

Stefan T Ochsenbein

List of Publications by Year in descending order

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47
papers

3,541
citations

159585

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times ranked

5112
citing authors

#	ARTICLE	IF	CITATIONS
1	Colloidal CsPbX ₃ (X = Cl, Br, I) Nanocrystals 2.0: Zwitterionic Capping Ligands for Improved Durability and Stability. ACS Energy Letters, 2018, 3, 641-646.	17.4	647
2	Mn ²⁺ -Doped CdSe Quantum Dots: New Inorganic Materials for Spin-Electronics and Spin-Photonics. Advanced Functional Materials, 2008, 18, 3873-3891.	14.9	395
3	Direct Synthesis of Quaternary Alkylammonium-Capped Perovskite Nanocrystals for Efficient Blue and Green Light-Emitting Diodes. ACS Energy Letters, 2019, 4, 2703-2711.	17.4	161
4	Single-Molecule Magnets Under Pressure. Advanced Functional Materials, 2006, 16, 209-220.	14.9	145
5	Charge-controlled magnetism in colloidal doped semiconductor nanocrystals. Nature Nanotechnology, 2009, 4, 681-687.	31.5	145
6	Synthesis, Structure, and Magnetic Properties of the Single-Molecule Magnet [Ni ₂₁ (cit) ₁₂ (OH) ₁₀ (H ₂ O) ₁₀] ₁₆ ⁻ . Inorganic Chemistry, 2002, 41, 5133-5140.	4.0	138
7	Exploration of Near-Infrared-Emissive Colloidal Multinary Lead Halide Perovskite Nanocrystals Using an Automated Microfluidic Platform. ACS Nano, 2018, 12, 5504-5517.	14.6	138
8	Pushing the limits of magnetic anisotropy in trigonal bipyramidal Ni(ⁱⁱ). Chemical Science, 2015, 6, 6823-6828.	7.4	136
9	Nickel pivalate complexes: structural variations and magnetic susceptibility and inelastic neutron scattering studies. Dalton Transactions, 2004, , 2758-2766.	3.3	99
10	Engineering Color-Stable Blue Light-Emitting Diodes with Lead Halide Perovskite Nanocrystals. ACS Applied Materials & Interfaces, 2019, 11, 21655-21660.	8.0	98
11	Synthesis and Spectroscopic Characterization of a New Family of Ni ₄ Spin Clusters. Inorganic Chemistry, 2005, 44, 4315-4325.	4.0	92
12	Underestimated Effect of a Polymer Matrix on the Light Emission of Single CsPbBr ₃ Nanocrystals. Nano Letters, 2019, 19, 3648-3653.	9.1	88
13	Molecular Spin Clusters: New Synthetic Approaches and Neutron Scattering Studies. ChemPhysChem, 2003, 4, 910-926.	2.1	76
14	Mixed-Valent Cobalt Spin Clusters: A Hexanuclear Complex and a One-Dimensional Coordination Polymer Comprised of Alternating Hepta- and Mononuclear Fragments. Inorganic Chemistry, 2006, 45, 8950-8957.	4.0	73
15	Low-energy spin excitations in the molecular magnetic cluster V ₁₅ . Europhysics Letters, 2002, 59, 291-297.	2.0	70
16	A Wheel-Shaped Single-Molecule Magnet of [Mn ^{II} ₃ Mn ^{III} ₄]: Quantum Tunneling of Magnetization under Static and Pulse Magnetic Fields. Chemistry - A European Journal, 2007, 13, 8445-8453.	3.3	70
17	Comparison of extra electrons in colloidal n-type Al ³⁺ -doped and photochemically reduced ZnO nanocrystals. Chemical Communications, 2012, 48, 9352.	4.1	70
18	Quantum oscillations in magnetically doped colloidal nanocrystals. Nature Nanotechnology, 2011, 6, 112-115.	31.5	66

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19	Colloidal Transition-Metal-Doped Quantum Dots. , 2010, , 397-453.		64
20	Polymer Triplet Energy Levels Need Not Limit Photocurrent Collection in Organic Solar Cells. Journal of the American Chemical Society, 2012, 134, 19661-19668.	13.7	61
21	Solvothermal Syntheses of High-Nuclearity Vanadium(III) Clusters. Chemistry - A European Journal, 2003, 9, 6215-6220.	3.3	59
22	Mechanism of ground-state selection in the frustrated molecular spin cluster V 15. Europhysics Letters, 2004, 66, 423-429.	2.0	59
23	Electron Confinement Effects in the EPR Spectra of Colloidal n-Type ZnO Quantum Dots. Journal of Physical Chemistry C, 2008, 112, 14331-14335.	3.1	58
24	A Family of Ferro- and Antiferromagnetically Coupled Decametallic Chromium(III) Wheels. Chemistry - A European Journal, 2006, 12, 1385-1396.	3.3	55
25	Exchange Interactions at the Origin of Slow Relaxation of the Magnetization in {TbCu ₃ } and {DyCu ₃ } Single-Molecule Magnets. Inorganic Chemistry, 2014, 53, 8970-8978.	4.0	54
26	Colloidal Nanocrystals of Wurtzite Zn _{1-x} Co _x O (0 ≤ x ≤ 1) Tj ETQq0 0 0 rgBT /Overlo Materials, 2008, 20, 7107-7116.	6.7	51
27	Supertetrahedral decametallic Ni(ii) clusters directed by 1/46-tris-alkoxides. Chemical Communications, 2004, , 1418-1419.	4.1	49
28	Theoretical Characterization of Electronic Transitions in Co ²⁺ - and Mn ²⁺ -Doped ZnO Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 8710-8717.	3.1	46
29	Spin-on Spintronics: Ultrafast Electron Spin Dynamics in ZnO and Zn _{1-x} CoxO Sol-Gel Films. Nano Letters, 2011, 11, 3355-3360.	9.1	42
30	Studies of Finite Molecular Chains: Synthesis, Structural, Magnetic and Inelastic Neutron Scattering Studies of Hexa- and Heptanuclear Chromium Horseshoes. Chemistry - A European Journal, 2008, 14, 5144-5158.	3.3	38
31	Hyperfine Coupling in Colloidal n-Type ZnO Quantum Dots: Effects on Electron Spin Relaxation. Journal of Physical Chemistry C, 2010, 114, 14467-14472.	3.1	32
32	Quantized antiferromagnetic spin waves in the molecular Heisenberg ring CsFe ₈ . Physical Review B, 2010, 81, .	3.2	27
33	Surface Contributions to Mn ²⁺ Spin Dynamics in Colloidal Doped Quantum Dots. Journal of Physical Chemistry Letters, 2015, 6, 457-463.	4.6	25
34	Popcorn-Shaped Fe ₄ O (W ₄ stite) Nanoparticles from a Single-Source Precursor: Colloidal Synthesis and Magnetic Properties. Chemistry of Materials, 2018, 30, 1249-1256.	6.7	21
35	Charge-State Control of Mn ²⁺ Spin Relaxation Dynamics in Colloidal n-Type Zn _{1-x} Mn _x O Nanocrystals. Journal of Physical Chemistry Letters, 2015, 6, 1748-1753.	4.6	17
36	Inelastic neutron scattering studies on the odd-membered antiferromagnetic wheel Cr ₈ Ni. Physical Review B, 2012, 86, .	3.2	14

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37	Standing spin waves in an antiferromagnetic molecular Cr 6 horseshoe. Europhysics Letters, 2007, 79, 17003.	2.0	13
38	Magnetic cluster excitations in the antiferromagnetic phase of MnMoO_4 . Physical Review B, 2003, 68, .	3.2	9
39	Direct Determination of the Anisotropy and Exchange Splittings in the Dimeric Single-Molecule Magnet $[\text{Mn}_4\text{O}_3\text{Cl}_4(\text{O}_2\text{C}_2\text{Et})_3(\text{py})_3]_2 \cdot 8\text{MeCN}$ by Inelastic Neutron Scattering. Inorganic Chemistry, 2005, 44, 6771-6776.	4.0	9
40	Huge Transverse Magnetic Polarization in the Field-Induced Phase of the Antiferromagnetic Molecular Wheel CsFe_8 . Physical Review Letters, 2007, 99, 087201.	7.8	8
41	Sputtering-induced CoO formation in x-ray photoelectron spectroscopy of nanocrystalline $\text{Zn}_{1-x}\text{Co}_x\text{O}$ spinodal enrichment models. Journal of Applied Physics, 2010, 107, 103917.	2.5	7
42	Inelastic neutron scattering study of undeuterated $[\text{Mn}_9\text{O}_7(\text{OAc})_{11}(\text{thme})(\text{py})_3(\text{H}_2\text{O})_2]$. Polyhedron, 2005, 24, 2455-2458.	2.2	6
43	Spin dynamics in the manganese tetramer compound Mn_4O_4 . Journal of Physics Condensed Matter, 2009, 21, 026019.	1.8	4
44	Neutron scattering studies of magnetic molecular spin clusters. Physica B: Condensed Matter, 2004, 350, E51-E54.	2.7	3
45	Probing mixing of quantum spin states in frustrated molecular magnets with neutron scattering. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3399-3401.	0.8	2
46	Ultrafast spin dynamics in magnetic wide-bandgap semiconductors. Physica Status Solidi (B): Basic Research, 2014, 251, 1685-1693.	1.5	1
47	Ultrafast electron spin dynamics in ZnO and $\text{Zn}_{1-x}\text{Co}_x\text{O}$ sol-gel thin films. EPJ Web of Conferences, 2013, 41, 03015.	0.3	0