

Robert J Newport

List of Publications by Year in descending order

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169
papers

5,693
citations

71102

41
h-index

102487

66
g-index

169
all docs

169
docs citations

169
times ranked

5010
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnesium incorporation into hydroxyapatite. <i>Biomaterials</i> , 2011, 32, 1826-1837.	11.4	296
2	Bioactive functional materials: a perspective on phosphate-based glasses. <i>Journal of Materials Chemistry</i> , 2009, 19, 690-701.	6.7	289
3	TOSCA neutron spectrometer: The final configuration. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s64-s66.	2.3	180
4	Antimicrobial Gallium-Doped Phosphate-Based Glasses. <i>Advanced Functional Materials</i> , 2008, 18, 732-741.	14.9	161
5	Structure and properties of strontium-doped phosphate-based glasses. <i>Journal of the Royal Society Interface</i> , 2009, 6, 435-446.	3.4	135
6	Characterizing the hierarchical structures of bioactive sol-gel silicate glass and hybrid scaffolds for bone regeneration. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 1422-1443.	3.4	115
7	Controlled delivery of antimicrobial gallium ions from phosphate-based glasses. <i>Acta Biomaterialia</i> , 2009, 5, 1198-1210.	8.3	108
8	Effect of Silver Content on the Structure and Antibacterial Activity of Silver-Doped Phosphate-Based Glasses. <i>Antimicrobial Agents and Chemotherapy</i> , 2007, 51, 4453-4461.	3.2	103
9	Bioactive glass scaffolds for bone regeneration and their hierarchical characterisation. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 1373-1387.	1.8	102
10	Synthesis and structural characterization of $P_2O_5-CaO-Na_2O$ sol-gel materials. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1141-1149.	3.1	101
11	Structural properties of amorphous hydrogenated carbon. III. NMR investigations. <i>Physical Review B</i> , 1994, 50, 846-852.	3.2	95
12	Systematic empirical analysis of calcium-oxygen coordination environment by calcium K-edge XANES. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 188-192.	2.8	89
13	The effect of composition on the structure of sodium borophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3671-3677.	3.1	87
14	Effect of Calcium Source on Structure and Properties of Sol-Gel Derived Bioactive Glasses. <i>Langmuir</i> , 2012, 28, 17465-17476.	3.5	87
15	EXAFS studies of rare-earth metaphosphate glasses. <i>Physical Review B</i> , 1996, 53, 5268-5275.	3.2	86
16	Do "passive"™ medical titanium surfaces deteriorate in service in the absence of wear?. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3161-3164.	3.4	83
17	XANES Study of Ti Coordination in Heat-Treated $(TiO_2)_x(SiO_2)_{1-x}$ Xerogels. <i>Chemistry of Materials</i> , 1999, 11, 1253-1258.	6.7	76
18	A structural study of sol-gel and melt-quenched phosphate-based glasses. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1759-1765.	3.1	75

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19	A Neutron and X-ray Diffraction Study of Bioglass [®] with Reverse Monte Carlo Modelling. <i>Advanced Functional Materials</i> , 2007, 17, 3746-3753.	14.9	74
20	Structure of (ZrO ₂) _x (SiO ₂) _{1-x} xerogels (x=0.1, 0.2, 0.3 and 0.4) from FTIR, ²⁹ Si and ¹⁷ O MAS NMR and EXAFS. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2527-2533.	2.8	70
21	Changes in the Zr environment in zirconia-silica xerogels with composition and heat treatment as revealed by Zr K-edge XANES and EXAFS. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2455-2460.	2.8	70
22	Probing the calcium and sodium local environment in bones and teeth using multinuclear solid state NMR and X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1081-1091.	2.8	70
23	Sol-gel synthesis of the P ₂ O ₅ -CaO-Na ₂ O-SiO ₂ system as a novel bioresorbable glass. <i>Journal of Materials Chemistry</i> , 2005, 15, 2134.	6.7	69
24	An exafs study of the cluster molecule Au ₅₅ (PPh ₃) ₁₂ Cl ₆ . <i>Solid State Communications</i> , 1990, 73, 431-436.	1.9	64
25	A structural study of (TiO ₂) _x (SiO ₂) _{1-x} (x=0.18, 0.30 and 0.41) xerogels prepared using acetylacetone. <i>Journal of Materials Chemistry</i> , 1999, 9, 1299-1305.	6.7	63
26	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.	2.4	61
27	The structure of a bioactive calcium-silica sol-gel glass. <i>Journal of Materials Chemistry</i> , 2005, 15, 2369.	6.7	60
28	An x-ray diffraction and ³¹ P MAS NMR study of rare-earth phosphate glasses, (R ₂ O ₃) _x (P ₂ O ₅) _{1-x} , x=0.175-0.263, R = La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 4105-4122.	1.8	58
29	Crystal Structures and Magnetic Properties of Rare-Earth Ultraphosphates, RP ₅ O ₁₄ (R=La, Nd, Sm, Eu.) Tj ETQq1 1 0,784314 rgBT /O	2.9	56
30	Probing the local structural environment of calcium by natural-abundance solid-state ⁴³ Ca NMR. <i>Physical Review B</i> , 2004, 69, .	3.2	55
31	Synthesis, characterisation and performance of (TiO ₂) _{0.18} (SiO ₂) _{0.82} xerogel catalysts. <i>Journal of Materials Chemistry</i> , 2000, 10, 2495-2501.	6.7	53
32	Sol-gel synthesis and structural characterisation of P ₂ O ₅ -B ₂ O ₃ -Na ₂ O glasses for biomedical applications. <i>Journal of Materials Chemistry</i> , 2009, 19, 150-158.	6.7	53
33	New sol-gel synthesis of a (CaO) _{0.3} (Na ₂ O) _{0.2} (P ₂ O ₅) _{0.5} bioresorbable glass and its structural characterisation. <i>Journal of Materials Chemistry</i> , 2007, 17, 4777.	6.7	52
34	The structure and properties of silver-doped phosphate-based glasses. <i>Journal of Materials Science</i> , 2007, 42, 9827-9835.	3.7	52
35	A study of the formation of amorphous calcium phosphate and hydroxyapatite on melt quenched Bioglass [®] using surface sensitive shallow angle X-ray diffraction. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 883-888.	3.6	51
36	Neutron Compton scattering from amorphous hydrogenated carbon. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 641-658.	1.8	50

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37	Doping of a high calcium oxide metaphosphate glass with titanium dioxide. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 991-1000.	3.1	50
38	Structural properties of amorphous hydrogenated carbon. I. A high-resolution neutron-diffraction study. <i>Physical Review B</i> , 1994, 50, 831-838.	3.2	48
39	Preparation, structural characterisation and antibacterial properties of Ga-doped sol-gel phosphate-based glass. <i>Journal of Materials Science</i> , 2009, 44, 1858-1867.	3.7	46
40	EXAFS and x-ray structural studies of (Tb ₂ O ₃) _{0.26} (P ₂ O ₅) _{0.74} metaphosphate glass. <i>Physical Review B</i> , 1995, 51, 5739-5745.	3.2	45
41	Structural properties of amorphous hydrogenated carbon. II. An inelastic neutron-scattering study. <i>Physical Review B</i> , 1994, 50, 839-845.	3.2	43
42	A rare earth L ₃ -edge EXAFS and L ₁ -edge XANES study of Ce, Nd and Eu phosphate glasses and crystals in the composition range from metaphosphate to ultraphosphate. <i>Journal of Non-Crystalline Solids</i> , 2001, 279, 20-27.	3.1	41
43	Structure of (Ta ₂ O ₅) _x (SiO ₂) _{1-x} xerogels (x = 0.05, 0.11, 0.18, 0.25 and 1.0) from FTIR, ²⁹ Si and ¹⁷ O MAS NMR and EXAFS. <i>Journal of Materials Chemistry</i> , 2000, 10, 1887-1894.	6.7	40
44	The effects of different heat treatment and atmospheres on the NMR signal and structure of TiO ₂ -ZrO ₂ -SiO ₂ sol-gel materials. <i>Solid State Nuclear Magnetic Resonance</i> , 2003, 23, 88-106.	2.3	40
45	Bioactive glass sol-gel foam scaffolds: Evolution of nanoporosity during processing and <i>in situ</i> monitoring of apatite layer formation using small- and wide-angle X-ray scattering. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 76-83.	4.0	40
46	A structural investigation of the alkali metal site distribution within bioactive glass using neutron diffraction and multinuclear solid state NMR. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12105.	2.8	40
47	An examination of the calcium and strontium site distribution in bioactive glasses through isomorphic neutron diffraction, X-ray diffraction, EXAFS and multinuclear solid state NMR. <i>Journal of Materials Chemistry</i> , 2012, 22, 22212.	6.7	40
48	A high-energy X-ray diffraction, ³¹ P and ¹¹ B solid-state NMR study of the structure of aged sodium borophosphate glasses. <i>Materials Chemistry and Physics</i> , 2008, 111, 455-462.	4.0	39
49	An extended x-ray absorption fine structure study of rare-earth phosphate glasses near the metaphosphate composition. <i>Journal of Materials Research</i> , 1999, 14, 4706-4714.	2.6	38
50	An atomic-scale study of the role of titanium in TiO ₂ :SiO ₂ sol-gel materials. <i>Chemical Physics Letters</i> , 1997, 264, 539-544.	2.6	37
51	The effect of temperature on the structure of amorphous hydrogenated carbon. <i>Journal of Chemical Physics</i> , 1994, 101, 4288-4300.	3.0	36
52	Titanium-containing bioactive phosphate glasses. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 1352-1375.	3.4	36
53	Inelastic neutron scattering of molecular hydrogen in amorphous hydrogenated carbon. <i>Chemical Physics Letters</i> , 1991, 180, 145-148.	2.6	34
54	The structure of molten nickel chloride. <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, 5249-5257.	1.5	33

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55	High-energy spin waves in bcc iron. <i>Journal of Applied Physics</i> , 1991, 69, 6219-6221.	2.5	33
56	An EXAFS study of some gold and palladium cluster compounds. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 26, 8-11.	1.0	33
57	A spectroscopic study of the structure of amorphous hydrogenated carbon. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 10059-10073.	1.8	33
58	Advanced physical characterisation of the structural evolution of amorphous $(\text{TiO}_2)_x(\text{SiO}_2)_{1-x}$ sol-gel materials. <i>Journal of Materials Science</i> , 2004, 39, 6743-6755.	3.7	32
59	Reverse Monte Carlo modeling of amorphous germanium. <i>Physical Review B</i> , 1996, 53, 2405-2410.	3.2	31
60	Sol-Gel Phosphate-based Glass for Drug Delivery Applications. <i>Journal of Biomaterials Applications</i> , 2012, 26, 613-622.	2.4	31
61	TOSCA: a world class inelastic neutron spectrometer. <i>Physica B: Condensed Matter</i> , 1997, 241-243, 154-156.	2.7	30
62	Structural characterisation of hypoxia-mimicking bioactive glasses. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1296.	5.8	30
63	The atomic-scale structure of amorphous hydrogenated carbon. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 1755-1769.	1.8	29
64	A rare-earth K-edge EXAFS study of rare-earth phosphate glasses, $(\text{R}_2\text{O}_3)_x(\text{P}_2\text{O}_5)_{1-x}$, $x = 0.187-0.239$, $R = \text{La, Nd, Sm, Eu, Gd, Dy, Er}$. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 6659-6674.	1.8	29
65	An EXAFS study of rare-earth phosphate glasses in the vicinity of the metaphosphate composition. <i>Journal of Non-Crystalline Solids</i> , 1998, 232-234, 286-292.	3.1	28
66	An EXAFS study of silica-titania gels. <i>Journal of Non-Crystalline Solids</i> , 1998, 232-234, 72-79.	3.1	27
67	A neutron diffraction and ^{27}Al MQMAS NMR study of rare-earth phosphate glasses, $(\text{R}_2\text{O}_3)_x(\text{P}_2\text{O}_5)_{1-x}$, $x = 0.187-0.263$, $R = \text{Ce, Nd, Tb}$ containing Al impurities. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 9165-9178.	1.8	27
68	In-situ high-temperature XANES observations of rapid and reversible changes in Ti coordination in titania-silica xerogels. <i>Chemical Physics Letters</i> , 1999, 304, 150-154.	2.6	27
69	Structural studies of bioactivity in sol-gel-derived glasses by X-ray spectroscopy. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70A, 354-360.	3.1	27
70	A multinuclear solid state NMR study of the sol-gel formation of amorphous $\text{Nb}_2\text{O}_5\text{-SiO}_2$ materials. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 27, 28-36.	2.3	27
71	Characterisation of phosphate coacervates for potential biomedical applications. <i>Journal of Biomaterials Applications</i> , 2014, 28, 1226-1234.	2.4	27
72	The structure and electrical properties of liquid semiconductors. I. The structure of liquid NiTe_2 and NiTe . <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, 4627-4634.	1.5	26

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73	Comparing the Atomic Structures of Binary MO ₂ -SiO ₂ (M = Ti, Zr or Hf) Xerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 161-164.	2.4	24
74	The structure of calcium metaphosphate glass obtained from x-ray and neutron diffraction and reverse Monte Carlo modelling. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 035109.	1.8	24
75	X-ray diffraction studies of rare-earth metaphosphate glasses. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 3337-3346.	1.8	23
76	Progress in modeling the chemical bonding in tetrahedral amorphous carbon. <i>Physical Review B</i> , 1998, 58, 8267-8276.	3.2	23
77	The Structure of TiO ₂ -SiO ₂ Sol-Gel Glasses from Neutron Diffraction with Isotopic Substitution of Titanium and ¹⁷ O and ⁴⁹ Ti Solid-State NMR with Isotopic Enrichment. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10872-10880.	2.6	23
78	The structure of phosphate glass biomaterials from neutron diffraction and ³¹ P nuclear magnetic resonance data. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 415116.	1.8	23
79	Structural characterization by x-ray methods of novel antimicrobial gallium-doped phosphate-based glasses. <i>Journal of Chemical Physics</i> , 2009, 130, 064708.	3.0	23
80	The effect of zinc and titanium on the structure of calcium-sodium phosphate based glass. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1319-1324.	3.1	23
81	X-ray diffraction studies of the effects of N incorporation in amorphous CN _x materials. <i>Journal of Applied Physics</i> , 1998, 83, 3529-3534.	2.5	22
82	Direct observation of R-R distances in rare-earth(R)phosphate glasses by magnetic difference neutron diffraction. <i>Physical Review B</i> , 2006, 73, .	3.2	22
83	An X-ray absorption study of gold coordination compounds: EXAFS refinements and double electron excitation background. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 8429-8448.	1.8	21
84	Reverse Monte Carlo modelling of Eu and Tb metaphosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 1998, 232-234, 227-233.	3.1	21
85	The effect of zirconia content on the structure of zirconia-silica xerogels as determined by x-ray and neutron diffraction and Zr K-edge EXAFS and XANES. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 3505-3519.	1.8	21
86	The use of advanced diffraction methods in the study of the structure of a bioactive calcia: silica sol-gel glass. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 1003-1010.	3.6	21
87	Formation of functional phosphosilicate gels from phytic acid and tetraethyl orthosilicate. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 48, 378-383.	2.4	21
88	Ti K-edge XANES study of the local environment of titanium in bioresorbable TiO ₂ -CaO-Na ₂ O-P ₂ O ₅ glasses. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1681-1685.	3.6	21
89	The structure and electrical properties of liquid semiconductors. II. Electron transport in liquid Ni-Te alloys. <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, 4635-4640.	1.5	20
90	The structure of molten nickel iodide. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, 669-680.	1.5	20

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91	Sol-gel synthesis and structural characterisation of binary TiO ₂ -P ₂ O ₅ glasses. Materials Research Bulletin, 2008, 43, 333-342.	5.2	20
92	Insights into new calcium phosphosilicate xerogels using an advanced characterization methodology. Journal of Non-Crystalline Solids, 2011, 357, 3548-3555.	3.1	20
93	<i>NXFit</i> : a program for simultaneously fitting X-ray and neutron diffraction pair-distribution functions to provide optimized structural parameters. Journal of Applied Crystallography, 2014, 47, 1790-1796.	4.5	20
94	Structural Characteristics of Antibacterial Bioresorbable Phosphate Glass. Advanced Functional Materials, 2008, 18, 634-639.	14.9	19
95	The atomic structure of niobium and tantalum containing borophosphate glasses. Journal of Physics Condensed Matter, 2009, 21, 375106.	1.8	19
96	EXAFS investigations of high-nuclearity Pd clusters. Physica B: Condensed Matter, 1995, 208-209, 671-673.	2.7	18
97	X-ray absorption spectroscopy and high-energy XRD study of the local environment of copper in antibacterial copper-releasing degradable phosphate glasses. Journal of Non-Crystalline Solids, 2006, 352, 3080-3087.	3.1	18
98	The structure of the rare-earth phosphate glass (Sm ₂ O ₃) _{0.205} (P ₂ O ₅) _{0.795} studied by anomalous dispersion neutron diffraction. Journal of Physics Condensed Matter, 2007, 19, 056002.	1.8	18
99	Neutron-diffraction studies of amorphous CN _x materials. Physical Review B, 1997, 56, 14315-14321.	3.2	17
100	The structure of a C:H by neutron and X-ray scattering. Surface and Coatings Technology, 1991, 47, 668-676.	4.8	16
101	Electron volt spectroscopy on a pulsed neutron source. Nuclear Instruments & Methods in Physics Research, 1984, 224, 120-132.	0.9	15
102	Structural Characterization of Mixed (TiO ₂) _x (ZrO ₂) _y (SiO ₂) _{1-x-y} Sol-Gels (0.05 ≤ x, y ≤ 0.15) by a Combination of X-ray and Spectroscopy Techniques. Journal of Physical Chemistry B, 2003, 107, 7557-7566.	2.6	15
103	Structural characterization of titanium-doped Bioglass using isotopic substitution neutron diffraction. Physical Chemistry Chemical Physics, 2012, 14, 15807.	2.8	15
104	A survey for variable young stars with small telescopes: First results from HOYS-CAPS. Monthly Notices of the Royal Astronomical Society, 2018, 478, 5091-5103.	4.4	15
105	Structural studies of amorphous Si ₃ Ni ₂ H. Journal of Non-Crystalline Solids, 1989, 113, 41-50.	3.1	14
106	A neutron and X-ray diffraction study of the influence of deposition conditions on the structure of a-C:H. Journal of Non-Crystalline Solids, 1996, 197, 41-52.	3.1	14
107	In situ EXAFS and XANES measurements of the change in Ti coordination during the calcination of a (TiO ₂) _{0.18} (SiO ₂) _{0.82} aerogel. Journal of Physics Condensed Matter, 2000, 12, 9751-9760.	1.8	14
108	The neutron diffraction anomalous dispersion technique and its application to vitreous Sm ₂ O ₃ -4P ₂ O ₅ . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 622-635.	1.6	14

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109	A molecular dynamics model of the atomic structure of dysprosium aluminophosphate glass. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 075102.	1.8	14
110	Probing vibrational modes in silica glass using inelastic neutron scattering with mass contrast. <i>Physical Review B</i> , 2010, 81, .	3.2	14
111	Structural studies of amorphous Ge-Au alloys. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1991, 63, 457-463.	0.6	13
112	A reverse Monte Carlo modelling study of amorphous hydrogenated carbon. <i>Physica Scripta</i> , 1995, T57, 137-141.	2.5	13
113	Inhomogeneities in acid-catalyzed titania-silica and zirconia-silica xerogels as revealed by small-angle x-ray scattering. <i>Journal of Materials Research</i> , 2000, 15, 1998-2005.	2.6	13
114	Sol-gel preparation and high-energy XRD study of $(\text{CaO})_x(\text{TiO}_2)_{0.5-x}(\text{P}_2\text{O}_5)_{0.5}$ glasses ($x=0$ and 0.25). <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1661-1668.	3.6	13
115	Characterisation of sol-gel prepared $(\text{HfO}_2)_x(\text{SiO}_2)_{1-x}$ ($x=0.1, 0.2$ and 0.4) by ^1H , ^{13}C , ^{17}O and ^{29}Si MAS NMR, FTIR and TGA. <i>Solid State Nuclear Magnetic Resonance</i> , 2008, 33, 16-24.	2.3	13
116	The effect of temperature on the structure of amorphous hydrogenated carbon. <i>Physica Scripta</i> , 1995, T57, 142-145.	2.5	12
117	The structural characterization of amorphous thin films and coatings in their as-deposited state using x-rays at shallow angles of incidence. <i>Journal of Materials Research</i> , 1997, 12, 264-276.	2.6	12
118	Sol-gel produced sodium calcium phosphosilicates for bioactive applications: Synthesis and structural characterisation. <i>Materials Chemistry and Physics</i> , 2011, 130, 690-696.	4.0	12
119	Detection of structural heterogeneity in amorphous-C:H films by NMR. <i>Thin Solid Films</i> , 1993, 227, 3-6.	1.8	11
120	An X-ray absorption study of doped silicate glass, fibre optic preforms. <i>Journal of Materials Science</i> , 1996, 31, 485-490.	3.7	11
121	The role of titanium in : mixed sol-gels: an x-ray and neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 4001-4016.	1.8	11
122	A comparative study of the structure of sodium borophosphates made by sol-gel and melt-quench methods. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 490-494.	3.1	11
123	Structural study of $\text{Al}_2\text{O}_3\text{-Na}_2\text{O-CaO-P}_2\text{O}_5$ bioactive glasses as a function of aluminium content. <i>Journal of Chemical Physics</i> , 2013, 138, 034501.	3.0	11
124	A high-resolution neutron-diffraction study of the structure of amorphous hydrogenated carbon, a-C:H. <i>Journal of Physics Condensed Matter</i> , 1993, 5, L387-L392.	1.8	10
125	Role of titanium in $\text{TiO}_2\text{:SiO}_2$ sol-gels: an X-ray diffraction study. <i>Journal of Materials Chemistry</i> , 1996, 6, 337-342.	6.7	10
126	A new approach to modelling tetrahedral amorphous carbon. <i>Journal of Physics Condensed Matter</i> , 1997, 9, L457-L463.	1.8	10

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127	<i>In situ</i> high-energy X-ray diffraction study of a bioactive calcium silicate foam immersed in simulated body fluid. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 492-499.	2.4	10
128	A Reverse Monte Carlo Modeling Study of Diamond-like Carbon. <i>Journal of the Electrochemical Society</i> , 1996, 143, 292-296.	2.9	9
129	The effect of hydrogen dilution on the structure of a-C:H. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 4161-4176.	1.8	9
130	<i>In situ</i> high temperature x-ray diffraction measurements on a (TiO ₂) _{0.18} (SiO ₂) _{0.82} xerogel using a curved image-plate. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 3521-3529.	1.8	9
131	<i>In vitro</i> changes in the structure of a bioactive calcium-silica sol-gel glass explored using isotopic substitution in neutron diffraction. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1854-1859.	3.1	9
132	An X-ray absorption spectroscopy study of the local environment of iron in degradable iron-phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5542-5546.	3.1	9
133	Effects of rare-earth co-doping on the local structure of rare-earth phosphate glasses using high and low energy X-ray diffraction. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8529.	2.8	9
134	Bioactive Sol-Gel Glasses at the Atomic Scale: The Complementary Use of Advanced Probe and Computer Modeling Methods. <i>International Journal of Applied Glass Science</i> , 2016, 7, 147-153.	2.0	9
135	The effect of hydrogen dilution on the interatomic bonding of amorphous hydrogenated silicon: carbon. <i>Journal of Non-Crystalline Solids</i> , 1994, 169, 54-63.	3.1	8
136	An investigation of the structure of amorphous Si _{1-x} N _x through the metal-insulator transition. <i>Physica B: Condensed Matter</i> , 1989, 158, 600-601.	2.7	7
137	New insights into medium-range order around titanium in sol-gel derived silica through isotope difference neutron diffraction and reverse Monte Carlo modelling. <i>Chemical Physics Letters</i> , 2004, 392, 503-507.	2.6	7
138	The resistivity and thermoelectric power of liquid Ag-Pd alloys. <i>Journal of Physics F: Metal Physics</i> , 1981, 11, 2539-2548.	1.6	6
139	Neutron and x-ray diffraction studies of a-C:N:H. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 4739-4750.	1.8	6
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