

Konstantin Kamenev

List of Publications by Year in descending order

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304743

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docs citations

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2727
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of a miniature diamond-anvil cell in a joint X-ray and neutron high-pressure study on copper sulfate pentahydrate. <i>IUCr</i> , 2022, 9, 73-85.	2.2	2
2	Three-wall piston-cylinder type pressure cell for muon-spin rotation/relaxation experiments. <i>High Pressure Research</i> , 2022, 42, 29-46.	1.2	2
3	Heat Capacities of Nanostructured Wurtzite and Rock Salt ZnO: Challenges of ZnO Nano-Phase Diagram. <i>Solids</i> , 2021, 2, 121-128.	2.4	1
4	High-pressure sapphire capillary cell for synchrotron single-crystal X-ray diffraction measurements to 1500 bar. <i>Journal of Applied Crystallography</i> , 2020, 53, 1519-1523.	4.5	7
5	Putting the Squeeze on Molecule-Based Magnets: Exploiting Pressure to Develop Magneto-Structural Correlations in Paramagnetic Coordination Compounds. <i>Magnetochemistry</i> , 2020, 6, 32.	2.4	7
6	Pressure-induced inclusion of neon in the crystal structure of a molecular Cu ₂ (pacman) complex at 4.67 GPa. <i>Chemical Communications</i> , 2020, 56, 3449-3452.	4.1	2
7	High-pressure developments for resonant X-ray scattering experiments at I16. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 351-359.	2.4	1
8	High-pressure polymorphism in l-threonine between ambient pressure and 22 GPa. <i>CrystEngComm</i> , 2019, 21, 4444-4456.	2.6	27
9	The Effect of Pressure on Halogen Bonding in 4-Iodobenzonitrile. <i>Molecules</i> , 2019, 24, 2018.	3.8	11
10	High-pressure neutron diffraction study of Pd ₃ Fe. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	3
11	Understanding the adsorption process in ZIF-8 using high pressure crystallography and computational modelling. <i>Nature Communications</i> , 2018, 9, 1429.	12.8	146
12	Probing the origin of the giant magnetic anisotropy in trigonal bipyramidal Ni(II) under high pressure. <i>Chemical Science</i> , 2018, 9, 1551-1559.	7.4	52
13	Miniature Spherical Sapphire Anvil Cell for Small Angle Neutron Scattering. , 2017, , 247-255.		0
14	A novel diamond anvil cell for x-ray diffraction at cryogenic temperatures manufactured by 3D printing. <i>Review of Scientific Instruments</i> , 2017, 88, 035103.	1.3	4
15	Piston cylinder cell for high pressure ultrasonic pulse echo measurements. <i>Review of Scientific Instruments</i> , 2016, 87, 085103.	1.3	3
16	Pressure induced enhancement of the magnetic ordering temperature in rhenium(IV) monomers. <i>Nature Communications</i> , 2016, 7, 13870.	12.8	30
17	A non-topological mechanism for negative linear compressibility. <i>Chemical Communications</i> , 2016, 52, 7486-7489.	4.1	21
18	Use of a miniature diamond-anvil cell in high-pressure single-crystal neutron Laue diffraction. <i>IUCr</i> , 2016, 3, 168-179.	2.2	25

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19	A novel compact three-dimensional laser-sintered collimator for neutron scattering. Review of Scientific Instruments, 2015, 86, 095114.	1.3	12
20	Locating Gases in Porous Materials: Cryogenic Loading of Fuel-Related Gases Into a Scandium-based Metal-Organic Framework under Extreme Pressures. Angewandte Chemie - International Edition, 2015, 54, 13332-13336.	13.8	24
21	Studies on bifunctional Fe(II)-triazole spin crossover nanoparticles: time-dependent luminescence, surface grafting and the effect of a silica shell and hydrostatic pressure on the magnetic properties. Journal of Materials Chemistry C, 2015, 3, 7819-7829.	5.5	69
22	Pressure-Temperature Phase Diagram of Ionic Liquid Dielectric DEME-TFSI. Physics Procedia, 2015, 75, 252-258.	1.2	7
23	Enforcing Multifunctionality: A Pressure-Induced Spin-Crossover Photomagnet. Journal of the American Chemical Society, 2015, 137, 8795-8802.	13.7	144
24	Polymorphism of a polymer precursor: metastable glycolide polymorph recovered via large scale high-pressure experiments. CrystEngComm, 2015, 17, 1778-1782.	2.6	19
25	A high-pressure crystallographic and magnetic study of Na ₅ [Mn(1-tart) ₂]·12H ₂ O (1-tart) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	12
26	High pressure neutron and X-ray diffraction at low temperatures. Zeitschrift Fur Kristallographie - Crystalline Materials, 2014, 229, .	0.8	7
27	High-pressure effect on the superconductivity of YB ₆ . Physical Review B, 2014, 90, .	3.2	23
28	A pressure-induced displacive phase transition in Tris(ethylenediamine) Nickel(II) nitrate. Zeitschrift Fur Kristallographie - Crystalline Materials, 2014, 229, .	0.8	2
29	High-pressure cell for neutron diffraction with in situ pressure control at cryogenic temperatures. Review of Scientific Instruments, 2014, 85, 043904.	1.3	7
30	Review of modern instrumentation for magnetic measurements at high pressure and low temperature. Low Temperature Physics, 2014, 40, 735-746.	0.6	12
31	Pressure tunability in ReX ₄ based SMMs; A magnetostructural study. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C903-C903.	0.1	0
32	Instrumentation development for crystallography at high-pressure. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C392-C392.	0.1	0
33	Effect of high pressure on the crystal structure, magnetic, and vibrational properties of multiferroic RbFe(MoO ₄) ₂ . Physical Review B, 2013, 87, .	3.2	12
34	Effects of high pressure on the magnetism of ErCo ₂ . Journal of Applied Physics, 2012, 111, 07E132.	2.5	11
35	From Quantum Disorder to Magnetic Order in an s ₁ mo ₂ mn ₁ Lattice: A Structural and Magnetic Study of Herbertsmithite at High Pressure. Physical Review Letters, 2012, 108, 187207.	7.1	11
36	Strength analysis and optimisation of double-toroidal anvils for high-pressure research. Review of Scientific Instruments, 2012, 83, 093902.	1.3	17

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37	Piezochromism in Nickel Salicylaldoximate Complexes: Tuning Crystal Field Splitting with High Pressure. Chemistry - A European Journal, 2012, 18, 7738-7748.	3.3	33
38	High-field superconductivity at an electronic topological transition in URhGe. Nature Physics, 2011, 7, 890-894.	16.7	88
39	Large volume high-pressure cell for inelastic neutron scattering. Review of Scientific Instruments, 2011, 82, 073903.	1.3	16
40	High-Pressure Study of Oxo-bridged Mixed-Valent MnIII/MnIV Dimers High-Pressure Study of Oxo-bridged Mixed-Valent MnIII/MnIV Dimers. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 221-230.	0.7	6
41	Turnbuckle diamond anvil cell for high-pressure measurements in a superconducting quantum interference device magnetometer. Review of Scientific Instruments, 2010, 81, 073905.	1.3	42
42	Gas loading apparatus for the Paris-Edinburgh press. Review of Scientific Instruments, 2010, 81, 093904.	1.3	9
43	A rotator for single-crystal neutron diffraction at high pressure. Review of Scientific Instruments, 2010, 81, 113901.	1.3	7
44	Pressure-induced Jahn-Teller switching in a Mn ¹² nanomagnet. Chemical Communications, 2010, 46, 1881-1883.	4.1	57
45	Slow magnetic relaxation in a 3D network of cobalt(ii) citrate cubanes. Dalton Transactions, 2010, 39, 4727.	3.3	28
46	Pressure suppression of charge order without metallisation in Cs ₂ Au ₂ I ₆ . Chemical Communications, 2010, 46, 6681.	4.1	5
47	High pressure induced spin changes and magneto-structural correlations in hexametallic SMMs. Dalton Transactions, 2009, , 4858.	3.3	47
48	High pressure effects on a trimetallic MnII/III SMM. Dalton Transactions, 2009, , 7390.	3.3	17
49	[Mn ₆] under Pressure: A Combined Crystallographic and Magnetic Study. Angewandte Chemie - International Edition, 2008, 47, 2828-2831.	13.8	68
50	Cobalt(II) Citrate Cubane Single-Molecule Magnet. Inorganic Chemistry, 2008, 47, 7438-7442.	4.0	123
51	Synthesis and characterisation of a Ni ₄ single-molecule magnet with S ₄ symmetry. Dalton Transactions, 2008, , 6409.	3.3	83
52	Triplet dimerization crossover driven by magnetic frustration in $\ln_2V_2O_5$. Physical Review B, 2008, 77, .	3.2	5
53	High-pressure cell for a SQUID magnetometer with a plug for <i>in situ</i> pressure measurements. Journal of Physics: Conference Series, 2008, 121, 122001.	0.4	9
54	Miniature diamond anvil cell for ³ He insert into quantum design physical property measurement system. High Pressure Research, 2007, 27, 189-192.	1.2	2

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55	Phase inhomogeneities in the charge-orbital-ordered manganite $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_2$ through polaron dynamics. Physical Review B, 2007, 76, .	3.2	20
56	A mixed-valence Co_7 single-molecule magnet with C_3 symmetry. Chemical Communications, 2007, , 3473.	4.1	153
57	Pressure-Induced Sequential Magnetic Pole Inversion and Antiferromagnetic \rightarrow Ferromagnetic Crossover in a Trimetallic Prussian Blue Analogue. Journal of the American Chemical Society, 2006, 128, 6034-6035.	13.7	93
58	Structural and Magnetic Properties of $[\text{BDTA}]_2[\text{MCl}_4]$ [M = Cu (1), Co (2), and Mn (3)], Revealing an $S=1/2$ Square-Lattice Antiferromagnet with Weak Magnetic Exchange. Inorganic Chemistry, 2006, 45, 5767-5773.	4.0	7
59	Combined Magnetic and Single-Crystal X-ray Structural Study of the Linear Chain Antiferromagnet $[(\text{CH}_3)_4\text{N}][\text{MnCl}_3]$ under Varying Pressure. Journal of the American Chemical Society, 2006, 128, 9205-9210.	13.7	25
60	Long symmetric high-pressure cell for magnetic measurements in superconducting quantum interference device magnetometer. Review of Scientific Instruments, 2006, 77, 073905.	1.3	19
61	Structural and magnetic properties of layered $\text{Sr}_7\text{Mn}_4\text{O}_{15}$. Physical Review B, 2001, 64, .	3.2	22
62	Preparation and crystallographic properties of $\text{Sr}_{7-x}(\text{Ca/Ba})_x\text{Mn}_4\text{O}_{15}$. Materials Research Bulletin, 2000, 35, 2437-2444.	5.2	9