

Alan V Chadwick

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177
papers

7,295
citations

40
h-index

80
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188
ext. papers

8,121
ext. citations

6.1
avg, IF

5.54
L-index

#	Paper	IF	Citations
177	Charge-compensation in 3d-transition-metal-oxide intercalation cathodes through the generation of localized electron holes on oxygen. <i>Nature Chemistry</i> , 2016 , 8, 684-91	17.6	667
176	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	2.1	383
175	Ordered mesoporous Fe ₂ O ₃ with crystalline walls. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5468-74	16.4	360
174	Synthesis of ordered mesoporous Fe ₃ O ₄ and gamma-Fe ₂ O ₃ with crystalline walls using post-template reduction/oxidation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12905-9	16.4	293
173	Titania and silver-titania composite films on glass-potent antimicrobial coatings. <i>Journal of Materials Chemistry</i> , 2007 , 17, 95-104		286
172	Oxygen redox chemistry without excess alkali-metal ions in Na[MgMn]O. <i>Nature Chemistry</i> , 2018 , 10, 288-295	17.6	281
171	Synthesis of ordered mesoporous NiO with crystalline walls and a bimodal pore size distribution. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5262-6	16.4	256
170	EXAFS Study of Yttria-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 1986 , 69, 272-277	3.8	241
169	Anion Redox Chemistry in the Cobalt Free 3d Transition Metal Oxide Intercalation Electrode Li[Li _{0.2} Ni _{0.2} Mn _{0.6}]O ₂ . <i>Journal of the American Chemical Society</i> , 2016 , 138, 11211-8	16.4	205
168	The oxygen vacancy in crystal phases of WO ₃ . <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3146-56	3.4	170
167	Non-cooperative Jahn-Teller effect in LiNiO ₂ : An EXAFS study. <i>Solid State Communications</i> , 1995 , 94, 123-127	1.6	155
166	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		122
165	In Situ Structural Changes upon Electrochemical Lithium Insertion in Nanosized Anatase TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1372-1378	3.8	120
164	Direct observations of the dopant environment in fluorites using EXAFS. <i>Nature</i> , 1984 , 312, 601-604	50.4	116
163	A (27)Al MAS NMR study of a sol-gel produced alumina: Identification of the NMR parameters of the theta-Al ₂ O ₃ transition alumina phase. <i>Solid State Nuclear Magnetic Resonance</i> , 2007 , 31, 169-73	3.1	112
162	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		105
161	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	2.8	94

160	Kinetic factors in the response of organometallic semiconductor gas sensors. <i>Sensors and Actuators</i> , 1989 , 16, 379-392		94
159	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. <i>Chemistry of Materials</i> , 2019 , 31, 3293-3300	3.3	90
158	High-temperature transport in fluorites. <i>Solid State Ionics</i> , 1983 , 8, 209-220	3.3	90
157	Cobalt Oxalate Nanoribbons as Negative-Electrode Material for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2009 , 21, 1834-1840	9.6	86
156	Solid-State NMR and X-ray Studies of the Structural Evolution of Nanocrystalline Zirconia. <i>Chemistry of Materials</i> , 2001 , 13, 1219-1229	9.6	85
155	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		74
154	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		70
153	Oxygen Speciation in Nanophase MgO from Solid-State ¹⁷ O NMR. <i>Chemistry of Materials</i> , 1998 , 10, 864-870	3.4	70
152	A Combined EXAFS and Diffraction Study of Pure and Doped Nanocrystalline Tin Oxide. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 9901-9908	3.4	66
151	Phosphate Ion Functionalization of Perovskite Surfaces for Enhanced Oxygen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3466-3472	6.4	64
150	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	3.4	60
149	Water sorption in resin-modified glass-ionomer cements: an in vitro comparison with other materials. <i>Biomaterials</i> , 1998 , 19, 545-50	15.6	59
148	Improving the cyclability of sodium-ion cathodes by selection of electrolyte solvent. <i>Journal of Power Sources</i> , 2012 , 197, 314-318	8.9	57
147	The structure of LaF ₃ [a single-crystal neutron diffraction study at room temperature. <i>Acta Crystallographica Section B: Structural Science</i> , 1983 , 39, 687-691		54
146	Nano-structured rhodium doped SrTiO ₃ visible light activated photocatalyst for water decontamination. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 547-555	21.8	53
145	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	2.9	51
144	Nanosized high voltage cathode material LiMg _{0.05} Ni _{0.45} Mn _{1.5} O ₄ : Structural, electrochemical and in situ investigation. <i>Journal of Power Sources</i> , 2009 , 189, 179-184	8.9	46
143	Point defect parameters for PbF ₂ from a computer analysis of measurements of ionic conductivity. <i>Journal of Physics and Chemistry of Solids</i> , 1984 , 45, 23-31	3.9	46

142	EXAFS Study of Dopant Segregation (Zn, Nb) in Nanocrystalline Anatase (TiO ₂). <i>Chemistry of Materials</i> , 2003 , 15, 4996-5002	9.6	45
141	The defect structure of anion excess CaF ₂ . <i>Journal of Solid State Chemistry</i> , 1983 , 48, 65-76	3.3	45
140	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	20.1	44
139	Cation insertion to break the activity/stability relationship for highly active oxygen evolution reaction catalyst. <i>Nature Communications</i> , 2020 , 11, 1378	17.4	43
138	Structure and Chemical Bonding in Zr-Doped Anatase TiO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 43-47	3.8	40
137	Is Geometric Frustration-Induced Disorder a Recipe for High Ionic Conductivity?. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5842-5848	16.4	38
136	An XAS study of the defect structure of Ti-doped BaCr ₂ O ₃ . <i>Solid State Ionics</i> , 2006 , 177, 2939-2944	3.3	38
135	A study of stability of plasticized PEO electrolytes. <i>Solid State Ionics</i> , 2002 , 146, 143-150	3.3	38
134	Effects of oxygen, nitrogen dioxide and trifluoroborane on photoconductivity of perylene and phthalocyanine single crystals. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1981 , 77, 73		37
133	Cation dopant sites in the CaZrO ₃ proton conductor: a combined EXAFS and computer simulation study. <i>Solid State Ionics</i> , 2000 , 130, 115-122	3.3	36
132	Examination of the mixed-alkali effect in (Li,Na) disilicate glasses by nuclear magnetic resonance and conductivity measurements. <i>Solid State Nuclear Magnetic Resonance</i> , 1995 , 5, 133-43	3.1	36
131	Electrochemical recycling of lead from hybrid organic/inorganic perovskites using deep eutectic solvents. <i>Green Chemistry</i> , 2016 , 18, 2946-2955	10	35
130	Electrochromic performances of nonstoichiometric NiO thin films. <i>Thin Solid Films</i> , 2014 , 553, 63-66	2.2	35
129	Structure and dynamics in nanoionic materials. <i>Solid State Ionics</i> , 2006 , 177, 3001-3008	3.3	35
128	Self-diffusion in a series of plastic organic solids studied by NMR. <i>Journal of Physics and Chemistry of Solids</i> , 1973 , 34, 1713-1726	3.9	33
127	Electrical conductivity, differential scanning calorimetry and nuclear magnetic resonance studies of amorphous poly(ethylene oxide) complexed with sodium salts. <i>Polymer</i> , 1989 , 30, 1123-1126	3.9	32
126	Multinuclear MAS NMR Investigation of Sol-Gel and Ball-Milled Nanocrystalline Ga ₂ O ₃ . <i>Applied Magnetic Resonance</i> , 2007 , 32, 527-546	0.8	31
125	A comparison of the extended x-ray absorption fine structure of nanocrystalline ZrO ₂ prepared by high-energy ball milling and other methods. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 431-440	1.8	29

124	Conductivity and NMR study of ionic mobility in lithium oxide. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990 , 86, 1239		29
123	In-Depth Analysis of the Conversion Mechanism of TiSnSb vs Li by Operando Triple-Edge X-ray Absorption Spectroscopy: a Chemometric Approach. <i>Chemistry of Materials</i> , 2017 , 29, 10446-10454	9.6	27
122	Defects and protons in the CaZrO ₃ perovskite and Ba ₂ In ₂ O ₅ brownmillerite: computer modelling and EXAFS studies. <i>Solid State Ionics</i> , 2001 , 145, 333-338	3.3	27
121	Applications of Organic Solids to Chemical Sensing. <i>Molecular Crystals and Liquid Crystals</i> , 1986 , 134, 137-153		27
120	Local atomic and electronic structure in nanocrystalline Sn-doped anatase TiO ₂ . <i>ChemPhysChem</i> , 2006 , 7, 2377-83	3.2	26
119	Oxygen Redox Activity through a Reductive Coupling Mechanism in the P3-Type Nickel-Doped Sodium Manganese Oxide. <i>ACS Applied Energy Materials</i> , 2020 , 3, 184-191	6.1	26
118	Cluster and periodic ab initio calculations on the adsorption of CO ₂ on the SnO ₂ (110) surface. <i>Surface Science</i> , 2001 , 478, 25-34	1.8	25
117	A microprocessor-controlled nitrogen dioxide sensing system. <i>Sensors and Actuators B: Chemical</i> , 1991 , 4, 499-504	8.5	25
116	Defect structure of doped CaF ₂ at high temperatures. <i>Physical Review B</i> , 1989 , 39, 1897-1907	3.3	25
115	Chemical and Structural Influences on Effects of Adsorbed Gases on Semiconductivity of Organic Films. <i>Molecular Crystals and Liquid Crystals</i> , 1983 , 93, 315-325		25
114	The atomic and electronic structure of cerium substitutional defects in Nd _{2-x} Ce _x CuO ₄ —An XAS study. <i>Physica C: Superconductivity and Its Applications</i> , 1995 , 253, 147-155	1.3	24
113	Single-crystal metal oxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , 1991 , 4, 467-472	8.5	24
112	Self-Diffusion in Solid Krypton. <i>Physical Review B</i> , 1970 , 1, 2748-2753	3.3	24
111	Nanoparticle de-acidification of the Mary Rose. <i>Materials Today</i> , 2011 , 14, 354-358	21.8	23
110	X-ray absorption spectroscopic study of LiCoO ₂ as the negative electrode of lithium-ion batteries. <i>ChemPhysChem</i> , 2006 , 7, 1086-91	3.2	23
109	Nanocrystalline metal oxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , 1994 , 18, 99-102	8.5	23
108	Comparison of a calculated and measured XANES spectrum of Fe ₂ O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12826-34	3.6	22
107	Electrical properties of the fast-ion conductor lanthanum fluoride. <i>Journal of Physics C: Solid State Physics</i> , 1982 , 15, 7215-7228		22

106	Structural studies of silica- and alumina-pinned nanocrystalline SnO ₂ . <i>Nanotechnology</i> , 2005 , 16, 1836-1843	3.4	21
105	Characterization of gas-sensitive lead phthalocyanine film surfaces by X-ray photoelectron spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 1990 , 2, 133-141	8.5	21
104	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. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7314-7322	13	19
103	The effects of Mary Rose conservation treatment on iron oxidation processes and microbial communities contributing to acid production in marine archaeological timbers. <i>PLoS ONE</i> , 2014 , 9, e84169	3.7	19
102	EXAFS analysis of the structural evolution of gel-formed La ₂ O ₃ . <i>Journal of Materials Chemistry</i> , 1997 , 7, 285-291		19
101	Electrical conductivity measurements of ionic solids. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1991 , 64, 983-998		19
100	Nanostructured Ceramics: Ionic Transport and Electrochemical Activity. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231,	3.1	18
99	EXAFS study of nanocrystalline CeO ₂ samples prepared by sol-gel and ball-milling routes. <i>Journal of Alloys and Compounds</i> , 2009 , 488, 1-4	5.7	18
98	Lithium ion transport and microstructure in nanocrystalline lithium niobate. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 302-305		18
97	Point defect activation volumes in the alkaline-earth fluorides. <i>Journal of Physics C: Solid State Physics</i> , 1981 , 14, 2451-2464		18
96	The Synthesis and Characterisation of Nanocrystalline Lithium Niobate. <i>Radiation Effects and Defects in Solids</i> , 2003 , 158, 197-201	0.9	17
95	The anion disorder in the perovskite fluoride KCaF ₃ . <i>Solid State Ionics</i> , 2005 , 176, 1571-1575	3.3	17
94	EXAFS evidence of interstitial oxygen defects in Nd ₂ CuO ₄ . <i>Physica C: Superconductivity and Its Applications</i> , 1995 , 246, 345-350	1.3	17
93	Structural and dynamical studies of Bi ₂ O ₃ oxide ion conductors. <i>Journal of Solid State Chemistry</i> , 1987 , 69, 230-239	3.3	17
92	Dielectric relaxation studies of alkali-metal-doped calcium fluoride. <i>Journal of Physics C: Solid State Physics</i> , 1980 , 13, 3457-3466		17
91	An EXAFS study of the Ni dopant site in BaLiF. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 10679-10685	1.8	16
90	Keeping it small: Restricting the growth of nanocrystals. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, L163-L170	1.8	16
89	EXAFS studies of the cation sites in BIMEVOX fast-ion conductors. <i>Solid State Ionics</i> , 1999 , 119, 79-84	3.3	16

88	Thermoluminescence of calcium fluoride doped with neodymium. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 9255-9266	1.8	16
87	Dielectric relaxation, ionic conductivity and activation volumes in cubic lead fluoride doped with alkali-metal cations. <i>Journal of Physics C: Solid State Physics</i> , 1984 , 17, 4399-4411		16
86	Platinum incorporation into titanate perovskites to deliver emergent active and stable platinum nanoparticles. <i>Nature Chemistry</i> , 2021 , 13, 677-682	17.6	16
85	An EXAFS study on the photo-assisted growth of silver nanoparticles on titanium dioxide thin-films and the identification of their photochromic states. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8254-8363	3.6	15
84	Relationship between structure and deposition conditions for CuInO ₂ thin films. <i>Applied Surface Science</i> , 2007 , 254, 1343-1346	6.7	15
83	The interdependence of defects, electronic structure and surface chemistry. <i>Dalton Transactions</i> , 2004 , 3076-84	4.3	15
82	Laser induced emission spectra of Pr ³⁺ in CaF ₂ at low temperatures. <i>Journal of Luminescence</i> , 1983 , 28, 177-190	3.8	15
81	Strontium carbonate nanoparticles for the surface treatment of problematic sulfur and iron in waterlogged archaeological wood. <i>Journal of Cultural Heritage</i> , 2016 , 18, 306-312	2.9	14
80	Application of Microfocus X-Ray Beams from Synchrotrons in Heritage Conservation. <i>International Journal of Architectural Heritage</i> , 2012 , 6, 228-258	2.1	14
79	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	5.7	14
78	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. <i>Faraday Discussions</i> , 2007 , 134, 83-102; discussion 103-18, 415-9	3.6	14
77	Structural studies of nanocrystalline oxides. <i>Solid State Ionics</i> , 2006 , 177, 2519-2526	3.3	14
76	Extended X-ray absorption fine structure studies of the role of chromium in leather tanning. <i>Polyhedron</i> , 2001 , 20, 461-466	2.7	14
75	Nuclear magnetic resonance methods of studying mass transport in solids. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990 , 86, 1157		14
74	An XAS Study of the Local Environment of Ions in Soggy Sand Electrolytes. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A564		13
73	Synthesis and coordination chemistry of 1-phenyl-1-phospha-4,7-dithiacyclononane. <i>Inorganica Chimica Acta</i> , 1999 , 294, 170-178	2.7	13
72	Anomalous Pressure Dependence of Dipolar Relaxation Times in Rare-Earth-Doped Lead Fluoride. <i>Physical Review Letters</i> , 1983 , 51, 1892-1895	7.4	13
71	Synthesis, short-range structure, and electrochemical properties of new phases in the Li-Mn-N-O system. <i>Inorganic Chemistry</i> , 2009 , 48, 5141-53	5.1	12

70	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	2.7	12
69	N ₂ O Temperature-Programmed Oxidation and EXAFS Studies on the Dispersion of Copper in Ceria-Supported Nanocatalysts. <i>Chemistry of Materials</i> , 2005 , 17, 3935-3943	9.6	12
68	Radiotracer self-diffusion measurements in poly(ethylene oxide) and poly(propylene oxide) electrolytes. <i>British Polymer Journal</i> , 1988 , 20, 207-211		12
67	Nanocrystalline nickel doped zinc oxide gas sensors. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995 , 97, 575-578	1.2	11
66	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	0.9	11
65	Ionic nanoparticles in heritage conservation; treatments for the Mary Rose timbers. <i>Solid State Ionics</i> , 2012 , 225, 742-746	3.3	10
64	X-ray absorption studies of the structure of nanocrystalline oxides. <i>Solid State Ionics</i> , 2006 , 177, 2481-2485	3.5	10
63	Nanocrystalline copper doped zinc oxide gas sensors. <i>Radiation Effects and Defects in Solids</i> , 1995 , 137, 51-55	0.9	10
62	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		10
61	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	3.9	9
60	Carbon dioxide sensing properties of bismuth cobaltite. <i>Sensors and Actuators B: Chemical</i> , 2011 , 157, 380-387	8.5	9
59	EXAFS study of confined nanocrystalline oxides. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 661-664		8
58	Self-diffusion of ions in an ethylene oxide oligomer using the gelsectioning technique. <i>British Polymer Journal</i> , 1988 , 20, 213-217		8
57	An experimental and theoretical study of crystals of calcium fluoride doped with alkali metal cations. <i>Journal of Solid State Chemistry</i> , 1980 , 33, 159-167	3.3	8
56	Dielectric relaxation studies of alkali-metal-doped strontium and barium fluoride. <i>Journal of Physics C: Solid State Physics</i> , 1980 , 13, 6525-6536		8
55	Vacancy-Enhanced Oxygen Redox Reversibility in P3-Type Magnesium-Doped Sodium Manganese Oxide Na _{0.67} Mg _{0.2} Mn _{0.8} O ₂ . <i>ACS Applied Energy Materials</i> , 2020 , 3, 10423-10434	6.1	8
54	Alkaline-Earth Rhodium Hydroxides: Synthesis, Structures, and Thermal Decomposition to Complex Oxides. <i>Inorganic Chemistry</i> , 2018 , 57, 11217-11224	5.1	7
53	EXAFS study of dopant ions with different charges in nanocrystalline anatase: evidence for space-charge segregation of acceptor ions. <i>ChemPhysChem</i> , 2009 , 10, 1238-46	3.2	7

52	Characterisation of nanocrystalline magnesium oxide by X-ray absorption spectroscopy. <i>ChemPhysChem</i> , 2007 , 8, 882-9	3.2	7
51	The Stabilization of Metal Oxide Nanocrystals by the Addition of Alumina. <i>Radiation Effects and Defects in Solids</i> , 2003 , 158, 209-213	0.9	7
50	Restricting the High-Temperature Growth of Nanocrystalline Tin Oxide. <i>Radiation Effects and Defects in Solids</i> , 2003 , 158, 73-76	0.9	7
49	A New Oxygen Sensor Based on the Thermoelectric Power of Solid Solutions of Nb ₂ O ₅ and Bi ₂ O ₃ . <i>Angewandte Chemie International Edition in English</i> , 1989 , 28, 75-76		7
48	Photocurrent kinetics in metal phthalocyanine crystals, films and pellets. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989 , 85, 1979		7
47	Kinetics of Photocurrent Rise and Decay in Molecular Crystalline Materials. <i>Molecular Crystals and Liquid Crystals</i> , 1986 , 134, 121-135		7
46	Nuclear magnetic resonance techniques for the study of mechanisms of diffusion in solids. <i>International Reviews in Physical Chemistry</i> , 1988 , 7, 251-280	7	7
45	The Preparation of Nanocrystalline Oxides and Their Characterisation using Synchrotron Techniques. <i>Materials Science Forum</i> , 1997 , 239-241, 683-686	0.4	6
44	Characterization of Nanocrystalline Oxides by Exafs Spectroscopy 2002 , 133-164		6
43	Stoichiometry and structure of copper-doped LiNbO ₃ and LiTaO ₃ . <i>Journal of Materials Chemistry</i> , 1995 , 5, 1043		6
42	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	1.7	6
41	The relation between bound and free ion motion in some fluorides. <i>Solid State Ionics</i> , 1981 , 5, 585-588	3.3	6
40	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	8.9	6
39	Ion-Conducting Nanocrystals: Theory, Methods, and Applications 79-132		5
38	Thermoelectric power studies of bismuth oxide and mixed oxides based on bismuth oxide. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993 , 68, 787-797		5
37	Anomalous high resolution N.M.R. line-widths in plastic crystals. <i>Molecular Physics</i> , 1976 , 32, 1773-1776	1.7	5
36	Ionic conductivity of crystalline potassium thiocyanate. <i>Journal of Physics C: Solid State Physics</i> , 1971 , 4, 584-590		5
35	The Formation of Chemical Degraders during the Conservation of a Wooden Tudor Shipwreck. <i>ChemPlusChem</i> , 2020 , 85, 1632-1638	2.8	4

34	Structures of mixed manganese ruthenium oxides (MnRu)O crystallised under acidic hydrothermal conditions. <i>Dalton Transactions</i> , 2020 , 49, 2661-2670	4.3	4
33	A Structural Study of Delafossite-type CuInO ₂ Thin Films. <i>Journal of Physics: Conference Series</i> , 2010 , 249, 012045	0.3	4
32	Structural Characterization of SiO ₂ and Al ₂ O ₃ Zener-Pinned Nanocrystalline TiO ₂ by NMR, XRD and Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13740-13746	3.8	4
31	Evaluation of structural and electrochemical properties of the MnSb ₂ system as anode for Li-ion batteries. <i>Hyperfine Interactions</i> , 2006 , 167, 773-778	0.8	4
30	Small, but Perfectly Formed: The Microstructure of Nanocrystalline Oxides. <i>Radiation Effects and Defects in Solids</i> , 2003 , 158, 21-30	0.9	4
29	Investigation of the superionic behaviour of BaF ₂ (x mol% LaF ₃) by raman and brillouin scattering and molecular dynamics simulations. <i>Radiation Effects and Defects in Solids</i> , 2002 , 157, 783-788	0.9	4
28	Thermoelectric Power Studies of Oxides with the Fluorite Structure. <i>Materials Science Forum</i> , 1986 , 7, 317-0	0.4	4
27	Tuning Antisite Defect Density in Perovskite-BaLiF via Cycling between Ball Milling and Heating. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5121-5124	6.4	3
26	Spectroscopic and computer modelling studies of mixed-cation superionic fluorites. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 6575-6586	1.8	3
25	Ionic environment and transport in polymer electrolytes. <i>Solid State Ionics</i> , 1994 , 72, 147-151	3.3	3
24	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		3
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