Dariusz Jakub Gawryluk

List of Publications by Year
in descending order

66	1,356	394390 19	345203 36
papers	citations	h-index	g-index

67	67	67	1959
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Combined pressure and magnetic-field induced caloric effects in Fe7Se8 single crystals. Journal of Magnetism and Magnetic Materials, 2022, 543, 168626.	2.3	4
2	Giant magnetoresistance and topological Hall effect in the EuGa₄ antiferromagnet. Journal of Physics Condensed Matter, 2022, 34, 034005.	1.8	14
3	Universal spin-glass behaviour in bulk LaNiO₂, PrNiO₂ and NdNiO₂. New Journal of Physics, 2022, 24, 013022.	2.9	22
4	Spin order and fluctuations in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuAl</mml:mi><mml:mn>4</mml:mn></mml:msub></mm and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">EuGa</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> topological antiferromagnets: A <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î¼</mml:mi><mml:mi>SR</mml:mi></mml:math>	3.2	25
5	Cu-doping effects on the ferromagnetic semimetal CeAuGe. Journal of Magnetism and Magnetic Materials, 2022, , 169147.	2.3	1
6	On the feasibility of polymer fibers with mineral filler as emergency dosimeters. Radiation Measurements, 2022, , 106718.	1.4	1
7	Spin-triplet superconductivity in Weyl nodal-line semimetals. Npj Quantum Materials, 2022, 7, .	5.2	14
8	Crystal-field states and defect levels in candidate quantum spin ice <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ce</mml:mi><mml:mn>2</mml:mn></mml: mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2022, 6, .	2.4	6
9	Competing Magnetic Phases in LnSbTe (Ln = Ho and Tb). Inorganic Chemistry, 2022, 61, 11399-11409.	4.0	6
10	Metastability and Seeding Effects in the Mechanochemical Hybrid Lead(II) Iodide Formation. Chemistry - A European Journal, 2021, 27, 5944-5955.	3.3	3
11	Anomalous Hall resistivity and possible topological Hall effect in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuAl</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> antiferromagnet. Physical Review B, 2021, 103, .	3.2	48
12	Correlation between Oxygen Vacancies and Oxygen Evolution Reaction Activity for a Model Electrode: PrBaCo₂O_{5+Î´}. Angewandte Chemie - International Edition, 2021, 60, 14609-14619.	13.8	54
13	Multigap superconductivity in centrosymmetric and noncentrosymmetric rhenium-boron superconductors. Physical Review B, 2021, 103, .	3.2	8
14	RENiO₃ Single Crystals (RE = Nd, Sm, Gd, Dy, Y, Ho, Er, Lu) Grown from Molten Salts under 2000 bar of Oxygen Gas Pressure. Crystal Growth and Design, 2021, 21, 4230-4241.	3.0	18
15	Raman spectroscopic evidence for multiferroicity in rare earth nickelate single crystals. Physical Review Research, 2021, 3, .	3.6	10
16	Isotropic single-gap superconductivity of elemental Pb. Physical Review B, 2021, 104, .	3.2	3
17	Resolving Gas Bubbles Ascending in Liquid Metal from Low-SNR Neutron Radiography Images. Applied Sciences (Switzerland), 2021, 11, 9710.	2.5	7
18	Distortion mode anomalies at T _{MIT} = T _N in bulk PrNiO₃. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, C745-C745.	0.1	0

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19	Structure of the RNiO₃ single crystals (R = Nd, Sm, Gd, Dy, Y, Ho, Er, Lu). Acta Crystallographica Section A: Foundations and Advances, 2021, 77, C748-C748.	0.1	0
20	The Impact of Hydrogenation on Structural and Superconducting Properties of FeTe0.65Se0.35 Single Crystals. Materials, 2021, 14, 7900.	2.9	0
21	Time-reversal symmetry breaking in the noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Zr</mml:mi></mml:mrow><mml:mn>3</mml:mn>	3.2	25
22	Short-range magnetic interactions and spin glass behavior in the quasi-two-dimensional nickelate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">P</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant	3.2	23
23	Re1a xMox as an ideal test case of time-reversal symmetry breaking in unconventional superconductors. Npj Quantum Materials, 2020, 5, .	5.2	14
24	Magnetic order and disorder in a quasi-two-dimensional quantum Heisenberg antiferromagnet with randomized exchange. Physical Review B, 2020, 102, .	3.2	3
25	Superconductivity and topological aspects of the rocksalt carbides NbC and TaC. Physical Review B, 2020, 101, .	3.2	30
26	Observation of flat bands due to band hybridization in the 3d -electron heavy-fermion compound CaCu3Ru4O12. Physical Review B, 2020, 102, .	3.2	5
27	Z3-vestigial nematic order due to superconducting fluctuations in the doped topological insulators NbxBi2Se3 and CuxBi2Se3. Nature Communications, 2020, 11, 3056.	12.8	35
28	Single and Double-Stranded 1D-Coordination Polymers with 4â€²-(4-Alkyloxyphenyl)-3,2â€²:6â€²,3â€³-terpyridines and {Cu2(Î¼-OAc)4} or {Cu4(Î¼3-OH)2(Î¼-OAc)2(Î¼3-OAc)2(AcO-ÎºO)2} Motifs. Polymers, 2020, 12, 318.	4.5	12
29	Enhancement of superconducting state properties of Fe_{0.994}Ni_{0.007}Te_{0.66}Se_{0.34} single crystal with increasing pressure: a correlation with pressure-induced crystallinity degradation. Superconductor Science and Technology, 2020, 33, 045004.	3.5	1
30	Strong- to weak-coupling superconductivity in high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma bismuthates: Revisiting the phase diagram via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î¼</mml:mi><mml:mi>SR</mml:mi></mml:mrow></mml Physical Review B, 2020, 101, .	3.2	4
31	Topological Magnetic Phase in the Candidate Weyl Semimetal CeAlGe. Physical Review Letters, 2020, 124, 017202.	7.8	99
32	Tunable anomalous Hall conductivity through volume-wise magnetic competition in a topological kagome magnet. Nature Communications, 2020, 11, 559.	12.8	112
33	Bismuth and oxygen valencies and superconducting state properties in Ba1-xKxBiO3 superconductor. Physica B: Condensed Matter, 2020, 591, 412226.	2.7	1
34	Anisotropic character of the metal-to-metal transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">P</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant	3.2	15
35	Multigap superconductivity in the Mo5PB2 boronâ€“phosphorus compound. New Journal of Physics, 2020, 22, 093016.	2.9	10
36	Effect of electron doping in FeTe_{1â¯'y}Se_yrealized by Co and Ni substitution. Superconductor Science and Technology, 2019, 32, 105009.	3.5	0

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37	Competition in Coordination Assemblies: 1D-Coordination Polymer or 2D-Nets Based on Co(NCS)2 and 4â€²-(4-methoxyphenyl)-3,2â€²:6â€²,3â€³-terpyridine. Polymers, 2019, 11, 1224.	4.5	12
38	Trinodal Self-Penetrating Nets from Reactions of 1,4-Bis(alkoxy)-2,5-bis(3,2â€™:6â€™,3â€™â€™-terpyridin-4â€™-yl)benzene Ligands with Cobalt(II) Thiocyanate. Crystals, 2019, 9, 529.	2.2	6
39	Nodeless superconductivity and its evolution with pressure in the layered dirac semimetal 2M-WS2. Npj Quantum Materials, 2019, 4, .	5.2	20
40	Nodeless superconductivity and preserved time-reversal symmetry in the noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mo</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">P</mml:mi></mml:mrow></mml:math> superconductor. Physical Review B, 2019, 99, .	3.2	28
41	Distortion mode anomalies in bulk <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PrNiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml: : Illustrating the potential of symmetry-adapted distortion mode analysis for the study of phase transitions. Physical Review B, 2019, 100, .	3.2	21
42	Structure and superconductivity in the binary <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Re</mml:mi><mml:mrow> <mml:mn>1</mml:mn> alloys. Physical Review Materials, 2019, 3, .	2.4	14
43	Superspace magnetic structure and topological charges in Weyl semimetal CeAlGe. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e392-e392.	0.1	0
44	Time-Reversal Symmetry Breaking in Re-Based Superconductors. Physical Review Letters, 2018, 121, 257002.	7.8	67
45	Structural, magnetic, and magnetocaloric properties of Fe7Se8 single crystals. Journal of Applied Physics, 2018, 124, .	2.5	15
46	Determination of hyperfine fields orientation in nuclear probe techniques. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 173, 827-831.	3.9	2
47	Local microscopic properties and annealing effect of Rb0.85Fe1.9Se2 single crystals. Journal of Physics Condensed Matter, 2017, 29, 145604.	1.8	0
48	Magnetocaloric effect in Ni 2 MnGa single crystal in the vicinity of the martensitic phase transition. Journal of Magnetism and Magnetic Materials, 2017, 430, 16-21.	2.3	17
49	Distinct Evolutions of Weyl Fermion Quasiparticles and Fermi Arcs with Bulk Band Topology in Weyl Semimetals. Physical Review Letters, 2017, 118, 106406.	7.8	27
50	Microstructural and transport properties of superconducting FeTe0.65Se0.35crystals. Superconductor Science and Technology, 2017, 30, 015018.	3.5	13
51	Dynamics of trapped magnetic flux in superconducting FeTe0.65Se0.35. Low Temperature Physics, 2017, 43, 1181-1184.	0.6	1
52	Observation of Weyl nodes and Fermi arcs in tantalum phosphide. Nature Communications, 2016, 7, 11006.	12.8	264
53	Momentum-Resolved Electronic Structure of the High-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>T</mml:mi></mml:mrow><mml:mrow><mml:mi>c</mml:mi></mml:mrow></mml: Parent Compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BaBiO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> Physical Review Letters, 2016, 117, 037002.	7.8	48
54	High pressure synthesis of iron complex oxides in high oxidation state (Fe4+, Fe5+): mapping between localized and itinerant behavior. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s275-s275.	0.1	0

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55	Lattice distortions in PrNiO3 across the metal-to-insulator transition analyzed using the "amplimodes" approach. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s261-s261.	0.1	0
56	Anisotropy of the magnetic properties of the FeTe0.65Se0.35 superconductor. Low Temperature Physics, 2015, 41, 897-900.	0.6	5
57	Transition-metal substitutions in iron chalcogenides. Physical Review B, 2015, 91, .	3.2	7
58	Influence of Iron Substitutions on the Transport Properties of FeTe_{0.65}Se_{0.35} Single Crystals. Acta Physica Polonica A, 2014, 126, A-76-A-80.	0.5	4
59	Microstructural magnetic phases in superconducting FeTe0.65Se0.35. Superconductor Science and Technology, 2012, 25, 065019.	3.5	39
60	Pressure-induced enhancement of the superconducting properties of single-crystalline FeTe_{0.5}Se_{0.5}. Journal of Physics Condensed Matter, 2012, 24, 265701.	1.8	16
61	Doping Effects of Co, Ni, and Cu in FeTe_{0.65}Se_{0.35}Single Crystals. Acta Physica Polonica A, 2012, 121, 816-819.	0.5	11
62	Growth conditions, structure and superconductivity of pure and metal-doped FeTe_{1 â^'x}Se_xsingle crystals. Superconductor Science and Technology, 2011, 24, 065011.	3.5	58
63	MÃ¶ssbauer studies of powdered single crystals of FeTe_{0.5}Se_{0.5}. Superconductor Science and Technology, 2011, 24, 105010.	3.5	21
64	Magnetic Properties of FeSeTe Compound Crystallized from Liquid Phase. Acta Physica Polonica A, 2010, 118, 289-291.	0.5	3
65	Structure and Superconductivity of FeSe_{1 - x}and FeTe_{1 - y}Se_yCrystals: Dependence on the Synthesis Methods, Starting Composition, and Growth Conditions. Acta Physica Polonica A, 2010, 118, 331-335.	0.5	3
66	Cu-Doping Effects on the Ferromagnetic Semimetal Ceauge. SSRN Electronic Journal, 0, , .	0.4	1