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	Antibacterial amorphous calcium phosphate nanocomposites with a quaternary ammonium dimethacrylate and silver nanoparticles. Dental Materials, 2012, 28, 561-572.	3.5	286
2	The effect of 3D hydrogel scaffold modulus on osteoblast differentiation and mineralization revealed by combinatorial screening. Biomaterials, 2010, 31, 5051-5062.	11.4	265
3	Synthesis and characterization of dimethacrylates containing quaternary ammonium functionalities for dental applications. Dental Materials, 2012, 28, 219-228.	3.5	252
4	Synthesis and Characterization of PEG Dimethacrylates and Their Hydrogels. Biomacromolecules, 2004, 5, 1280-1287.	5.4	238
5	The support of bone marrow stromal cell differentiation by airbrushed nanofiber scaffolds. Biomaterials, 2013, 34, 2389-2398.	11.4	142
6	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
7	Antibacterial and physical properties of calciumâ€“phosphate and calciumâ€“fluoride nanocomposites with chlorhexidine. Dental Materials, 2012, 28, 573-583.	3.5	136
8	Combinatorial and Highâ€Throughput Screening of Biomaterials. Advanced Materials, 2011, 23, 369-387.	21.0	115
9	Structureâ^'Property Relationships of Photopolymerizable Poly(ethylene glycol) Dimethacrylate Hydrogels. Macromolecules, 2005, 38, 2897-2902.	4.8	114
10	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
11	Antibacterial activity and ion release of bonding agent containing amorphous calcium phosphate nanoparticles. Dental Materials, 2014, 30, 891-901.	3.5	106
12	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
13	3D mapping of polymerization shrinkage using X-ray micro-computed tomography to predict microleakage. Dental Materials, 2009, 25, 314-320.	3.5	91
14	X-ray microcomputed tomography for measuring polymerization shrinkage of polymeric dental compositesâ˜†. Dental Materials, 2008, 24, 228-234.	3.5	77
15	Orientation of platelets in multilayered nanocomposite polymer films. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 3237-3248.	2.1	69
16	Evaluation of dental composite shrinkage and leakage in extracted teeth using X-ray microcomputed tomography. Dental Materials, 2009, 25, 1213-1220.	3.5	60
17	Combinatorial investigation of the structure-properties characterization of photopolymerized dimethacrylate networks. Biomaterials, 2006, 27, 1711-1717.	11.4	56
18	Unusual Multilayered Structures in Poly(ethylene oxide)/Laponite Nanocomposite Films. Macromolecular Rapid Communications, 2005, 26, 143-149.	3.9	49

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19	Systematic Investigation of Porogen Size and Content on Scaffold Morphometric Parameters and Properties. Biomacromolecules, 2007, 8, 1511-1518.	5.4	45
20	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
21	X-ray imaging optimization of 3D tissue engineering scaffolds via combinatorial fabrication methods. Biomaterials, 2008, 29, 1901-1911.	11.4	40
22	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
23	Nondestructive quantification of leakage at the toothâ€“composite interface and its correlation with material performance parameters. Biomaterials, 2009, 30, 4457-4462.	11.4	38
24	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
25	X-ray microcomputed tomography for the measurement of cell adhesionand proliferation in polymer scaffolds. Biomaterials, 2009, 30, 2967-2974.	11.4	37
26	Exploring Cellular Contact Guidance Using Gradient Nanogratings. Biomacromolecules, 2010, 11, 3067-3072.	5.4	36
27	Thermodynamic Underpinnings of Cell Alignment on Controlled Topographies. Advanced Materials, 2011, 23, 421-425.	21.0	36
28	Strategies for Achieving Measurement Assurance for Cell Therapy Products. Stem Cells Translational Medicine, 2016, 5, 705-708.	3.3	34
29	Tissue Engineering Scaffolds Based on Photocured Dimethacrylate Polymers for in Vitro Optical Imaging. Biomacromolecules, 2006, 7, 1751-1757.	5.4	27
30	Cooperative Calcium Phosphate Nucleation within Collagen Fibrils. Langmuir, 2011, 27, 8263-8268.	3.5	27
31	Novel Dental Cement to Combat Biofilms and Reduce Acids for Orthodontic Applications to Avoid Enamel Demineralization. Materials, 2016, 9, 413.	2.9	26
32	Microstructure and Mechanical Properties of In Situ Streptococcus mutans Biofilms. ACS Applied Materials & Interfaces, 2014, 6, 327-332.	8.0	25
33	Encapsulated chondrocyte response in a pulsatile flow bioreactor. Acta Biomaterialia, 2007, 3, 13-21.	8.3	24
34	In Situ Formation of Blends by Photopolymerization of Poly(ethylene glycol) Dimethacrylate and Polylactide. Biomacromolecules, 2005, 6, 1615-1622.	5.4	21
35	Effect of dental monomers and initiators on Streptococcus mutans oral biofilms. Dental Materials, 2018, 34, 776-785.	3.5	21
36	Effect of Polymer Degree of Conversion on Streptococcus mutans Biofilms. Macromolecular Bioscience, 2012, 12, 1706-1713.	4.1	20

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37	Polyaspartic Acid Concentration Controls the Rate of Calcium Phosphate Nanorod Formation in High Concentration Systems. Biomacromolecules, 2017, 18, 3106-3113.	5.4	20
38	Examination of the Covalent Cationization Method Using Narrow Polydisperse Polystyrene. Macromolecules, 2005, 38, 1564-1572.	4.8	17
39	FDA and NIST collaboration on standards development activities supporting innovation and translation of regenerative medicine products. Cytotherapy, 2018, 20, 779-784.	0.7	17
40	Osteoblast response to dimethacrylate composites varying in composition, conversion and roughness using a combinatorial approach. Biomaterials, 2009, 30, 4480-4487.	11.4	16
41	Stability and Surface Topography Evolution in Nanoimprinted Polymer Patterns under a Thermal Gradient. Macromolecules, 2010, 43, 8191-8201.	4.8	16
42	Different Kinetic Pathways of Early Stage Calcium-Phosphate Cluster Aggregation Induced by Carboxylate-Containing Polymers. Biomacromolecules, 2013, 14, 3417-3422.	5.4	16
43	Defining quality attributes to enable measurement assurance for cell therapy products. Cytotherapy, 2016, 18, 1241-1244.	0.7	16
44	Evaluating the quality of a cell counting measurement process via a dilution series experimental design. Cytotherapy, 2017, 19, 1509-1521.	0.7	16
45	Understanding and managing sources of variability in cell measurements. Cell & Gene Therapy Insights, 2016, 2, 663-673.	0.1	16
46	Primer containing dimethylaminododecyl methacrylate kills bacteria impregnated in human dentin blocks. International Journal of Oral Science, 2016, 8, 239-245.	8.6	14
47	Kinetics of Aggregation and Crystallization of Polyaspartic Acid Stabilized Calcium Phosphate Particles at High Concentrations. Biomacromolecules, 2015, 16, 1550-1555.	5.4	13
48	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
49	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
50	Effects of Sample Preparation on Bacterial Colonization of Polymers. Langmuir, 2010, 26, 2659-2664.	3.5	9
51	MALDIâ^'TOF Mass Spectral Characterization of Covalently Cationized Polystyrene. Macromolecules, 2003, 36, 4669-4671.	4.8	8
52	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
53	Quantifying the sensitivity of the network structure and properties from simultaneous measurements during photopolymerization. Soft Matter, 2017, 13, 3975-3983.	2.7	8
54	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

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55	Standards Landscape in Cell Counting: Implications for Cell & Gene Therapy. Cell & Gene Therapy Insights, 2019, 5, 117-131.	0.1	4
56	Nanostructured Dental Composites and Adhesives with Antibacterial and Remineralizing Capabilities for Caries Inhibition. , 2013, , 109-129.		3
57	Computational Design of Photocured Polymers Using Stochastic Reactionâ€“Diffusion Simulation. Advanced Theory and Simulations, 2018, 1, 1800028.	2.8	3
58	Nanostructured dental composites and adhesives with antibacterial and remineralizing capabilities for caries inhibition. , 2019, , 139-161.		3
59	Mechanics behind 4D interferometric measurement of biofilm mediated tooth decay. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 337-344.	0.5	1
60	The Critical Role of Standards in Tissue Engineering and Regenerative Medicine. , 2018, , .		0
61	Advancing measurement infrastructure for cell and gene therapy product development. Current Opinion in Biomedical Engineering, 2021, 20, 100329.	3.4	0
62	The Role of the National Institute of Standards in Measurement Assurance for Cell Therapies. , 2022, , 609-625.		0