Justin R Barone

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1853927/publications.pdf

Version: 2024-02-01

47 papers	1,437 citations	331670 21 h-index	330143 37 g-index
49 all docs	49 docs citations	49 times ranked	1680 citing authors

#	Article	IF	Citations
1	Mechanically cycling gelatin bilayers. Smart Materials and Structures, 2022, 31, 085005.	3.5	3
2	Biologically controlled gelatin actuators. Green Materials, 2021, 9, 157-166.	2.1	7
3	Transport and characterization of microplastics in inland waterways. Journal of Water Process Engineering, 2020, 38, 101640.	5.6	30
4	Protein aggregation in aqueous poly(vinyl alcohol) solutions. Green Materials, 2020, 8, 32-39.	2.1	1
5	Mechanical and thermal properties of polyolefin thermoplastic elastomer blends. Plastics, Rubber and Composites, 2019, 48, 338-346.	2.0	11
6	Hydrolyzed wheat protein as a self-assembled reinforcing filler in synthetic isoprene rubber vulcanizates. Industrial Crops and Products, 2019, 141, 111815.	5.2	2
7	Agricultural proteins as multifunctional additives in ZnOâ€free synthetic isoprene rubber vulcanizates. Journal of Applied Polymer Science, 2019, 136, 48141.	2.6	4
8	Bending, curling, and twisting in polymeric bilayers. Soft Matter, 2019, 15, 4541-4547.	2.7	17
9	Characterization of dimensional stability in flax fiber reinforced polypropylene composites. Polymer Composites, 2019, 40, 132-140.	4.6	15
10	Wheat Gluten Aggregates as a Reinforcement for Poly(vinyl alcohol) Films. ACS Sustainable Chemistry and Engineering, 2018, 6, 2422-2430.	6.7	10
11	Proteinâ€polyisoprene rubber composites. Journal of Applied Polymer Science, 2018, 135, 46026.	2.6	5
12	Reducing the heterogeneity of xylan through processing. Carbohydrate Polymers, 2016, 150, 250-258.	10.2	17
13	Morphology selection via geometric frustration in chiral filament bundles. Nature Materials, 2016, 15, 727-732.	27.5	59
14	Revealing the thermal sensitivity of lignin during glycerol thermal processing through structural analysis. RSC Advances, 2016, 6, 30234-30246.	3.6	22
15	Enhanced enzymatic saccharification of pretreated biomass using glycerol thermal processing (GTP). Bioresource Technology, 2016, 199, 148-154.	9.6	30
16	Design and Construction of Large Amyloid Fibers. Fibers, 2015, 3, 90-102.	4.0	4
17	Completely self-assembled fiber composites. Composites Science and Technology, 2015, 117, 1-8.	7.8	8
18	Biomass Fractionation after Denaturing Cell Walls by Glycerol Thermal Processing. ACS Sustainable Chemistry and Engineering, 2015, 3, 413-420.	6.7	21

#	Article	IF	Citations
19	A Structural and Functional Comparison Between Infectious and Non-Infectious Autocatalytic Recombinant PrP Conformers. PLoS Pathogens, 2015, 11, e1005017.	4.7	38
20	Wheat Gluten Plasticized with Its Own Hydrolysate. Journal of Polymers and the Environment, 2014, 22, 430-438.	5.0	13
21	Ureolytic Activity of Soybean and Corn Residue Extracts. Communications in Soil Science and Plant Analysis, 2014, 45, 2959-2969.	1.4	2
22	Genetically encoded self-assembly of large amyloid fibers. Biomaterials Science, 2014, 2, 560-566.	5.4	10
23	The Role of Protein Hydrophobicity in Conformation Change and Self-Assembly into Large Amyloid Fibers. Biomacromolecules, 2014, 15, 1240-1247.	5.4	30
24	Evolution of the Amyloid Fiber over Multiple Length Scales. ACS Nano, 2013, 7, 1006-1015.	14.6	52
25	Characterization of Large Amyloid Fibers and Tapes with Fourier Transform Infrared (FT-IR) and Raman Spectroscopy. Applied Spectroscopy, 2013, 67, 1417-1426.	2.2	31
26	The effect of processing on large, self-assembled amyloid fibers. Soft Matter, 2012, 8, 10298.	2.7	33
27	Peptide Mixtures Can Self-Assemble into Large Amyloid Fibers of Varying Size and Morphology. Biomacromolecules, 2011, 12, 3770-3779.	5.4	48
28	Quantifying amino acid and protein substitution using Raman spectroscopy. Journal of Raman Spectroscopy, 2011, 42, 355-362.	2.5	10
29	Chemistry between crosslinks affects the properties of peptide hydrogels. Materials Science and Engineering C, 2011, 31, 1042-1049.	7.3	6
30	Large Self-Assembled Peptide Fibers. Materials Research Society Symposia Proceedings, 2011, 1301, 131.	0.1	1
31	Nanocomposites prepared by in situ enzymatic polymerization of phenol with TEMPO-oxidized nanocellulose. Cellulose, 2010, 17, 57-68.	4.9	69
32	Protein Substitution Affects Glass Transition Temperature and Thermal Stability. Journal of Agricultural and Food Chemistry, 2010, 58, 9549-9555.	5.2	23
33	Lignocellulosic Fiber-Reinforced Keratin Polymer Composites. Journal of Polymers and the Environment, 2009, 17, 143-151.	5.0	31
34	Enzyme-mediated self-assembly of highly ordered structures from disordered proteins. Smart Materials and Structures, 2009, 18, 104024.	3.5	30
35	Conformational Changes and Molecular Mobility in Plasticized Proteins. Biomacromolecules, 2008, 9, 3181-3187.	5.4	40
36	Proteinâ€transition metal ion networks. Journal of Applied Polymer Science, 2007, 106, 1518-1525.	2.6	4

#	Article	IF	Citations
37	Thermally processed levan polymers. Carbohydrate Polymers, 2007, 69, 554-561.	10.2	55
38	Nonfood Applications of Proteinaceous Renewable Materials. Journal of Chemical Education, 2006, 83, 1003.	2.3	27
39	Blends of Cysteine-Containing Proteins. Journal of Agricultural and Food Chemistry, 2006, 54, 5393-5399.	5.2	30
40	Stearic acid solubility and cubic phase volume. Chemistry and Physics of Lipids, 2006, 142, 23-32.	3.2	11
41	Extrusion of feather keratin. Journal of Applied Polymer Science, 2006, 100, 1432-1442.	2.6	93
42	Compounding and molding of polyethylene composites reinforced with keratin feather fiber. Composites Science and Technology, 2005, 65, 683-692.	7.8	123
43	Thermally processed keratin films. Journal of Applied Polymer Science, 2005, 97, 1644-1651.	2.6	117
44	Evaluation of polymer rheology from drop spreading experiments. Chemical Engineering Science, 2005, 60, 2579-2584.	3.8	6
45	Polyethylene reinforced with keratin fibers obtained from chicken feathers. Composites Science and Technology, 2005, 65, 173-181.	7.8	205
46	Adhesive wall slip on organic surfaces. Journal of Non-Newtonian Fluid Mechanics, 2000, 91, 31-36.	2.4	11
47	Flow birefringence study of sharkskin and stress relaxation in polybutadiene melts. Rheologica Acta, 1999, 38, 404-414.	2.4	19