

# Mike Ozerov

## List of Publications by Year in descending order

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69  
papers

1,206  
citations

331538

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434063

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73  
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73  
docs citations

73  
times ranked

1641  
citing authors

#	ARTICLE	IF	CITATIONS
1	Weyl Fermion magneto-electrodynamics and ultralow field quantum limit in TaAs. <i>Science Advances</i> , 2022, 8, eabj1076.	4.7	4
2	Analysis of vibronic coupling in a 4f molecular magnet with FIRMS. <i>Nature Communications</i> , 2022, 13, 825.	5.8	34
3	Large easy-axis magnetic anisotropy in a series of trigonal prismatic mononuclear cobalt( $\text{Co}^{\text{II}}$ ) complexes with zero-field hidden single-molecule magnet behaviour: the important role of the distortion of the coordination sphere and intermolecular interactions in the slow relaxation. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2810-2831.	3.0	32
4	Symmetry-breaking phase transitions, dielectric and magnetic properties of pyrrolidinium-tetrahalidocobaltates. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2353-2364.	3.0	7
5	High-Field Magnetoelectric and Spin-Phonon Coupling in Multiferroic $(\text{NH}_4)_2[\text{FeCl}_5\cdot(\text{H}_2\text{O})]$ . <i>Inorganic Chemistry</i> , 2022, 61, 3434-3442.	1.9	3
6	Magnetic field tuning of crystal field levels and vibronic states in the spin ice compound $\text{Ho}_2\text{O}_7$ observed with far infrared reflectometry. <i>Physical Review B</i> , 2022, 105, .	1.1	2
7	Unconventional Landau level transitions in Weyl semimetal NbP. <i>Physical Review Materials</i> , 2022, 6, .	0.9	3
8	Magnetic properties of a quantum spin ladder in proximity to the isotropic limit. <i>Physical Review B</i> , 2021, 103, .	1.1	1
9	Applying Unconventional Spectroscopies to the Single-Molecule Magnets, $\text{Co}(\text{PPh}_3)_2\text{X}_2$ ( $\text{X}=\text{Cl}, \text{Br}, \text{I}$ ): Unveiling Magnetic Transitions and Spin-Phonon Coupling. <i>Chemistry - A European Journal</i> , 2021, 27, 11110-11125.	1.7	21
10	Spectroscopic Analysis of Vibronic Relaxation Pathways in Molecular Spin Qubit $[\text{Ho}(\text{W}_5\text{O}_{18})_2]^{9-}$ : Sparse Spectra Are Key. <i>Inorganic Chemistry</i> , 2021, 60, 14096-14104.	1.9	22
11	Non-traditional thermal behavior of $\text{Co}^{\text{II}}$ coordination networks showing slow magnetic relaxation. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4356-4366.	3.0	7
12	Unraveling the Topological Phase of $\text{ZrTe}_5$ via Magnetoinfrared Spectroscopy. <i>Physical Review Letters</i> , 2020, 125, 046403.	2.9	26
13	Probing the Magnetic Anisotropy of $\text{Co}(\text{II})$ Complexes Featuring Redox-Active Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 16178-16193.	1.9	22
14	Advanced Magnetic Resonance Studies of Tetraphenylporphyrinatoiron(III) Halides. <i>Applied Magnetic Resonance</i> , 2020, 51, 1411-1432.	0.6	6
15	Magnetoelastic distortion of multiferroic $\text{BiFeO}_3$ in the canted antiferromagnetic state. <i>Physical Review B</i> , 2020, 102, .	1.1	6
16	Tuning magnetic anisotropy by the $\sigma$ -bonding features of the axial ligands and the electronic effects of gold(I) atoms in 2D $\{\text{Co}(\text{L})_2[\text{Au}(\text{CN})_2]_2\}_n$ metal-organic frameworks with field-induced single-ion magnet behaviour. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4611-4630.	3.0	13
17	Electron-Hole Asymmetry of Surface States in Topological Insulator $\text{Sb}_2\text{Te}_3$ Thin Films Revealed by Magneto-Infrared Spectroscopy. <i>Nano Letters</i> , 2020, 20, 4588-4593.	4.5	9
18	Unconventional valley-dependent optical selection rules and Landau level mixing in bilayer graphene. <i>Nature Communications</i> , 2020, 11, 2941.	5.8	9

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19	The discovery of dynamic chiral anomaly in a Weyl semimetal NbAs. Nature Communications, 2020, 11, 1259.	5.8	38
20	Inter-Kramers Transitions and Spin-Phonon Couplings in a Lanthanide-Based Single-Molecule Magnet. Inorganic Chemistry, 2020, 59, 5218-5230.	1.9	25
21	Single-Ion Magnetic Behaviour in an Iron(III) Porphyrin Complex: A Dichotomy Between High Spin and $5/2 \leftarrow 3/2$ Spin Admixture. Chemistry - A European Journal, 2020, 26, 14242-14251.	1.7	9
22	Dirac energy spectrum and inverted bandgap in metamorphic InAsSb/InSb superlattices. Applied Physics Letters, 2020, 116, 032101.	1.5	5
23	Spin-Lattice Coupling Across the Magnetic Quantum-Phase Transition in Copper-Containing Coordination Polymers. Inorganic Chemistry, 2020, 59, 2127-2135.	1.9	7
24	Spin-lattice and electron-phonon coupling in 3d/5d hybrid Sr <sub>3</sub> NiIrO <sub>6</sub> . Npj Quantum Materials, 2019, 4, .	1.8	6
25	Spectroscopic Studies of the Magnetic Excitation and Spin-Phonon Couplings in a Single-Molecule Magnet. Chemistry - A European Journal, 2019, 25, 15846-15857.	1.7	22
26	In-depth investigation of large axial magnetic anisotropy in monometallic 3d complexes using frequency domain magnetic resonance and <i>ab initio</i> methods: a study of trigonal bipyramidal Co( <i>scpi</i> ). Chemical Science, 2019, 10, 6354-6361.	3.7	17
27	A Trigonal Prismatic Cobalt(II) Complex as a Single Molecule Magnet with a Reduced Contribution from Quantum Tunneling. ChemPhysChem, 2019, 20, 1001-1005.	1.0	37
28	Detailed electronic structure of a high-spin cobalt( <i>scpi</i> ) complex determined from NMR and THz-EPR spectroscopy. Physical Chemistry Chemical Physics, 2019, 21, 8201-8204.	1.3	30
29	Coligand Effects on the Field-Induced Double Slow Magnetic Relaxation in Six-Coordinate Cobalt(II) Single-Ion Magnets (SIMs) with Positive Magnetic Anisotropy. Inorganic Chemistry, 2019, 58, 15726-15740.	1.9	35
30	Purely Spectroscopic Determination of the Spin Hamiltonian Parameters in High-Spin Six-Coordinated Cobalt(II) Complexes with Large Zero-Field Splitting. Inorganic Chemistry, 2019, 58, 16434-16444.	1.9	25
31	Square-planar Co( <i>scpiii</i> ) in {O <sub>4</sub> } coordination: large ZFS and reactivity with ROS. Chemical Communications, 2018, 54, 12045-12048.	2.2	9
32	Metamorphic narrow-gap InSb/InAsSb superlattices with ultra-thin layers. Applied Physics Letters, 2018, 113, .	1.5	6
33	Slow Magnetic Relaxation in Cobalt(II) Field-Induced Single-Ion Magnets with Positive Large Anisotropy. Inorganic Chemistry, 2018, 57, 12740-12755.	1.9	41
34	Spin-phonon couplings in transition metal complexes with slow magnetic relaxation. Nature Communications, 2018, 9, 2572.	5.8	93
35	Crystallographic Evidence for a Sterically Induced Ferryl Tilt in a Non-Heme Oxoiron(IV) Complex that Makes it a Better Oxidant. Angewandte Chemie - International Edition, 2018, 57, 9387-9391.	7.2	53
36	Crystallographic Evidence for a Sterically Induced Ferryl Tilt in a Non-Heme Oxoiron(IV) Complex that Makes it a Better Oxidant. Angewandte Chemie, 2018, 130, 9531-9535.	1.6	16

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37	A THz spectrometer combining the free electron laser FLARE with 33â€‰T magnetic fields. Applied Physics Letters, 2017, 110, 094106.	1.5	14
38	Spectral characterization of THz radiation from the free electron laser FLARE and its implications for high-resolution ESR. , 2016, , .		0
39	Electron spin resonance insight into broadband absorption of the Cu <sub>3</sub> Bi(SeO <sub>3</sub> ) <sub>2</sub> O <sub>2</sub> Br metamagnet. AIP Advances, 2016, 6, .	0.6	12
40	Design of THz setup in the restricted geometry available in high-field magnets. , 2016, , .		0
41	An ultrawide-bandwidth single-sideband modulator for terahertz frequencies. Nature Photonics, 2016, 10, 740-744.	15.6	17
42	Electron spin resonance in a strong-rung spin- $\frac{1}{2}$ ladder. Physical Review B, 2016, 93, .		
43	Electron spin resonance modes in a strong-leg ladder in the Tomonaga-Luttinger liquid phase. Physical Review B, 2015, 92, .	1.1	19
44	Controllable Broadband Absorption in the Mixed Phase of Metamagnets. Advanced Functional Materials, 2015, 25, 3634-3640.	7.8	14
45	Magnetic excitations in the spin-1/2 triangular-lattice antiferromagnet Cs <sub>2</sub> CuBr <sub>4</sub> . New Journal of Physics, 2015, 17, 113059.	1.2	12
46	Low-dimensional compounds containing cyanido groups. XXVIII. Crystal structure, spectroscopic and magnetic properties of two copper(II) tetracyanidoplatinate complexes with 1,2-diaminopropane. Journal of Solid State Chemistry, 2015, 225, 202-208.	1.4	1
47	Direct determination of the electron effective mass of GaAsN by terahertz cyclotron resonance spectroscopy. Applied Physics Letters, 2015, 107, .	1.5	9
48	Observation of Anisotropic Exchange in a Spin Ladder by ESR. Acta Physica Polonica A, 2014, 126, 238-239.	0.2	0
49	ESR of coupled spin-1/2 chains in copper pyrazine dinitrate: unveiling geometrical frustration. Journal of Physics Condensed Matter, 2014, 26, 026003.	0.7	15
50	Direct Determination of Exchange Parameters in Cs <sub>2</sub> CuBr <sub>4</sub> and Cs <sub>2</sub> CuCl <sub>4</sub> : High-Field Electron-Spin-Resonance Studies. Physical Review Letters, 2014, 112, 077206.	2.9	63
51	Establishing the Fundamental Magnetic Interactions in the Chiral Skyrmionic Mott Insulator $\text{Cu}_2\text{O}$ . High-field Electron Spin Resonance Spectroscopy of Singlet-Triplet Transitions in the Spin-Dimer Systems $\text{SrCu}_2\text{O}_7$ and $\text{CrOCl}$ . Physical Review B, 2014, 89, .	2.9	36
52			
53	Magnetization, magnetic susceptibility and ESR in Tb <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> . European Physical Journal B, 2013, 86, 1.	0.6	19
54	Field-Induced Gap in the Spin-1/2 Heisenberg Chain Compound Cu-Pyrimidine Dinitrate: ESR Studies in Magnetic Fields up to 63 T. Journal of Low Temperature Physics, 2013, 170, 268-273.	0.6	4

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55	Broken magnetic symmetry due to charge-order ferroelectricity discovered in (TMTTF) <sub>2</sub> X salts by multi-frequency ESR. Physical Review B, 2012, 85, .	1.1	23
56	Magnetic and optical properties of virgin arc furnace grown MgO crystals. Journal of Crystal Growth, 2012, 339, 70-74.	0.7	6
57	Field-induced gap in a quantum spin-1 Manganesedoped $\text{CaMn}_2\text{P}_2\text{O}_{14}$ . Physical Review B, 2010, 82, .	1.1	39
58	Low-dimensional compounds containing cyanido groups. XXI. Crystal structure, spectroscopic, thermal and magnetic properties of two polymorphous modifications of $[\text{Cu}(\text{men})_2\text{Pt}(\text{CN})_4]_n$ complex (men=N-methyl-1,2-diaminoethane). Polyhedron, 2011, 30, 269-278.	1.0	10
59	Quantum critical dynamics of $S = 1/2$ antiferromagnetic heisenberg chains studied in $\text{CuPzN}$ by ESR. Journal of Physics: Conference Series, 2010, 200, 022070.	0.3	6
60	High-Field Magnetization Study of $[\text{Cu}(\text{pyz})_2(\text{HF}_2)]\text{PF}_6$ : An $S=1/2$ Quasi-two-dimensional Heisenberg Magnet. Journal of Low Temperature Physics, 2010, 159, 92-95.	0.6	0
61	Interaction of point defects with impurities in the $\text{SiO}_2$ system and its influence on the properties of the interface. Thin Solid Films, 2010, 518, 2374-2376.	0.8	1
62	Magnetic properties of the quasi-two-dimensional $S=1/2$ Heisenberg antiferromagnet $[\text{Cu}(\text{pyz})_2(\text{HF}_2)]\text{PF}_6$ . Physical Review B, 2010, 81, .	1.1	29
63	Spin dynamics in $S=1/2$ chains with next-nearest-neighbor exchange interactions. Physical Review B, 2010, 82, .	1.1	9
64	Anisotropy of magnetic interactions in the spin-ladder compound $(\text{C}_5\text{H}_{12}\text{N})_2\text{CuBr}_4$ . Physical Review B, 2010, 82, .	1.1	30
65	Terahertz-range free-electron laser electron spin resonance spectroscopy: Techniques and applications in high magnetic fields. Review of Scientific Instruments, 2009, 80, 073102.	0.6	55
66	Magnetic properties of the $S=1/2$ Heisenberg spin-chain material $(6\text{MAP})\text{CuCl}_3$ . Journal of Physics: Conference Series, 2009, 150, 042159.	0.3	2
67	Magnetic properties of the Zn-doped Haldane-gap material NENB. Journal of Physics: Conference Series, 2009, 150, 042017.	0.3	0
68	Magnetic properties of the Haldane-gap material $[\text{Ni}(\text{C}_2\text{H}_8\text{N}_2)_2\text{NO}_2](\text{BF}_4)_2$ . New Journal of Physics, 2008, 10, 033008.	1.2	15