

Gwendolyn Lawrie

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

3,210
citations

279778

23
h-index

155644

55
g-index

71
all docs

71
docs citations

71
times ranked

4417
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions between Alginate and Chitosan Biopolymers Characterized Using FTIR and XPS. <i>Biomacromolecules</i> , 2007, 8, 2533-2541.	5.4	1,062
2	Degradable alginate hydrogels crosslinked by the macromolecular crosslinker alginate dialdehyde. <i>Journal of Materials Chemistry</i> , 2012, 22, 9751.	6.7	110
3	Evaluation of the impact of freezing preparation techniques on the characterisation of alginate hydrogels by cryo-SEM. <i>European Polymer Journal</i> , 2016, 82, 1-15.	5.4	98
4	Phosphorylation of Alginate: Synthesis, Characterization, and Evaluation of in Vitro Mineralization Capacity. <i>Biomacromolecules</i> , 2011, 12, 889-897.	5.4	95
5	Optical barcoding of colloidal suspensions: applications in genomics, proteomics and drug discovery. <i>Chemical Communications</i> , 2002, , 1435-1441.	4.1	74
6	Quantitative Analysis and Characterization of Biofunctionalized Fluorescent Silica Particles. <i>Langmuir</i> , 2006, 22, 2731-2737.	3.5	64
7	Porous functionalised silica particles: a potential platform for biomolecular screening. <i>Chemical Communications</i> , 2005, , 848.	4.1	54
8	Is the undergraduate research experience (URE) always best?: The power of choice in a bifurcated practical stream for a large introductory biochemistry class. <i>Biochemistry and Molecular Biology Education</i> , 2012, 40, 46-62.	1.2	52
9	Interactions between Chitosan and Alginate Dialdehyde Biopolymers and Their Layer-by-Layer Assemblies. <i>Biomacromolecules</i> , 2015, 16, 1807-1817.	5.4	50
10	Optical encoding of microbeads for gene screening: alternatives to microarrays. <i>Drug Discovery Today</i> , 2001, 6, 19-26.	6.4	49
11	Fluorescent organosilica micro- and nanoparticles with controllable size. <i>Journal of Colloid and Interface Science</i> , 2007, 310, 144-150.	9.4	48
12	Synthesis of Optically Complex Core-Shell Colloidal Suspensions: Pathways to Multiplexed Biological Screening. <i>Advanced Functional Materials</i> , 2003, 13, 887-896.	14.9	46
13	Do We Need to Design Course-Based Undergraduate Research Experiences for Authenticity?. <i>CBE Life Sciences Education</i> , 2016, 15, ar79.	2.3	44
14	Octadecanol Monolayers: The Phase Diagram. <i>Journal of Colloid and Interface Science</i> , 1994, 162, 36-44.	9.4	37
15	Exploration of learner-content interactions and learning approaches: The role of guided inquiry in the self-directed online environments. <i>Computers and Education</i> , 2022, 178, 104398.	8.3	34
16	Insights into how academics reframed their assessment during a pandemic: disciplinary variation and assessment as afterthought. <i>Assessment and Evaluation in Higher Education</i> , 2022, 47, 588-605.	5.6	31
17	A novel strategy for preparing mechanically robust ionically cross-linked alginate hydrogels. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 025010.	3.3	30
18	The structure of mixed monolayer films of DPPC and hexadecanol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 171, 217-224.	4.7	29

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19	Emulsion strategies in the microencapsulation of cells: Pathways to thin coherent membranes. <i>Biotechnology and Bioengineering</i> , 2005, 92, 45-53.	3.3	29
20	Atomic force microscopy studies of Bowen Basin coal macerals. <i>Fuel</i> , 1997, 76, 1519-1526.	6.4	28
21	Synthesis and characterization of alginate/poly-L-ornithine/alginate microcapsules for local immunosuppression. <i>Journal of Microencapsulation</i> , 2008, 25, 387-398.	2.8	27
22	Tailoring Surface Properties To Build Colloidal Diagnostic Devices: Controlling Interparticle Associations. <i>Langmuir</i> , 2006, 22, 497-505.	3.5	25
23	Spreading properties of dimyristoyl phosphatidylcholine at the air/water interface. <i>Chemistry and Physics of Lipids</i> , 1996, 79, 1-8.	3.2	23
24	A structural study of hybrid organosilica materials for colloid-based DNA biosensors. <i>Journal of Materials Chemistry</i> , 2008, 18, 523-529.	6.7	23
25	Student conceptions about energy transformations: progression from general chemistry to biochemistry. <i>Chemistry Education Research and Practice</i> , 2014, 15, 168-183.	2.5	22
26	Encapsulation of a glycosaminoglycan in hydroxyapatite/alginate capsules. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 866-877.	4.0	20
27	On-the-fly optical encoding of combinatorial peptide libraries for profiling of protease specificity. <i>Molecular BioSystems</i> , 2010, 6, 225-233.	2.9	19
28	A Mechanism for Forming Large Fluorescent Organo-Silica Particles: Potential Supports for Combinatorial Synthesis. <i>Chemistry of Materials</i> , 2006, 18, 6163-6169.	6.7	18
29	Wiki Laboratory Notebooks: Supporting Student Learning in Collaborative Inquiry-Based Laboratory Experiments. <i>Journal of Science Education and Technology</i> , 2016, 25, 394-409.	3.9	17
30	Evaluation of diagnostic tools that tertiary teachers can apply to profile their students' conceptions. <i>International Journal of Science Education</i> , 2017, 39, 565-586.	1.9	17
31	Dimyristoyl phosphatidylcholine: equilibrium spreading behaviour. <i>Thin Solid Films</i> , 1994, 242, 201-207.	1.8	15
32	Synthesis and Application of FRET Nanoparticles in the Profiling of a Protease. <i>Small</i> , 2009, 5, 2053-2056.	10.0	15
33	Self-assembled films of dimyristoylphosphatidylcholine. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 155, 69-84.	4.7	13
34	Development of a multiplexed bead-based assay for detection of DNA methylation in cancer-related genes. <i>Molecular BioSystems</i> , 2009, 5, 262-268.	2.9	13
35	Evaluating articles submitted for publication in <i>Chemistry Education Research and Practice</i> . <i>Chemistry Education Research and Practice</i> , 2019, 20, 335-339.	2.5	13
36	Student Self-perception on Digital Literacy in STEM Blended Learning Environments. <i>Journal of Science Education and Technology</i> , 2022, 31, 303-321.	3.9	12

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37	Equilibrium Penetration of Monolayers. 9. A Comparison of Treatments for Analyzing Surface-Pressure ² Area Data. <i>Langmuir</i> , 1998, 14, 2148-2154.	3.5	11
38	Applications of alginate biopolymer in drug delivery. , 2020, , 375-403.		11
39	Vesicle formation in aqueous dimyristoyl phosphatidylcholine suspensions: a cryo-electron microscopy study. <i>Colloids and Surfaces B: Biointerfaces</i> , 1999, 13, 179-185.	5.0	10
40	Personal journeys of teachers: an investigation of the development of teacher professional knowledge and skill by expert tertiary chemistry teachers. <i>Chemistry Education Research and Practice</i> , 2019, 20, 132-145.	2.5	10
41	Profiling the combinations of multiple representations used in large-class teaching: pathways to inclusive practices. <i>Chemistry Education Research and Practice</i> , 2019, 20, 902-923.	2.5	9
42	Structural Requirements for the Cytotoxicity of the N-Terminal Region of HIV Type 1 Nef. <i>AIDS Research and Human Retroviruses</i> , 1998, 14, 1543-1551.	1.1	8
43	Writing a review article: what to do with my literature review. <i>Chemistry Education Research and Practice</i> , 2021, 22, 561-564.	2.5	8
44	Chemistry education research and practice in diverse online learning environments: resilience, complexity and opportunity!. <i>Chemistry Education Research and Practice</i> , 2021, 22, 7-11.	2.5	8
45	The structural characterisation of self-assembled films of dimyristoyl phosphatidylcholine: a neutron reflectivity and Brewster angle microscopy study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 168, 13-25.	4.7	7
46	Flow cytometric detection of proteolysis in peptide libraries synthesised on optically encoded supports. <i>Molecular BioSystems</i> , 2008, 4, 774.	2.9	7
47	Modification and optimization of organosilica microspheres for peptide synthesis and microsphere-based immunoassays. <i>Molecular BioSystems</i> , 2009, 5, 826.	2.9	7
48	Characterisation of teacher professional knowledge and skill through content representations from tertiary chemistry educators. <i>Chemistry Education Research and Practice</i> , 2018, 19, 508-519.	2.5	7
49	Quantitative data analysis methods for bead ² -based DNA hybridization assays using generic flow cytometry platforms. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 467-476.	1.5	6
50	X-ray Scattering Studies of Mixed Monolayers of Tetrakis(3,5-di-tert-butylphenyl)porphinatocopper(II) with Cadmium Arachidate at the Air/Water Interface. <i>Langmuir</i> , 2000, 16, 7051-7055.	3.5	5
51	Development of Scaffolded Online Modules To Support Self-Regulated Learning in Chemistry Concepts. <i>ACS Symposium Series</i> , 2016, , 1-21.	0.5	5
52	Insights and Teacher Perceptions Regarding Students ² Conceptions as They Enter Tertiary Chemistry Studies: a Comparative Study. <i>International Journal of Science and Mathematics Education</i> , 2019, 17, 43-65.	2.5	5
53	Considerations of sample size in chemistry education research: numbers do count but context matters more!. <i>Chemistry Education Research and Practice</i> , 2021, 22, 809-812.	2.5	5
54	Multiplexed microsphere diagnostic tools in gene expression applications: factors and futures. <i>International Journal of Nanomedicine</i> , 2006, 1, 195-201.	6.7	5

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55	Improving the Assessment of Transferable Skills in Chemistry Through Evaluation of Current Practice. , 2019, , 255-274.		4
56	“Every little thing that could possibly be provided helps” analysis of online first-year chemistry resources using the universal design for learning framework. Chemistry Education Research and Practice, 2022, 23, 385-407.	2.5	4
57	Alginate-based drug delivery devices. , 2010, , 236-266.		3
58	The Role of Mesoporosity in the Transport of Displaced Water during the Adsorption of Benzene by Prehumidified Charcoal Filters. Adsorption Science and Technology, 1994, 11, 59-72.	3.2	2
59	Colloids for Encoding Chemical Libraries: Applications in Biological Screening. , 0, , 507-560.		2
60	Advances in Encoding of Colloids for Combinatorial Libraries: Applications in Genomics, Proteomics and Drug Discovery. Current Pharmaceutical Biotechnology, 2003, 4, 439-449.	1.6	2
61	Ethical statements: a refresher of the minimum requirements for publication of chemistry education research and practice articles. Chemistry Education Research and Practice, 2021, 22, 234-236.	2.5	2
62	Toward colloid-based biosensors for SNP genotyping and personalised medicine applications. International Journal of Nanotechnology, 2008, 5, 299.	0.2	1
63	Using Web 2.0 Technology in Assessment of Learning in Chemistry: Drawing Threads between Teaching as Practice and Teaching as Research. ACS Symposium Series, 2016, , 47-66.	0.5	1
64	Australian Chemistry Education Research and Practice: A Dynamic and Colourful Landscape of Learning and Teaching. ACS Symposium Series, 2018, , 175-191.	0.5	1
65	Steps towards publishing your thesis or dissertation research: avoiding the pitfalls in turning a treasured tome into a highly-focussed article for CERP. Chemistry Education Research and Practice, 2020, 21, 694-697.	2.5	1
66	How do we know when students are learning? Shining a light on chemistry education practitioner research articles. Chemistry Education Research and Practice, 2022, 23, 283-286.	2.5	1
67	Organosilica Particles for DNA Screening Applications. , 2006, , .		0
68	Insights into the manuscript review process viewed as a constructive journey rather than surviving hurdles. Chemistry Education Research and Practice, 2022, 23, 7-11.	2.5	0
69	Weaving new threads into a chemistry education landscape! The role of Perspective articles in chemistry education research and practice. Chemistry Education Research and Practice, 2022, 23, 515-517.	2.5	0