Elzbieta Trzop

List of Publications by Year
in descending order

72 papers	2,329 citations	201674 27 h-index	223800 46 g-index
75 all docs	75 docs citations	75 times ranked	2013 citing authors

#	Article	IF	Citations
1	Crystallography and Properties of Polyoxotitanate Nanoclusters. Chemical Reviews, 2014, 114, 9645-9661.	47.7	256
2	Binding Modes of Carboxylate- and Acetylacetonate-Linked Chromophores to Homodisperse Polyoxotitanate Nanoclusters. Journal of the American Chemical Society, 2012, 134, 11695-11700.	13.7	129
3	Successive Dynamical Steps of Photoinduced Switching of a Molecular Fe(III) Spin-Crossover Material by Time-Resolved X-Ray Diffraction. Physical Review Letters, 2009, 103, 028301.	7.8	126
4	Large Polyoxotitanate Clusters: Well-Defined Models for Pure-Phase TiO₂ Structures and Surfaces. Journal of the American Chemical Society, 2010, 132, 13669-13671.	13.7	117
5	First Step Towards a Devil's Staircase in Spinâ€Crossover Materials. Angewandte Chemie - International Edition, 2016, 55, 8675-8679.	13.8	94
6	Increasing spin crossover cooperativity in 2D Hofmann-type materials with guest molecule removal. Chemical Science, 2018, 9, 5623-5629.	7.4	84
7	Ultrafast spin-state photoswitching in a crystal and slower consecutive processes investigated by femtosecond optical spectroscopy and picosecond X-ray diffraction. Physical Chemistry Chemical Physics, 2012, 14, 6192.	2.8	79
8	Electronic vs. structural ordering in a manganese(<scp>iii</scp>) spin crossover complex. Chemical Communications, 2015, 51, 17540-17543.	4.1	77
9	Hysteresis Photomodulation via Single-Crystal-to-Single-Crystal Isomerization of a Photochromic Chain of Dysprosium Single-Molecule Magnets. Journal of the American Chemical Society, 2020, 142, 931-936.	13.7	68
10	Restricted Photochemistry in the Molecular Solid State: Structural Changes on Photoexcitation of Cu(I) Phenanthroline Metal-to-Ligand Charge Transfer (MLCT) Complexes by Time-Resolved Diffraction. Journal of Physical Chemistry A, 2012, 116, 3359-3365.	2.5	60
11	Structural investigation of the photoinduced spin conversion in the dinuclear compound {[Fe(bt)(NCS)2]2(bpym)}: toward controlled multi-stepped molecular switches. Journal of Applied Crystallography, 2007, 40, 158-164.	4.5	58
12	The First Observation of Hidden Hysteresis in an Iron(III) Spinâ€Crossover Complex. Angewandte Chemie - International Edition, 2019, 58, 11811-11815.	13.8	57
13	Stressâ€Induced Domain Wall Motion in a Ferroelastic Mn³⁺ Spin Crossover Complex. Angewandte Chemie - International Edition, 2020, 59, 13305-13312.	13.8	49
14	Wavelength selective light-induced magnetic effects in the binuclear spin crossover compound{[Fe(bt)(NCS)2]2(bpym)}. Physical Review B, 2007, 75, .	3.2	48
15	Monitoring structural transformations in crystals. 6. The [4â€…+â€…4] photodimerization of 9-methylanthracene. Acta Crystallographica Section B: Structural Science, 2003, 59, 779-786.	1.8	45
16	Symmetry breaking and light-induced spin-state trapping in a mononuclear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mtext>II</mml: with the two-step thermal conversion. Physical Review B, 2010, 82, .	3.2	43
17	How Does Substitutional Doping Affect Visible Light Absorption in a Series of Homodisperse Ti₁₁ Polyoxotitanate Nanoparticles?. Chemistry - A European Journal, 2015, 21, 11538-11544.	3.3	39
18	Monitoring structural transformations in crystals. Part 4. Monitoring structural changes in crystals of pyridine analogs of chalcone during [2+2]-photodimerization and possibilities of the reaction in hydroxy derivatives. Journal of Solid State Chemistry, 2003, 174, 459-465.	2.9	37

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19	The development of Laue techniques for single-pulse diffraction of chemical complexes: time-resolved Laue diffraction on a binuclear rhodium metal-organic complex. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, 319-326.	0.3	37
20	Guest induced reversible onâ€“off switching of elastic frustration in a 3D spin crossover coordination polymer with room temperature hysteretic behaviour. Chemical Science, 2021, 12, 1317-1326.	7.4	36
21	Relating structure and photoelectrochemical properties: electron injection by structurally and theoretically characterized transition metal-doped phenanthrolineâ€“polyoxotitanate nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 15792-15795.	2.8	35
22	Direct Observation of the Binding Mode of the Phosphonate Anchor to Nanosized Polyoxotitanate Clusters. Chemistry - A European Journal, 2013, 19, 16651-16655.	3.3	34
23	The role of symmetry breaking in the structural trapping of light-induced excited spin states. Chemical Communications, 2017, 53, 13268-13271.	4.1	34
24	Molecular insight into the mode-of-action of phosphonate monolayers as active functions of hybrid metal oxide adsorbents. Case study in sequestration of rare earth elements. RSC Advances, 2015, 5, 24575-24585.	3.6	33
25	A novel manganese-doped large polyoxotitanate nanocluster. Dalton Transactions, 2014, 43, 3839-3841.	3.3	31
26	Nanosized Alkali-Metal-Doped Ethoxotitanate Clusters. Inorganic Chemistry, 2013, 52, 4750-4752.	4.0	29
27	Solvatomorphismâ€Induced 45 K Hysteresis Width in a Spinâ€Crossover Mononuclear Compound. Chemistry - A European Journal, 2018, 24, 14760-14767.	3.3	29
28	Strain wave pathway to semiconductor-to-metal transition revealed by time-resolved X-ray powder diffraction. Nature Communications, 2021, 12, 1239.	12.8	29
29	Shedding Light on the Photochemistry of Coinage-Metal Phosphorescent Materials: A Time-Resolved Laue Diffraction Study of an Ag^Iâ€“Cu^I Tetranuclear Complex. Inorganic Chemistry, 2014, 53, 10594-10601.	4.0	27
30	Monitoring structural transformations in crystals. 8. Monitoring molecules and a reaction center during a solid-state Yang photocyclization. Acta Crystallographica Section B: Structural Science, 2006, 62, 128-134.	1.8	26
31	Time-resolved Laue diffraction of excited species at atomic resolution: 100 ps single-pulse diffraction of the excited state of the organometallic complex Rh2(Î¼-PNP)2(PNP)2Â·BPh4. Chemical Communications, 2011, 47, 1704.	4.1	26
32	A Large Manganeseâ€doped Polyoxotitanate Nanocluster: Ti₁₄MnO₁₄(OH)₂(OEt)₂₈. Journal of the Chinese Chemical Society, 2013, 60, 887-890.	1.4	25
33	On the Biexponential Decay of the Photoluminescence of the Two Crystallographically-Independent Molecules in Crystals of [Cu(I)(phen)(PPh₃)₂][BF₄]. Journal of Physical Chemistry Letters, 2013, 4, 579-582.	4.6	25
34	First Step Towards a Devil's Staircase in Spinâ€Crossover Materials. Angewandte Chemie, 2016, 128, 8817-8821.	2.0	25
35	Photoinduced reversible spin-state switching of an FeIII complex assisted by a halogen-bonded supramolecular network. Chemical Communications, 2017, 53, 10283-10286.	4.1	25
36	Reactivity of Functionalized Ynamides with Tetracyanoethylene: Scope, Limitations and Optoelectronic Properties of the Adducts. Chemistry - an Asian Journal, 2017, 12, 1338-1346.	3.3	23

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37	The First Observation of Hidden Hysteresis in an Iron(III) Spinâ€Crossover Complex. Angewandte Chemie, 2019, 131, 11937-11941.	2.0	23
38	{[Hg(SCN)₃]₂(Î¼-L)}^{2â€“}: An Efficient Secondary Building Unit for the Synthesis of 2D Iron(II) Spin-Crossover Coordination Polymers. Inorganic Chemistry, 2018, 57, 1562-1571.	4.0	22
39	Giant Magnetoelectric Coupling and Magnetic-Field-Induced Permanent Switching in a Spin Crossover Mn(III) Complex. Inorganic Chemistry, 2021, 60, 6167-6175.	4.0	21
40	Domain Wall Dynamics in a Ferroelastic Spin Crossover Complex with Giant Magnetoelectric Coupling. Journal of the American Chemical Society, 2022, 144, 195-211.	13.7	21
41	Impact of the use of sterically congested Ir(<scp>iii</scp>) complexes on the performance of light-emitting electrochemical cells. Journal of Materials Chemistry C, 2018, 6, 6385-6397.	5.5	18
42	Photoinduced phenomena and structural analysis associated with the spin-state switching in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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55	Heterobimetallic complexes from 0D clusters to 3D networks based on various polycyanometallates and [Cu(dmpn)₂]²⁺ (dmpn = 2,2-dimethyl-1,3-diaminopropane): synthesis, crystal structures and magnetic properties. CrystEngComm, 2020, 22, 2806-2816.	2.6	8
56	Formation of local spin-state concentration waves during the relaxation from a photoinduced state in a spin-crossover polymer. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 660-668.	1.1	6
57	A serials of sandwich-like trinuclear and one-dimensional chain cyanide-bridged iron(III)-copper(II) complexes: Syntheses, crystal structures and magnetic properties. Journal of Solid State Chemistry, 2018, 260, 59-66.	2.9	6
58	One-dimensional cyanide-bridged Cr(III)â€"Cu(II) complexes: synthesis, crystal structures and magnetic properties. Transition Metal Chemistry, 2018, 43, 45-52.	1.4	6
59	Can we deconvolute electron density changes from the dominant influence of the atomic rearrangement on molecular excitation in time-resolved diffraction studies?. Physica Scripta, 2016, 91, 023003.	2.5	5
60	Cyanide-bridged polynuclear heterobimetallic complexes: synthesis, crystal structures, and magnetic properties. Transition Metal Chemistry, 2019, 44, 383-389.	1.4	5
61	One-dimensional cyanide-bridged Fe(III)â€"Mn(II) magnetic complexes with different configurations derived from a new pentacyanoiron(III) building block. Transition Metal Chemistry, 2020, 45, 373-380.	1.4	5
62	Thermal and Magnetic Field Switching in a Twoâ€Step Hysteretic Mn^{III} Spin Crossover Compound Coupled to Symmetry Breakings. Angewandte Chemie, 2022, 134, e202114021.	2.0	5
63	Polynuclear and one-dimensional cyanide-bridged heterobimetallic complexes: synthesis, crystal structures and magnetic properties. Journal of Chemical Sciences, 2018, 130, 1.	1.5	3
64	Spin Crossover in a Series of Non-Hofmann-Type Fe(II) Coordination Polymers Based on [Hg(SeCN)₃]^{âˆ’} or [Hg(SeCN)₄]^{2â€"} Building Blocks. Inorganic Chemistry, 2021, 60, 11048-11057.	4.0	3
65	Dynamical limits for the molecular switching in a photoexcited material revealed by X-ray diffraction. Communications Physics, 2022, 5, .	5.3	3
66	Substitute Group-Tuned Schiff-Base Manganese(III)-Based Cyanide-Bridged Bimetallic Complexes: Synthesis, Crystal Structures and Magnetic Properties. Journal of Chemical Research, 2018, 42, 28-32.	1.3	2
67	InnenrÃ¼cktitelbild: First Step Towards a Devil's Staircase in Spin-Crossover Materials (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT /Ov	2.0	1
68	Single Laser Shot Photoinduced Phase Transition of Rubidium Manganese Hexacyanoferrate Investigated by X-ray Diffraction. European Journal of Inorganic Chemistry, 2019, 2019, 3121-3121.	2.0	1
69	Tuning of crystallization method and ligand conformation to give a mononuclear compound or two-dimensional SCO coordination polymer based on a new semi-rigid V-shaped bis-pyridyl bis-amide ligand. Acta Crystallographica Section C, Structural Chemistry, 2020, 76, 412-418.	0.5	1
70	Correction: Electronic vs. structural ordering in a manganese(<scp>iii</scp>) spin crossover complex. Chemical Communications, 2015, 51, 17630-17630.	4.1	0
71	Reply To: How Does Substitutional Doping Affect Visible Light Absorption in a Series of Homodisperse Ti₁₁ Polyoxotitanate Nanoparticlesâ€"A Comment on the Band Gap Determination of the Fe^{II} Cages. Chemistry - A European Journal, 2016, 22, 4634-4636.	3.3	0
72	A rare octacoordinated mononuclear iron(III) spin-crossover compound: synthesis, crystal structure and magnetic properties. Acta Crystallographica Section C, Structural Chemistry, 2020, 76, 856-862.	0.5	0