, .	3.2	11
14	Optical and magneto-optical properties of Gd <sub>x</sub> Fe <sub>(100-x)</sub> thin films close to the compensation point. <i>Scientific Reports</i> , 2019, 9, 16547.	3.3	11
15	Optical and magneto-optical studies of martensitic transformation in Ni-Mn-Ga magnetic shape memory alloys. <i>Journal of Applied Physics</i> , 2015, 117, 17A919.	2.5	9
16	Optical and Magneto-Optical Properties of Gd <sub>22</sub> Fe <sub>78</sub> Thin Films in the Photon Energy Range From 1.5 to 5.5 eV. <i>Materials</i> , 2016, 9, 23.	2.9	9
17	Magneto-optical spectroscopy of Co <sub>2</sub> FeSi Heusler compound. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	6
18	Electronic structure of La <sub>2/3</sub> Sr <sub>1/3</sub> MnO <sub>3</sub> : Interplay of oxygen octahedra rotations and epitaxial strain. <i>Physical Review B</i> , 2019, 99, .	3.2	5

#	ARTICLE	IF	CITATIONS
19	Magnetic and Magneto-Optical Properties of $\text{Fe}_{75}\text{Mn}_{25}\text{Ga}_x$ Heusler-like Compounds. <i>Materials</i> , 2020, 13, 703.	2.9	5
20	Spectral permittivity tensor and density functional theory calculations on the Heusler compound $\text{Co}_2\text{FeAl}_{0.5}\text{Si}_{0.5}$ . <i>Physical Review B</i> , 2021, 103, .	3.2	1
21	Ferrimagnetic garnets for integrated non-reciprocal devices. , 2020, , .		0