

# Konstantin Kamenev

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3348205/publications.pdf>

Version: 2024-02-01

62  
papers

1,757  
citations

304743

22  
h-index

276875

41  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2727  
citing authors

#	ARTICLE	IF	CITATIONS
1	A mixed-valence Co <sub>7</sub> single-molecule magnet with C <sub>3</sub> symmetry. <i>Chemical Communications</i> , 2007, , 3473.	4.1	153
2	Understanding the adsorption process in ZIF-8 using high pressure crystallography and computational modelling. <i>Nature Communications</i> , 2018, 9, 1429.	12.8	146
3	Enforcing Multifunctionality: A Pressure-Induced Spin-Crossover Photomagnet. <i>Journal of the American Chemical Society</i> , 2015, 137, 8795-8802.	13.7	144
4	Cobalt(II) Citrate Cubane Single-Molecule Magnet. <i>Inorganic Chemistry</i> , 2008, 47, 7438-7442.	4.0	123
5	Pressure-Induced Sequential Magnetic Pole Inversion and Antiferromagnetic <sup>to</sup> Ferromagnetic Crossover in a Trimetallic Prussian Blue Analogue. <i>Journal of the American Chemical Society</i> , 2006, 128, 6034-6035.	13.7	93
6	High-field superconductivity at an electronic topological transition in URhGe. <i>Nature Physics</i> , 2011, 7, 890-894.	16.7	88
7	Synthesis and characterisation of a Ni <sub>4</sub> single-molecule magnet with S <sub>4</sub> symmetry. <i>Dalton Transactions</i> , 2008, , 6409.	3.3	83
8	Studies on bifunctional Fe( <sup>ii</sup> )-triazole spin crossover nanoparticles: time-dependent luminescence, surface grafting and the effect of a silica shell and hydrostatic pressure on the magnetic properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7819-7829.	5.5	69
9	[Mn <sub>6</sub> ] under Pressure: A Combined Crystallographic and Magnetic Study. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2828-2831.	13.8	68
10	Pressure-induced Jahn-Teller switching in a Mn <sub>12</sub> nanomagnet. <i>Chemical Communications</i> , 2010, 46, 1881-1883.	4.1	57
11	Probing the origin of the giant magnetic anisotropy in trigonal bipyramidal Ni( <sup>ii</sup> ) under high pressure. <i>Chemical Science</i> , 2018, 9, 1551-1559.	7.4	52
12	High pressure induced spin changes and magneto-structural correlations in hexametallic SMMs. <i>Dalton Transactions</i> , 2009, , 4858.	3.3	47
13	Turnbuckle diamond anvil cell for high-pressure measurements in a superconducting quantum interference device magnetometer. <i>Review of Scientific Instruments</i> , 2010, 81, 073905.	1.3	42
14	From Quantum Disorder to Magnetic Order in an $s=1$ $\text{Mn}^{2+}$ Lattice: A Structural and Magnetic Study of Herbertsmithite at High Pressure. <i>Physical Review Letters</i> , 2012, 108, 187207.	7.8	34
15	Piezochromism in Nickel Salicylaldoximate Complexes: Tuning Crystal Field Splitting with High Pressure. <i>Chemistry - A European Journal</i> , 2012, 18, 7738-7748.	3.3	33
16	Pressure induced enhancement of the magnetic ordering temperature in rhenium(IV) monomers. <i>Nature Communications</i> , 2016, 7, 13870.	12.8	30
17	Slow magnetic relaxation in a 3D network of cobalt(ii) citrate cubanes. <i>Dalton Transactions</i> , 2010, 39, 4727.	3.3	28
18	High-pressure polymorphism in l-threonine between ambient pressure and 22 GPa. <i>CrystEngComm</i> , 2019, 21, 4444-4456.	2.6	27

#	ARTICLE	IF	CITATIONS
19	Combined Magnetic and Single-Crystal X-ray Structural Study of the Linear Chain Antiferromagnet [(CH <sub>3</sub> ) <sub>4</sub> N][MnCl <sub>3</sub> ] under Varying Pressure. <i>Journal of the American Chemical Society</i> , 2006, 128, 9205-9210.	13.7	25
20	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
21	Locating Gases in Porous Materials: Cryogenic Loading of Fuel-Related Gases Into a Scandium-based Metal-Organic Framework under Extreme Pressures. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13332-13336.	13.8	24
22	High-pressure effect on the superconductivity of $YB_6$ . <i>Physical Review B</i> , 2014, 90, .	3.2	23
23	Structural and magnetic properties of layered Sr <sub>7</sub> Mn <sub>4</sub> O <sub>15</sub> . <i>Physical Review B</i> , 2001, 64, .	3.2	22
24	A non-topological mechanism for negative linear compressibility. <i>Chemical Communications</i> , 2016, 52, 7486-7489.	4.1	21
25	Phase inhomogeneities in the charge-orbital-ordered manganite $Sr_{1-x}Nd_xFe_2As_2$ through polaron dynamics. <i>Physical Review B</i> , 2007, 76, .	3.2	20
26	Long symmetric high-pressure cell for magnetic measurements in superconducting quantum interference device magnetometer. <i>Review of Scientific Instruments</i> , 2006, 77, 073905.	1.3	19
27	Polymorphism of a polymer precursor: metastable glycolide polymorph recovered via large scale high-pressure experiments. <i>CrystEngComm</i> , 2015, 17, 1778-1782.	2.6	19
28	High pressure effects on a trimetallic MnII/III SMM. <i>Dalton Transactions</i> , 2009, , 7390.	3.3	17
29	Strength analysis and optimisation of double-toroidal anvils for high-pressure research. <i>Review of Scientific Instruments</i> , 2012, 83, 093902.	1.3	17
30	Large volume high-pressure cell for inelastic neutron scattering. <i>Review of Scientific Instruments</i> , 2011, 82, 073903.	1.3	16
31	Effect of high pressure on the crystal structure, magnetic, and vibrational properties of multiferroic $RbFe(MoO_4)_2Tj$ . <i>Physical Review B</i> , 2012, 87, .	3.2	12
32	Review of modern instrumentation for magnetic measurements at high pressure and low temperature. <i>Low Temperature Physics</i> , 2014, 40, 735-746.	0.6	12
33	A novel compact three-dimensional laser-sintered collimator for neutron scattering. <i>Review of Scientific Instruments</i> , 2015, 86, 095114.	1.3	12
34	Effects of high pressure on the magnetism of ErCo <sub>2</sub> . <i>Journal of Applied Physics</i> , 2012, 111, 07E132.	2.5	11
35	The Effect of Pressure on Halogen Bonding in 4-Iodobenzonitrile. <i>Molecules</i> , 2019, 24, 2018.	3.8	11
36	Preparation and crystallographic properties of Sr <sub>7-<i>x</i></sub> (Ca/Ba) <sub><i>x</i></sub> Mn <sub>4</sub> O <sub>15</sub> . <i>Materials Research Bulletin</i> , 2000, 35, 2437-2444.	5.2	9

#	ARTICLE	IF	CITATIONS
37	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
38	Gas loading apparatus for the Paris-Edinburgh press. Review of Scientific Instruments, 2010, 81, 093904.	1.3	9
39	Structural and Magnetic Properties of [BDTA] <sub>2</sub> [MCl <sub>4</sub> ] [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
40	A rotator for single-crystal neutron diffraction at high pressure. Review of Scientific Instruments, 2010, 81, 113901.	1.3	7
41	High pressure neutron and X-ray diffraction at low temperatures. Zeitschrift Fur Kristallographie - Crystalline Materials, 2014, 229, .	0.8	7
42	High-pressure cell for neutron diffraction with <i>in situ</i> pressure control at cryogenic temperatures. Review of Scientific Instruments, 2014, 85, 043904.	1.3	7
43	Pressure-Temperature Phase Diagram of Ionic Liquid Dielectric DEME-TFSI. Physics Procedia, 2015, 75, 252-258.	1.2	7
44	High-pressure sapphire capillary cell for synchrotron single-crystal X-ray diffraction measurements to 1500 bar. Journal of Applied Crystallography, 2020, 53, 1519-1523.	4.5	7
45	Putting the Squeeze on Molecule-Based Magnets: Exploiting Pressure to Develop Magneto-Structural Correlations in Paramagnetic Coordination Compounds. Magnetochemistry, 2020, 6, 32.	2.4	7
46	High-Pressure Study of Oxo-bridged Mixed-Valent Mn <sup>III</sup> /Mn <sup>IV</sup> Dimers High-Pressure Study of Oxo-bridged Mixed-Valent Mn <sup>III</sup> /Mn <sup>IV</sup> Dimers. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 221-230.	0.7	6
47	$\ln V < O > < 5 >$ magnetic frustration Physical Review B, 2008, 77, .	3.2	5
48	Pressure suppression of charge order without metallisation in Cs <sub>2</sub> Au <sub>2</sub> I <sub>6</sub> . Chemical Communications, 2010, 46, 6681.	4.1	5
49	A high-pressure crystallographic and magnetic study of Na <sub>5</sub> [Mn <sub>2</sub> (l-tart) <sub>2</sub> ] <sub>2</sub> ·12H <sub>2</sub> O (l-tart) Tj ETQq1 1 0.784314 rgB5/Overlo	1.3	4
50	A novel diamond anvil cell for x-ray diffraction at cryogenic temperatures manufactured by 3D printing. Review of Scientific Instruments, 2017, 88, 035103.	1.3	4
51	Piston cylinder cell for high pressure ultrasonic pulse echo measurements. Review of Scientific Instruments, 2016, 87, 085103.	1.3	3
52	High-pressure neutron diffraction study of Pd <sub>3</sub> Fe. Journal of Applied Physics, 2019, 125, .	2.5	3
53	Miniature diamond anvil cell for <sup>3</sup> He insert into quantum design physical property measurement system. High Pressure Research, 2007, 27, 189-192.	1.2	2
54	A pressure-induced displacive phase transition in Tris(ethylenediamine) Nickel(II) nitrate. Zeitschrift Fur Kristallographie - Crystalline Materials, 2014, 229, .	0.8	2

#	ARTICLE	IF	CITATIONS
55	Pressure-induced inclusion of neon in the crystal structure of a molecular Cu <sub>2</sub> (pacman) complex at 4.67 GPa. <i>Chemical Communications</i> , 2020, 56, 3449-3452.	4.1	2
56	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
57	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
58	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
59	High-pressure developments for resonant X-ray scattering experiments at I16. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 351-359.	2.4	1
60	Miniature Spherical Sapphire Anvil Cell for Small Angle Neutron Scattering. , 2017, , 247-255.		0
61	Pressure tunability in ReX <sub>4</sub> based SMMs; A magnetostructural study. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C903-C903.	0.1	0
62	Instrumentation development for crystallography at high-pressure. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C392-C392.	0.1	0