Dmitriy A Chareev

List of Publications by Year
in descending order

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		304743	233421
119	2,368	22	45
papers	citations	h-index	g-index

120	120	120	2319
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strong interplay between stripe spin fluctuations, nematicity and superconductivity in FeSe. Nature Materials, 2016, 15, 159-163.	27.5	217
2	Unusual band renormalization in the simplest iron-based superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>FeSe</mml:mtext><mml:mrow><mml:mn>1</mml:mn></mml:mr Physical Review B, 2014, 89, .	3.2	158
3	Magnetic ground state of FeSe. Nature Communications, 2016, 7, 12182.	12.8	158
4	Anomalous correlation effects and unique phase diagram of electron-doped FeSe revealed by photoemission spectroscopy. Nature Communications, 2016, 7, 10840.	12.8	144
5	Single crystal growth and characterization of tetragonal FeSe1âˆ’x superconductors. CrystEngComm, 2013, 15, 1989.	2.6	141
6	Coexistence of isotropic and extended<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>s</mml:mi></mml:math>-wave order parameters in FeSe as revealed by low-temperature specific heat. Physical Review B, 2011, 84, .	3.2	106
7	Temperature dependence of lower critical field<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>H</mml:mi><mml:mrow><mml:mi>c</mml:mi><mml:mn>1</mml:mn></mml:m nodeless superconductivity in FeSe. Physical Review B, 2013, 88, .	3.2	91
8	Superconducting properties of sulfur-doped iron selenide. Physical Review B, 2015, 91, .	3.2	90
9	Highly Anisotropic and Twofold Symmetric Superconducting Gap in Nematically Ordered<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>FeSe</mml:mi></mml:mrow><mml:mrow><mml:mn>0.93</mml:mn> mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>0.07</mml:mn></mml:mrow></mml:msub></mml:mrow> Physical Review Letters, 2016, 117, 157003.	7.8	68
10	Quasiparticle Dynamics and Phonon Softening in FeSe Superconductors. Physical Review Letters, 2012, 108, 257006.	7.8	59
11	Interplay between lattice and spin states degree of freedom in the FeSe superconductor: Dynamic spin state instabilities. Physical Review B, 2013, 87, .	3.2	54
12	Impurity scattering effects on the superconducting properties and the tetragonal-to-orthorhombic phase transition in FeSe. Physical Review B, 2016, 93, .	3.2	38
13	Interplay of charge density wave and multiband superconductivity in layered quasi-two-dimensional materials: The case of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>2</mml:mn><mml:mi mathvariant="normal">H</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>Nb</mml:mi><mml:msub><mml:mrow mathvariant="normal">S</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> and	2.4	36
14	Evolution of the superconducting properties in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeSe</mml:mi><mml:mrow><mml:mn>1</mml:m mathvariant="normal">S</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	3.2	35
15	Unveiling the hidden nematicity and spin subsystem in FeSe. Npj Quantum Materials, 2017, 2, .	5.2	33
16	Anisotropy in the upper critical field of FeSe and FeSe_{0.33}Te_{0.67}single crystals. Superconductor Science and Technology, 2015, 28, 045013.	3.5	29
17	Magnetic and superconducting properties of FeSe1âˆ’xTex (xâ‰¼0, 0.5, and 1.0). Low Temperature Physics, 2011, 37, 83-89.	0.6	26
18	Enhanced critical current density in the pressure-induced magnetic state of the high-temperature superconductor FeSe. Scientific Reports, 2015, 5, 16385.	3.3	25

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19	Covellite CuS as a matrix for â€œinvisibleâ€•gold: X-ray spectroscopic study of the chemical state of Cu and Au in synthetic minerals. Geochimica Et Cosmochimica Acta, 2016, 191, 58-69.	3.9	25
20	Synthesis of chalcogenide and pnictide crystals in salt melts using a steady-state temperature gradient. Crystallography Reports, 2016, 61, 682-691.	0.6	24
21	Platinum transport in chloride-bearing fluids and melts: Insights from in situ X-ray absorption spectroscopy and thermodynamic modeling. Geochimica Et Cosmochimica Acta, 2019, 254, 86-101.	3.9	24
22	General principles of the synthesis of chalcogenides and pnictides in salt melts using a steady-state temperature gradient. Crystallography Reports, 2016, 61, 506-511.	0.6	23
23	New superconductor LixFe1+Î´Se (xâ€‰â‰ˆâ€‰0.07, Tc up to 44â€‰K) by an electrochemical route. Scientific Reports, 2016, 6, 25624.	3.3	22
24	Ultrafast dynamics and phonon softening in Fe_{1+y}Se_{1â^'x}Te_xsingle crystals. New Journal of Physics, 2012, 14, 103053.	2.9	21
25	Substitution mechanisms in In-, Au-, and Cu-bearing sphalerites studied by X-ray absorption spectroscopy of synthetic compounds and natural minerals. Mineralogical Magazine, 2019, 83, 435-451.	1.4	21
26	Thermodynamic studies of pyrrhotiteâ€“pyrite equilibria in the Agâ€“Feâ€“S system by solid-state galvanic cell technique at 518â€“723K and total pressure of 1atm. Geochimica Et Cosmochimica Acta, 2006, 70, 5617-5633.	3.9	20
27	Acoustic characteristics of FeSe single crystals. Europhysics Letters, 2013, 101, 56005.	2.0	20
28	Doubling of the critical temperature of FeSe observed in point contacts. Physical Review B, 2016, 93, .	3.2	19
29	Gold Transport in Hydrothermal Chloride-Bearing Fluids: Insights from in Situ X-ray Absorption Spectroscopy and ab Initio Molecular Dynamics. ACS Earth and Space Chemistry, 2019, 3, 240-261.	2.7	19
30	The system Agâ€“Pdâ€“Te: phase relations and mineral assemblages. Mineralogical Magazine, 2015, 79, 1813-1832.	1.4	18
31	Separate tuning of nematicity and spin fluctuations to unravel the origin of superconductivity in FeSe. Npj Quantum Materials, 2020, 5, .	5.2	18
32	Single crystal growth, transport and scanning tunneling microscopy and spectroscopy of FeSe_{1â^'x}S_x. CrystEngComm, 2018, 20, 2449-2454.	2.6	17
33	Tuning the activity/stability balance of anion doped CoS Se2â^' dichalcogenides. Journal of Catalysis, 2018, 366, 50-60.	6.2	17
34	Nanoporous metals from thermal decomposition of transition metal dichalcogenides. Acta Materialia, 2020, 184, 79-85.	7.9	17
35	Magnetic properties of superconducting FeSe in the normal state. Journal of Physics Condensed Matter, 2013, 25, 046004.	1.8	16
36	Crystal growth, transport phenomena and two-gap superconductivity in the mixed alkali metal (K_{1â^'z}Na_z)_xFe_{2â^'y}Se₂ iron selenide. CrystEngComm, 2014, 16, 6919-6928.	2.6	15

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37	Structureâ€“Property Relationships in Î±-, Î²â€²-, and Î³-Modifications of Mn₃(PO₄)₂. Inorganic Chemistry, 2016, 55, 10692-10700.	4.0	15
38	Highly mobile carriers in iron-based superconductors. Superconductor Science and Technology, 2017, 30, 035017.	3.5	15
39	Vortex-core properties and vortex-lattice transformation in FeSe. Physical Review B, 2019, 99, .	3.2	15
40	Evidence for the Fuldeâ€“Ferrellâ€“Larkinâ€“Ovchinnikov state in bulk NbS2. Nature Communications, 2021, 12, 3676.	12.8	15
41	Gossamer high-temperature bulk superconductivity in FeSe. Physical Review B, 2017, 95, .	3.2	14
42	Experimental study of sulfur dioxide interaction with silicates and aluminosilicates at temperatures of 650 and 850Â°C. Geochemistry International, 2010, 48, 1039-1046.	0.7	13
43	The effects of 10 to >160 GPa shock on the magnetic properties of basalt and diabase. Geochemistry, Geophysics, Geosystems, 2016, 17, 4753-4771.	2.5	13
44	Extended Magnetic Dome Induced by Low Pressures in Superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>FeSe</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><m mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:ma Physical Review Letters, 2019, 123, 147001.	7.8	13
45	Iron and Sulfur Isotope Factors of Pyrite: Data from Experimental MÃ¶ssbauer Spectroscopy and Heat Capacity. Geochemistry International, 2019, 57, 369-383.	0.7	13
46	The State of Platinum in Pyrite Studied by X-Ray Absorption Spectroscopy of Synthetic Crystals. Economic Geology, 2019, 114, 1649-1663.	3.8	13
47	â€œInvisibleâ€•Gold in Synthetic and Natural Arsenopyrite Crystals, Vorontsovka Deposit, Northern Urals. Geology of Ore Deposits, 2019, 61, 447-468.	0.7	13
48	Coexistence of superconductivity and magnetism in Fe1+Î´Te1â^'xSex (x=0.1, 0.2, 0.28, 0.4 and 0.45). Physica C: Superconductivity and Its Applications, 2013, 489, 32-35.	1.2	12
49	â€œInvisibleâ€•gold in covellite (CuS): Synthesis and studies by EPMA, LA-ICP-MS, and XPS techniques. Doklady Earth Sciences, 2014, 459, 1381-1386.	0.7	11
50	THE Ag-Pd-Se SYSTEM: PHASE RELATIONS INVOLVING MINERALS AND POTENTIAL NEW MINERALS. Canadian Mineralogist, 2014, 52, 77-89.	1.0	11
51	Magnetic characterization of non-ideal single-domain monoclinic pyrrhotite and its demagnetization under hydrostatic pressure up to 2 GPa with implications for impact demagnetization. Physics of the Earth and Planetary Interiors, 2016, 257, 79-90.	1.9	11
52	Unusual two-dimensional behavior of iron-based superconductors with low anisotropy. Physical Review B, 2017, 96, .	3.2	11
53	Superconducting gaps in FeSe studied by soft point-contact Andreev reflection spectroscopy. Physical Review B, 2017, 96, .	3.2	11
54	The State of Trace Elements (In, Cu, Ag) in Sphalerite Studied by X-Ray Absorption Spectroscopy of Synthetic Minerals. Minerals (Basel, Switzerland), 2020, 10, 640.	2.0	11

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55	Growth of Transition-Metal Dichalcogenides by Solvent Evaporation Technique. Crystal Growth and Design, 2020, 20, 6930-6938.	3.0	11
56	Magnetic properties of novel FeSe(Te) superconductors. Journal of Magnetism and Magnetic Materials, 2012, 324, 3460-3463.	2.3	10
57	Valence-bond solid as the quantum ground state in honeycomb layered urusovite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CuAl</mml:mi><mml:mo>(</mml:mo><mml:mi>As</mml:mi> mathvariant="normal">O</mml:mi></mml:mrow></mml:math>. Physical Review B, 2015, 91, .	3.2	10
58	X-ray spectroscopy study of the chemical state of â€œinvisibleâ€•Au in synthetic minerals in the Fe-As-S system. American Mineralogist, 2017, 102, .	1.9	10
59	Specific heat of FeSe: Two gaps with different anisotropy in superconducting state. Physica B: Condensed Matter, 2018, 536, 785-789.	2.7	10
60	Crystal and electronic structure study of AgPd3Se. Journal of Solid State Chemistry, 2011, 184, 2794-2798.	2.9	9
61	Thermodynamic study of monoclinic pyrrhotite in equilibrium with pyrite in the Ag-Fe-S system by solid-state electrochemical cell technique. American Mineralogist, 2014, 99, 2031-2034.	1.9	9
62	Anisotropic effect of appearing superconductivity on the electron transport in FeSe. JETP Letters, 2017, 105, 786-791.	1.4	9
63	Superconducting Properties of FeSe $$_{1-x}$$ 1 - x S $$_{x}$$ x Crystals for x up to 0.19. Journal of Low Temperature Physics, 2016, 185, 467-473.	1.4	8
64	Single-crystal Fe-bearing sphalerite: synthesis, lattice parameter, thermal expansion coefficient and microhardness. Physics and Chemistry of Minerals, 2017, 44, 287-296.	0.8	8
65	Spin-Order-Induced Ferroelectricity and Magnetoelectric Effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Li</mml:mi><mml:mi>Cu</mml:mi><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml:msub> stretchy="false">(</mml:mo><mml:msub><mml:mi>VO</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mo) Tj ET Q q 2018, 10, .	3.8	8
66	Observation of orbital ordering and origin of the nematic order in FeSe. New Journal of Physics, 2019, 21, 103033.	2.9	8
67	Piezomagnetism of FeSe single crystals. Europhysics Letters, 2013, 103, 47009.	2.0	7
68	Interrelation of superconductivity and magnetism in FeSe1â^'xTex compounds. Pressure effects. Low Temperature Physics, 2014, 40, 615-620.	0.6	7
69	Determination of the lower critical field H1(T) in FeSe single crystals by magnetization measurements. Physica C: Superconductivity and Its Applications, 2014, 503, 143-145.	1.2	7
70	Kravtsovite, PdAg2S, a new mineral from the Noril'sk-Talnakh deposit, Krasnoyarskiy kray, Russia. European Journal of Mineralogy, 2017, 29, 597-602.	1.3	7
71	Measurements of the superconducting anisotropy in FeSe with a resonance frequency technique. AIP Advances, 2019, 9, .	1.3	7
72	The Charge State of Pt in Binary Compounds and Synthetic Minerals Determined by X-ray Absorption Spectroscopy and Quantum Chemical Calculations. Minerals (Basel, Switzerland), 2021, 11, 79.	2.0	7

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73	Application of solid electrolytes Î±-AgI and RbAg4I5 for refining phase diagrams and determining standard thermodynamic functions of compounds in silver-containing systems. Russian Journal of Electrochemistry, 2007, 43, 694-698.	0.9	6
74	The low temperature electrochemical growth of iron, nickel and other metallic single crystals from halide eutectic fluxes in a temperature gradient. Journal of Crystal Growth, 2015, 429, 63-67.	1.5	6
75	Pressure dependence of upper critical fields in FeSe single crystals. Superconductor Science and Technology, 2016, 29, 035007.	3.5	6
76	Structural Phase Transitions and the Equation of State in SnSe at High Pressures up to 2 Mbar. JETP Letters, 2018, 108, 414-418.	1.4	6
77	Nipalarsite, Ni8Pd3As4, a new platinum-group mineral from the Monchetundra Intrusion, Kola Peninsula, Russia. Mineralogical Magazine, 2019, 83, 837-845.	1.4	6
78	The state of platinum in pyrrhotite: X-ray absorption spectroscopy study and implications for the role of Fe sulfides as platinum carriers. Mineralogical Magazine, 2021, 85, 846-861.	1.4	6
79	Analysis of nonlinear conductivity of point contacts on the base of FeSe in the normal and superconducting state. Low Temperature Physics, 2016, 42, 31-35.	0.6	5
80	Direct evidence of two superconducting gaps in FeSe0.5Te0.5: SnS-Andreev spectroscopy and the lower critical field. JETP Letters, 2016, 104, 852-858.	1.4	5
81	Tuning of physical properties of Fe7(PO4)6 by sodium intercalation. Journal of Alloys and Compounds, 2018, 744, 600-605.	5.5	5
82	Thermodynamic Functions of PtS2 in a Wide Temperature Range. Inorganic Materials, 2020, 56, 116-125.	0.8	5
83	Synthesis and crystal structure of (Ag,Pd)₂₂Se₆. Powder Diffraction, 2013, 28, 13-17.	0.2	4
84	The long-range magnetic order and underlying spin model in shattuckite Cu5(SiO3)4(OH)2. Physics and Chemistry of Minerals, 2016, 43, 43-49.	0.8	4
85	Majority carrier type inversion in the FeSe family and a â€˜doped semimetalâ€™ scheme in iron-based superconductors. Superconductor Science and Technology, 2019, 32, 065005.	3.5	4
86	Crystal structure and transport properties of CuPdBiS3. Journal of Alloys and Compounds, 2019, 792, 983-987.	5.5	4
87	MÃ¶ssbauer Spectroscopy Study of FeSe0.91S0.09 Superconductor Single Crystals. JETP Letters, 2019, 110, 562-567.	1.4	4
88	The solubility of cooperite PtS(cr) at 25 â€“ 450ÂÂ°C, Psat â€“ 1000Âbar and hydrosulfide complexing of platinum in hydrothermal fluids. Chemical Geology, 2021, 559, 119968.	3.3	4
89	Evolution of vortex matter, phase diagram, and upper critical field in the FeSe_{1â^'x}S_x system. Superconductor Science and Technology, 2021, 34, 035019.	3.5	4
90	Single-crystal structure study of iron chalcogenides Fe1 + ÎTe1 â^' x S x. Crystallography Reports, 2015, 60, 227-235.	0.6	3

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91	Pressure effect on magnetic susceptibility of SmS in the â€œblackâ€•phase. Journal of Alloys and Compounds, 2017, 695, 1647-1652.	5.5	3
92	Structural phase transitions and the equation of state of SnTe at high pressures up to 2 mbar. JETP Letters, 2017, 106, 662-666.	1.4	3
93	Heat Capacity and Thermodynamic Functions of PdS. Inorganic Materials, 2020, 56, 683-689.	0.8	3
94	Temperature dependence of tellurium fugacity for the kotulskite (PdTe)â€“merenskyite (PdTe2) equilibrium determined by the method of a solid-state galvanic cell. Physics and Chemistry of Minerals, 2021, 48, 1.	0.8	3
95	Quasiparticle Dynamics in FeSe Superconductors Studied by Femtosecond Spectroscopy. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1213-1215.	1.8	2
96	Anisotropy of magnetic properties of Fe_{1+y}Te. Journal of Physics Condensed Matter, 2014, 26, 436003.	1.8	2
97	Local features of the crystal structure of superconducting iron chalcogenides Fe(TeSe)1 â€“ Î´. Physics of the Solid State, 2016, 58, 447-453.	0.6	2
98	Anisotropic Superconducting Gaps and Boson Mode in FeSe 1â^'x S x Single Crystals. Journal of Superconductivity and Novel Magnetism, 2017, 30, 763-768.	1.8	2
99	Magnetotransport properties of FeSe in fields up to 50â€¯T. Journal of Magnetism and Magnetic Materials, 2018, 459, 221-225.	2.3	2
100	Short-Range and Long-Range Order in AFMâ€“FM Exchange Coupled Compound LiCu2(VO4)(OH)2. Journal of Physical Chemistry C, 2019, 123, 17933-17942.	3.1	2
101	Thermodynamic Properties of AuSb2. Inorganic Materials, 2020, 56, 1229-1233.	0.8	2
102	Parameters of native silver formation in the Ag-Fe-S system based on the EMF determination at 518â€“728 K and 1â€“5000 bar total pressure. Doklady Earth Sciences, 2006, 411, 1233-1236.	0.7	1
103	Study of the itinerant electron magnetism of Fe-based superconductors by the proximity effect. Physica C: Superconductivity and its Applications, 2013, 495, 153-159.	1.2	1
104	Spin-dependent conductivity of iron-based superconductors in a magnetic field. Physica B: Condensed Matter, 2015, 464, 68-73.	2.7	1
105	Experimental Aspects of Platinum-Group Minerals. , 2018, , 303-354.		1
106	The Synthesis of Crystals of Chalcogenides of K, Zr, Hf, Hg, and Some Other Elements in Halide Melts under Conditions of Stationary Temperature Gradient. Crystallography Reports, 2019, 64, 996-1002.	0.6	1
107	Crystal structure and phase transitions at high pressures in the superconductor FeSe0.89S0.11. Journal of Alloys and Compounds, 2021, 860, 158419.	5.5	1
108	Phase separation near the charge neutrality point in FeSe1-xTex crystals with x < 0.15. Superconductor Science and Technology, 0, , .	3.5	1

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109	Experimental Methods of Synthesis of Nano-/Macro Mineral Materials. Advanced Materials Research, 2013, 650, 308-313.	0.3	0
110	Features of the electronic structure of FeTe compounds. Low Temperature Physics, 2015, 41, 990-995.	0.6	0
111	C-axis Resistivity of Superconductive FeSe Single Crystals: Upper Critical Field and its Angular Behavior. Physics Procedia, 2015, 75, 364-368.	1.2	0
112	Publisher's Note: â€œFeatures of the electron structure of FeTe compoundsâ€•[Low Temp. Phys. 41, 990 (2015)]. Low Temperature Physics, 2016, 42, 162-162.	0.6	0
113	Short-Lived Electron Excitations in FeTe1 â€“xSex as Revealed by Microwave Absorption. Journal of Experimental and Theoretical Physics, 2019, 129, 81-85.	0.9	0
114	The Se2 (Gas) Fugacity in Systems with Noble Metals: Chrisstanleyite Ag2Pd3Se4 â€“ Naumannite Ag2Seâ€“Î²-PdSe2 and Luberoite Pt5Se4â€“Sudovikovite PtSe2. Doklady Earth Sciences, 2019, 485, 439-443.	0.7	0
115	The system Pdâ€“Agâ€“S: phase relations and mineral assemblages. Mineralogical Magazine, 2020, 84, 125-130.	1.4	0
116	Experimental Study of Interaction Between Sulphurous Anhydride and Silicates by the Example of Albite and Diopside. , 2008, , .		0
117	Fluctuations of various order parameters in cuprate and Fe-based superconductors as revealed by microwave absorption measurements. Magnetic Resonance in Solids, 2019, 21, .	0.2	0
118	Multiband effect in elastoresistance of Fe(Se,Te). Europhysics Letters, 2020, 131, 57001.	2.0	0
119	Temporal Spinodal Decomposition of the Fe _{1+y} Te _{1â^'x} Se _x Crystals and its Impact on Superconducting Properties. Physica Status Solidi (B): Basic Research, 0, , .	1.5	0