

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 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2019, 100, .	3.2	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 _x 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 ab initio 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 ₂ Te <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review Materials, 2019, 3, .	3.2	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 ZrTe_5 . <i>Physical Review B</i> , 2015, 91, .	3.2	28
39	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. <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_2Te_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 a-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 $\text{Dy}_3\text{Ru}_4\text{Al}_{12}$. <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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73	In-plane tunnelling field-effect transistor integrated on Silicon. Scientific Reports, 2015, 5, 14367.	3.3	7
74	High-resolution x-ray diffraction of epitaxial bismuth chalcogenide topological insulator layers. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2017, 8, 015006.	1.5	7
75	Magnetic structure of the mixed antiferromagnet NdMnO_3 . Physical Review B, 2017, 96, .	3.2	7
76	Coherent X-ray diffraction imaging meets ptychography to study core-shell-shell nanowires. MRS Advances, 2018, 3, 2317-2322.	0.9	7
77	Strain-induced switching between noncollinear and collinear spin configuration in magnetic films. Physical Review B, 2021, 104, .	3.2	7
78	Czochralski growth of LaPd_2Al_2 single crystals. Journal of Crystal Growth, 2017, 475, 10-20.	1.5	6
79	Observation of individual stacking faults in GaN microcrystals by x-ray nanodiffraction. Applied Physics Letters, 2017, 110, .	3.3	6
80	Crystallization of Tyrian purple ($6,6\text{-dibromoindigo}$) thin films: The impact of substrate surface modifications. Journal of Crystal Growth, 2016, 447, 73-79.	1.5	4
81	Structural instability in $\text{CePd}_2(\text{Al,Ga})_2$ and $\text{LaPd}_2(\text{Al,Ga})_2$. Journal of Alloys and Compounds, 2019, 790, 480-492.	5.5	4
82	Anisotropic magnetothermal transport in Co_2MnSi thin films. Physical Review B, 2021, 104, .	3.2	4
83	Algorithms for the calculation of X-ray diffraction patterns from finite element data. Journal of Applied Crystallography, 2010, 43, 1287-1299.	4.5	3
84	Structural investigations of the $\text{12Si}\text{-Ge}$ superstructure. Journal of Applied Crystallography, 2015, 48, 262-268.	4.5	3
85	Properties of the divalent-Yb compound YbAu_2Si_2 under extreme conditions. Physica B: Condensed Matter, 2017, 505, 41-44.	2.7	3
86	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
87	Twin Domain Structure in Magnetically Doped Bi_2Se_3 Topological Insulator. Nanomaterials, 2020, 10, 2059.	4.1	2
88	^{27}Al -NMR studies of the structural phase transition in LaPd_2Al_2 . Physica B: Condensed Matter, 2018, 536, 320-322.	2.7	1
89	Lattice distortion in TmCo_2 : A poly- and single-crystal study. Journal of Alloys and Compounds, 2019, 775, 969-974.	5.5	1
90	Determination of the wurtzite content and orientation distribution of nanowire ensembles. Materials Research Society Symposia Proceedings, 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