

Dominik Kriegner

List of Publications by Year in descending order

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93
papers

4,267
citations

117625
34
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110387
64
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94
all docs

94
docs citations

94
times ranked

7879
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of X-ray photons by solution-processed lead halide perovskites. <i>Nature Photonics</i> , 2015, 9, 444-449.	31.4	916
2	Direct Band Gap Wurtzite Gallium Phosphide Nanowires. <i>Nano Letters</i> , 2013, 13, 1559-1563.	9.1	262
3	Multiple-stable anisotropic magnetoresistance memory in antiferromagnetic MnTe. <i>Nature Communications</i> , 2016, 7, 11623.	12.8	169
4	Hexagonal Silicon Realized. <i>Nano Letters</i> , 2015, 15, 5855-5860.	9.1	142
5	Magnetic properties of the CrMnFeCoNi high-entropy alloy. <i>Physical Review B</i> , 2017, 96, .	3.2	124
6	Tetragonal phase of epitaxial room-temperature antiferromagnet CuMnAs. <i>Nature Communications</i> , 2013, 4, 2322.	12.8	123
7	Unit Cell Structure of Crystal Polytypes in InAs and InSb Nanowires. <i>Nano Letters</i> , 2011, 11, 1483-1489.	9.1	117
8	A light-hole exciton in a quantum dot. <i>Nature Physics</i> , 2014, 10, 46-51.	16.7	111
9	<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
10	Large anomalous Nernst effect in thin films of the Weyl semimetal Co ₂ MnGa. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	92
11	Tuning the Magnetic Properties of Metal Oxide Nanocrystal Heterostructures by Cation Exchange. <i>Nano Letters</i> , 2013, 13, 586-593.	9.1	91
12	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
13	Unraveling the Core-Shell Structure of Ligand-Capped Sn/SnO _x Nanoparticles by Surface-Enhanced Nuclear Magnetic Resonance, Mössbauer, and X-ray Absorption Spectroscopies. <i>ACS Nano</i> , 2014, 8, 2639-2648.	14.6	87
14	Electrically induced and detected Néel vector reversal in a collinear antiferromagnet. <i>Nature Communications</i> , 2018, 9, 4686.	12.8	79
15	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
16	Disentangling bulk and surface Rashba effects in ferroelectric \pm -GeTe. <i>Physical Review B</i> , 2016, 94, .	3.2	74
17	Quasi-epitaxial Metal-Halide Perovskite Ligand Shells on PbS Nanocrystals. <i>ACS Nano</i> , 2017, 11, 1246-1256.	14.6	74
18	Strain-induced nonsymmorphic symmetry breaking and removal of Dirac semimetallic nodal line in an orthoperovskite iridate. <i>Physical Review B</i> , 2016, 93, .	3.2	67

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19	Thickness dependence of the anomalous Hall effect in thin films of the topological semimetal $\text{Co}$$\text{Mn}^{3.2}$$\text{Ir}$ Physical Review B, 2019, 100, .	6.6	66
20	Two-Dimensional Antiferromagnetic Insulator Unraveled from Interlayer Exchange Coupling in Artificial Perovskite Iridate Superlattices. Physical Review Letters, 2017, 119, 027204.	7.8	55
21	Imaging and writing magnetic domains in the non-collinear antiferromagnet Mn ₃ Sn. Nature Communications, 2019, 10, 5459.	12.8	55
22	Cellular interfaces with hydrogen-bonded organic semiconductor hierarchical nanocrystals. Nature Communications, 2017, 8, 91.	12.8	51
23	Unit cell parameters of wurtzite InP nanowires determined by x-ray diffraction. Nanotechnology, 2011, 22, 425704.	2.6	49
24	Magnetic anisotropy in antiferromagnetic hexagonal MnTe. Physical Review B, 2017, 96, .	3.2	49
25	Particle-assisted Ga_ix_{1-i}In_{1-x}P nanowire growth for designed bandgap structures. Nanotechnology, 2012, 23, 245601.	2.6	48
26	From Highly Monodisperse Indium and Indium Tin Colloidal Nanocrystals to Self-Assembled Indium Tin Oxide Nanoelectrodes. ACS Nano, 2012, 6, 4113-4121.	14.6	48
27	Structural Investigations of Core@shell Nanowires Using Grazing Incidence X-ray Diffraction. Nano Letters, 2009, 9, 1877-1882.	9.1	47
28	Polytypism of GaAs, InP, InAs, and InSb: An <i>ab initio</i> study. Physical Review B, 2011, 84, .	3.2	47
29	Current-induced torques in structures with ultrathin IrMn antiferromagnets. Physical Review B, 2015, 92, .	3.2	46
30	Crystal structure control in Au-free self-seeded InSb wire growth. Nanotechnology, 2011, 22, 145603.	2.6	45
31	Giant magnetic response of a two-dimensional antiferromagnet. Nature Physics, 2018, 14, 806-810.	16.7	44
32	Au-Seeded Growth of Vertical and in-Plane III-V Nanowires on Graphite Substrates. Nano Letters, 2014, 14, 1707-1713.	9.1	41
33	Thickness dependence of the anomalous Nernst effect and the Mott relation of Weyl semimetal thin films. Physical Review B, 2020, 101, .	3.2	40
34	Powder diffraction in Bragg-Brentano geometry with straight linear detectors. Journal of Applied Crystallography, 2015, 48, 613-618.	4.5	35
35	Spin glass behavior in the disordered half-Heusler compound IrMnGa. Physical Review B, 2019, 99, .	3.2	34
36	Topological Hall effect in thin films of Mn_iIr_{1-i} Physical Review Materials, 2019, 3, .	1.5	32

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37	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
38	Electronic properties of $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle mml:mrow>\langle mml:mi>1\pm</mml:mi>\langle mml:mtext>\hat{\alpha}</mml:mtext>\langle mml:math>$ by Zr. <i>Physical Review B</i> , 2015, 91, .			
39	Twin domain imaging in topological insulator Bi ₂ Te ₃ and Bi ₂ Se ₃ epitaxial thin films by scanning X-ray nanobeam microscopy and electron backscatter diffraction. <i>Journal of Applied Crystallography</i> , 2017, 50, 369-377.		4.5	28
40	Phase Transformation in Radially Merged Wurtzite GaAs Nanowires. <i>Crystal Growth and Design</i> , 2015, 15, 4795-4803.		3.0	27
41	Spin flop and crystalline anisotropic magnetoresistance in CuMnAs. <i>Physical Review B</i> , 2020, 101, .		3.2	27
42	Interplay between Structural and Thermoelectric Properties in Epitaxial Sb ₂₊ <i>i</i> Se _x <i>i</i> Te ₃ Alloys. <i>Advanced Functional Materials</i> , 2019, 29, 1805184.		14.9	25
43	Band structure of CuMnAs probed by optical and photoemission spectroscopy. <i>Physical Review B</i> , 2018, 97, .		3.2	22
44	Ferroelectric Self-Poling in GeTe Films and Crystals. <i>Crystals</i> , 2019, 9, 335.		2.2	22
45	Antiferroelectricity in lanthanum doped zirconia without metallic capping layers and post-deposition/-metallization anneals. <i>Applied Physics Letters</i> , 2018, 112, .		3.3	21
46	Diffuse x-ray scattering from stacking faults in $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"\ display="inline">\langle mml:mi>a</mml:mi>\langle mml:math>$ -plane GaN epitaxial layers. <i>Physical Review B</i> , 2011, 84, .		3.2	20
47	UH3-based ferromagnets: New look at an old material. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 400, 130-136.		2.3	18
48	Magneto-elastic coupling across the first-order transition in the distorted kagome lattice antiferromagnet Dy ₃ Ru ₄ Al ₁₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 400, 125-129.		2.3	17
49	Analysis of periodic dislocation networks using x-ray diffraction and extended finite element modeling. <i>Applied Physics Letters</i> , 2010, 96, 131905.		3.3	16
50	The instrumental resolution of a moire extensometer in light of its recent automatisation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 91, 258-265.		5.0	16
51	Interfacial sharpness and intermixing in a Ge-SiGe multiple quantum well structure. <i>Journal of Applied Physics</i> , 2018, 123, .		2.5	16
52	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
53	Structural investigation of GaInP nanowires using X-ray diffraction. <i>Thin Solid Films</i> , 2013, 543, 100-105.		1.8	15
54	Surface-Induced Phase of Tyrian Purple (6,6-Dibromoindigo): Thin Film Formation and Stability. <i>Crystal Growth and Design</i> , 2016, 16, 3647-3655.		3.0	15

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55	Self-Seeded Axio-Radial InAs–InAs _{1-x} P Nanowire Heterostructures beyond Common VLS Growth. <i>Nano Letters</i> , 2018, 18, 144-151.	9.1	15
56	Molecular beam epitaxy of CuMnAs. <i>Physical Review Materials</i> , 2020, 4, . <i>Growth kinetics of</i> <math altimg="si18.gif" overflow="scroll">	2.4	14
57	xmns:xocs= "http://www.elsevier.com/xml/xocs/dtd" xmns:xs= "http://www.w3.org/2001/XMLSchema" xmns:xi="http://www.w3.org/2001/XMLSchema-instance" xmns="http://www.elsevier.com/xml/ja/dtd" xmns:ja="http://www.elsevier.com/xml/ja/dtd" xmns:mml="http://www.w3.org/1998/Math/MathML" xmns:tb="http://www.elsevier.com/xml/common/table/dtd" xmns:si="http://www.elsevier.com/xml/common/structlib/dtd" xmns:el="http://www.elsevier.com/xml/elib/structlib/dtd"	7.9	13
58	Ferroelectric phase transitions in multiferroic Ge _{1-x} MnxTe driven by local lattice distortions. <i>Physical Review B</i> , 2016, 94, .	3.2	13
59	Strain distribution in single, suspended germanium nanowires studied using nanofocused x-rays. <i>Nanotechnology</i> , 2016, 27, 055705.	2.6	13
60	Atomically sharp domain walls in an antiferromagnet. <i>Science Advances</i> , 2022, 8, eabn3535.	10.3	12
61	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
62	Threefold rotational symmetry in hexagonally shaped core-shell (In,Ga)As/GaAs nanowires revealed by coherent X-ray diffraction imaging. <i>Journal of Applied Crystallography</i> , 2017, 50, 673-680.	4.5	11
63	On the completeness of the $\text{I}^2\rightarrow\text{T}^\circ$ transformation in metastable I^2 titanium alloys. <i>Journal of Applied Crystallography</i> , 2017, 50, 283-287.	4.5	11
64	Role of Magnetic Exchange Interactions in Chiral-Type Hall Effects of Epitaxial Mn _x PtSn Films. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1323-1333.	4.3	11
65	Structural disorder of natural $\text{Bi}_{14}\text{Mn}_{10}$ superlattices grown by molecular beam epitaxy. <i>Physical Review Materials</i> , 2018, 2, .		
66	Galvanic Exchange in Colloidal Metal/Metal-Oxide Core/Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19848-19855.	3.1	9
67	Characterization of individual stacking faults in wurtzite GaAs nanowire by nanobeam X-ray diffraction. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 981-990.	2.4	9
68	X-ray diffraction strain analysis of a single axial InAs _{1-x} P _x nanowire segment. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 59-66.	2.4	8
69	Unusual ferroelectric and magnetic phases in multiferroic H_{m} ceramics. <i>Physical Review B</i> , 2017, 95, .		
70	Giant enhancement of the skyrmion stability in a chemically strained helimagnet. <i>Physical Review B</i> , 2019, 100, .	3.2	8
71	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
72	Defect-driven antiferromagnetic domain walls in CuMnAs films. <i>Nature Communications</i> , 2022, 13, 724.	12.8	8

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73	In-plane tunnelling field-effect transistor integrated on Silicon. <i>Scientific Reports</i> , 2015, 5, 14367.		3.3	7
74	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
75	Magnetic structure of the mixed antiferromagnet NdMn_3 . <i>Physical Review B</i> , 2017, 96, 084407.		3.2	7
76	Coherent X-ray diffraction imaging meets ptychography to study core-shell-shell nanowires. <i>MRS Advances</i> , 2018, 3, 2317-2322.		0.9	7
77	Strain-induced switching between noncollinear and collinear spin configuration in magnetic films. <i>Physical Review B</i> , 2021, 104, 024402.		3.2	7
78	Czochralski growth of LaPd ₂ Al ₂ single crystals. <i>Journal of Crystal Growth</i> , 2017, 475, 10-20.		1.5	6
79	Observation of individual stacking faults in GaN microcrystals by x-ray nanodiffraction. <i>Applied Physics Letters</i> , 2017, 110, 112102.		3.3	6
80	Crystallization of Tyrian purple (6,6'-dibromoindigo) thin films: The impact of substrate surface modifications. <i>Journal of Crystal Growth</i> , 2016, 447, 73-79.		1.5	4
81	Structural instability in CePd ₂ (Al,Ga) ₂ and LaPd ₂ (Al,Ga) ₂ . <i>Journal of Alloys and Compounds</i> , 2019, 790, 480-492.		5.5	4
82	Anisotropic magnetothermal transport in thin films. <i>Physical Review B</i> , 2021, 104, 024402.		3.2	4
83	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
84	Structural investigations of the $\tilde{\pm}12\text{Si}\text{Ge}$ superstructure. <i>Journal of Applied Crystallography</i> , 2015, 48, 262-268.		4.5	3
85	Properties of the divalent-Yb compound YbAu ₂ Si ₂ under extreme conditions. <i>Physica B: Condensed Matter</i> , 2017, 505, 41-44.		2.7	3
86	X-ray diffraction reveals the amount of strain and homogeneity of extremely bent single nanowires. <i>Journal of Applied Crystallography</i> , 2020, 53, 1310-1320.		4.5	3
87	Twin Domain Structure in Magnetically Doped Bi ₂ Se ₃ Topological Insulator. <i>Nanomaterials</i> , 2020, 10, 2059.		4.1	2
88	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
89	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
90	Determination of the wurtzite content and orientation distribution of nanowire ensembles. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1206, 113901.		0.1	0

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91	Direct band gap wurtzite GaP nanowires for LEDs and quantum devices. Proceedings of SPIE, 2014, , .	0.8	0
92	Investigation of Nanostructures with X-ray Scattering Techniques. Crystals, 2019, 9, 500.	2.2	0
93	The Effect of Annealing Temperature on Antiferroelectric Zirconia. , 2022, , .	0	