

Boris Vodungbo

List of Publications by Year in descending order

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39
papers

1,225
citations

471509

17
h-index

361022

35
g-index

40
all docs

40
docs citations

40
times ranked

1493
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast optical demagnetization manipulates nanoscale spin structure in domain walls. Nature Communications, 2012, 3, 1100.	12.8	168
2	Femtosecond Single-Shot Imaging of Nanoscale Ferromagnetic Order in Co/Pd Multilayers Using Resonant X-Ray Holography. Physical Review Letters, 2012, 108, 267403.	7.8	153
3	Laser-induced ultrafast demagnetization in the presence of a nanoscale magnetic domain network. Nature Communications, 2012, 3, 999.	12.8	149
4	Imaging Ultrafast Demagnetization Dynamics after a Spatially Localized Optical Excitation. Physical Review Letters, 2014, 112, .	7.8	113
5	Polarization control of high order harmonics in the EUV photon energy range. Optics Express, 2011, 19, 4346.	3.4	103
6	Table-top femtosecond soft X-ray laser by collisional ionization gating. Nature Photonics, 2015, 9, 817-821.	31.4	61
7	Indirect excitation of ultrafast demagnetization. Scientific Reports, 2016, 6, 18970.	3.3	61
8	Nanowires formation and the origin of ferromagnetism in a diluted magnetic oxide. Applied Physics Letters, 2009, 95, .	3.3	38
9	Investigating the role of superdiffusive currents in laser induced demagnetization of ferromagnets with nanoscale magnetic domains. Scientific Reports, 2014, 4, 4658.	3.3	38
10	Breakdown of the X-Ray Resonant Magnetic Scattering Signal during Intense Pulses of Extreme Ultraviolet Free-Electron-Laser Radiation. Physical Review Letters, 2013, 110, 234801.	7.8	37
11	Multi-color imaging of magnetic Co/Pt heterostructures. Structural Dynamics, 2017, 4, 014301.	2.3	32
12	Structural, magnetic and spectroscopic study of a diluted magnetic oxide: Co doped CeO_2 . Journal of Physics Condensed Matter, 2008, 20, 125222.	1.8	27
13	Structural dynamics during laser-induced ultrafast demagnetization. Physical Review B, 2017, 95, .	3.2	21
14	Laser-induced ultrafast demagnetization and perpendicular magnetic anisotropy reduction in a $\text{Co}_{88}\text{Tb}_{12}$ thin film with stripe domains. Physical Review B, 2020, 102, .	3.2	21
15	Wavelength scaling of ultrafast demagnetization in Co/Pt multilayers. Physical Review B, 2020, 101, .	3.2	19
16	Table-top resonant magnetic scattering with extreme ultraviolet light from high-order harmonic generation. Europhysics Letters, 2011, 94, 54003.	2.0	18
17	Time-Resolved XUV Absorption Spectroscopy and Magnetic Circular Dichroism at the Ni $M_{2,3}$ -Edges. Applied Sciences (Switzerland), 2021, 11, 325.	2.5	17
18	Transient magnetic gratings on the nanometer scale. Structural Dynamics, 2020, 7, 054501.	2.3	16

#	ARTICLE	IF	CITATIONS
19	Ultrafast Demagnetization Dominates Fluence Dependence of Magnetic Scattering at Co $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">M \rangle$ Edges. Physical Review Letters, 2020, 125, 127201.	7.8	15
20	Single-shot time-resolved magnetic x-ray absorption at a free-electron laser. Physical Review B, 2019, 99, .	3.2	12
21	Ultrafast Dynamics of Magnetic Domain Structures Probed by Coherent Free-Electron Laser Light. Synchrotron Radiation News, 2013, 26, 27-32.	0.8	9
22	Single-shot Monitoring of Ultrafast Processes via X-ray Streaking at a Free Electron Laser. Scientific Reports, 2017, 7, 7253.	3.3	9
23	Resonant Faraday effect using high-order harmonics for the investigation of ultrafast demagnetization. Physical Review B, 2019, 100, .	3.2	9
24	Element-Specific Magnetization Dynamics of Complex Magnetic Systems Probed by Ultrafast Magneto-Optical Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 7580.	2.5	9
25	Ultrafast magnetic scattering on ferrimagnets enabled by a bright Yb-based soft x-ray source. Optica, 2022, 9, 399.	9.3	8
26	Toward ultrafast magnetic depth profiling using time-resolved x-ray resonant magnetic reflectivity. Structural Dynamics, 2021, 8, 034305.	2.3	7
27	Sub-15-fs X-ray pump and X-ray probe experiment for the study of ultrafast magnetization dynamics in ferromagnetic alloys. Optics Express, 2021, 29, 32388.	3.4	7
28	Planar assembly of monodisperse metallic cobalt nanoparticles embedded in TiO ₂ matrix. Journal of Physics Condensed Matter, 2007, 19, 116205.	1.8	6
29	Investigating Coherent Magnetization Control with Ultrashort THz Pulses. Applied Sciences (Switzerland), 2022, 12, 1323.	2.5	6
30	Growth and structural analysis of diluted magnetic oxide Co-doped CeO ₂ films deposited on Si and SrTiO ₃ (100). Journal of Crystal Growth, 2008, 310, 3380-3385.	1.5	5
31	Comment on "Ultrafast Demagnetization Measurements Using Extreme Ultraviolet Light: Comparison of Electronic and Magnetic Contributions". Physical Review X, 2013, 3, .	8.9	5
32	Raman Redshift Compressor: A Simple Approach for Scaling the High Harmonic Generation Cut-off. Advanced Photonics Research, 2021, 2, 2100113.	3.6	5
33	Single-shot experiments at the soft X-FEL FERMI using a back-side-illuminated scientific CMOS detector. Journal of Synchrotron Radiation, 2022, 29, 103-110.	2.4	5
34	Element-selective analysis of ultrafast demagnetization in Co/Pt multilayers exhibiting large perpendicular magnetic anisotropy. Applied Physics Letters, 2022, 120, .	3.3	4
35	Analytic description and optimization of magneto-optical Kerr setups with photoelastic modulation. Review of Scientific Instruments, 2022, 93, .	1.3	4
36	Sub-100 nanometer lensless probing of Co/Pd magnetic nanodomains using a table-top femtosecond soft X-ray harmonic source. Journal of Modern Optics, 2013, 60, 1475-1483.	1.3	3

#	ARTICLE	IF	CITATIONS
37	Precise structural investigation of symmetric diblock copolymer thin films with resonant soft X-ray reflectivity. <i>Soft Matter</i> , 2013, 9, 8820.	2.7	3
38	Surface and bulk ordering in thin films of a symmetrical diblock copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1282-1287.	2.1	2
39	Imaging Non-Local Magnetization Dynamics. <i>Synchrotron Radiation News</i> , 2016, 29, 26-31.	0.8	0