Sheng Lin-Gibson

List of Publications by Year
in descending order

62	3,247	186265 28	149698 56
papers	citations	h-index	g-index

64	64	64	4602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Role of the National Institute of Standards in Measurement Assurance for Cell Therapies. , 2022, , 609-625.		0
2	Advancing measurement infrastructure for cell and gene therapy product development. Current Opinion in Biomedical Engineering, 2021, 20, 100329.	3.4	0
3	Nanostructured dental composites and adhesives with antibacterial and remineralizing capabilities for caries inhibition. , 2019, , 139-161.		3
4	Standards Landscape in Cell Counting: Implications for Cell & Gene Therapy. Cell & Gene Therapy Insights, 2019, 5, 117-131.	0.1	4
5	Effect of dental monomers and initiators on Streptococcus mutans oral biofilms. Dental Materials, 2018, 34, 776-785.	3.5	21
6	Summary of the National Institute of Standards and Technology and US Food And Drug Administration cell counting workshop: Sharing practices in cell counting measurements. Cytotherapy, 2018, 20, 785-795.	0.7	11
7	The Critical Role of Standards in Tissue Engineering and Regenerative Medicine. , 2018, , .		0
8	FDA and NIST collaboration on standards development activities supporting innovation and translation of regenerative medicine products. Cytotherapy, 2018, 20, 779-784.	0.7	17
9	Computational Design of Photocured Polymers Using Stochastic Reactionâ€“Diffusion Simulation. Advanced Theory and Simulations, 2018, 1, 1800028.	2.8	3
10	Experimental and statistical methods to evaluate antibacterial activity of a quaternary pyridinium salt on planktonic, biofilm-forming, and biofilm states. Biofouling, 2017, 33, 222-234.	2.2	5
11	Quantifying the sensitivity of the network structure and properties from simultaneous measurements during photopolymerization. Soft Matter, 2017, 13, 3975-3983.	2.7	8
12	Evaluating the quality of a cell counting measurement process via a dilution series experimental design. Cytotherapy, 2017, 19, 1509-1521.	0.7	16
13	Polyaspartic Acid Concentration Controls the Rate of Calcium Phosphate Nanorod Formation in High Concentration Systems. Biomacromolecules, 2017, 18, 3106-3113.	5.4	20
14	Novel Dental Cement to Combat Biofilms and Reduce Acids for Orthodontic Applications to Avoid Enamel Demineralization. Materials, 2016, 9, 413.	2.9	26
15	Strategies for Achieving Measurement Assurance for Cell Therapy Products. Stem Cells Translational Medicine, 2016, 5, 705-708.	3.3	34
16	Defining quality attributes to enable measurement assurance for cell therapy products. Cytotherapy, 2016, 18, 1241-1244.	0.7	16
17	Primer containing dimethylaminododecyl methacrylate kills bacteria impregnated in human dentin blocks. International Journal of Oral Science, 2016, 8, 239-245.	8.6	14
18	Understanding and managing sources of variability in cell measurements. Cell & Gene Therapy Insights, 2016, 2, 663-673.	0.1	16

#	Article	IF	Citations
19	Kinetics of Aggregation and Crystallization of Polyaspartic Acid Stabilized Calcium Phosphate Particles at High Concentrations. Biomacromolecules, 2015, 16, 1550-1555.	5.4	13
20	Microstructure and Mechanical Properties of In Situ Streptococcus mutans Biofilms. ACS Applied Materials & Interfaces, 2014, 6, 327-332.	8.0	25
21	Simultaneous measurement of polymerization stress and curing kinetics for photo-polymerized composites with high filler contents. Dental Materials, 2014, 30, 1316-1324.	3.5	41
22	Antibacterial activity and ion release of bonding agent containing amorphous calcium phosphate nanoparticles. Dental Materials, 2014, 30, 891-901.	3.5	106
23	The support of bone marrow stromal cell differentiation by airbrushed nanofiber scaffolds. Biomaterials, 2013, 34, 2389-2398.	11.4	142
24	Effects of dual antibacterial agents MDPB and nano-silver in primer on microcosm biofilm, cytotoxicity and dentine bond properties. Journal of Dentistry, 2013, 41, 464-474.	4.1	138
25	Nanostructured Dental Composites and Adhesives with Antibacterial and Remineralizing Capabilities for Caries Inhibition. , 2013, , 109-129.		3
26	Different Kinetic Pathways of Early Stage Calcium-Phosphate Cluster Aggregation Induced by Carboxylate-Containing Polymers. Biomacromolecules, 2013, 14, 3417-3422.	5.4	16
27	Effect of Polymer Degree of Conversion on Streptococcus mutans Biofilms. Macromolecular Bioscience, 2012, 12, 1706-1713.	4.1	20
28	Synthesis and characterization of dimethacrylates containing quaternary ammonium functionalities for dental applications. Dental Materials, 2012, 28, 219-228.	3.5	252
29	Antibacterial amorphous calcium phosphate nanocomposites with a quaternary ammonium dimethacrylate and silver nanoparticles. Dental Materials, 2012, 28, 561-572.	3.5	286
30	Antibacterial and physical properties of calciumâ€“phosphate and calciumâ€“fluoride nanocomposites with chlorhexidine. Dental Materials, 2012, 28, 573-583.	3.5	136
31	Cooperative Calcium Phosphate Nucleation within Collagen Fibrils. Langmuir, 2011, 27, 8263-8268.	3.5	27
32	Modulus-driven differentiation of marrow stromal cells in 3D scaffolds that is independent of myosin-based cytoskeletal tension. Biomaterials, 2011, 32, 2256-2264.	11.4	113
33	Thermodynamic Underpinnings of Cell Alignment on Controlled Topographies. Advanced Materials, 2011, 23, 421-425.	21.0	36
34	Combinatorial and Highâ€Throughput Screening of Biomaterials. Advanced Materials, 2011, 23, 369-387.	21.0	115
35	In situ formation of silver nanoparticles in photocrosslinking polymers. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 97B, 124-131.	3.4	93
36	Mechanics behind 4D interferometric measurement of biofilm mediated tooth decay. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 337-344.	0.5	1

#	Article	IF	Citations
37	Effects of Sample Preparation on Bacterial Colonization of Polymers. Langmuir, 2010, 26, 2659-2664.	3.5	9
38	The effect of 3D hydrogel scaffold modulus on osteoblast differentiation and mineralization revealed by combinatorial screening. Biomaterials, 2010, 31, 5051-5062.	11.4	265
39	Stability and Surface Topography Evolution in Nanoimprinted Polymer Patterns under a Thermal Gradient. Macromolecules, 2010, 43, 8191-8201.	4.8	16
40	Exploring Cellular Contact Guidance Using Gradient Nanogratings. Biomacromolecules, 2010, 11, 3067-3072.	5.4	36
41	3D mapping of polymerization shrinkage using X-ray micro-computed tomography to predict microleakage. Dental Materials, 2009, 25, 314-320.	3.5	91
42	Evaluation of dental composite shrinkage and leakage in extracted teeth using X-ray microcomputed tomography. Dental Materials, 2009, 25, 1213-1220.	3.5	60
43	Effects of filler type and content on mechanical properties of photopolymerizable composites measured across two-dimensional combinatorial arrays. Acta Biomaterialia, 2009, 5, 2084-2094.	8.3	39
44	X-ray microcomputed tomography for the measurement of cell adhesionand proliferation in polymer scaffolds. Biomaterials, 2009, 30, 2967-2974.	11.4	37
45	Nondestructive quantification of leakage at the toothâ€“composite interface and its correlation with material performance parameters. Biomaterials, 2009, 30, 4457-4462.	11.4	38
46	Effect of fluorosurfactant on capillary instabilities in nanoimprinted polymer patterns. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2591-2600.	2.1	10
47	Osteoblast response to dimethacrylate composites varying in composition, conversion and roughness using a combinatorial approach. Biomaterials, 2009, 30, 4480-4487.	11.4	16
48	Quantification of Cell Response to Polymeric Composites Using a Two- Dimensional Gradient Platform. Combinatorial Chemistry and High Throughput Screening, 2009, 12, 619-625.	1.1	8
49	X-ray imaging optimization of 3D tissue engineering scaffolds via combinatorial fabrication methods. Biomaterials, 2008, 29, 1901-1911.	11.4	40
50	X-ray microcomputed tomography for measuring polymerization shrinkage of polymeric dental compositesâ˜†. Dental Materials, 2008, 24, 228-234.	3.5	77
51	Systematic Investigation of Porogen Size and Content on Scaffold Morphometric Parameters and Properties. Biomacromolecules, 2007, 8, 1511-1518.	5.4	45
52	Encapsulated chondrocyte response in a pulsatile flow bioreactor. Acta Biomaterialia, 2007, 3, 13-21.	8.3	24
53	Two-dimensional gradient platforms for rapid assessment of dental polymers: A chemical, mechanical and biological evaluationâ˜†. Dental Materials, 2007, 23, 1211-1220.	3.5	37
54	Tissue Engineering Scaffolds Based on Photocured Dimethacrylate Polymers for in Vitro Optical Imaging. Biomacromolecules, 2006, 7, 1751-1757.	5.4	27

#	Article	IF	Citations
55	Combinatorial investigation of the structure-properties characterization of photopolymerized dimethacrylate networks. Biomaterials, 2006, 27, 1711-1717.	11.4	56
56	Unusual Multilayered Structures in Poly(ethylene oxide)/Laponite Nanocomposite Films. Macromolecular Rapid Communications, 2005, 26, 143-149.	3.9	49
57	Examination of the Covalent Cationization Method Using Narrow Polydisperse Polystyrene. Macromolecules, 2005, 38, 1564-1572.	4.8	17
58	In Situ Formation of Blends by Photopolymerization of Poly(ethylene glycol) Dimethacrylate and Polylactide. Biomacromolecules, 2005, 6, 1615-1622.	5.4	21
59	Structureâ^'Property Relationships of Photopolymerizable Poly(ethylene glycol) Dimethacrylate Hydrogels. Macromolecules, 2005, 38, 2897-2902.	4.8	114
60	Synthesis and Characterization of PEG Dimethacrylates and Their Hydrogels. Biomacromolecules, 2004, 5, 1280-1287.	5.4	238
61	Orientation of platelets in multilayered nanocomposite polymer films. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 3237-3248.	2.1	69
62	MALDIâ^'TOF Mass Spectral Characterization of Covalently Cationized Polystyrene. Macromolecules, 2003, 36, 4669-4671.	4.8	8