Andrew J Smith

List of Publications by Year
in descending order

47 papers	1,852 citations	331670 21 h-index	265206 42 g-index
50 all docs	50 docs citations	50 times ranked	3060 citing authors

#	Article	IF	Citations
1	Controlling Selfâ€Sorting versus Coâ€assembly in Supramolecular Gels. ChemSystemsChem, 2022, 4, .	2.6	8
2	<i>In Situ</i> and <i>Ex Situ</i> X-ray Diffraction and Small-Angle X-ray Scattering Investigations of the Solâ€“Gel Synthesis of Fe₃N and Fe₃C. Inorganic Chemistry, 2022, 61, 6742-6749.	4.0	3
3	Towards understanding mesopore formation in zeolite Y crystals using alkaline additives via in situ small-angle X-ray scattering. Microporous and Mesoporous Materials, 2022, 338, 111867.	4.4	3
4	Programming Gels Over a Wide pH Range Using Multicomponent Systems. Angewandte Chemie - International Edition, 2021, 60, 9973-9977.	13.8	40
5	I22: SAXS/WAXS beamline at Diamond Light Source â€“ an overview of 10 years operation. Journal of Synchrotron Radiation, 2021, 28, 939-947.	2.4	42
6	Extending synchrotron SAXS instrument ranges through addition of a portable, inexpensive USAXS module with vertical rotation axes. Journal of Synchrotron Radiation, 2021, 28, 824-833.	2.4	6
7	Mixed hierarchical local structure in a disordered metalâ€“organic framework. Nature Communications, 2021, 12, 2062.	12.8	44
8	Impact of subtle change in branched amino acid on the assembly and properties of perylene bisimides hydrogels. Materials Advances, 2021, 2, 5248-5253.	5.4	6
9	Self-assembled poly-catenanes from supramolecular toroidal building blocks. Nature, 2020, 583, 400-405.	27.8	177
10	Controlling Protein Nanocage Assembly with Hydrostatic Pressure. Journal of the American Chemical Society, 2020, 142, 20640-20650.	13.7	17
11	A facile method for generating worm-like micelles with controlled lengths and narrow polydispersity. Chemical Communications, 2020, 56, 7463-7466.	4.1	9
12	Ensilicated tetanus antigen retains immunogenicity: in vivo study and time-resolved SAXS characterization. Scientific Reports, 2020, 10, 9243.	3.3	14
13	Ionic and Nonspherical Polymer Nanoparticles in Nonpolar Solvents. Macromolecules, 2020, 53, 3148-3156.	4.8	9
14	In Situ Monitoring of Nanoparticle Formation during Iridiumâ€Catalysed Oxygen Evolution by Realâ€Time Small Angle Xâ€Ray Scattering. ChemCatChem, 2019, 11, 5313-5321.	3.7	0
15	Assessing molecular simulation for the analysis of lipid monolayer reflectometry. Journal of Physics Communications, 2019, 3, 075001.	1.2	9
16	Structural Evidence That the Polymerization Rate Dictates Order and Intrinsic Strain Generation in Photocured Methacrylate Biomedical Polymers. Macromolecules, 2019, 52, 5377-5388.	4.8	12
17	Association and relaxation of supra-macromolecular polymers. Soft Matter, 2019, 15, 5296-5307.	2.7	12
18	Amorphous Mgâ€“Fe silicates from microwave-dried solâ€“gels. Astronomy and Astrophysics, 2019, 624, A136.	5.1	1

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19	Flux melting of metalâ€“organic frameworks. Chemical Science, 2019, 10, 3592-3601.	7.4	67
20	A guide to high-efficiency chromium (III)-collagen cross-linking: Synchrotron SAXS and DSC study. International Journal of Biological Macromolecules, 2019, 126, 123-129.	7.5	24
21	Nuclear magnetic resonance and small-angle X-ray scattering studies of mixed sodium dodecyl sulfate and N,N-dimethyldodecylamine N-oxide aqueous systems performed at low temperatures. Journal of Colloid and Interface Science, 2019, 535, 1-7.	9.4	12
22	Controlled Structure Evolution of Graphene Networks in Polymer Composites. Chemistry of Materials, 2018, 30, 1524-1531.	6.7	24
23	Structure and Stability of PEGâ€•and Mixed PEGâ€Layerâ€Coated Nanoparticles at High Particle Concentrations Studied In Situ by Smallâ€Angle Xâ€Ray Scattering. Particle and Particle Systems Characterization, 2018, 35, 1700319.	2.3	17
24	Synthesis and Characterization of Platinum Nanoparticle Catalysts Capped with Isolated Zinc Species in SBA-15 cChannels: The Wall Effect. ACS Applied Nano Materials, 2018, 1, 6603-6612.	5.0	7
25	Metal-organic framework glasses with permanent accessible porosity. Nature Communications, 2018, 9, 5042.	12.8	147
26	Tuning the Mechanical Response of Metalâ€“Organic Frameworks by Defect Engineering. Journal of the American Chemical Society, 2018, 140, 11581-11584.	13.7	82
27	The impact of N,N-dimethyldodecylamine N-oxide (DDAO) concentration on the crystallisation of sodium dodecyl sulfate (SDS) systems and the resulting changes to crystal structure, shape and the kinetics of crystal growth. Journal of Colloid and Interface Science, 2018, 527, 260-266.	9.4	12
28	Highly Ordered Titanium Dioxide Nanostructures via a Simple One-Step Vapor-Inclusion Method in Block Copolymer Films. ACS Applied Nano Materials, 2018, 1, 3426-3434.	5.0	16
29	Probing multi-scale mechanics of peripheral nerve collagen and myelin by X-ray diffraction. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 87, 205-212.	3.1	8
30	Liquid phase blending of metal-organic frameworks. Nature Communications, 2018, 9, 2135.	12.8	69
31	The modular small-angle X-ray scattering data correction sequence. Journal of Applied Crystallography, 2017, 50, 1800-1811.	4.5	82
32	Processing two-dimensional X-ray diffraction and small-angle scattering data in <i>DAWN 2</i>. Journal of Applied Crystallography, 2017, 50, 959-966.	4.5	356
33	Microwave-assisted deep eutectic-solvothermal preparation of iron oxide nanoparticles for photoelectrochemical solar water splitting. Journal of Materials Chemistry A, 2017, 5, 16189-16199.	10.3	40
34	Microfluidic SAXS Study of Lamellar and Multilamellar Vesicle Phases of Linear Sodium Alkylbenzenesulfonate Surfactant with Intrinsic Isomeric Distribution. Langmuir, 2016, 32, 5852-5861.	3.5	41
35	Combined pressure and temperature denaturation of ribonuclease A produces alternate denatured states. Biochemical and Biophysical Research Communications, 2016, 473, 834-839.	2.1	3
36	Probing multi-scale mechanical damage in connective tissues using X-ray diffraction. Acta Biomaterialia, 2016, 45, 321-327.	8.3	19

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37	In situ small-angle X-ray scattering studies of sterically-stabilized diblock copolymer nanoparticles formed during polymerization-induced self-assembly in non-polar media. Chemical Science, 2016, 7, 5078-5090.	7.4	130
38	Tuning the Interaction of Nanoparticles from Repulsive to Attractive by Pressure. Journal of Physical Chemistry C, 2016, 120, 19856-19861.	3.1	19
39	Simultaneous SAXS and SANS Analysis for the Detection of Toroidal Supramolecular Polymers Composed of Noncovalent Supermacrocycles in Solution. Angewandte Chemie - International Edition, 2016, 55, 9890-9893.	13.8	58
40	Hydrophilic nanoparticles stabilising mesophase curvature at low concentration but disrupting mesophase order at higher concentrations. Soft Matter, 2016, 12, 6049-6057.	2.7	14
41	Spatially modulated structural colour in bird feathers. Scientific Reports, 2015, 5, 18317.	3.3	41
42	Star Diblock Copolymer Concentration Dictates the Degree of Dispersion of Carbon Black Particles in Nonpolar Media: Bridging Flocculation versus Steric Stabilization. Macromolecules, 2015, 48, 3691-3704.	4.8	22
43	<i>In situ</i> X-ray scattering evaluation of heat-induced ultrastructural changes in dental tissues and synthetic hydroxyapatite. Journal of the Royal Society Interface, 2014, 11, 20130928.	3.4	24
44	Formation of Stable Uranium(VI) Colloidal Nanoparticles in Conditions Relevant to Radioactive Waste Disposal. Langmuir, 2014, 30, 14396-14405.	3.5	47
45	Tuning the critical gelation temperature of thermo-responsive diblock copolymer worm gels. Polymer Chemistry, 2014, 5, 6307-6317.	3.9	44
46	Tracking the structural changes in pure and heteroatom substituted aluminophosphate, AlPO-18, using synchrotron based X-ray diffraction techniques. Physical Chemistry Chemical Physics, 2013, 15, 11766.	2.8	7
47	Zeolite films: a new synthetic approach. Journal of Materials Chemistry A, 2013, 1, 1388-1393.	10.3	5