

Dominik Kriegner

List of Publications by Year in descending order

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94
all docs

94
docs citations

94
times ranked

7879
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect-driven antiferromagnetic domain walls in CuMnAs films. Nature Communications, 2022, 13, 724.	12.8	8
2	Atomically sharp domain walls in an antiferromagnet. Science Advances, 2022, 8, eabn3535.	10.3	12
3	The Effect of Annealing Temperature on Antiferroelectric Zirconia. , 2022, , .		0
4	Role of Magnetic Exchange Interactions in Chiral-Type Hall Effects of Epitaxial Mn _x PtSn Films. ACS Applied Electronic Materials, 2021, 3, 1323-1333.	4.3	11
5	Strain-induced switching between noncollinear and collinear spin configuration in magnetic films. Physical Review B, 2021, 104, .	3.2	7
6	Anisotropic magnetothermal transport in thin films. Physical Review B, 2021, 104, .	3.2	7
7	Twin Domain Structure in Magnetically Doped Bi ₂ Se ₃ Topological Insulator. Nanomaterials, 2020, 10, 2059.	4.1	2
8	Spin flop and crystalline anisotropic magnetoresistance in CuMnAs. Physical Review B, 2020, 101, .	3.2	27
9	Thickness dependence of the anomalous Nernst effect and the Mott relation of Weyl semimetal thin films. Physical Review B, 2020, 101, .	3.2	40
10	Molecular beam epitaxy of CuMnAs. Physical Review Materials, 2020, 4, .	2.4	14
11	X-ray diffraction reveals the amount of strain and homogeneity of extremely bent single nanowires. Journal of Applied Crystallography, 2020, 53, 1310-1320.	4.5	3
12	Ferroelectric Self-Poling in GeTe Films and Crystals. Crystals, 2019, 9, 335.	2.2	22
13	Thickness dependence of the anomalous Hall effect in thin films of the topological semimetal. Physical Review B, 2019, 100, .	3.2	66
14	Spin glass behavior in the disordered half-Heusler compound IrMnGa. Physical Review B, 2019, 99, .	3.2	34
15	Structural instability in CePd ₂ (Al,Ga) ₂ and LaPd ₂ (Al,Ga) ₂ . Journal of Alloys and Compounds, 2019, 790, 480-492.	5.5	4
16	Investigation of Nanostructures with X-ray Scattering Techniques. Crystals, 2019, 9, 500.	2.2	0
17	Imaging and writing magnetic domains in the non-collinear antiferromagnet Mn ₃ Sn. Nature Communications, 2019, 10, 5459.	12.8	55
18	Giant enhancement of the skyrmion stability in a chemically strained helimagnet. Physical Review B, 2019, 100, .	3.2	8

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19	Interplay between Structural and Thermoelectric Properties in Epitaxial Sb ₂ Te ₃ Alloys. <i>Advanced Functional Materials</i> , 2019, 29, 1805184.	14.9	25
20	X-ray Diffraction Analysis of the Angular Stability of Self-Catalyzed GaAs Nanowires for Future Applications in Solar-Light-Harvesting and Light-Emitting Devices. <i>ACS Applied Nano Materials</i> , 2019, 2, 689-699.	5.0	8
21	Lattice distortion in TmCo ₂ : A poly- and single-crystal study. <i>Journal of Alloys and Compounds</i> , 2019, 775, 969-974.	5.5	1
22	Topological Hall effect in thin films of $Mn_{1-x}Co_x$. <i>Physical Review Materials</i> , 2019, 3, .	3.2	12
23	²⁷ Al-NMR studies of the structural phase transition in LaPd ₂ Al ₂ . <i>Physica B: Condensed Matter</i> , 2018, 536, 320-322.	2.7	1
24	Self-Seeded Axio-Radial InAs _{1-x} P _x Nanowire Heterostructures beyond ω -VLS Growth. <i>Nano Letters</i> , 2018, 18, 144-151.	9.1	15
25	Band structure of CuMnAs probed by optical and photoemission spectroscopy. <i>Physical Review B</i> , 2018, 97, .	3.2	22
26	Interfacial sharpness and intermixing in a Ge-SiGe multiple quantum well structure. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	16
27	Electrically induced and detected Néel vector reversal in a collinear antiferromagnet. <i>Nature Communications</i> , 2018, 9, 4686.	12.8	79
28	Large anomalous Nernst effect in thin films of the Weyl semimetal Co ₂ MnGa. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	92
29	Coherent X-ray diffraction imaging meets ptychography to study core-shell-shell nanowires. <i>MRS Advances</i> , 2018, 3, 2317-2322.	0.9	7
30	Antiferroelectricity in lanthanum doped zirconia without metallic capping layers and post-deposition/-metallization anneals. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	21
31	Giant magnetic response of a two-dimensional antiferromagnet. <i>Nature Physics</i> , 2018, 14, 806-810.	16.7	44
32	Structural disorder of natural $Bi_{1-x}Mn_x$ superlattices grown by molecular beam epitaxy. <i>Physical Review Materials</i> , 2018, 2, .	2.4	10
33	Quasi-epitaxial Metal-Halide Perovskite Ligand Shells on PbS Nanocrystals. <i>ACS Nano</i> , 2017, 11, 1246-1256.	14.6	74
34	High-resolution x-ray diffraction of epitaxial bismuth chalcogenide topological insulator layers. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2017, 8, 015006.	1.5	7
35	Structure of epitaxial SrIrO ₃ perovskite studied by interference between X-ray waves diffracted by the substrate and the thin film. <i>Journal of Applied Crystallography</i> , 2017, 50, 385-398.	4.5	11
36	Czochralski growth of LaPd ₂ Al ₂ single crystals. <i>Journal of Crystal Growth</i> , 2017, 475, 10-20.	1.5	6

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37	Twin domain imaging in topological insulator Bi_2Te_3 and Bi_2Se_3 epitaxial thin films by scanning X-ray nanobeam microscopy and electron backscatter diffraction. Journal of Applied Crystallography, 2017, 50, 369-377.	4.5	28
38	Observation of individual stacking faults in GaN microcrystals by x-ray nanodiffraction. Applied Physics Letters, 2017, 110, .	3.3	6
39	Magnetic properties of the CrMnFeCoNi high-entropy alloy. Physical Review B, 2017, 96, .	3.2	124
40	Unusual ferroelectric and magnetic phases in multiferroic O_3MnH ceramics. Physical Review B, 2017, 95, .	3.2	8
41	Cellular interfaces with hydrogen-bonded organic semiconductor hierarchical nanocrystals. Nature Communications, 2017, 8, 91.	12.8	51
42	Magnetic anisotropy in antiferromagnetic hexagonal MnTe. Physical Review B, 2017, 96, .	3.2	49
43	Magnetic structure of the mixed antiferromagnet O_3NdMn . Physical Review B, 2017, 96, .	3.2	7
44	Two-Dimensional Antiferromagnetic Insulator Unraveled from Interlayer Exchange Coupling in Artificial Perovskite Iridate Superlattices. Physical Review Letters, 2017, 119, 027204.	7.8	55
45	Properties of the divalent-Yb compound YbAu_2Si_2 under extreme conditions. Physica B: Condensed Matter, 2017, 505, 41-44.	2.7	3
46	Characterization of individual stacking faults in $\text{a}\text{-GaAs}$ nanowire by nanobeam X-ray diffraction. Journal of Synchrotron Radiation, 2017, 24, 981-990.	2.4	9
47	Threefold rotational symmetry in hexagonally shaped core-shell $(\text{In,Ga})\text{As}/\text{GaAs}$ nanowires revealed by coherent X-ray diffraction imaging. Journal of Applied Crystallography, 2017, 50, 673-680.	4.5	11
48	On the completeness of the β_1 transformation in metastable β_2 titanium alloys. Journal of Applied Crystallography, 2017, 50, 283-287.	4.5	11
49	Crystallization of Tyrian purple (6,6-dibromoindigo) thin films: The impact of substrate surface modifications. Journal of Crystal Growth, 2016, 447, 73-79.	1.5	4
50	Surface-Induced Phase of Tyrian Purple (6,6-Dibromoindigo): Thin Film Formation and Stability. Crystal Growth and Design, 2016, 16, 3647-3655.	3.0	15
51	Ferroelectric phase transitions in multiferroic $\text{Ge}_1-x\text{Mn}_x\text{Te}$ driven by local lattice distortions. Physical Review B, 2016, 94, .	3.2	13
52	Galvanic Exchange in Colloidal Metal/Metal-Oxide Core/Shell Nanocrystals. Journal of Physical Chemistry C, 2016, 120, 19848-19855.	3.1	9
53	Strain-induced nonsymmorphic symmetry breaking and removal of Dirac semimetallic nodal line in an orthoperovskite iridate. Physical Review B, 2016, 93, .	3.2	67
54	Disentangling bulk and surface Rashba effects in ferroelectric GeTe . Physical Review B, 2016, 94, .	3.2	74

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55	Multiple-stable anisotropic magnetoresistance memory in antiferromagnetic MnTe. Nature Communications, 2016, 7, 11623.	12.8	169
56	The instrumental resolution of a moire extensometer in light of its recent automatisisation. Measurement: Journal of the International Measurement Confederation, 2016, 91, 258-265.	5.0	16
57	Magneto-elastic coupling across the first-order transition in the distorted kagome lattice antiferromagnet Dy ₃ Ru ₄ Al ₁₂ . Journal of Magnetism and Magnetic Materials, 2016, 400, 125-129.	2.3	17
58	Strain distribution in single, suspended germanium nanowires studied using nanofocused x-rays. Nanotechnology, 2016, 27, 055705.	2.6	13
59	UH3-based ferromagnets: New look at an old material. Journal of Magnetism and Magnetic Materials, 2016, 400, 130-136.	2.3	18
60	Current-induced torques in structures with ultrathin IrMn antiferromagnets. Physical Review B, 2015, 92, .	3.2	46
61	In-plane tunnelling field-effect transistor integrated on Silicon. Scientific Reports, 2015, 5, 14367.	3.3	7
62	Phase Transformation in Radially Merged Wurtzite GaAs Nanowires. Crystal Growth and Design, 2015, 15, 4795-4803.	3.0	27
63	Electronic properties of ZrSi_2 by Zr. Physical Review B, 2015, 91, .	3.8	18
64	Detection of X-ray photons by solution-processed lead halide perovskites. Nature Photonics, 2015, 9, 444-449.	31.4	916
65	Structural investigations of the Si_{12}Ge superstructure. Journal of Applied Crystallography, 2015, 48, 262-268.	4.5	3
66	Hexagonal Silicon Realized. Nano Letters, 2015, 15, 5855-5860.	9.1	142
67	X-ray diffraction strain analysis of a single axial InAs nanowire segment. Journal of Synchrotron Radiation, 2015, 22, 59-66.	2.4	8
68	Powder diffraction in Bragg-Brentano geometry with straight linear detectors. Journal of Applied Crystallography, 2015, 48, 613-618.	4.5	35
69	Direct band gap wurtzite GaP nanowires for LEDs and quantum devices. Proceedings of SPIE, 2014, , .	7.9	13
70	Direct band gap wurtzite GaP nanowires for LEDs and quantum devices. Proceedings of SPIE, 2014, , .	0.8	0
71	A light-hole exciton in a quantum dot. Nature Physics, 2014, 10, 46-51.	16.7	111
72	Unraveling the Core-Shell Structure of Ligand-Capped Sn/SnO _x Nanoparticles by Surface-Enhanced Nuclear Magnetic Resonance, Mössbauer, and X-ray Absorption Spectroscopies. ACS Nano, 2014, 8, 2639-2648.	14.6	87

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73	Hydrogen-Bonded Organic Semiconductor Micro- And Nanocrystals: From Colloidal Syntheses to (Opto-)Electronic Devices. <i>Journal of the American Chemical Society</i> , 2014, 136, 16522-16532.	13.7	75
74	Gold-Free Ternary III-V Antimonide Nanowire Arrays on Silicon: Twin-Free down to the First Bilayer. <i>Nano Letters</i> , 2014, 14, 326-332.	9.1	88
75	Au-Seeded Growth of Vertical and in-Plane III-V Nanowires on Graphite Substrates. <i>Nano Letters</i> , 2014, 14, 1707-1713.	9.1	41
76	Tetragonal phase of epitaxial room-temperature antiferromagnet CuMnAs. <i>Nature Communications</i> , 2013, 4, 2322.	12.8	123
77	Structural investigation of GaInP nanowires using X-ray diffraction. <i>Thin Solid Films</i> , 2013, 543, 100-105.	1.8	15
78	Tuning the Magnetic Properties of Metal Oxide Nanocrystal Heterostructures by Cation Exchange. <i>Nano Letters</i> , 2013, 13, 586-593.	9.1	91
79	Direct Band Gap Wurtzite Gallium Phosphide Nanowires. <i>Nano Letters</i> , 2013, 13, 1559-1563.	9.1	262
80	Unit cell structure of the wurtzite phase of GaP nanowires: X-ray diffraction studies and density functional theory calculations. <i>Physical Review B</i> , 2013, 88, .	3.2	28
81	<i>xrayutilities</i> : a versatile tool for reciprocal space conversion of scattering data recorded with linear and area detectors. <i>Journal of Applied Crystallography</i> , 2013, 46, 1162-1170.	4.5	100
82	Particle-assisted GaInP nanowire growth for designed bandgap structures. <i>Nanotechnology</i> , 2012, 23, 245601.	2.6	48
83	From Highly Monodisperse Indium and Indium Tin Colloidal Nanocrystals to Self-Assembled Indium Tin Oxide Nanoelectrodes. <i>ACS Nano</i> , 2012, 6, 4113-4121.	14.6	48
84	Crystal structure control in Au-free self-seeded InSb wire growth. <i>Nanotechnology</i> , 2011, 22, 145603.	2.6	45
85	Unit cell parameters of wurtzite InP nanowires determined by x-ray diffraction. <i>Nanotechnology</i> , 2011, 22, 425704.	2.6	49
86	Diffuse x-ray scattering from stacking faults in a -plane GaN epitaxial layers. <i>Physical Review B</i> , 2011, 84, .	3.2	20
87	Polytypism of GaAs, InP, InAs, and InSb: An <i>ab initio</i> study. <i>Physical Review B</i> , 2011, 84, .	3.2	47
88	Unit Cell Structure of Crystal Polytypes in InAs and InSb Nanowires. <i>Nano Letters</i> , 2011, 11, 1483-1489.	9.1	117
89	Core-shell nanowires: From the ensemble to single-wire characterization. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 316-319.	1.4	15
90	Algorithms for the calculation of X-ray diffraction patterns from finite element data. <i>Journal of Applied Crystallography</i> , 2010, 43, 1287-1299.	4.5	3

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91	Analysis of periodic dislocation networks using x-ray diffraction and extended finite element modeling. Applied Physics Letters, 2010, 96, 131905.	3.3	16
92	Determination of the wurtzite content and orientation distribution of nanowire ensembles. Materials Research Society Symposia Proceedings, 2009, 1206, 113901.	0.1	0
93	Structural Investigations of Core-shell Nanowires Using Grazing Incidence X-ray Diffraction. Nano Letters, 2009, 9, 1877-1882.	9.1	47