

Alan V Chadwick

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5499645/publications.pdf>

Version: 2024-02-01

181
papers

9,047
citations

53660

45
h-index

45213

90
g-index

188
all docs

188
docs citations

188
times ranked

10511
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge-compensation in 3d-transition-metal-oxide intercalation cathodes through the generation of localized electron holes on oxygen. <i>Nature Chemistry</i> , 2016, 8, 684-691.	6.6	898
2	Definitions of terms relating to the structure and processing of sols, gels, networks, and inorganic-organic hybrid materials (IUPAC Recommendations 2007). <i>Pure and Applied Chemistry</i> , 2007, 79, 1801-1829.	0.9	643
3	Oxygen redox chemistry without excess alkali-metal ions in $\text{Na}_{2/3}[\text{Mg}_{0.28}\text{Mn}_{0.72}]\text{O}_2$. <i>Nature Chemistry</i> , 2018, 10, 288-295.	6.6	414
4	Ordered Mesoporous Fe_2O_3 with Crystalline Walls. <i>Journal of the American Chemical Society</i> , 2006, 128, 5468-5474.	6.6	380
5	Synthesis of Ordered Mesoporous Fe_3O_4 and $\gamma\text{-Fe}_2\text{O}_3$ with Crystalline Walls Using Post-Template Reduction/Oxidation. <i>Journal of the American Chemical Society</i> , 2006, 128, 12905-12909.	6.6	306
6	Titania and silver "titania composite films on glass" potent antimicrobial coatings. <i>Journal of Materials Chemistry</i> , 2007, 17, 95-104.	6.7	304
7	EXAFS Study of Yttria-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 1986, 69, 272-277.	1.9	286
8	Synthesis of Ordered Mesoporous NiO with Crystalline Walls and a Bimodal Pore Size Distribution. <i>Journal of the American Chemical Society</i> , 2008, 130, 5262-5266.	6.6	281
9	Anion Redox Chemistry in the Cobalt Free 3d Transition Metal Oxide Intercalation Electrode $\text{Li}[\text{Li}_{0.2}\text{Ni}_{0.2}\text{Mn}_{0.6}]\text{O}_2$. <i>Journal of the American Chemical Society</i> , 2016, 138, 11211-11218.	6.6	271
10	The Oxygen Vacancy in Crystal Phases of WO_3 . <i>Journal of Physical Chemistry B</i> , 2005, 109, 3146-3156.	1.2	200
11	Non-cooperative Jahn-Teller effect in LiNiO_2 : An EXAFS study. <i>Solid State Communications</i> , 1995, 94, 123-127.	0.9	196
12	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. <i>Chemistry of Materials</i> , 2019, 31, 3293-3300.	3.2	147
13	A structural basis for ionic diffusion in oxide glasses. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1991, 64, 1059-1072.	0.8	137
14	Direct observations of the dopant environment in fluorites using EXAFS. <i>Nature</i> , 1984, 312, 601-604.	13.7	132
15	A ^{27}Al MAS NMR study of a "gel produced alumina: Identification of the NMR parameters of the $\gamma\text{-Al}_2\text{O}_3$ transition alumina phase. <i>Solid State Nuclear Magnetic Resonance</i> , 2007, 31, 169-173.	1.5	131
16	In Situ Structural Changes upon Electrochemical Lithium Insertion in Nanosized Anatase TiO_2 . <i>Journal of Physical Chemistry C</i> , 2010, 114, 1372-1378.	1.5	131
17	Electron donor-acceptor interactions and surface semiconductivity in molecular crystals as a function of ambient gas. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1980, 76, 2194.	1.0	117
18	Phosphate Ion Functionalization of Perovskite Surfaces for Enhanced Oxygen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3466-3472.	2.1	109

#	ARTICLE	IF	CITATIONS
19	Kinetic factors in the response of organometallic semiconductor gas sensors. <i>Sensors and Actuators</i> , 1989, 16, 379-392.	1.8	108
20	Formation and Oxidation of Nanosized Metal Particles by Electrochemical Reaction of Li and Na with NiCo ₂ O ₄ : X-ray Absorption Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4636-4642.	1.5	103
21	High-temperature transport in fluorites. <i>Solid State Ionics</i> , 1983, 8, 209-220.	1.3	99
22	Solid-State NMR and X-ray Studies of the Structural Evolution of Nanocrystalline Zirconia. <i>Chemistry of Materials</i> , 2001, 13, 1219-1229.	3.2	96
23	Cobalt Oxalate Nanoribbons as Negative-Electrode Material for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2009, 21, 1834-1840.	3.2	96
24	A Combined EXAFS and Diffraction Study of Pure and Doped Nanocrystalline Tin Oxide. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9901-9908.	1.2	81
25	Cation insertion to break the activity/stability relationship for highly active oxygen evolution reaction catalyst. <i>Nature Communications</i> , 2020, 11, 1378.	5.8	79
26	The effects of crystallite growth and dopant migration on the carbon monoxide sensing characteristics of nanocrystalline tin oxide based sensor materials. <i>Journal of Materials Chemistry</i> , 1998, 8, 2065-2071.	6.7	77
27	The electrical conductivity of PbF ₂ and SrCl ₂ crystals at high temperatures. <i>Journal of Physics C: Solid State Physics</i> , 1978, 11, L637-L641.	1.5	76
28	Oxygen Speciation in Nanophase MgO from Solid-State ¹⁷ O NMR. <i>Chemistry of Materials</i> , 1998, 10, 864-870.	3.2	76
29	Revealing pH-Dependent Activities and Surface Instabilities for Ni-Based Electrocatalysts during the Oxygen Evolution Reaction. <i>ACS Energy Letters</i> , 2018, 3, 2884-2890.	8.8	74
30	An EXAFS Study of Nanocrystalline Yttrium Stabilized Cubic Zirconia Films and Pure Zirconia Powders. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9597-9606.	1.2	73
31	Water sorption in resin-modified glass-ionomer cements: An in vitro comparison with other materials. <i>Biomaterials</i> , 1998, 19, 545-550.	5.7	71
32	Nano-structured rhodium doped SrTiO ₃ Visible light activated photocatalyst for water decontamination. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 547-555.	10.8	65
33	Improving the cyclability of sodium-ion cathodes by selection of electrolyte solvent. <i>Journal of Power Sources</i> , 2012, 197, 314-318.	4.0	64
34	Electrochemical recycling of lead from hybrid organic-inorganic perovskites using deep eutectic solvents. <i>Green Chemistry</i> , 2016, 18, 2946-2955.	4.6	62
35	Sulfur and iron speciation in recently recovered timbers of the Mary Rose revealed via X-ray absorption spectroscopy. <i>Journal of Archaeological Science</i> , 2008, 35, 1317-1328.	1.2	61
36	Platinum incorporation into titanate perovskites to deliver emergent active and stable platinum nanoparticles. <i>Nature Chemistry</i> , 2021, 13, 677-682.	6.6	61

#	ARTICLE	IF	CITATIONS
37	The structure of LaF ₃ – a single-crystal neutron diffraction study at room temperature. Acta Crystallographica Section B: Structural Science, 1983, 39, 687-691.	1.8	57
38	Solid progress in ion conduction. Nature, 2000, 408, 925-926.	13.7	56
39	Point defect parameters for $\hat{1}^2$ -PbF ₂ from a computer analysis of measurements of ionic conductivity. Journal of Physics and Chemistry of Solids, 1984, 45, 23-31.	1.9	54
40	Is Geometric Frustration-Induced Disorder a Recipe for High Ionic Conductivity?. Journal of the American Chemical Society, 2017, 139, 5842-5848.	6.6	53
41	Oxygen Redox Activity through a Reductive Coupling Mechanism in the P3-Type Nickel-Doped Sodium Manganese Oxide. ACS Applied Energy Materials, 2020, 3, 184-191.	2.5	53
42	Nanosized high voltage cathode material LiMg _{0.05} Ni _{0.45} Mn _{1.5} O ₄ : Structural, electrochemical and in situ investigation. Journal of Power Sources, 2009, 189, 179-184.	4.0	52
43	The defect structure of anion excess CaF ₂ . Journal of Solid State Chemistry, 1983, 48, 65-76.	1.4	51
44	EXAFS Study of Dopant Segregation (Zn, Nb) in Nanocrystalline Anatase (TiO ₂). Chemistry of Materials, 2003, 15, 4996-5002.	3.2	51
45	Structure and Chemical Bonding in Zr-Doped Anatase TiO ₂ Nanocrystals. Journal of Physical Chemistry C, 2008, 112, 43-47.	1.5	48
46	A study of stability of plasticized PEO electrolytes. Solid State Ionics, 2002, 146, 143-150.	1.3	47
47	Effects of oxygen, nitrogen dioxide and trifluoroborane on photoconductivity of perylene and phthalocyanine single crystals. Journal of the Chemical Society Faraday Transactions I, 1981, 77, 73.	1.0	43
48	An XAS study of the defect structure of Ti-doped $\hat{1}^{\pm}$ -Cr ₂ O ₃ . Solid State Ionics, 2006, 177, 2939-2944.	1.3	43
49	Electrical conductivity, differential scanning calorimetry and nuclear magnetic resonance studies of amorphous poly(ethylene oxide) complexed with sodium salts. Polymer, 1989, 30, 1123-1126.	1.8	42
50	Cation dopant sites in the CaZrO ₃ proton conductor: a combined EXAFS and computer simulation study. Solid State Ionics, 2000, 130, 115-122.	1.3	41
51	Examination of the mixed-alkali effect in (Li,Na) disilicate glasses by nuclear magnetic resonance and conductivity measurements. Solid State Nuclear Magnetic Resonance, 1995, 5, 133-143.	1.5	39
52	Structure and dynamics in nanoionic materials. Solid State Ionics, 2006, 177, 3001-3008.	1.3	38
53	Electrochromic performances of nonstoichiometric NiO thin films. Thin Solid Films, 2014, 553, 63-66.	0.8	38
54	Self-diffusion in a series of plastic organic solids studied by NMR. Journal of Physics and Chemistry of Solids, 1973, 34, 1713-1726.	1.9	36

#	ARTICLE	IF	CITATIONS
55	Multinuclear MAS NMR Investigation of Sol-Gel and Ball-Milled Nanocrystalline Ga ₂ O ₃ . Applied Magnetic Resonance, 2007, 32, 527-546.	0.6	36
56	A comparison of the extended x-ray absorption fine structure of nanocrystalline ZrO ₂ prepared by high-energy ball milling and other methods. Journal of Physics Condensed Matter, 2003, 15, 431-440.	0.7	35
57	Defects and protons in the CaZrO ₃ perovskite and Ba ₂ In ₂ O ₅ brownmillerite: computer modelling and EXAFS studies. Solid State Ionics, 2001, 145, 333-338.	1.3	34
58	Applications of Organic Solids to Chemical Sensing. Molecular Crystals and Liquid Crystals, 1986, 134, 137-153.	0.9	33
59	Conductivity and NMR study of ionic mobility in lithium oxide. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 1239.	1.7	33
60	Nanoparticle de-acidification of the Mary Rose. Materials Today, 2011, 14, 354-358.	8.3	31
61	In-Depth Analysis of the Conversion Mechanism of TiSnSb vs Li by Operando Triple-Edge X-ray Absorption Spectroscopy: a Chemometric Approach. Chemistry of Materials, 2017, 29, 10446-10454.	3.2	31
62	Single-crystal metal oxide gas sensors. Sensors and Actuators B: Chemical, 1991, 4, 467-472.	4.0	29
63	Nanocrystalline metal oxide gas sensors. Sensors and Actuators B: Chemical, 1994, 18, 99-102.	4.0	29
64	Chemical and Structural Influences on Effects of Adsorbed Gases on Semiconductivity of Organic Films. Molecular Crystals and Liquid Crystals, 1983, 93, 315-325.	0.9	28
65	Cluster and periodic ab initio calculations on the adsorption of CO ₂ on the SnO ₂ (110) surface. Surface Science, 2001, 478, 25-34.	0.8	27
66	Local Atomic and Electronic Structure in Nanocrystalline Sn-Doped Anatase TiO ₂ . ChemPhysChem, 2006, 7, 2377-2383.	1.0	27
67	Self-Diffusion in Solid Krypton. Physical Review B, 1970, 1, 2748-2753.	1.1	26
68	The atomic and electronic structure of cerium substitutional defects in Nd _{2-x} Ce _x CuO ₄ . An XAS study. Physica C: Superconductivity and Its Applications, 1995, 253, 147-155.	0.6	26
69	The anion disorder in the perovskite fluoride KCaF ₃ . Solid State Ionics, 2005, 176, 1571-1575.	1.3	26
70	Defect structure of doped CaF ₂ at high temperatures. Physical Review B, 1989, 39, 1897-1907.	1.1	25
71	A microprocessor-controlled nitrogen dioxide sensing system. Sensors and Actuators B: Chemical, 1991, 4, 499-504.	4.0	25
72	X-ray Absorption Spectroscopic Study of LiCoO ₂ as the Negative Electrode of Lithium-Ion Batteries. ChemPhysChem, 2006, 7, 1086-1091.	1.0	25

#	ARTICLE	IF	CITATIONS
73	The Effects of Mary Rose Conservation Treatment on Iron Oxidation Processes and Microbial Communities Contributing to Acid Production in Marine Archaeological Timbers. PLoS ONE, 2014, 9, e84169.	1.1	25
74	Nanostructured Ceramics: Ionic Transport and Electrochemical Activity. Zeitschrift Fur Physikalische Chemie, 2017, 231, 1361-1405.	1.4	25
75	Electrical properties of the fast-ion conductor lanthanum fluoride. Journal of Physics C: Solid State Physics, 1982, 15, 7215-7228.	1.5	24
76	Structural studies of silica- and alumina-pinned nanocrystalline SnO ₂ . Nanotechnology, 2005, 16, 1836-1843.	1.3	23
77	Comparison of a calculated and measured XANES spectrum of $\hat{\Gamma}_2$ -Fe ₂ O ₃ . Physical Chemistry Chemical Physics, 2011, 13, 12826.	1.3	23
78	In situ Fe K-edge X-ray absorption spectroscopy study during cycling of Li ₂ FeSiO ₄ and Li _{2.2} Fe _{0.9} SiO ₄ Li ion battery materials. Journal of Materials Chemistry A, 2015, 3, 7314-7322.	5.2	23
79	Lithium recovery from hydraulic fracturing flowback and produced water using a selective ion exchange sorbent. Chemical Engineering Journal, 2021, 426, 130713.	6.6	23
80	Structural and dynamical studies of $\hat{\Gamma}_2$ -Bi ₂ O ₃ oxide ion conductors. Journal of Solid State Chemistry, 1987, 69, 230-239.	1.4	22
81	Extended X-ray absorption fine structure studies of the role of chromium in leather tanning. Polyhedron, 2001, 20, 461-466.	1.0	22
82	The Synthesis and Characterisation of Nanocrystalline Lithium Niobate. Radiation Effects and Defects in Solids, 2003, 158, 197-201.	0.4	22
83	The interdependence of defects, electronic structure and surface chemistry. Dalton Transactions, 2004, , 3076.	1.6	22
84	Characterization of gas-sensitive lead phthalocyanine film surfaces by X-ray photoelectron spectroscopy. Sensors and Actuators B: Chemical, 1990, 2, 133-141.	4.0	21
85	Electrical conductivity measurements of ionic solids. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 64, 983-998.	0.8	21
86	Thermoluminescence of calcium fluoride doped with neodymium. Journal of Physics Condensed Matter, 1994, 6, 9255-9266.	0.7	21
87	Point defect activation volumes in the alkaline-earth fluorides. Journal of Physics C: Solid State Physics, 1981, 14, 2451-2464.	1.5	20
88	EXAFS analysis of the structural evolution of gel-formed La ₂ O ₃ . Journal of Materials Chemistry, 1997, 7, 285-291.	6.7	20
89	EXAFS studies of the cation sites in BIMEVOX fast-ion conductors. Solid State Ionics, 1999, 119, 79-84.	1.3	20
90	Lithium ion transport and microstructure in nanocrystalline lithium niobate. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 302-305.	0.8	20

#	ARTICLE	IF	CITATIONS
91	EXAFS study of nanocrystalline CeO ₂ samples prepared by sol-gel and ball-milling routes. Journal of Alloys and Compounds, 2009, 488, 1-4.	2.8	20
92	Keeping it small—restricting the growth of nanocrystals. Journal of Physics Condensed Matter, 2006, 18, L163-L170.	0.7	19
93	Strontium carbonate nanoparticles for the surface treatment of problematic sulfur and iron in waterlogged archaeological wood. Journal of Cultural Heritage, 2016, 18, 306-312.	1.5	19
94	Dielectric relaxation studies of alkali-metal-doped calcium fluoride. Journal of Physics C: Solid State Physics, 1980, 13, 3457-3466.	1.5	18
95	Laser induced emission spectra of Pr ³⁺ in CaF ₂ at low temperatures. Journal of Luminescence, 1983, 28, 177-190.	1.5	18
96	Nuclear magnetic resonance methods of studying mass transport in solids. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 1157.	1.7	18
97	Relationship between structure and deposition conditions for CuInO ₂ thin films. Applied Surface Science, 2007, 254, 1343-1346.	3.1	18
98	Radiotracer self-diffusion measurements in poly(ethylene oxide) and poly(propylene oxide) electrolytes. British Polymer Journal, 1988, 20, 207-211.	0.7	17
99	EXAFS evidence of interstitial oxygen defects in Nd ₂ CuO ₄ +f. Physica C: Superconductivity and Its Applications, 1995, 246, 345-350.	0.6	17
100	An EXAFS study of the Ni dopant site in BaLiF. Journal of Physics Condensed Matter, 1996, 8, 10679-10685.	0.7	17
101	Structural studies of nanocrystalline oxides. Solid State Ionics, 2006, 177, 2519-2526.	1.3	17
102	Vacancy-Enhanced Oxygen Redox Reversibility in P3-Type Magnesium-Doped Sodium Manganese Oxide Na _{0.67} Mg _{0.2} Mn _{0.8} O ₂ . ACS Applied Energy Materials, 2020, 3, 10423-10434.	2.5	17
103	Dielectric relaxation, ionic conductivity and activation volumes in cubic lead fluoride doped with alkali-metal cations. Journal of Physics C: Solid State Physics, 1984, 17, 4399-4411.	1.5	16
104	N ₂ O Temperature-Programmed Oxidation and EXAFS Studies on the Dispersion of Copper in Ceria-Supported Nanocatalysts. Chemistry of Materials, 2005, 17, 3935-3943.	3.2	16
105	A ²⁷ Al, ²⁹ Si, ²⁵ Mg and ¹⁷ O NMR investigation of alumina and silica Zener pinned, sol-gel prepared nanocrystalline ZrO ₂ and MgO. Faraday Discussions, 2007, 134, 83-102.	1.6	16
106	An EXAFS study on the photo-assisted growth of silver nanoparticles on titanium dioxide thin-films and the identification of their photochromic states. Physical Chemistry Chemical Physics, 2013, 15, 8254.	1.3	16
107	Anomalous Pressure Dependence of Dipolar Relaxation Times in Rare-Earth-Doped Lead Fluoride. Physical Review Letters, 1983, 51, 1892-1895.	2.9	15
108	Synthesis and coordination chemistry of 1-phenyl-1-phospha-4,7-dithiacyclononane. Inorganica Chimica Acta, 1999, 294, 170-178.	1.2	15

#	ARTICLE	IF	CITATIONS
109	Nanocrystalline Fe _{1-x} CoxSn ₂ solid solutions prepared by reduction of salts in tetraethylene glycol. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3074-3079.	2.8	15
110	Application of Microfocus X-Ray Beams from Synchrotrons in Heritage Conservation. <i>International Journal of Architectural Heritage</i> , 2012, 6, 228-258.	1.7	15
111	An XAS Study of the Local Environment of Ions in Soggy Sand Electrolytes. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, A564.	2.2	14
112	The applications of X-ray absorption spectroscopy in the study of nanocrystalline materials and electrochemical systems. <i>Comptes Rendus Chimie</i> , 2008, 11, 948-963.	0.2	14
113	Synthesis, Short-Range Structure, and Electrochemical Properties of New Phases in the Li-Mn-Na-O System. <i>Inorganic Chemistry</i> , 2009, 48, 5141-5153.	1.9	14
114	Activation of anion redox in P3 structure cobalt-doped sodium manganese oxide via introduction of transition metal vacancies. <i>Journal of Power Sources</i> , 2021, 481, 229010.	4.0	14
115	Ionic nanoparticles in heritage conservation; treatments for the Mary Rose timbers. <i>Solid State Ionics</i> , 2012, 225, 742-746.	1.3	13
116	The application of X-ray absorption spectroscopy in archaeological conservation: Example of an artefact from Henry VIII warship, the Mary Rose. <i>Journal of Non-Crystalline Solids</i> , 2016, 451, 49-55.	1.5	13
117	On the substitution site of Cr and Fe in LiNbO ₃ : an exafs study. <i>Radiation Effects and Defects in Solids</i> , 1995, 134, 219-222.	0.4	12
118	Self-diffusion of ions in an ethylene oxide oligomer using the gelsectioning technique. <i>British Polymer Journal</i> , 1988, 20, 213-217.	0.7	11
119	Nanocrystalline nickel doped zinc oxide gas sensors. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 97, 575-578.	0.6	11
120	Nanocrystalline copper doped zinc oxide gas sensors. <i>Radiation Effects and Defects in Solids</i> , 1995, 137, 51-55.	0.4	11
121	X-ray absorption studies of the structure of nanocrystalline oxides. <i>Solid State Ionics</i> , 2006, 177, 2481-2485.	1.3	11
122	Radiotracer studies of self-diffusion in the plastic solids norbornylene and norbornane. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1978, 74, 2562.	1.0	10
123	Carbon dioxide sensing properties of bismuth cobaltite. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 380-387.	4.0	10
124	A radio-tracer study of self-diffusion in the smectic phases iso-butyl 4-(4-phenylbenzylideneamino) cinnamate [IBPBAC]. <i>Molecular Physics</i> , 1980, 39, 637-643.	0.8	9
125	Dielectric relaxation studies of alkali-metal-doped strontium and barium fluoride. <i>Journal of Physics C: Solid State Physics</i> , 1980, 13, 6525-6536.	1.5	9
126	Kinetics of Photocurrent Rise and Decay in Molecular Crystalline Materials. <i>Molecular Crystals and Liquid Crystals</i> , 1986, 134, 121-135.	0.9	9

#	ARTICLE	IF	CITATIONS
127	Nuclear magnetic resonance techniques for the study of mechanisms of diffusion in solids. International Reviews in Physical Chemistry, 1988, 7, 251-280.	0.9	9
128	Photocurrent kinetics in metal phthalocyanine crystals, films and pellets. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 1979.	1.0	9
129	Characterisation of Nanocrystalline Magnesium Oxide by X-Ray Absorption Spectroscopy. ChemPhysChem, 2007, 8, 882-889.	1.0	9
130	An experimental and theoretical study of crystals of calcium fluoride doped with alkali metal cations. Journal of Solid State Chemistry, 1980, 33, 159-167.	1.4	8
131	Thermoelectric power studies of bismuth oxide and mixed oxides based on bismuth oxide. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 68, 787-797.	0.8	8
132	EXAFS study of confined nanocrystalline oxides. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 661-664.	0.8	8
133	EXAFS Study of Dopant Ions with Different Charges in Nanocrystalline Anatase: Evidence for Space-Charge Segregation of Acceptor Ions. ChemPhysChem, 2009, 10, 1238-1246.	1.0	8
134	Alkaline-Earth Rhodium Hydroxides: Synthesis, Structures, and Thermal Decomposition to Complex Oxides. Inorganic Chemistry, 2018, 57, 11217-11224.	1.9	8
135	Structures of mixed manganese ruthenium oxides ($Mn_{1-x}Ru_x$)O ₂ crystallised under acidic hydrothermal conditions. Dalton Transactions, 2020, 49, 2661-2670.	1.6	8
136	A New Oxygen Sensor Based on the Thermoelectric Power of Solid Solutions of Nb ₂ O ₅ and Bi ₂ O ₃ . Angewandte Chemie International Edition in English, 1989, 28, 75-76.	4.4	7
137	The Preparation of Nanocrystalline Oxides and Their Characterisation using Synchrotron Techniques. Materials Science Forum, 1997, 239-241, 683-686.	0.3	7
138	Characterization of Nanocrystalline Oxides by Exafs Spectroscopy. , 2002, , 133-164.		7
139	Restricting the High-Temperature Growth of Nanocrystalline Tin Oxide. Radiation Effects and Defects in Solids, 2003, 158, 73-76.	0.4	7
140	The Stabilization of Metal Oxide Nanocrystals by the Addition of Alumina. Radiation Effects and Defects in Solids, 2003, 158, 209-213.	0.4	7
141	A Structural Study of Delafossite-type CuInO ₂ Thin Films. Journal of Physics: Conference Series, 2010, 249, 012045.	0.3	7
142	The Formation of Chemical Degraders during the Conservation of a Wooden Tudor Shipwreck. ChemPlusChem, 2020, 85, 1632-1638.	1.3	7
143	The relation between bound and free ion motion in some fluorides. Solid State Ionics, 1981, 5, 585-588.	1.3	6
144	Stoichiometry and structure of copper-doped LiNbO ₃ and LiTaO ₃ . Journal of Materials Chemistry, 1995, 5, 1043.	6.7	6

#	ARTICLE	IF	CITATIONS
145	Structural Characterization of SiO_2 and Al_2O_3 Zener-Pinned Nanocrystalline TiO_2 by NMR, XRD and Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13740-13746.	1.5	6
146	Enhanced Cycling Stability in the Anion Redox Material $\text{P}_3\text{-Type Zn-Substituted Sodium Manganese Oxide}$. <i>ChemElectroChem</i> , 2022, 9, .	1.7	6
147	Ionic conductivity of crystalline potassium thiocyanate. <i>Journal of Physics C: Solid State Physics</i> , 1971, 4, 584-590.	1.5	5
148	Anomalous high resolution N.M.R. line-widths in plastic crystals. <i>Molecular Physics</i> , 1976, 32, 1773-1776.	0.8	5
149	Ionic environment and transport in polymer electrolytes. <i>Solid State Ionics</i> , 1994, 72, 147-151.	1.3	5
150	Investigation of the superionic behaviour of BaF_2 (x \approx 3 mol% LaF_3) by raman and brillouin scattering and molecular dynamics simulations. <i>Radiation Effects and Defects in Solids</i> , 2002, 157, 783-788.	0.4	5
151	Small, but Perfectly Formed: The Microstructure of Nanocrystalline Oxides. <i>Radiation Effects and Defects in Solids</i> , 2003, 158, 21-30.	0.4	5
152	Spectroscopic and computer modelling studies of mixed-cation superionic fluorites. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6575-6586.	0.7	5
153	Ion-Conducting Nanocrystals: Theory, Methods, and Applications. , 0, , 79-132.		5
154	The Application of Ionic Nanoparticles in the Conservation of Archaeological Wood. <i>Macromolecular Symposia</i> , 2014, 337, 74-79.	0.4	5
155	Thermoelectric Power Studies of Oxides with the Fluorite Structure. <i>Materials Science Forum</i> , 1986, 7, 317-0.	0.3	4
156	Evaluation of structural and electrochemical properties of the MnSb-Li system as anode for Li-ion batteries. <i>Hyperfine Interactions</i> , 2006, 167, 773-778.	0.2	4
157	Synthetically Produced Isocubanite as an Anode Material for Sodium-Ion Batteries: Understanding the Reaction Mechanism During Sodium Uptake and Release. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58552-58565.	4.0	4
158	The effect of carbon monoxide and methane on the electrical conductivity of TiO_2 single crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1991, 64, 999-1010.	0.8	3
159	Tuning Antisite Defect Density in Perovskite- BaLiF_3 via Cycling between Ball Milling and Heating. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5121-5124.	2.1	3
160	Exploring the Effects of Synthetic and Postsynthetic Grinding on the Properties of the Spin Crossover Material $[\text{Fe}(\text{atrz})_3](\text{BF}_4)_2$ (atrz = 4-Amino-4H-1,2,4-Triazole). <i>Magnetochemistry</i> , 2020, 6, 44.	1.0	3
161	Lithiation of V_2O_3 (SO_4) $_2$ "a flexible insertion host. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19502-19512.	5.2	3
162	Voltages produced by Oxygen in Platinum-Sodium Chloride Crystal Cells. <i>Nature</i> , 1967, 213, 1226-1227.	13.7	2

#	ARTICLE	IF	CITATIONS
163	Synthesis of labelled compounds for organic solid state self-diffusion studies. Journal of Labelled Compounds, 1975, 11, 249-255.	0.3	2
164	An exafs study of short-range order in non-stoichiometric U _i -La _i -O systems. Journal of the Less Common Metals, 1989, 149, 115-120.	0.9	2
165	Laser excited luminescence of CaF ₂ :Ho. The role of phonons. Journal of Physics Condensed Matter, 1991, 3, 5407-5414.	0.7	2
166	Diffusion in Fast-Ion Conductors: Unsolved Problems. Defect and Diffusion Forum, 1992, 83, 235-258.	0.4	2
167	Exafs studies of disorder in CdF ₂ -PbF ₂ systems. Radiation Effects and Defects in Solids, 1995, 137, 159-163.	0.4	2
168	The Characterisation of Solids by Nuclear Magnetic Resonance and X-Ray Absorption Spectroscopy. Molecular Simulation, 1998, 21, 105-126.	0.9	2
169	Computational studies of the structural and transport properties of the cellulose-water-amine oxide system. Physical Chemistry Chemical Physics, 2002, 4, 3407-3414.	1.3	2
170	Low X-Ray Energy Fluorescence Gas Electron Multiplier (GEM) for XAS Studies. IEEE Transactions on Nuclear Science, 2007, 54, 2637-2641.	1.2	2
171	Light scattering and computer simulation studies of superionic pure and La-doped BaF ₂ . Chemical Physics, 2016, 467, 6-12.	0.9	2
172	A combined computer simulation and EXAFS study of dopant clustering in lanthanum oxide. Radiation Effects and Defects in Solids, 1995, 134, 91-94.	0.4	1
173	Exafs studies of LiYF ₄ -LiREF ₄ solid solutions. Radiation Effects and Defects in Solids, 2002, 157, 1173-1176.	0.4	1
174	EXAFS studies of lithium manganese oxides. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 657-660.	0.8	1
175	Ionic Transport and Structure in Doped Plastically Crystalline Solids. Zeitschrift Fur Physikalische Chemie, 2012, 226, 409-420.	1.4	1
176	Comments on the discrepancies between self-diffusion coefficients of the rare-gas crystals. Chemical Physics Letters, 1976, 38, 88-91.	1.2	0
177	Characterization of the defect sites in SnO ₂ . Radiation Effects and Defects in Solids, 1991, 119-121, 141-146.	0.4	0
178	The Interdependence of Defects, Electronic Structure and Surface Chemistry. ChemInform, 2005, 36, no.	0.1	0
179	Structural characterisation of the silica and alumina Zener pinning phases in nanocrystalline CeO ₂ by ²⁹ Si and ²⁷ Al nuclear magnetic resonance. Journal of Nanoparticle Research, 2008, 10, 1263-1270.	0.8	0
180	X-ray Absorption Studies of Nanocomposites. Kluwer International Series in Electronic Materials: Science and Technology, 2008, , 205-225.	0.3	0

#	ARTICLE	IF	CITATIONS
181	A tribute to the scientific career of Neville Greaves: the Daresbury years. Journal of Physics Condensed Matter, 2021, 33, 320401.	0.7	0