

C Allan Guymon

List of Publications by Year in descending order

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83
papers

2,377
citations

136950

32
h-index

243625

44
g-index

85
all docs

85
docs citations

85
times ranked

2266
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and characterization of photopolymerizable biodegradable materials from PEG-PLA-PEG block macromonomers. <i>Polymer</i> , 2007, 48, 6554-6564.	3.8	75
2	Antifouling Photograftable Zwitterionic Coatings on PDMS Substrates. <i>Langmuir</i> , 2019, 35, 1100-1110.	3.5	72
3	Polymerization Kinetics and Monomer Functionality Effects in Thiol-Ene Polymer Dispersed Liquid Crystals. <i>Macromolecules</i> , 2007, 40, 1112-1120.	4.8	71
4	Photopolymerization in Polymer Templating. <i>Chemistry of Materials</i> , 2008, 20, 768-781.	6.7	60
5	Phase behaviour and electro-optic characteristics of a polymer stabilized ferroelectric liquid crystal. <i>Liquid Crystals</i> , 1995, 19, 719-727.	2.2	58
6	Photopolymerized microfeatures for directed spiral ganglion neurite and Schwann cell growth. <i>Biomaterials</i> , 2013, 34, 42-54.	11.4	58
7	Polymerization Conditions and Electrooptic Properties of Polymer-Stabilized Ferroelectric Liquid Crystals. <i>Chemistry of Materials</i> , 1998, 10, 2378-2388.	6.7	56
8	Kinetic Analysis of Polymerization Rate Acceleration During the Formation of Polymer/Smectic Liquid Crystal Composites. <i>Macromolecules</i> , 1997, 30, 5271-5278.	4.8	55
9	Monomer Functionality Effects in the Formation of Thiol-Ene Holographic Polymer Dispersed Liquid Crystals. <i>Macromolecules</i> , 2007, 40, 1121-1127.	4.8	55
10	Polymerization Behavior and Kinetics during the Formation of Polymer-Stabilized Ferroelectric Liquid Crystals. <i>Macromolecules</i> , 1997, 30, 1594-1600.	4.8	53
11	Physical Properties of Hydrogels Synthesized from Lyotropic Liquid Crystalline Templates. <i>Chemistry of Materials</i> , 2003, 15, 3376-3384.	6.7	53
12	Photopolymerization Kinetics and Structure Development of Templated Lyotropic Liquid Crystalline Systems. <i>Macromolecules</i> , 2001, 34, 4430-4438.	4.8	52
13	Influence of Polymerization Conditions on Nanostructure and Properties of Polyacrylamide Hydrogels Templated from Lyotropic Liquid Crystals. <i>Chemistry of Materials</i> , 2006, 18, 5609-5617.	6.7	51
14	Mechanical properties of murine and porcine ocular tissues in compression. <i>Experimental Eye Research</i> , 2014, 121, 194-199.	2.6	51
15	Effect of Molecular Weight and Functionality on Acrylated Poly(caprolactone) for Stereolithography and Biomedical Applications. <i>Biomacromolecules</i> , 2018, 19, 3682-3692.	5.4	51
16	Two-photon polymerized poly(caprolactone) retinal cell delivery scaffolds and their systemic and retinal biocompatibility. <i>Acta Biomaterialia</i> , 2019, 94, 204-218.	8.3	51
17	Physical Behavior of Cross-Linked PEG Hydrogels Photopolymerized within Nanostructured Lyotropic Liquid Crystalline Templates. <i>Macromolecules</i> , 2007, 40, 1101-1107.	4.8	49
18	Micropatterned methacrylate polymers direct spiral ganglion neurite and Schwann cell growth. <i>Hearing Research</i> , 2011, 278, 96-105.	2.0	49

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19	Holographic polymer dispersed liquid crystals (HPDLCs) containing triallyl isocyanurate monomer. <i>Polymer</i> , 2007, 48, 5979-5987.	3.8	47
20	The influence of N-vinyl pyrrolidone on polymerization kinetics and thermo-mechanical properties of crosslinked acrylate polymers. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4062-4073.	2.3	47
21	Biotinylated Biodegradable Nanotemplated Hydrogel Networks for Cell Interactive Applications. <i>Biomacromolecules</i> , 2008, 9, 1188-1194.	5.4	47
22	Photopolymerizable Zwitterionic Polymer Patterns Control Cell Adhesion and Guide Neural Growth. <i>Biomacromolecules</i> , 2017, 18, 2389-2401.	5.4	45
23	The influence of N-vinyl-2-pyrrolidinone in polymerization of holographic polymer dispersed liquid crystals (HPDLCs). <i>Polymer</i> , 2006, 47, 2289-2298.	3.8	44
24	Effects of Monomer Organization on the Photopolymerization Kinetics of Acrylamide in Lyotropic Liquid Crystalline Phases. <i>Langmuir</i> , 2003, 19, 9466-9472.	3.5	43
25	Photopolymerization of Acid Containing Monomers: A Real-Time Monitoring of Polymerization Rates. <i>Macromolecules</i> , 2006, 39, 8269-8273.	4.8	43
26	Contribution of monomer functionality and additives to polymerization kinetics and liquid crystal phase separation in acrylate-based polymer-dispersed liquid crystals (PDLCs). <i>Liquid Crystals</i> , 2007, 34, 1377-1385.	2.2	39
27	Neuronal Differentiation of Induced Pluripotent Stem Cells on Surfactant Templated Chitosan Hydrogels. <i>Biomacromolecules</i> , 2016, 17, 1684-1695.	5.4	38
28	A novel approach to evaluate fracture surfaces of aged and rejuvenator-restored asphalt using cryo-SEM and image analysis techniques. <i>Construction and Building Materials</i> , 2017, 133, 301-313.	7.2	38
29	Photopolymerization kinetics of poly(acrylate)-clay composites using polymerizable surfactants. <i>Polymer</i> , 2008, 49, 2636-2643.	3.8	36
30	Photopolymerization in Pluronic Lyotropic Liquid Crystals: Induced Mesophase Thermal Stability. <i>Macromolecules</i> , 2003, 36, 6549-6558.	4.8	34
31	Acceleration of Polyacrylamide Photopolymerization Using Lyotropic Liquid Crystals. <i>Macromolecules</i> , 2001, 34, 8587-8589.	4.8	33
32	Photoinitiation and Monomer Segregation Behavior in Polymerization of Lyotropic Liquid Crystalline Systems. <i>Macromolecules</i> , 2006, 39, 617-626.	4.8	33
33	Improved stimuli-response and mechanical properties of nanostructured poly(N-isopropylacrylamide-co-dimethylsiloxane) hydrogels generated through photopolymerization in lyotropic liquid crystal templates. <i>Soft Matter</i> , 2013, 9, 7458.	2.7	32
34	Kinetically Controlled Photoinduced Phase Separation for Hybrid Radical/Cationic Systems. <i>Macromolecules</i> , 2019, 52, 2975-2986.	4.8	32
35	Effects of Controlling Polymer Nanostructure Using Photopolymerization within Lyotropic Liquid Crystalline Templates. <i>Chemistry of Materials</i> , 2013, 25, 2950-2960.	6.7	31
36	Neural Pathfinding on Uni- and Multidirectional Photopolymerized Micropatterns. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11265-11276.	8.0	31

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37	Phase Behavior and Polymerization Kinetics of a Semifluorinated Lyotropic Liquid Crystal. <i>Macromolecules</i> , 2000, 33, 5448-5454.	4.8	30
38	Material Stiffness Effects on Neurite Alignment to Photopolymerized Micropatterns. <i>Biomacromolecules</i> , 2014, 15, 3717-3727.	5.4	29
39	Photopolymerization Behavior of Thiol- α -Acrylate Monomers in Clay Nanocomposites. <i>Macromolecules</i> , 2009, 42, 3275-3284.	4.8	28
40	Nanostructure Evolution during Photopolymerization in Lyotropic Liquid Crystal Templates. <i>Macromolecules</i> , 2010, 43, 8502-8510.	4.8	28
41	Fast Deswelling Kinetics of Nanostructured Poly(<i>N</i> -isopropylacrylamide) Photopolymerized in a Lyotropic Liquid Crystal Template. <i>Macromolecular Rapid Communications</i> , 2011, 32, 765-769.	3.9	28
42	Nanostructured Biodegradable Polymer Networks Using Lyotropic Liquid Crystalline Templates. <i>Biomacromolecules</i> , 2007, 8, 2104-2111.	5.4	27
43	Cross-Linking of Reactive Lyotropic Liquid Crystals for Nanostructure Retention. <i>Chemistry of Materials</i> , 2009, 21, 1060-1068.	6.7	27
44	Nanoporous Polymer Networks Templated by Gemini Surfactant Lyotropic Liquid Crystals. <i>Chemistry of Materials</i> , 2018, 30, 185-196.	6.7	25
45	Chemical Compatibility and Reaction-Induced Exfoliation in Photopolymerizable Clay Nanocomposites. <i>Macromolecules</i> , 2009, 42, 180-187.	4.8	24
46	Polymer Structure Development in Lyotropic Liquid Crystalline Solutions. <i>Macromolecules</i> , 2014, 47, 5728-5738.	4.8	24
47	Microtopographical features generated by photopolymerization recruit RhoA/ROCK through TRPV1 to direct cell and neurite growth. <i>Biomaterials</i> , 2015, 53, 95-106.	11.4	24
48	Responsive superabsorbent hydrogels via photopolymerization in lyotropic liquid crystal templates. <i>Polymer</i> , 2018, 142, 119-126.	3.8	23
49	Photograftable Zwitterionic Coatings Prevent <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> Adhesion to PDMS Surfaces. <i>ACS Applied Bio Materials</i> , 2021, 4, 1283-1293.	4.6	22
50	Aliphatic chain length effects on photopolymerization kinetics and structural evolution of polymerizable lyotropic liquid crystals. <i>Polymer</i> , 2008, 49, 2260-2267.	3.8	21
51	Modification of mechanical properties and resolution of printed stereolithographic objects through RAFT agent incorporation. <i>Additive Manufacturing</i> , 2019, 27, 20-31.	3.0	21
52	Photopolymerization behavior in nanocomposites formed with thiol- α -acrylate and polymerizable organoclays. <i>Journal of Polymer Science Part A</i> , 2011, 49, 465-475.	2.3	19
53	Effects of polymerizable organoclays on oxygen inhibition of acrylate and thiol-acrylate photopolymerization. <i>Polymer</i> , 2012, 53, 1640-1650.	3.8	19
54	Effect of photoinitiator segregation on polymerization kinetics in lyotropic liquid crystals. <i>Polymer</i> , 2005, 46, 335-345.	3.8	18

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55	Antifouling and Mechanical Properties of Photografted Zwitterionic Hydrogel Thin-Film Coatings Depend on the Cross-Link Density. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4494-4502.	5.2	18
56	Differentiation of Induced Pluripotent Stem Cells to Neural Retinal Precursor Cells on Porous Poly-Lactic-co-Glycolic Acid Scaffolds. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2016, 32, 310-316.	1.4	17
57	Nanostructured Biodegradable Polymer Composites Generated Using Lyotropic Liquid Crystalline Media. <i>Macromolecules</i> , 2007, 40, 7951-7959.	4.8	16
58	Manipulation of crosslinking in photo-induced phase separated polymers to control morphology and thermo-mechanical properties. <i>Polymer</i> , 2020, 202, 122699.	3.8	16
59	Photopolymerization kinetics in and of self-assembling lyotropic liquid crystal templates. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 471-489.	2.1	14
60	Photopolymerized Microfeatures Guide Adult Spiral Ganglion and Dorsal Root Ganglion Neurite Growth. <i>Otology and Neurotology</i> , 2018, 39, 119-126.	1.3	13
61	Zwitterionic Photografted Coatings of Cochlear Implant Biomaterials Reduce Friction and Insertion Forces. <i>Otology and Neurotology</i> , 2021, 42, 1476-1483.	1.3	12
62	Recent advances to decrease shrinkage stress and enhance mechanical properties in free radical polymerization: a review. <i>Polymer International</i> , 2022, 71, 596-607.	3.1	11
63	Polymerization Kinetics and Nanostructure Evolution of Reactive Lyotropic Liquid Crystals with Different Reactive Group Position. <i>Macromolecules</i> , 2009, 42, 9243-9250.	4.8	10
64	Radical polymerization behavior and molecular weight development of homologous monoacrylate monomers in lyotropic liquid crystal phases. <i>Journal of Polymer Science Part A</i> , 2016, 54, 144-154.	2.3	10
65	Tuning Surface and Topographical Features to Investigate Competitive Guidance of Spiral Ganglion Neurons. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31488-31496.	8.0	9
66	Intracellular calcium and cyclic nucleotide levels modulate neurite guidance by microtopographical substrate features. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2037-2048.	4.0	8
67	Polymer nanostructure development of fluorinated and aliphatic monoacrylates in smectic liquid crystals via photopolymerization. <i>Liquid Crystals</i> , 2003, 30, 49-58.	2.2	7
68	Copolymerization Mechanism of Photoinitiator Free Thiol-Vinyl Acrylate Systems. <i>ACS Symposium Series</i> , 2006, , 17-28.	0.5	7
69	Influence of non-reactive solvent on optical performance, photopolymerization kinetics and morphology of nanoporous polymer gratings. <i>European Polymer Journal</i> , 2010, 46, 937-943.	5.4	7
70	Effects of directed architecture in epoxy functionalized prepolymers for photocurable thin films. <i>Journal of Polymer Science Part A</i> , 2017, 55, 144-154.	2.3	7
71	Photopolymerized micropatterns with high feature frequencies overcome chemorepulsive borders to direct neurite growth. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1392-e1403.	2.7	7
72	Quantifying Spiral Ganglion Neurite and Schwann Behavior on Micropatterned Polymer Substrates. <i>Methods in Molecular Biology</i> , 2016, 1427, 305-318.	0.9	6

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73	Polymer molecular weight and chain transfer during the photopolymerization of an aliphatic monoacrylate in a smectic liquid crystal. <i>Polymer</i> , 2003, 44, 2751-2759.	3.8	5
74	Nanostructured Hydrogels via Photopolymerization in Lyotropic Liquid Crystalline Systems. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 509, 30/[772]-38/[780].	0.9	5
75	Influence of Photopolymerization Characteristics on Thermo-Mechanical Properties of Nanocomposites Utilizing Polymerizable Organoclays in Thiol-Acrylate Systems. <i>Macromolecular Symposia</i> , 2013, 329, 173-192.	0.7	5
76	Interaction of micropatterned topographical and biochemical cues to direct neurite growth from spiral ganglion neurons. <i>Hearing Research</i> , 2021, 409, 108315.	2.0	5
77	Design and performance of a thin-film calorimeter for quantitative characterization of photopolymerizable systems. <i>Review of Scientific Instruments</i> , 2005, 76, 054102.	1.3	4
78	Controlling phase separated domains in UV-curable formulations with OH-functionalized prepolymers. <i>Polymer Chemistry</i> , 2022, 13, 3102-3115.	3.9	3
79	Photopolymerization and Electrooptic Properties of Polymer Network/Ferroelectric Liquid-Crystal Composites. <i>ACS Symposium Series</i> , 1997, , 16-27.	0.5	2
80	Field implementation of WMA mixtures containing recycled asphalt shingles (RAS). <i>Construction and Building Materials</i> , 2020, 250, 118836.	7.2	2
81	Polymerization Effects on the Electro-Optic Properties of a Polymer Stabilized Ferroelectric Liquid Crystal. <i>Materials Research Society Symposia Proceedings</i> , 1996, 425, 197.	0.1	0
82	Photopolymerization Kinetics of Pigmented Systems Using a Thin-Film Calorimeter. <i>ACS Symposium Series</i> , 2006, , 29-40.	0.5	0
83	High-sensitivity molecular recognition with light-induced polymerization. <i>Trends in Biotechnology</i> , 2008, 26, 581-583.	9.3	0