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	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
2	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
3	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
4	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
5	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
6	Evidence for the Fuldeâ€“Ferrellâ€“Larkinâ€“Ovchinnikov state in bulk NbS2. Nature Communications, 2021, 12, 3676.	12.8	15
7	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
8	Nanoporous metals from thermal decomposition of transition metal dichalcogenides. Acta Materialia, 2020, 184, 79-85.	7.9	17
9	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
10	Heat Capacity and Thermodynamic Functions of PdS. Inorganic Materials, 2020, 56, 683-689.	0.8	3
11	Growth of Transition-Metal Dichalcogenides by Solvent Evaporation Technique. Crystal Growth and Design, 2020, 20, 6930-6938.	3.0	11
12	Thermodynamic Properties of AuSb2. Inorganic Materials, 2020, 56, 1229-1233.	0.8	2
13	Thermodynamic Functions of PtS2 in a Wide Temperature Range. Inorganic Materials, 2020, 56, 116-125.	0.8	5
14	Separate tuning of nematicity and spin fluctuations to unravel the origin of superconductivity in FeSe. Npj Quantum Materials, 2020, 5, .	5.2	18
15	The system Pdâ€“Agâ€“S: phase relations and mineral assemblages. Mineralogical Magazine, 2020, 84, 125-130.	1.4	0
16	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><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>2</mml:mn><mml:mi mathva	2.4	36
17	Multiband effect in elastoresistance of Fe(Se,Te). Europhysics Letters, 2020, 131, 57001.	2.0	0
18	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

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19	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><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml: Physical Review Letters, 2019, 123, 147001.	7.8	16
20	Observation of orbital ordering and origin of the nematic order in FeSe. New Journal of Physics, 2019, 21, 103033.	2.9	8
21	Nipalarsite, Ni8Pd3As4, a new platinum-group mineral from the Monchetundra Intrusion, Kola Peninsula, Russia. Mineralogical Magazine, 2019, 83, 837-845.	1.4	6
22	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
23	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
24	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
25	Measurements of the superconducting anisotropy in FeSe with a resonance frequency technique. AIP Advances, 2019, 9, .	1.3	7
26	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
27	Vortex-core properties and vortex-lattice transformation in FeSe. Physical Review B, 2019, 99, .	3.2	15
28	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
29	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
30	Crystal structure and transport properties of CuPdBiS3. Journal of Alloys and Compounds, 2019, 792, 983-987.	5.5	4
31	The State of Platinum in Pyrite Studied by X-Ray Absorption Spectroscopy of Synthetic Crystals. Economic Geology, 2019, 114, 1649-1663.	3.8	13
32	â€œInvisibleâ€•Gold in Synthetic and Natural Arsenopyrite Crystals, Vorontsovka Deposit, Northern Urals. Geology of Ore Deposits, 2019, 61, 447-468.	0.7	13
33	MÃ¶ssbauer Spectroscopy Study of FeSe0.91S0.09 Superconductor Single Crystals. JETP Letters, 2019, 110, 562-567.	1.4	4
34	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
35	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
36	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

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37	Tuning of physical properties of Fe7(PO4)6 by sodium intercalation. Journal of Alloys and Compounds, 2018, 744, 600-605.	5.5	5
38	Single crystal growth, transport and scanning tunneling microscopy and spectroscopy of FeSe_{1â^'x}S_x. CrystEngComm, 2018, 20, 2449-2454.	2.6	17
39	Experimental Aspects of Platinum-Group Minerals. , 2018, , 303-354.		1
40	Specific heat of FeSe: Two gaps with different anisotropy in superconducting state. Physica B: Condensed Matter, 2018, 536, 785-789.	2.7	10
41	Magnetotransport properties of FeSe in fields up to 50â€¯T. Journal of Magnetism and Magnetic Materials, 2018, 459, 221-225.	2.3	2
42	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
43	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><mml:msub><mml:mi>(</mml:mi><mml:mo 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
44	Tuning the activity/stability balance of anion doped CoS Se2â^' dichalcogenides. Journal of Catalysis, 2018, 366, 50-60.	6.2	17
45	Highly mobile carriers in iron-based superconductors. Superconductor Science and Technology, 2017, 30, 035017.	3.5	15
46	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
47	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
48	Anisotropic effect of appearing superconductivity on the electron transport in FeSe. JETP Letters, 2017, 105, 786-791.	1.4	9
49	Unusual two-dimensional behavior of iron-based superconductors with low anisotropy. Physical Review B, 2017, 96, .	3.2	11
50	Superconducting gaps in FeSe studied by soft point-contact Andreev reflection spectroscopy. Physical Review B, 2017, 96, .	3.2	11
51	Gossamer high-temperature bulk superconductivity in FeSe. Physical Review B, 2017, 95, .	3.2	14
52	Unveiling the hidden nematicity and spin subsystem in FeSe. Npj Quantum Materials, 2017, 2, .	5.2	33
53	Pressure effect on magnetic susceptibility of SmS in the â€œblackâ€•phase. Journal of Alloys and Compounds, 2017, 695, 1647-1652.	5.5	3
54	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

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	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><mml:mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>0.07</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2016, 117, 157003.	7.8	68
63	Structureâ€“Property Relationships in Î±-, Î²â€²-, and Î³-Modifications of Mn₃(PO₄)₂. Inorganic Chemistry, 2016, 55, 10692-10700.	4.0	15
64	Synthesis of chalcogenide and pnictide crystals in salt melts using a steady-state temperature gradient. Crystallography Reports, 2016, 61, 682-691.	0.6	24
65	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
66	Doubling of the critical temperature of FeSe observed in point contacts. Physical Review B, 2016, 93, .	3.2	19
67	Impurity scattering effects on the superconducting properties and the tetragonal-to-orthorhombic phase transition in FeSe. Physical Review B, 2016, 93, .	3.2	38
68	New superconductor LixFe1+Î´Se (xâ€‰â‰‰â€‰0.07, Tc up to 44â€‰K) by an electrochemical route. Scientific Reports, 2016, 6, 25624.	3.3	22
69	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
70	Anomalous correlation effects and unique phase diagram of electron-doped FeSe revealed by photoemission spectroscopy. Nature Communications, 2016, 7, 10840.	12.8	144
71	Magnetic ground state of FeSe. Nature Communications, 2016, 7, 12182.	12.8	158
72	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

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73	Strong interplay between stripe spin fluctuations, nematicity and superconductivity in FeSe. Nature Materials, 2016, 15, 159-163.	27.5	217
74	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
75	Pressure dependence of upper critical fields in FeSe single crystals. Superconductor Science and Technology, 2016, 29, 035007.	3.5	6
76	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
77	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><mml:mathvariant="normal">O</mml:mi></mml:mrow></mml:math>. Physical Review B, 2015, 91, .	3.2	10
78	Superconducting properties of sulfur-doped iron selenide. Physical Review B, 2015, 91, .	3.2	90
79	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:mn><mml:mathvariant="normal">S</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	3.2	35
80	Enhanced critical current density in the pressure-induced magnetic state of the high-temperature superconductor FeSe. Scientific Reports, 2015, 5, 16385.	3.3	25
81	Features of the electronic structure of FeTe compounds. Low Temperature Physics, 2015, 41, 990-995.	0.6	0
82	C-axis Resistivity of Superconductive FeSe Single Crystals: Upper Critical Field and its Angular Behavior. Physics Procedia, 2015, 75, 364-368.	1.2	0
83	The system Agâ€“Pdâ€“Te: phase relations and mineral assemblages. Mineralogical Magazine, 2015, 79, 1813-1832.	1.4	18
84	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
85	Spin-dependent conductivity of iron-based superconductors in a magnetic field. Physica B: Condensed Matter, 2015, 464, 68-73.	2.7	1
86	Single-crystal structure study of iron chalcogenides Fe1 + ÎTe1 âˆ’ x S x. Crystallography Reports, 2015, 60, 227-235.	0.6	3
87	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
88	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
89	Interrelation of superconductivity and magnetism in FeSe1âˆ’xTex compounds. Pressure effects. Low Temperature Physics, 2014, 40, 615-620.	0.6	7
90	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

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91	THE Ag-Pd-Se SYSTEM: PHASE RELATIONS INVOLVING MINERALS AND POTENTIAL NEW MINERALS. Canadian Mineralogist, 2014, 52, 77-89.	1.0	11
92	Anisotropy of magnetic properties of Fe_{1+y}Te. Journal of Physics Condensed Matter, 2014, 26, 436003.	1.8	2
93	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
94	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
95	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-x</mml:mn></mml:mrow></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	158
96	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
97	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
98	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:mrow></mml:msub></mml:mrow></mml:math> nodeless superconductivity in FeSe. Physical Review B, 2013, 88, .	3.2	91
99	Single crystal growth and characterization of tetragonal FeSe1â^'x superconductors. CrystEngComm, 2013, 15, 1989.	2.6	141
100	Magnetic properties of superconducting FeSe in the normal state. Journal of Physics Condensed Matter, 2013, 25, 046004.	1.8	16
101	Acoustic characteristics of FeSe single crystals. Europhysics Letters, 2013, 101, 56005.	2.0	20
102	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
103	Quasiparticle Dynamics in FeSe Superconductors Studied by Femtosecond Spectroscopy. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1213-1215.	1.8	2
104	Piezomagnetism of FeSe single crystals. Europhysics Letters, 2013, 103, 47009.	2.0	7
105	Experimental Methods of Synthesis of Nano-/Macro Mineral Materials. Advanced Materials Research, 2013, 650, 308-313.	0.3	0
106	Synthesis and crystal structure of (Ag,Pd)₂₂Se₆. Powder Diffraction, 2013, 28, 13-17.	0.2	4
107	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
108	Magnetic properties of novel FeSe(Te) superconductors. Journal of Magnetism and Magnetic Materials, 2012, 324, 3460-3463.	2.3	10

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109	Quasiparticle Dynamics and Phonon Softening in FeSe Superconductors. Physical Review Letters, 2012, 108, 257006.	7.8	59
110	Magnetic and superconducting properties of FeSe1âˆ’xTex (xâˆ¼0, 0.5, and 1.0). Low Temperature Physics, 2011, 37, 83-89.	0.6	26
111	Crystal and electronic structure study of AgPd3Se. Journal of Solid State Chemistry, 2011, 184, 2794-2798.	2.9	9
112	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
113	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
114	Experimental Study of Interaction Between Sulphurous Anhydride and Silicates by the Example of Albite and Diopside. , 2008, , .		0
115	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
116	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
117	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
118	Phase separation near the charge neutrality point in FeSe1-xTex crystals with x < 0.15. Superconductor Science and Technology, 0, , .	3.5	1
119	Temporal Spinodal Decomposition of the Fe _{1+y} Te _{1âˆ’x} Se _x Crystals and its Impact on Superconducting Properties. Physica Status Solidi (B): Basic Research, 0, , .	1.5	0