

Andrew P Grosvenor

List of Publications by Year in descending order

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85
papers

9,963
citations

218381

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docs citations

92
times ranked

16506
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and magnetic properties of churchite-type REPO ₄ ·2H ₂ O materials. <i>Journal of Solid State Chemistry</i> , 2022, 312, 123261.	1.4	2
2	Understanding the Interplay of Vacancy, Cation, and Charge Ordering in the Tunable Sc ₂ VO ₅ + $\hat{\Gamma}$ Defect Fluorite System. <i>Inorganic Chemistry</i> , 2021, 60, 872-882.	1.9	0
3	Magnetism in Mixed Valence, Defect, Cubic Perovskites: Ba _{1-x} Fe _x O _{2.5+$\hat{\Gamma}$} , $x = 0.25, 0.50, \text{ and } 0.75$. Local and Average Structures. <i>ACS Omega</i> , 2021, 6, 6017-6029.	1.6	0
4	Family of anisotropic spin glasses Ba _{1-x} La _{1+x} MnO ₄ + $\hat{\Gamma}$. <i>Physical Review Materials</i> , 2021, 5, .	0.9	1
5	A Study of the Corrosion of Polymethyl Methacrylate Coated Rebar Using Glancing Angle X-Ray Absorption Near Edge Spectroscopy. <i>Corrosion</i> , 2021, 77, 1291-1298.	0.5	0
6	An X-ray spectromicroscopy study of the calcium mineralization in the JEB tailings management facility at McClean Lake, Saskatchewan. <i>Applied Geochemistry</i> , 2020, 112, 104459.	1.4	3
7	Effect of glass composition on the crystallization of CePO ₄ borosilicate glass composite materials. <i>Canadian Journal of Chemistry</i> , 2020, 98, 701-707.	0.6	1
8	Analysis of low concentration U species within U mill tailings using X-ray microprobe. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2020, 244, 146992.	0.8	0
9	Crystallization of Rare-Earth Phosphate-Borosilicate Glass Composites Synthesized by a One-Step Coprecipitation Method. <i>Crystal Growth and Design</i> , 2020, 20, 2217-2231.	1.4	6
10	Shell isolated nanoparticle enhanced Raman spectroscopy (SHINERS) studies of steel surface corrosion. <i>Journal of Electroanalytical Chemistry</i> , 2019, 853, 113559.	1.9	10
11	Low-temperature synthesis of CaZrTi ₂ O ₇ zirconolite-type materials using ceramic, coprecipitation, and sol-gel methods. <i>Journal of Materials Chemistry C</i> , 2019, 7, 177-187.	2.7	17
12	Investigation of Factors That Affect the Oxidation State of Ce in the Garnet-Type Structure. <i>Inorganic Chemistry</i> , 2019, 58, 2299-2306.	1.9	6
13	A spectromicroscopy study of the corrosion of fusion-bonded epoxy-coated rebar. <i>Surface and Interface Analysis</i> , 2019, 51, 525-530.	0.8	4
14	Mixed valence cerium substitution in Gd _{2-x} Ce _x Ti ₂ O ₇ + $\hat{\Gamma}$ pyrochlores. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 234, 5-12.	0.8	0
15	Quenching of Long Range Order and the Mn ³⁺ Ordered Moment in the Layered Antiferromagnet, Ba _x Sr _{1-x} LaMnO ₄ . A Polarized Neutron Scattering Study. <i>Inorganic Chemistry</i> , 2019, 58, 4300-4309.	1.9	4
16	Soft X-ray spectromicroscopy studies of pitting corrosion of reinforcing steel bar. <i>Surface and Interface Analysis</i> , 2019, 51, 681-691.	0.8	2
17	Investigating the local structure of B-site cations in (1-x)BaTiO ₃ -xBiScO ₃ and (1-x)PbTiO ₃ -xBiScO ₃ using X-ray absorption spectroscopy. <i>Solid State Sciences</i> , 2018, 79, 6-14.	1.5	3
18	A one-step synthesis of rare-earth phosphate borosilicate glass composites. <i>RSC Advances</i> , 2018, 8, 39053-39065.	1.7	7

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19	A spectromicroscopy study of the corrosion of polymer coated steel. Corrosion Science, 2018, 145, 35-46.	3.0	7
20	Effect of Synthetic Method and Annealing Temperature on the Structure of Hollandite-Type Oxides. Inorganic Chemistry, 2018, 57, 14353-14361.	1.9	5
21	X-ray microprobe characterization of corrosion at the buried polymer-steel interface. Corrosion Science, 2018, 144, 198-206.	3.0	10
22	Examination of the site preference in garnet type (X ₃ A ₂ B ₃ O ₁₂ ; X=Y, A/B= Al, Ga, Fe) materials. Solid State Sciences, 2018, 83, 56-64.	1.5	3
23	An investigation of the chemical durability of hydrous and anhydrous rare-earth phosphates. Journal of Nuclear Materials, 2018, 509, 631-643.	1.3	12
24	Investigation of CeTi ₂ O ₆ - and CaZrTi ₂ O ₇ -containing glass-ceramic composite materials. Canadian Journal of Chemistry, 2017, 95, 1110-1121.	0.6	13
25	Assessing the oxidation states and structural stability of the Ce analogue of brannerite. Surface and Interface Analysis, 2017, 49, 1335-1344.	0.8	7
26	Investigation of the stability of glass-ceramic composites containing CeTi ₂ O ₆ and CaZrTi ₂ O ₇ after ion implantation. Solid State Sciences, 2017, 74, 109-117.	1.5	12
27	A Structural Investigation of Hydrous and Anhydrous Rare-Earth Phosphates. Inorganic Chemistry, 2016, 55, 9685-9695.	1.9	37
28	Identifying calcium-containing mineral species in the JEB Tailings Management Facility at McClean Lake, Saskatchewan. Applied Geochemistry, 2016, 73, 98-108.	1.4	8
29	XPS and EELS characterization of Mn ₂ SiO ₄ , MnSiO ₃ and MnAl ₂ O ₄ . Applied Surface Science, 2016, 379, 242-248.	3.1	63
30	Investigation of Nd _x Y _{0.25-x} Zr _{0.75} O _{1.88} inert matrix fuel materials made by a co-precipitation synthetic route. Canadian Journal of Chemistry, 2016, 94, 198-210.	0.6	1
31	The Influence of Final-State Effects on XPS Spectra from First-Row Transition-Metals. Springer Series in Surface Sciences, 2016, , 217-262.	0.3	1
32	Investigation of the Thermal Stability of Nd _x Sc _y Zr _{1-x-y} O _{2-δ} Materials Proposed for Inert Matrix Fuel Applications. Inorganic Chemistry, 2016, 55, 1032-1043.	1.9	7
33	Synthesis, structure, and magnetic properties of novel B-site ordered double perovskites, SrLaMReO ₆ (M = Mg, Mn, Co and Ni). Dalton Transactions, 2015, 44, 10806-10816.	1.6	20
34	Investigating the Geochemical Model for Molybdenum Mineralization in the JEB Tailings Management Facility at McClean Lake, Saskatchewan: An X-ray Absorption Spectroscopy Study. Environmental Science & Technology, 2015, 49, 6504-6509.	4.6	12
35	An investigation of the thermal stability of Nd _{1-x} Y _x Zr _{1-x-y} O _{2-δ} inert matrix fuel materials. Journal of Alloys and Compounds, 2015, 635, 245-255.	2.8	8
36	A study of the electronic structure and structural stability of Gd ₂ Ti ₂ O ₇ based glass-ceramic composites. RSC Advances, 2015, 5, 80939-80949.	1.7	18

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37	Probing the effect of radiation damage on the structure of rare-earth phosphates. Journal of Alloys and Compounds, 2015, 653, 279-289.	2.8	27
38	An investigation of the electronic structure and structural stability of RE ₂ Ti ₂ O ₇ by glancing angle and total electron yield XANES. Journal of Alloys and Compounds, 2014, 616, 516-526.	2.8	11
39	Analysis of the Mo Speciation in the JEB Tailings Management Facility at McClean Lake, Saskatchewan. Environmental Science & Technology, 2014, 48, 4460-4467.	4.6	13
40	Investigation of the Structural Stability of Ion-Implanted Gd ₂ Ti ₂ Sn ₇ O ₇ Pyrochlore-Type Oxides by Glancing Angle X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 7910-7922.	1.5	16
41	Examination of the site preference of metals in NiAl ₂ GaO spinel-type oxides by X-ray absorption near-edge spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 139-144.	0.8	2
42	X-ray Spectroscopic Study of the Electronic Structure of Monazite- and Xenotime-Type Rare-Earth Phosphates. Journal of Physical Chemistry C, 2014, 118, 18000-18009.	1.5	32
43	The Effect of Synthetic Method and Annealing Temperature on Metal Site Preference in AlGaFeO ₃ . Inorganic Chemistry, 2013, 52, 8612-8620.	1.9	9
44	An X-ray absorption spectroscopic study of the effect of bond covalency on the electronic structure of Gd ₂ Ti ₂ xSn _x O ₇ . Physical Chemistry Chemical Physics, 2013, 15, 10477.	1.3	26
45	An investigation of the electronic structure of Cu ₂ FeSn ₃ Ti ₈ (O ₃) thiospinel spin-crossover materials by X-ray absorption spectroscopy and electronic structure calculations. Journal of Solid State Chemistry, 2013, 197, 532-542.	1.4	1
46	An X-ray absorption spectroscopic study of the metal site preference in Al _{1-x} Ga _x FeO ₃ . Journal of Solid State Chemistry, 2013, 197, 147-153.	1.4	18
47	An investigation of pyrochlore-type oxides (Yb ₂ Ti ₂ xFe _x O ₇) by XANES. Journal of Physics and Chemistry of Solids, 2013, 74, 830-836.	1.9	16
48	A case for oxygen deficiency in Gd ₂ Ti ₂ xZrxO ₇ pyrochlore-type oxides. Journal of Alloys and Compounds, 2013, 565, 44-49.	2.8	27
49	Ceria Nanocubes: Dependence of the Electronic Structure on Synthetic and Experimental Conditions. Journal of Physical Chemistry C, 2013, 117, 10095-10105.	1.5	20
50	XANES and XPS investigations of the local structure and final-state effects in amorphous metal silicates: (ZrO ₂) _x (TiO ₂) _y (SiO ₂) _{1-x-y} . Physical Chemistry Chemical Physics, 2012, 14, 205-217.	1.3	21
51	Electronic structure of rare-earth chromium antimonides RECrSb ₃ (RE=La-Nd, Sm, Gd-Dy, Yb) by X-ray photoelectron spectroscopy. Journal of Solid State Chemistry, 2012, 196, 79-86.	1.4	13
52	An investigation of the Fe and Mo oxidation states in Sr ₂ Fe ₂ MoxO ₆ (0.25 ≤ x ≤ 1.0) double perovskites by X-ray absorption spectroscopy. Journal of Alloys and Compounds, 2012, 537, 323-331.	2.8	21
53	How temperature influences the stoichiometry of CeTi ₂ O ₆ . Solid State Sciences, 2012, 14, 761-767.	1.5	23
54	XANES and XPS investigations of (TiO ₂) _x (SiO ₂) _{1-x} : the contribution of final-state relaxation to shifts in absorption and binding energies. Journal of Materials Chemistry, 2011, 21, 1829-1836.	6.7	44

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55	Local and Average Structures and Magnetic Properties of $\text{Sr}_{2-x}\text{FeMnO}_{5+y}$, $y = 0.0, 0.5$. Comparisons with $\text{Ca}_2\text{FeMnO}_5$ and the Effect of the A-Site Cation. <i>Inorganic Chemistry</i> , 2011, 50, 7779-7791.	1.9	27
56	An x-ray absorption spectroscopic study of the electronic structure and bonding of rare-earth orthoferrites. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 465502.	0.7	27
57	On the Oxidation of $\text{EuFe}_4\text{Sb}_{12}$ and $\text{EuRu}_4\text{Sb}_{12}$. <i>Inorganic Chemistry</i> , 2011, 50, 6263-6268.	1.9	6
58	Investigation of the Fe K-edge XANES Spectra from $\text{Fe}_{1-x}\text{Ga}_x\text{SbO}_4$: Local versus Nonlocal Excitations. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1908-1912.	1.1	22
59	Determining the effect of Ru substitution on the thermal stability of $\text{CeFe}_4\text{Ru}_x\text{Sb}_{12}$. <i>Solid State Sciences</i> , 2011, 13, 2041-2048.	1.5	4
60	Resolving surface chemical states in XPS analysis of first row transition metals, oxides and hydroxides: Cr, Mn, Fe, Co and Ni. <i>Applied Surface Science</i> , 2011, 257, 2717-2730.	3.1	6,012
61	Investigation of coordination changes in substituted transition-metal oxides by K-edge XANES: Beyond the pre-edge. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011, 184, 192-195.	0.8	11
62	Electronic structure of lanthanum transition-metal oxyarsenides LaMAsO (M = Fe, Co, Ni) and $\text{LaFe}_{1-x}\text{M}_x\text{AsO}$ (M = Co, Ni) by X-ray photoelectron and absorption spectroscopy. <i>Solid State Sciences</i> , 2010, 12, 50-58.	1.5	24
63	Intralayer Cation Ordering in a Brownmillerite Superstructure: Synthesis, Crystal, and Magnetic Structures of $\text{Ca}_2\text{FeCoO}_5$. <i>Chemistry of Materials</i> , 2010, 22, 6008-6020.	3.2	55
64	Coordination-Induced Shifts of Absorption and Binding Energies in the $\text{SrFe}_{1-x}\text{Zn}_x\text{O}_{3+x}$ System. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19822-19829.	1.5	30
65	Ternary arsenides $\text{Zr}(\text{SixAs}_{1-x})\text{As}$ with PbCl_2 -type ($0 \leq x \leq 0.4$) and PbFCl -type ($x = 0.6$) structures. <i>Journal of Alloys and Compounds</i> , 2010, 492, 19-25.	2.8	8
66	Examination of $\text{CeFe}_4\text{Sb}_{12}$ upon exposure to air: Is this material appropriate for use in terrestrial, high-temperature thermoelectric devices?. <i>Journal of Alloys and Compounds</i> , 2010, 505, L6-L9.	2.8	26
67	Bonding and Electronic Structure of Phosphides, Arsenides, and Antimonides by X-Ray Photoelectron and Absorption Spectroscopies. <i>Structure and Bonding</i> , 2009, , 41-92.	1.0	9
68	Effects of bond character on the electronic structure of brownmillerite-phase oxides, $\text{Ca}_2\text{B}_x\text{Fe}_{2-x}\text{O}_5$ (B = Al, Ga): an X-ray absorption and electron energy loss spectroscopic study. <i>Journal of Materials Chemistry</i> , 2009, 19, 9213.	6.7	24
69	Effects of metal substitution in transition-metal phosphides ($\text{Ni}_{1-x}\text{M}_x\text{P}$) (M = Cr, Fe, Co) studied by X-ray photoelectron and absorption spectroscopy. <i>Journal of Materials Chemistry</i> , 2009, 19, 6015.	6.7	61
70	Analysis of Metal Site Preference and Electronic Structure of Brownmillerite-Phase Oxides ($\text{A}_{2-x}\text{B}_x\text{B}_{2-x}\text{O}_5$; A = Ca, Sr; B = Al, Tl) <i>Journal of Materials Chemistry</i> , 2009, 19, 11366-11372.	1.3	32
71	Bonding and Electronic Structure of Phosphides, Arsenides, and Antimonides by X-Ray Photoelectron and Absorption Spectroscopies. <i>Structure and Bonding</i> , 2009, , 41-92.	1.0	5
72	ARXPS study of the ion mobility through HfO_2 (SiO_2) formed on air-exposed $\text{HfSi}_{0.5}\text{As}_{1.5}$. <i>Surface and Interface Analysis</i> , 2008, 40, 490-494.	0.8	4

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73	Next-nearest neighbour contributions to the XPS binding energies and XANES absorption energies of P and As in transition-metal arsenide phosphides $MAs_{1-x}Py$ having the MnP-type structure. Journal of Solid State Chemistry, 2008, 181, 2549-2558.	1.4	29
74	X-ray Photoelectron and Absorption Spectroscopy of Metal-Rich Phosphides M_2P and M_3P ($M = Cr, Ni$). Chemistry of Materials, 2008, 20, 7081-7088.	3.2	233
75	Analysis of the electronic structure of $Hf(Si_{0.5}As_{0.5})As$ by X-ray photoelectron and photoemission spectroscopy. Journal of Solid State Chemistry, 2007, 180, 2670-2681.	1.4	14
76	Structure and growth of oxides on polycrystalline nickel surfaces. Surface and Interface Analysis, 2007, 39, 582-592.	0.8	71
77	Next-nearest neighbour contributions to P 2p _{3/2} X-ray photoelectron binding energy shifts of mixed transition-metal phosphides M_1-xM_2-xP with the MnP-type structure. Journal of Solid State Chemistry, 2007, 180, 2702-2712.	1.4	49
78	X-ray Photoelectron Spectroscopy Study of Rare-Earth Filled Skutterudites $LaFe_4P_{12}$ and $CeFe_4P_{12}$. Chemistry of Materials, 2006, 18, 1650-1657.	3.2	32
79	New interpretations of XPS spectra of nickel metal and oxides. Surface Science, 2006, 600, 1771-1779.	0.8	1,663
80	Examination of the Bonding in Binary Transition-Metal Monophosphides MP ($M: Cr, Mn, Fe, Co$) by X-Ray Photoelectron Spectroscopy.. ChemInform, 2006, 37, no.	0.1	1
81	X-ray photoelectron spectroscopy study of the skutterudites $LaFe_4Sb_{12}$, $CeFe_4Sb_{12}$, $CoSb_3$, and CoP_3 . Physical Review B, 2006, 74, .	1.1	47
82	Activation energies for the oxidation of iron by oxygen gas and water vapour. Surface Science, 2005, 574, 317-321.	0.8	44
83	Examination of the Bonding in Binary Transition-Metal Monophosphides MP ($M = Cr, Mn, Fe, Co$) by X-Ray Photoelectron Spectroscopy. Inorganic Chemistry, 2005, 44, 8988-8998.	1.9	415
84	Examination of the oxidation of iron by oxygen using X-ray photoelectron spectroscopy and QUASESTM. Surface Science, 2004, 565, 151-162.	0.8	116
85	Studies of the oxidation of iron by water vapour using X-ray photoelectron spectroscopy and QUASESTM. Surface Science, 2004, 572, 217-227.	0.8	190