Kasper Steen Pedersen

List of Publications by Year
in descending order

60 papers	2,731 citations	172386 29 h-index	175177 52 g-index
74 all docs	74 docs citations	74 times ranked	2905 citing authors

#	Article	IF	Citations
1	Island formation of Er(trensal) single-ion magnets on graphene observed on the micrometer scale. RSC Advances, 2021, 11, 9421-9425.	1.7	5
2	Magnetic Archimedean Tessellations in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 14041-14045.	6.6	11
3	Emergent magnetic behavior in the frustrated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Yb</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Ga</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:math> garnet. Physical Review B, 2021, 104, .	1.1	9
4	Zero-valent metals in metalâ€“organic frameworks: <i>fac</i>-M(CO)₃(pyrazine)_{3/2}. Chemical Communications, 2021, 57, 3861-3864.	2.2	12
5	Evidence for Nonâ€Innocence of a Î²â€Diketonate Ligand. Chemistry - A European Journal, 2020, 26, 2143-2147.	1.7	9
6	Ligand field-actuated redox-activity of acetylacetonate. Chemical Science, 2020, 11, 8267-8272.	3.7	8
7	Pentagonal-bipyramidal acetonitrile complexes of the lanthanide(II) iodides. Inorganic Chemistry Communication, 2020, 114, 107819.	1.8	7
8	Metal-organic magnets with large coercivity and ordering temperatures up to 242Â°C. Science, 2020, 370, 587-592.	6.0	91
9	Chemical engineering of quasicrystal approximants in lanthanide-based coordination solids. Nature Communications, 2020, 11, 4705.	5.8	7
10	Structural characterization and magnetic properties of chromium jarosite KCr₃(OD)₆(SO₄)₂. Physical Chemistry Chemical Physics, 2020, 22, 25001-25010.	1.3	3
11	Access to Heteroleptic Fluoridoâ€Cyanido Complexes with a Large Magnetic Anisotropy by Fluoride Abstraction. Angewandte Chemie, 2020, 132, 10392-10396.	1.6	2
12	Access to Heteroleptic Fluoridoâ€Cyanido Complexes with a Large Magnetic Anisotropy by Fluoride Abstraction. Angewandte Chemie - International Edition, 2020, 59, 10306-10310.	7.2	6
13	A Redox-Innocent Uranium(IV)-Quinoid Metal-Organic Framework. ACS Omega, 2020, 5, 3462-3466.	1.6	5
14	Coercive Fields Above 6â€…T in Two Cobalt(II)â€“Radical Chain Compounds. Angewandte Chemie, 2020, 132, 10697-10705.	1.6	3
15	Coercive Fields Above 6â€…T in Two Cobalt(II)â€“Radical Chain Compounds. Angewandte Chemie - International Edition, 2020, 59, 10610-10618.	7.2	38
16	[UF 6] 2âˆ' : A Molecular Hexafluorido Actinide(IV) Complex with Compensating Spin and Orbital Magnetic Moments. Angewandte Chemie - International Edition, 2019, 58, 15650-15654.	7.2	8
17	[UF 6] 2âˆ' : A Molecular Hexafluorido Actinide(IV) Complex with Compensating Spin and Orbital Magnetic Moments. Angewandte Chemie, 2019, 131, 15797-15801.	1.6	0
18	RÃ¼cktitelbild: [UF₆]^{2âˆ'}: A Molecular Hexafluorido Actinide(IV) Complex with Compensating Spin and Orbital Magnetic Moments (Angew. Chem. 44/2019). Angewandte Chemie, 2019, 131, 16084-16084.	1.6	0

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19	Chemical tunnel-splitting-engineering in a dysprosium-based molecular nanomagnet. Nature Communications, 2018, 9, 1292.	5.8	81
20	Rational Selfâ€Assembly of Tricobalt Extended Metal Atom Chains and [MF₆]^{2â€“} Building Blocks into Oneâ€Dimensional Coordination Polymers. European Journal of Inorganic Chemistry, 2018, 2018, 320-325.	1.0	11
21	Formation of the layered conductive magnet CrCl2(pyrazine)2 through redox-active coordination chemistry. Nature Chemistry, 2018, 10, 1056-1061.	6.6	108
22	Coherent Manipulation of a Molecular Ln-Based Nuclear Qudit Coupled to an Electron Qubit. Journal of the American Chemical Society, 2018, 140, 9814-9818.	6.6	86
23	Field-induced single-molecule magnet behavior in ideal trigonal antiprismatic cobalt(<scp>ii</scp>) complexes: precise geometrical control by a hydrogen-bonded rigid metalloligand. Chemical Communications, 2018, 54, 8869-8872.	2.2	32
24	Cr(pyrazine)2(OSO2CH3)2: A two-dimensional coordination polymer with an antiferromagnetic ground state. Polyhedron, 2018, 153, 248-253.	1.0	13
25	[OsF₆]^{<i>x</i>âˆ’}: Molecular Models for Spinâ€Orbit Entangled Phenomena. Chemistry - A European Journal, 2017, 23, 11244-11248.	1.7	18
26	Molecular Fluoride-Bridged 3d-4f Complexes and Their Magnetic Properties. , 2016, , 213-230.		1
27	Iridates from the molecular side. Nature Communications, 2016, 7, 12195.	5.8	41
28	Toward Molecular 4f Single-Ion Magnet Qubits. Journal of the American Chemical Society, 2016, 138, 5801-5804.	6.6	201
29	Multifaceted magnetization dynamics in the mononuclear complex [Re^{IV}Cl₄(CN)₂]^{2âˆ’}. Chemical Communications, 2016, 52, 12905-12908.	2.2	30
30	Spin Crossover in Fe(II) Complexes with N₄S₂ Coordination. Inorganic Chemistry, 2016, 55, 5904-5913.	1.9	49
31	Out-of-Plane Alignment of Er(trensal) Easy Magnetization Axes Using Graphene. ACS Nano, 2016, 10, 2887-2892.	7.3	27
32	Zeroâ€Field Splitting in {Mn^{III}₃(Î¼₃â€O)} Core Singleâ€Molecule Magnets Investigated by Inelastic Neutron Scattering and Highâ€Field Electron Paramagnetic Resonance Spectroscopy. European Journal of Inorganic Chemistry, 2015, 2015, 2683-2689.	1.0	9
33	Design of Single-Molecule Magnets: Insufficiency of the Anisotropy Barrier as the Sole Criterion. Inorganic Chemistry, 2015, 54, 7600-7606.	1.9	191
34	[Cr^{III}₈M^{II}₆]¹²⁺ Coordination Cubes (M^{II}=Cu,â€‰Co). Angewandte Chemie - International Edition, 2015, 54, 6761-6764.	7.2	42
35	Fluoride-coordination chemistry in molecular and low-dimensional magnetism. Coordination Chemistry Reviews, 2015, 299, 1-21.	9.5	53
36	Magnetic and magnetocaloric properties of an unusual family of carbonate-panelled [LnIII6ZnII2] cages. Dalton Transactions, 2015, 44, 10315-10320.	1.6	27

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37	Cyanide Single-Molecule Magnets Exhibiting Solvent Dependent Reversible â€œOnâ€• and â€œOffâ€• Exchange Bias Behavior. Journal of the American Chemical Society, 2015, 137, 14406-14422.	6.6	121
38	One-dimensional coordination polymers of [Co₃(dpa)₄]²⁺ and [MF₆]^{2â^'} (M = Re^{IV}, Zr^{IV} and Sn^{IV}). Chemical Communications, 2015, 51, 17748-17751.	2.2	9
39	[ReF₆]^{2â^'}: A Robust Module for the Design of Moleculeâ€Based Magnetic Materials. Angewandte Chemie - International Edition, 2014, 53, 1351-1354.	7.2	98
40	Single-molecule magnet engineering: building-block approaches. Chemical Communications, 2014, 50, 4396-4415.	2.2	273
41	Magnetic Interactions through Fluoride: Magnetic and Spectroscopic Characterization of Discrete, Linearly Bridged [Mn^{III}₂(Î¼-F)F₄(Me₃tacn)₂](PF₆). Inorganic Chemistry, 2014, 53, 5013-5019.	1.9	17
42	Modifying the properties of 4f single-ion magnets by peripheral ligand functionalisation. Chemical Science, 2014, 5, 1650-1660.	3.7	159
43	Magnetic properties of ultra-small goethite nanoparticles. Journal Physics D: Applied Physics, 2014, 47, 365003.	1.3	32
44	Exchange Interaction of Strongly Anisotropic Tripodal Erbium Single-Ion Magnets with Metallic Surfaces. ACS Nano, 2014, 8, 4662-4671.	7.3	37
45	Fluorideâ€Bridged {Gd^{III}₃M^{III}₂} (M=Cr, Fe, Ga) Molecular Magnetic Refrigerants. Angewandte Chemie - International Edition, 2014, 53, 2394-2397.	7.2	86
46	Innentitelbild: [ReF6]2â^': A Robust Module for the Design of Molecule-Based Magnetic Materials (Angew. Chem. 5/2014). Angewandte Chemie, 2014, 126, 1192-1192.	1.6	0
47	XMCD study of the magnetic exchange coupling in a fluoride-bridged Dy-Cr molecular cluster. Journal of the Korean Physical Society, 2013, 62, 1368-1371.	0.3	6
48	Angular dependence of the exchange interaction in fluoride-bridged GdIIIâ€“CrIII complexes. Chemical Communications, 2013, 49, 5583.	2.2	33
49	Threeâ€Axis Anisotropic Exchange Coupling in the Singleâ€Molecule Magnets NEt₄[Mn^{III}₂(5â€Brsalen)₂(MeOH)₂M^{III}(CN)<sub>6</sub (M=Ru, Os). Chemistry - A European Journal, 2013, 19, 3693-3701.	1.7	58
50	Direct observation of a ferri-to-ferromagnetic transition in a fluoride-bridged 3dâ€“4f molecular cluster. Chemical Science, 2012, 3, 1024-1032.	3.7	78
51	MnIII zero-field splitting parameters and weak exchange interactions in a cyanide-bridged {MnIIIâ€“IrIIIâ€“MnIII} cluster. Inorganic Chemistry Communication, 2012, 24, 24-28.	1.8	7
52	Fluoride-bridged {Ln2Cr2} polynuclear complexes from semi-labile mer-[CrF3(py)3] and [Ln(hfac)3(H2O)2]. Dalton Transactions, 2012, 41, 11284.	1.6	43
53	An oxide-bridged Dyâ€“ReVâ€“Dy single-molecule magnet. Polyhedron, 2012, 46, 47-52.	1.0	5
54	Fluoride Bridges as Structure-Directing Motifs in 3d-4f Cluster Chemistry. Inorganic Chemistry, 2012, 51, 5435-5443.	1.9	86

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55	X-ray Magnetic Circular Dichroism (XMCD) Study of a Methoxide-Bridged Dy^{III}â€“Cr^{III} Cluster Obtained by Fluoride Abstraction from <i>cis</i>-[Cr^{III}F₂(phen)₂]⁺. Journal of Physical Chemistry A, 2012, 116, 7842-7847.	1.1	24
56	Magnetic Properties of a Manganese(III) Chain with Monoatomic Bridges: <i>catena</i>-MnF(salen). Inorganic Chemistry, 2011, 50, 5312-5314.	1.9	29
57	A linear single-molecule magnet based on [RuIII(CN)6]3â^'. Chemical Communications, 2011, 47, 6918.	2.2	50
58	Frequencyâ€Domain Fourierâ€Transform Terahertz Spectroscopy of the Singleâ€Molecule Magnet (NEt₄)[Mn₂(5â€Brsalen)₂(MeOH)₂Cr(CN)₆]. Chemistry - A European Journal, 2011, 17, 7492-7498.	1.7	50
59	Enhancing the Blocking Temperature in Singleâ€Molecule Magnets by Incorporating 3dâ€“5d Exchange Interactions. Chemistry - A European Journal, 2010, 16, 13458-13464.	1.7	75
60	Single-Ion Anisotropy and Exchange Interactions in the Cyano-Bridged Trimers Mn^{III}₂M^{III}(CN)₆ (M^{III} = Co, Cr, Fe) Species Incorporating [Mn(5-Brsalen)]⁺ Units: An Inelastic Neutron Scattering and Magnetic Susceptibility Study. Inorganic Chemistry, 2009, 48, 128-137.	1.9	48