

Trevor A Tyson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/759820/publications.pdf>

Version: 2024-02-01

99
papers

4,150
citations

126708

33
h-index

114278

63
g-index

103
all docs

103
docs citations

103
times ranked

6051
citing authors

#	ARTICLE	IF	CITATIONS
1	Tl ₂ Ir ₂ O ₇ : A Pauli Paramagnetic Metal, Proximal to a Metal Insulator Transition. <i>Inorganic Chemistry</i> , 2021, 60, 4424-4433.	1.9	5
2	High-Resolution In-Situ Synchrotron X-Ray Studies of Inorganic Perovskite CsPbBr ₃ : New Symmetry Assignments and Structural Phase Transitions. <i>Advanced Science</i> , 2021, 8, e2003046.	5.6	9
3	A Polar Magnetic and Insulating Double Corundum Oxide: Mn ₂ MnSbO ₆ with Ordered Mn(II) and Mn(III) Ions. <i>Chemistry of Materials</i> , 2021, 33, 6522-6529.	3.2	9
4	Constructing 2D MOFs from 2D LDHs: a highly efficient and durable electrocatalyst for water oxidation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 190-195.	5.2	93
5	A Pressure-Induced Inverse Order-Disorder Transition in Double Perovskites. <i>Angewandte Chemie</i> , 2020, 132, 8317-8323.	1.6	1
6	A Pressure-Induced Inverse Order-Disorder Transition in Double Perovskites. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8240-8246.	7.2	13
7	Magnetic transitions in exotic perovskites stabilized by chemical and physical pressure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5082-5091.	2.7	6
8	InnenrÄ¼cktitelbild: A Pressure-Induced Inverse Order-Disorder Transition in Double Perovskites (Angew. Chem. 21/2020). <i>Angewandte Chemie</i> , 2020, 132, 8378-8378.	1.6	0
9	High-Pressure Synthesis and Ferrimagnetism of Ni ₃ TeO ₆ -Type Mn ₂ ScMO ₆ (M = Nb, Ta). <i>Inorganic Chemistry</i> , 2019, 58, 15953-15961.	1.9	6
10	Uncovering the mystery of ferroelectricity in zero dimensional nanoparticles. <i>Nanoscale Advances</i> , 2019, 1, 664-670.	2.2	35
11	Structural features associated with multiferroic behavior in the RX ₃ (BO ₃) ₄ system. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 505704.	0.7	3
12	High-Pressure Synthesis of Lu ₂ NiIrO ₆ with Ferrimagnetism and Large Coercivity. <i>Inorganic Chemistry</i> , 2019, 58, 397-404.	1.9	28
13	Structural phase transitions in SrTiO ₃ nanoparticles. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	6
14	Unveiling hidden ferrimagnetism and giant magnetoelectricity in polar magnet Fe ₂ Mo ₃ O ₈ . <i>Scientific Reports</i> , 2015, 5, 12268.	1.6	92
15	Average and Local Crystal Structures of (Ga _{1-x} Zn _x)(N _{1-x} O _x) Solid Solution Nanoparticles. <i>Inorganic Chemistry</i> , 2015, 54, 11226-11235.	1.9	15
16	Strong Electron Hybridization and Fermi-to-Non-Fermi Liquid Transition in LaCu ₃ Ir ₄ O ₁₂ . <i>Chemistry of Materials</i> , 2015, 27, 211-217.	3.2	16
17	Absence of significant structural changes near the magnetic ordering temperature in small-ion rare earth perovskite RMnO ₃ . <i>Journal of Physics Condensed Matter</i> , 2014, 26, 495402.	0.7	4
18	Polar state in freestanding strontium titanate nanoparticles. <i>Applied Physics Letters</i> , 2014, 105, 091901.	1.5	10

#	ARTICLE	IF	CITATIONS
19	Synthesis and Structure of Perovskite ScMnO_3 . Inorganic Chemistry, 2013, 52, 9692-9697.	1.9	27
20	On the origin of enhanced thermoelectricity in Fe doped $\text{Ca}_3\text{Co}_4\text{O}_9$. Journal of Materials Chemistry C, 2013, 1, 4114.	2.7	39
21	Ferroelectricity in single crystal InMnO_3 . Applied Physics Letters, 2013, 102, 172901.	1.5	13
22	Possible Bose-condensate behavior in a quantum phase originating in a collective excitation in the chemically and optically doped Mott-Hubbard system UO_2 . Physical Review B, 2013, 88, .	1.1	39
23	A structural change in $\text{Ca}_3\text{Co}_4\text{O}_9$ associated with enhanced thermoelectric properties. Journal of Physics Condensed Matter, 2012, 24, 455602.	0.7	26
24	A Switcher ASIC Design for Use in a Charge-Pump Detector. IEEE Transactions on Nuclear Science, 2012, 59, 3205-3212.	1.2	0
25	High carrier mobility in transparent $\text{Ba}_{1-x}\text{La}_x\text{SnO}_3$ crystals with a wide band gap. Applied Physics Letters, 2012, 100, .	1.5	170
26	Direct extraction of quantitative structural information from x-ray fluorescence holograms using spherical-harmonic analysis. Physical Review B, 2012, 85, .	1.1	1
27	Anomalous Pseudocapacitive Behavior of a Nanostructured, Mixed-Valent Manganese Oxide Film for Electrical Energy Storage. Nano Letters, 2012, 12, 3483-3490.	4.5	234
28	Promotion of water-mediated carbon removal by nanostructured barium oxide/nickel interfaces in solid oxide fuel cells. Nature Communications, 2011, 2, 357.	5.8	280
29	Nanospheres of a New Intermetallic FeSn_5 Phase: Synthesis, Magnetic Properties and Anode Performance in Li-ion Batteries. Journal of the American Chemical Society, 2011, 133, 11213-11219.	6.6	88
30	Amorphous Hierarchical Porous GeO_2 as High-Capacity Anodes for Li Ion Batteries with Very Long Cycling Life. Journal of the American Chemical Society, 2011, 133, 20692-20695.	6.6	288
31	A 256-channel (element) correlator design based on an FPGA for X-ray Photon Correlation Spectroscopy. , 2011, , .		0
32	Investigation of structural and electronic properties of graphene oxide. Applied Physics Letters, 2011, 99, .	1.5	252
33	Origin of the non-linear pressure effects in perovskite manganites: Buckling of MnO_6 octahedra and Jahn-Teller distortion of the MnO_6 octahedra induced by pressure. Journal of Magnetism and Magnetic Materials, 2010, 322, 3049-3052.	1.0	9
34	Ab initio density functional studies of the restructuring of graphene nanoribbons to form tailored single walled carbon nanotubes. Carbon, 2010, 48, 1153-1158.	5.4	25
35	Temperature-dependent local structure of $\text{LaFeAsO}_{1-x}\text{F}_x$: Probing the atomic correlations. Journal of Applied Physics, 2010, 108, 123715.	1.1	12
36	Insights on the Atomic and Electronic Structure of Boron Nanoribbons. Physical Review Letters, 2010, 104, 245502.	2.9	39

#	ARTICLE	IF	CITATIONS
---	---------	----	-----------

37
Bifurcation Order in a Two-Dimensional $\mathbb{C}P^1$
[xmlns:mml="http://www.w3.org/1998/Math/MathML"](http://www.w3.org/1998/Math/MathML)

#	ARTICLE	IF	CITATIONS
55	High-efficiency high-energy-resolution spectrometer for inelastic X-ray scattering. Journal of Physics and Chemistry of Solids, 2005, 66, 2295-2298.	1.9	9
56	Modeling Pb sorption to microporous amorphous oxides as discrete particles and coatings. Journal of Colloid and Interface Science, 2005, 281, 39-48.	5.0	86
57	The structure and stability of $\hat{\Gamma}^2$ -Ta thin films. Thin Solid Films, 2005, 479, 166-173.	0.8	43
58	An Investigation of Structures of Thermal and Anodic Tantalum Oxide Films. Journal of the Electrochemical Society, 2005, 152, B60.	1.3	23
59	The stability of the $\hat{\Gamma}^2$ -phase of tantalum: a molecular dynamics study. Journal of Physics Condensed Matter, 2005, 17, 1841-1850.	0.7	12
60	The structure of small Ta clusters. Journal of Physics Condensed Matter, 2005, 17, 6111-6121.	0.7	10
61	Local Atomic Structure of Partially Ordered NiMn in NiMn/NiFe Exchange Coupled Layers: XAFS Measurements and Structural Refinement. Journal of Physical Chemistry B, 2005, 109, 10406-10418.	1.2	9
62	Using a probabilistic approach in an ecological risk assessment simulation tool: test case for depleted uranium (DU). Chemosphere, 2005, 60, 111-125.	4.2	17
63	Correlations between pressure and bandwidth effects in metal-insulator transitions in manganites. Applied Physics Letters, 2004, 84, 942-944.	1.5	34
64	Pressure effects on charge, spin, and metal-insulator transitions in the narrow bandwidth manganite $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$. Physical Review B, 2004, 70, .	1.1	67
65	X-ray absorption study of Ti-activated sodium aluminum hydride. Applied Physics Letters, 2004, 85, 500-502.	1.5	189
66	Laura Mgrdichian National Synchrotron Light Source, Brookhaven National Laboratory. Synchrotron Radiation News, 2004, 17, 13-29.	0.2	0
67	Evidence for spin clusters and glassy behaviour in $\text{Bi}_{1-x}\text{Ca}_x\text{MnO}_3$ ($x \approx 0.875$). Journal of Physics Condensed Matter, 2004, 16, 2689-2705.	0.7	15
68	Development and Application of Computer Simulation Tools for Ecological Risk Assessment. Environmental Modeling and Assessment, 2003, 8, 311-322.	1.2	18
69	Investigation of the structure of $\hat{\Gamma}^2$ -tantalum. Thin Solid Films, 2003, 437, 116-122.	0.8	45
70	Theory of the structural phases of group 5B-6B metals and their transport properties. Journal of Applied Physics, 2003, 93, 4543-4560.	1.1	21
71	High-pressure X-ray near-edge absorption study of thallium rhenium oxide up to 10.86 GPa. High Pressure Research, 2003, 23, 471-476.	0.4	9
72	Transport and structural study of pressure-induced magnetic states in $\text{Nd}_{0.55}\text{Sr}_{0.45}\text{MnO}_3$ and $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$. Physical Review B, 2003, 68, .	1.1	33

#	ARTICLE	IF	CITATIONS
73	Pressure-induced re-entrant electronic and magnetic state in Pr _{0.7} Ca _{0.3} MnO ₃ manganite. Applied Physics Letters, 2003, 83, 2856-2858.	1.5	24
74	Effects of pressure on electron transport and atomic structure of manganites: Low to high pressure regimes. Physical Review B, 2003, 67, .	1.1	35
75	Structural, magnetic, and transport studies of La _{0.8} MnO ₃ films. Journal of Applied Physics, 2002, 92, 4518-4523.	1.1	5
76	Local magnetic ordering in La _{1-x} CaxMnO ₃ determined by spin-polarized x-ray absorption spectroscopy. Applied Physics Letters, 2002, 80, 3141-3143.	1.5	22
77	Structural studies of annealed ultrathin La _{0.8} MnO ₃ films. Applied Physics Letters, 2002, 80, 2663-2665.	1.5	5
78	XAS Studies of Ni and Zn Sorbed to Hydrous Manganese Oxide. Environmental Science & Technology, 2001, 35, 4515-4521.	4.6	58
79	An Analysis of Zinc Sorption to Amorphous versus Crystalline Iron Oxides Using XAS. Journal of Colloid and Interface Science, 2001, 244, 230-238.	5.0	75
80	Local Structure Analysis of Strontium Sorption to Hydrous Manganese Oxide. Journal of Colloid and Interface Science, 2000, 224, 408-416.	5.0	43
81	Valence measurement of Mn oxides using Mn K _L ² emission spectroscopy. Journal of Physics and Chemistry of Solids, 2000, 61, 457-460.	1.9	10
82	Thermal effects in the x-ray spectra of La _{1-x} CaxMnO ₃ . Physical Review B, 2000, 62, 13472-13481.	1.1	15
83	An XAFS Analysis of Strontium at the Hydrous Ferric Oxide Surface. Journal of Colloid and Interface Science, 1998, 199, 44-52.	5.0	72
84	Comparison of K- and L ₃ -edges of ClO ₃ ²⁻ : Evidence for mixed electronic and multiple scattering effects. Physica B: Condensed Matter, 1995, 208-209, 611-613.	1.3	1
85	Influence of double-electron transitions on the EXAFSLedges of rare-earth systems. Physical Review B, 1994, 49, 11652-11661.	1.1	58
86	Relative cross sections for bound-state double-electronL _N 4,5-edge transitions. Physical Review B, 1994, 49, 5869-5875.	1.1	26
87	Relativistic effects in the x-ray-absorption fine structure. Physical Review B, 1994, 49, 12578-12589.	1.1	16
88	Iron site geometry in orthopyroxene: Multiple scattering calculations and XANES study. Physics and Chemistry of Minerals, 1994, 21, 299.	0.3	19
89	KLedges in x-ray-absorption spectra of third-period atoms: Si, P, S, and Cl. Physical Review A, 1993, 48, 1328-1338.	1.0	37
90	Double-electron excitation channels at theLedges of atomic Hg. Physical Review A, 1993, 48, 2098-2101.	1.0	38

#	ARTICLE	IF	CITATIONS
91	Relative Cross-Sections for Bound State Double-Electron LN-edge Transitions. Japanese Journal of Applied Physics, 1993, 32, 67.	0.8	1
92	On the Amplitudes of EXAFS Spectra at the L Edges. Japanese Journal of Applied Physics, 1993, 32, 107.	0.8	15
93	Multielectron Excitations at the L Absorption Edge of Rare Earths. Japanese Journal of Applied Physics, 1993, 32, 61.	0.8	8
94	General multiple-scattering scheme for the computation and interpretation of x-ray-absorption fine structure in atomic clusters with applications to SF ₆ , GeCl ₄ , and Br ₂ molecules. Physical Review B, 1992, 46, 5997-6019.	1.1	217
95	Ab-initio modelling of x-ray absorption spectra. Solid State Communications, 1991, 78, 265-268.	0.9	121
96	Polarized experimental and theoretical K-edge x-ray absorption studies of SO ₄ ²⁻ , ClO ₃ ⁻ , S ₂ O ₃ ²⁻ , and S ₂ O ₆ ²⁻ . Physical Review B, 1989, 39, 6305-6315.	1.1	49
97	A study of the electronic structure of S ₂ O ₆ ²⁻ - polarized K-edge X-ray absorption spectroscopy. Physica B: Condensed Matter, 1989, 158, 398-399.	1.3	1
98	Ab initio EXAFS and multiple scattering analysis of SF ₆ . Physica B: Condensed Matter, 1989, 158, 425-427.	1.3	17
99	A large reservoir of sulfate and sulfonate residues within plasma cells from ascidia ceratodes, revealed by x-ray absorption near-edge structure spectroscopy. Biochemistry, 1987, 26, 4975-4979.	1.2	97