Elliot Gilbert

List of Publications by Citations

168 papers	5,040 citations	37 h-index	64 g-index
175 ext. papers	5,764 ext. citations	5.8 avg, IF	5.86 L-index

#	Paper	IF	Citations
168	A novel approach for calculating starch crystallinity and its correlation with double helix content: a combined XRD and NMR study. *Biopolymers*, **2008**, 89, 761-8	2.2	434
167	Application of small-angle X-ray and neutron scattering techniques to the characterisation of starch structure: A review. *Carbohydrate Polymers*, **2011**, 85, 281-293	10.3	236
166	Effect of enzymatic hydrolysis on native starch granule structure. *Biomacromolecules*, **2010**, 11, 3275-89	6.9	197
165	Molecular rearrangement of starch during in vitro digestion: toward a better understanding of enzyme resistant starch formation in processed starches. *Biomacromolecules*, **2008**, 9, 1951-8	6.9	173
164	Effects of processing high amylose maize starches under controlled conditions on structural organisation and amylase digestibility. *Carbohydrate Polymers*, **2009**, 75, 236-245	10.3	156
163	QuokkaThe small-angle neutron scattering instrument at OPAL. *Physica B: Condensed Matter*, **2006**, 385-386, 1180-1182	2.8	131
162	Fast-forming hydrogel with ultralow polymeric content as an artificial vitreous body. *Nature Biomedical Engineering*, **2017**, 1,	19	113
161	QUOKKA, the pinhole small-angle neutron scattering instrument at the OPAL Research Reactor, Australia: design, performance, operation and scientific highlights. *Journal of Applied Crystallography*, **2018**, 51, 294-314	3.8	103
160	Structure–function relationships in A and B granules from wheat starches of similar amylose content. *Carbohydrate Polymers*, **2009**, 75, 420-427	10.3	102
159	New insights on the mechanism of acid degradation of pea starch. *Carbohydrate Polymers*, **2012**, 87, 1941-1949	10.3	99
158	Influence of storage conditions on the structure, thermal behavior, and formation of enzyme-resistant starch in extruded starches. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 9883-90	5.7	99
157	Relations between molecular, crystalline, and lamellar structures of amylopectin. *Biomacromolecules*, **2012**, 13, 4273-82	6.9	95
156	Molecular, mesoscopic and microscopic structure evolution during amylase digestion of maize starch granules. *Carbohydrate Polymers*, **2012**, 90, 23-33	10.3	94
155	Effect of inulin soluble dietary fibre addition on technological, sensory, and structural properties of durum wheat spaghetti. *Food Chemistry*, **2012**, 132, 993-1002	8.5	82
154	Hidden amorphous phase and reentrant supercooled liquid in Pd-Ni-P metallic glasses. *Nature Communications*, **2017**, 8, 14679	17.4	75
153	Enzyme resistance and structural organization in extruded high amylose maize starch. *Carbohydrate Polymers*, **2010**, 80, 699-710	10.3	73
152	Application of X-ray and neutron small angle scattering techniques to study the hierarchical structure of plant cell walls: a review. *Carbohydrate Polymers*, **2015**, 125, 120-34	10.3	70

151	Glucan affinity of starch synthase IIa determines binding of starch synthase I and starch-branching enzyme IIb to starch granules. *Biochemical Journal*, **2012**, 448, 373-87	3.8	70
150	Influence of extrusion and digestion on the nanostructure of high-amylose maize starch. *Biomacromolecules*, **2007**, 8, 1564-72	6.9	69
149	Reconstitution properties of micellar casein powder: Effects of composition and storage. *International Dairy Journal*, **2011**, 21, 877-886	3.5	68
148	Neutron scattering: a natural tool for food science and technology research. *Trends in Food Science and Technology*, **2009**, 20, 576-586	15.3	64
147	Skyrmion lattice structural transition in MnSi. *Science Advances*, **2017**, 3, e1602562	14.3	62
146	Structural modifications of granular starch upon acylation with short-chain fatty acids. *Food Hydrocolloids*, **2009**, 23, 1940-1946	10.6	59
145	Nonlinear Behavior of Gelatin Networks Reveals a Hierarchical Structure. *Biomacromolecules*, **2016**, 17, 590-600	6.9	58
144	Optimisation of resistant starch II and III levels in durum wheat pasta to reduce in vitro digestibility while maintaining processing and sensory characteristics. *Food Chemistry*, **2013**, 136, 1100-9	8.5	58
143	Differential effects of genetically distinct mechanisms of elevating amylose on barley starch characteristics. *Carbohydrate Polymers*, **2012**, 89, 979-91	10.3	56
142	High Internal Phase Water-in-Oil Emulsions Studied by Small-Angle Neutron Scattering. *Journal of Physical Chemistry B*, **2000**, 104, 7012-7022	3.4	53
141	Evidence for differential interaction mechanism of plant cell wall matrix polysaccharides in hierarchically-structured bacterial cellulose. *Cellulose*, **2015**, 22, 1541-1563	5.5	52
140	High Internal Phase Water-in-Oil Emulsions and Related Microemulsions Studied by Small Angle Neutron Scattering. 2. The Distribution of Surfactant. *Journal of Physical Chemistry B*, **2001**, 105, 6925-6932	3.4	52
139	Structure of casein micelles in milk protein concentrate powders viasmall angle X-ray scattering. *Soft Matter*, **2011**, 7, 3837	3.6	51
138	Characterisation of large scale structures in starch granules via small-angle neutron and X-ray scattering. *Carbohydrate Polymers*, **2013**, 91, 444-51	10.3	45
137	Structural characterization of wheat starch granules differing in amylose content and functional characteristics. *Carbohydrate Polymers*, **2009**, 75, 705-711	10.3	45
136	Structure of cellulose microfibrils in mature cotton fibres. *Carbohydrate Polymers*, **2017**, 175, 450-463	10.3	44
135	A comparison of methods for the measurement of the particle-size distribution of magnetic nanoparticles. *Journal of Applied Crystallography*, **2007**, 40, s495-s500	3.8	43
134	Hierarchical architecture of bacterial cellulose and composite plant cell wall polysaccharide hydrogels using small angle neutron scattering. *Soft Matter*, **2016**, 12, 1534-49	3.6	42

133	Structural changes from native waxy maize starch granules to cold-water-soluble pyrodextrin during thermal treatment. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 4186-94	5.7	38
132	Adsorption behaviour of polyphenols on cellulose is affected by processing history. *Food Hydrocolloids*, **2017**, 63, 496-507	10.6	38
131	Cellulose-pectin composite hydrogels: Intermolecular interactions and material properties depend on order of assembly. *Carbohydrate Polymers*, **2017**, 162, 71-81	10.3	36
130	Structural changes during starch pasting using simultaneous Rapid Visco Analysis and small-angle neutron scattering. *Carbohydrate Polymers*, **2012**, 88, 1061-1071	10.3	36
129	Multi-scale model for the hierarchical architecture of native cellulose hydrogels. *Carbohydrate Polymers*, **2016**, 147, 542-555	10.3	36
128	Processing of novel elevated amylose wheats: functional properties and starch digestibility of extruded products. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 10248-57	5.7	35
127	pH-responsive micelles based on caprylic acid. *Langmuir*, **2014**, 30, 7296-303	4	34
126	Invisible detergents for structure determination of membrane proteins by small-angle neutron scattering. *FEBS Journal*, **2018**, 285, 357-371	5.7	34
125	Disposition and crystallization of saturated fatty acid in mixed micelles of relevance to lipid digestion. *Journal of Colloid and Interface Science*, **2015**, 449, 160-6	9.3	33
124	Elucidation of density profile of self-assembled sitosterol + oryzanol tubules with small-angle neutron scattering. *Faraday Discussions*, **2012**, 158, 223-38; discussion 239-66	3.6	33
123	Characterisation of a basal-plane-oriented graphite. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 1861-1868		31
122	Organogel formation via supramolecular assembly of oleic acid and sodium oleate. *RSC Advances*, **2015**, 5, 47466-47475	3.7	30
121	Fabrication and Structural Characterization of Module-Assembled Amphiphilic Conetwork Gels. *Macromolecules*, **2016**, 49, 4940-4947	5.5	29
120	Molecular, mesoscopic and microscopic structure evolution during amylase digestion of extruded maize and high amylose maize starches. *Carbohydrate Polymers*, **2015**, 118, 224-34	10.3	29
119	Effects of monoglycerides on pasting properties of wheat starch after repeated heating and cooling. *Journal of Cereal Science*, **2011**, 54, 151-159	3.8	29
118	Molecular interactions of a model bile salt and porcine bile with (1,3:1,4)-β-glucans and arabinoxylans probed by (13)C NMR and SAXS. *Food Chemistry*, **2016**, 197, 676-85	8.5	28
117	Expanded Mesoporous Silicate Films Grown at the Air–Water Interface by Addition of Hydrocarbons. *Langmuir*, **2003**, 19, 793-800	4	28
116	Magnetization reversal in Nd-Fe-B based nanocomposites as seen by magnetic small-angle neutron scattering. *Applied Physics Letters*, **2013**, 102, 022415	3.4	27

115	Pectin impacts cellulose fibre architecture and hydrogel mechanics in the absence of calcium. *Carbohydrate Polymers*, **2016**, 153, 236-245	10.3	26
114	Microscopic Structure of the Nonswellable Thermoresponsive Amphiphilic Conetwork. *Macromolecules*, **2017**, 50, 3388-3395	5.5	24
113	Effect of amyloglucosidase hydrolysis on the multi-scale supramolecular structure of corn starch. *Carbohydrate Polymers*, **2019**, 212, 40-50	10.3	24
112	Effect of Glucan on Technological, Sensory, and Structural Properties of Durum Wheat Pasta. *Cereal Chemistry*, **2012**, 89, 84-93	2.4	24
111	The effect of acid dextrinisation on enzyme-resistant starch content in extruded maize starch. *Food Chemistry*, **2010**, 120, 140-149	8.5	24
110	The stability of binary alkane blends. *Physical Chemistry Chemical Physics*, **1999**, 1, 1517-1529	3.6	24
109	Investigation of the micro- and nano-scale architecture of cellulose hydrogels with plant cell wall polysaccharides: A combined USANS/SANS study. *Polymer*, **2016**, 105, 449-460	3.9	24
108	Adsorption isotherm studies on the interaction between polyphenols and apple cell walls: Effects of variety, heating and drying. *Food Chemistry*, **2019**, 282, 58-66	8.5	23
107	Small-angle X-Ray and neutron scattering in food colloids. *Current Opinion in Colloid and Interface Science*, **2019**, 42, 55-72	7.6	22
106	A SANS and APT study of precipitate evolution and strengthening in a maraging steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 702, 414-424	5.3	22
105	Structure and molecular mobility of soy glycinin in the solid state. *Biomacromolecules*, **2008**, 9, 2937-46	6.9	22
104	Powder Neutron Diffraction in an Applied Magnetic Field: A Novel Tool for Transition Metal Chemistry. *Inorganic Chemistry*, **1996**, 35, 545-546	5.1	22
103	Learning about SANS instruments and data reduction from round robin measurements on samples of polystyrene latex. *Journal of Applied Crystallography*, **2013**, 46, 1289-1297	3.8	21
102	Microphase separation kinetics in n-alkane mixtures. *Physical Chemistry Chemical Physics*, **1999**, 1, 2715-2724	3.6	21
101	Thermal stability and irreversibility of skyrmion-lattice phases in Cu2OSeO3. *Physical Review B*, **2017**, 95,	3.3	20
100	Structure of high internal phase aqueous-in-oil emulsions and related inverse micelle solutions. 3. Variation of surfactant. *Journal of Physical Chemistry B*, **2009**, 113, 12231-42	3.4	20
99	Rheological and structural properties of complex arabinoxylans from Plantago ovata seed mucilage under non-gelled conditions. *Carbohydrate Polymers*, **2018**, 193, 179-188	10.3	19
98	Selective deuteration for molecular insights into the digestion of medium chain triglycerides. *Chemistry and Physics of Lipids*, **2015**, 190, 43-50	3.7	18

97	Multi-scale characterisation of deuterated cellulose composite hydrogels reveals evidence for different interaction mechanisms with arabinoxylan, mixed-linkage glucan and xyloglucan. *Polymer*, **2017**, 124, 1-11	3.9	18
96	Effects of thermal denaturation on the solid-state structure and molecular mobility of glycinin. *Biomacromolecules*, **2011**, 12, 2092-102	6.9	18
95	Neutron and X-ray Reflectivity from Polyisobutylene-Based Amphiphiles at the Air/Water Interface. *Langmuir*, **2003**, 19, 752-761	4	18
94	Characterisation of bacterial cellulose from diverse Komagataeibacter strains and their application to construct plant cell wall analogues. *Cellulose*, **2017**, 24, 1211-1226	5.5	17
93	A further study on supramolecular structure changes of waxy maize starch subjected to alkaline treatment by extended-q small-angle neutron scattering. *Food Hydrocolloids*, **2019**, 95, 133-142	10.6	17
92	Magnetic SANS study of a sintered NdFeB magnet: Estimation of defect size. *Acta Materialia*, **2015**, 87, 142-149	8.4	17
91	High-amylose wheat and maize starches have distinctly different granule organization and annealing behaviour: A key role for chain mobility. *Food Hydrocolloids*, **2020**, 105, 105820	10.6	16
90	The Effect of a Two-Stage Heat-Treatment on the Microstructural and Mechanical Properties of a Maraging Steel. *Materials*, **2017**, 10,	3.5	16
89	Experimental observation of magnetic poles inside bulk magnets via ${bf q}ne 0$ Fourier modes of magnetostatic field. *New Journal of Physics*, **2014**, 16, 123031	2.9	16
88	Deuterated phytantriol - A versatile compound for probing material distribution in liquid crystalline lipid phases using neutron scattering. *Journal of Colloid and Interface Science*, **2019**, 534, 399-407	9.3	16
87	Multi-scale assembly of hydrogels formed by highly branched arabinoxylans from Plantago ovata seed mucilage studied by USANS/SANS and rheology. *Carbohydrate Polymers*, **2019**, 207, 333-342	10.3	16
86	PEGylation and surface functionalization of liposomes containing drug nanocrystals for cell-targeted delivery. *Colloids and Surfaces B: Biointerfaces*, **2019**, 182, 110362	6	14
85	Exchange-stiffness constant of a Nd-Fe-B based nanocomposite determined by magnetic neutron scattering. *Applied Physics Letters*, **2013**, 103, 122402	3.4	14
84	Evidence for perpendicular n-alkane orientation at the liquid/graphite interface. *Chemical Physics Letters*, **1994**, 227, 443-446	2.5	14
83	Nanostructure and poroviscoelasticity in cell wall materials from onion, carrot and apple: Roles of pectin. *Food Hydrocolloids*, **2020**, 98, 105253	10.6	14
82	SANS Study on Critical Polymer Clusters of Tetra-Functional Polymers. *Macromolecules*, **2017**, 50, 3655-3661	5.5	13
81	Relating Structure to Efficiency in Surfactant-Free Polymer/Fullerene Nanoparticle-Based Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 42986-42995	9.5	13
80	Small-angle X-ray scattering study of the effect of pH and salts on 11S soy glycinin in the freeze-dried powder and solution states. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 967-74	5.7	13

79	Structure of high internal phase aqueous-in-oil emulsions and related inverse micelle solutions. 4. Surfactant mixtures. *Journal of Physical Chemistry B*, **2009**, 113, 12243-56	3.4	13
78	Structure of Polyelectrolyte Chains Confined in Nanoporous Glass. *Macromolecules*, **2001**, 34, 4942-4948	5.5	13
77	Incommensurate modulation in phase separating binary paraffin mixtures. *Physical Chemistry Chemical Physics*, **1999**, 1, 5209	3.6	13
76	Small-angle neutron scattering study of coercivity enhancement in grain-boundary-diffused NdFeB sintered magnets. *Journal of Alloys and Compounds*, **2016**, 677, 139-142	5.7	13
75	Evidence for the formation of nanoprecipitates with magnetically disordered regions in bulk Ni50Mn45In5 Heusler alloys. *Physical Review B*, **2019**, 99,	3.3	12
74	Advanced structural characterisation of agar-based hydrogels: Rheological and small angle scattering studies. *Carbohydrate Polymers*, **2020**, 236, 115655	10.3	12
73	Interfacial Structures of Droplet-Stabilized Emulsions Formed with Whey Protein Microgel Particles as Revealed by Small- and Ultra-Small-Angle Neutron Scattering. *Langmuir*, **2019**, 35, 12017-12027	4	12
72	Small angle X-ray scattering from phase separating n-paraffin binary mixtures. *Molecular Physics*, **1997**, 91, 1025-1038	1.7	12
71	Influence of molecular weight on PNIPAM brush modified colloidal silica particles. *Soft Matter*, **2018** , 15, 55-64	3.6	11
70	Clustering of High Molecular Weight PCDTBT in Bulk-Heterojunction Casting Solutions. *Macromolecules*, **2015**, 48, 8331-8336	5.5	11
69	Pore anisotropy in unconventional hydrocarbon source rocks: A small-angle neutron scattering (SANS) study on the Arthur Creek Formation, Georgina Basin, Australia. *International Journal of Coal Geology*, **2020**, 225, 103495	5.5	11
68	Magnetic scattering in the simultaneous measurement of small-angle neutron scattering and Bragg edge transmission from steel. *Journal of Applied Crystallography*, **2016**, 49, 1659-1664	3.8	11
67	Magnetic microstructure of a textured NdFeB sintered magnet characterized by small-angle neutron scattering. *Journal of Alloys and Compounds*, **2016**, 661, 110-114	5.7	11
66	Insight into the Microscopic Structure of Module-Assembled Thermoresponsive Conetwork Hydrogels. *Macromolecules*, **2018**, 51, 6645-6652	5.5	11
65	Application of small-angle scattering to study the effects of moisture content on a native soy protein. *Journal of Applied Crystallography*, **2008**, 41, 628-633	3.8	11
64	Probing Soft Corona Structures of DNA-Capped Nanoparticles by Small Angle Neutron Scattering. *Journal of Physical Chemistry C*, **2015**, 119, 18773-18778	3.8	10
63	Precipitation in a novel maraging steel F1E: A study of austenitization and aging using small angle neutron scattering. *Materials Characterization*, **2017**, 129, 270-281	3.9	10
62	Velocity-averaging effects on polarisation measurements in hot atom reactions. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 1527		10

61	Fingerprint of hydrocarbon generation in the southern Georgina Basin, Australia, revealed by small angle neutron scattering. *International Journal of Coal Geology*, **2018**, 186, 135-144	5.5	10
60	The Curious Case of the OZ439 Mesylate Salt: An Amphiphilic Antimalarial Drug with Diverse Solution and Solid State Structures. *Molecular Pharmaceutics*, **2018**, 15, 2027-2035	5.6	9
59	Design and implementation of a differential scanning calorimeter for the simultaneous measurement of small angle neutron scattering. *Measurement Science and Technology*, **2014**, 25, 055606	2	9
58	Nanostructure of PEO-polyurethane-PEO triblock copolymer micelles in water. *Journal of Colloid and Interface Science*, **2010**, 344, 81-9	9.3	9
57	n-Paraffin solid solutions: modification of phase separation with carbon number. *Chemical Physics Letters*, **1996**, 255, 373-377	2.5	9
56	Structural Analysis of Lipophilic Polyelectrolyte Solutions and Gels in Low-Polar Solvents. *Macromolecules*, **2015**, 48, 3613-3621	5.5	8
55	Small angle neutron scattering quantifies the hierarchical structure in fibrous calcium caseinate. *Food Hydrocolloids*, **2020**, 106, 105912	10.6	8
54	Induced structural changes at aliphatic hydrocarbon□graphite interfaces. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1998**, 141, 81-100	5.1	8
53	Microphase Separation in Graphite-Adsorbed Paraffin Solid Solutions. *The Journal of Physical Chemistry*, **1996**, 100, 18201-18213		8
52	Neutron scattering shows a droplet of oleic acid at the center of the BAMLET complex. *Proteins: Structure, Function and Bioinformatics*, **2017**, 85, 1371-1378	4.2	7
51	Multiple magnetic scattering in small-angle neutron scattering of Nd-Fe-B nanocrystalline magnet. *Scientific Reports*, **2016**, 6, 28167	4.9	7
50	Dynamics of Critical Clusters Synthesized by End-Coupling of Four-Armed Poly(ethylene glycol)s. *Macromolecules*, **2019**, 52, 5086-5094	5.5	7
49	Organization of mixed dimethyldioctadecylammonium and choline modifiers on the surface of synthetic hectorite. *Journal of Colloid and Interface Science*, **2013**, 409, 72-9	9.3	7
48	Quokka: The Small-Angle Neutron Scattering Instrument. *Neutron News*, **2009**, 20, 24-28	0.4	7
47	Phase Separation in the Organic Solid State: The Influence of Quenching Protocol in Unstable n-Alkane Blends. *Molecular Crystals and Liquid Crystals*, **2005**, 440, 93-105	0.5	7
46	Modified porous Nafion□ : Membrane characterization and two-phase separations?. *Journal of Membrane Science*, **2006**, 281, 268-273	9.6	7
45	Structural Analysis of Ultrasoft PDMS-g-PDMS Shell-Only Particles. *Macromolecules*, **2020**, 53, 78-89	5.5	7
44	Structure, morphology and annealing behavior of ion tracks in polycarbonate. *European Polymer Journal*, **2018**, 108, 406-411	5.2	7

43	Quantitative Structure Analysis of a Near-Ideal Polymer Network with Deuterium Label by Small-Angle Neutron Scattering. *Macromolecules*, **2020**, 53, 4047-4054	5.5	6
42	Dynamical transition in a large globular protein: Macroscopic properties and glass transition. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2010**, 1804, 34-40	4	6
41	Application of small-angle scattering to the study of graphite-adsorbed hydrocarbons. *Journal of Applied Crystallography*, **2000**, 33, 744-748	3.8	6
40	Effect of NaCl and CaCl2 concentration on the rheological and structural characteristics of thermally-induced quinoa protein gels. *Food Hydrocolloids*, **2022**, 124, 107350	10.6	6
39	Pore accessibility and trapping of methane in Marcellus Shale. *International Journal of Coal Geology*, **2021**, 248, 103850	5.5	6
38	Effect of genipin cross-linking on the structural features of skim milk in the presence of ethylenediaminetetraacetic acid (EDTA). *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 603, 125174	5.1	5
37	Extended Q-range small angle neutron scattering from inverse micellar solutions of PIBSA□Micelle and molecular scattering. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 418, 157-164	5.1	5
36	Anin siturapid heat□uench cell for small-angle neutron scattering. *Measurement Science and Technology*, **2008**, 19, 065707	2	5
35	Anomalous magnetic anisotropy and magnetic nanostructure in pure Fe induced by high-pressure torsion straining. *Physical Review Research*, **2020**, 2,	3.9	5
34	Revealing defect-induced spin disorder in nanocrystalline Ni. *Physical Review Materials*, **2021**, 5,	3.2	5
33	Energy-resolved small-angle neutron scattering from steel. *Journal of Applied Crystallography*, **2017**, 50, 334-339	3.8	4
32	Quantitative Phase Analysis of Complex Fats during Crystallization. *Crystal Growth and Design*, **2020**, 20, 5193-5202	3.5	4
31	Small-Angle Neutron Scattering Studies on the Multilamellae Formed by Mixing Lamella-Forming Cationic Diblock Copolymers with Lipids and Their Interaction with DNA. *Langmuir*, **2016**, 32, 1828-35	4	4
30	Characterisation Techniques in Food Materials Science **2012**, 52-93		4
29	Effect of porous waxy rice starch addition on acid milk gels: Structural and physicochemical functionality. *Food Hydrocolloids*, **2020**, 109, 106092	10.6	3
28	Impact of minute-time-scale kinetics on the stabilization of the skyrmion-lattice in Cu2OSeO3. *Journal of Physics: Conference Series*, **2017**, 828, 012004	0.3	3
27	Neutrons and food: barriers and opportunities. *Neutron News*, **2012**, 23, 14-18	0.4	2
26	Neutron depolarization studies of Pd□Ni□e□ alloy. *Physica B: Condensed Matter*, **2007**, 397, 30-32	2.8	2

25	Small angle neutron scattering research at ANSTO. *Neutron News*, **2003**, 14, 27-31	0.4	2
24	Deformation of pores in response to uniaxial and hydrostatic stress cycling in Marcellus Shale: Implications for gas recovery. *International Journal of Coal Geology*, **2021**, 248, 103867	5.5	2
23	Small angle X-ray scattering from phase separating n-paraffin binary mixtures. *Molecular Physics*, **1997**, 91, 1025-1037	1.7	2
22	Structural Insights into the Mechanism of Heat-Set Gel Formation of Polyisocyanopeptide Polymers. *Macromolecular Rapid Communications*, **2020**, 41, e2000304	4.8	2
21	Understanding CGTase action through the relationship between starch structure and cyclodextrin formation. *Food Hydrocolloids*, **2021**, 112, 106316	10.6	2
20	Role of higher-order effects in spin-misalignment small-angle neutron scattering of high-pressure torsion nickel. *Physical Review Materials*, **2021**, 5,	3.2	2
19	Application of Time-Resolved Small Angle Neutron Scattering to Non-Equilibrium Kinetic Studies. *Neutron Scattering Applications and Techniques*, **2012**, 289-318		2
18	Small angle scattering (SAS) techniques for analysis of nanoencapsulated food ingredients **2020**, 459-502		1
17	SAS2012 □15th International Small-Angle Scattering Conference. *Neutron News*, **2013**, 24, 13-14	0.4	1
16	Superstructure phase in the binary C28H58:C36H/D74system. *Journal of Applied Crystallography*, **2007**, 40, 51-55	3.8	1
15	Confinement of neutral and charged polymer chains in nanoporous glass. *Physica A: Statistical Mechanics and Its Applications*, **2002**, 304, 244-248	3.3	1
14	In situ neutron scattering studies of a liquid□liquid phase transition in the supercooled liquid of a Zr□Cu□Al□Ag glass-forming alloy. *Applied Physics Letters*, **2021**, 118, 191901	3.4	1
13	Continuous chemical redistribution following amorphous-to-crystalline structural ordering in a Zr-Cu-Al bulk metallic glass. *Journal of Materials Science and Technology*, **2022**, 101, 285-293	9.1	1
12	Small-angle X-ray scattering (SAXS) and small-angle neutron scattering (SANS) study on the structure of sodium caseinate in dispersions and at the oil-water interface: Effect of calcium ions. *Food Structure*, **2022**, 32, 100276	4.3	1
11	Networking Aplenty at □Neutrons and Food□in Sydney. *Neutron News*, **2019**, 30, 5-8	0.4	0
10	Effect of post annealing on microstructure and mechanical properties in Ni-free N-containing ODS steel. *Materials Characterization*, **2019**, 153, 339-347	3.9	0
9	Microstructure evolution of alloy 709 during static-aging and creep-fatigue testing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 801, 140361	5.3	0
8	Assessment of starch branching and lamellar structure in rice flours. *Food Structure*, **2021**, 29, 100201	4.3	0

7	Small-angle neutron scattering reveals basis for composition dependence of gel behaviour in oleic acid - sodium oleate oleogels. *Innovative Food Science and Emerging Technologies*, **2021**, 73, 102763	6.8	0
6	Nanoscale Structures of Poly(oligo ethylene glycol methyl ether methacrylate) Hydrogels Revealed by Small-Angle Neutron Scattering. *Macromolecules*, **2022**, 55, 1844-1854	5.5	0
5	Accessibility of Pores to Methane in New Albany Shale Samples of Varying Maturity Determined Using SANS and USANS. *Energies*, **2021**, 14, 8438	3.1	0
4	Introduction to the special issue for the 15th International Conference on Small-Angle Scattering (SAS2012). *Journal of Applied Crystallography*, **2014**, 47, 1-3	3.8	
3	Correlation of thermostability and conformational changes of catechol 2, 3-dioxygenases from two disparate micro-organisms. *Biophysical Chemistry*, **2013**, 180-181, 145-52	3.5	
2	Modulated structure formation in demixing paraffin blends. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s339-s341	2.6	
1	Structure of Charged Polymer Chains in Confined Geometry. *Materials Research Society Symposia Proceedings*, **2000**, 651, 1		