

Gajanan S Bhat

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,710
citations

361045

20
h-index

189595

50
g-index

67
all docs

67
docs citations

67
times ranked

3328
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospinning of nanofibers. <i>Journal of Applied Polymer Science</i> , 2005, 96, 557-569.	1.3	1,401
2	Environmentally-friendly thermal and acoustic insulation materials from recycled textiles. <i>Journal of Environmental Management</i> , 2019, 251, 109536.	3.8	127
3	Meltblown nanofiber media for enhanced quality factor. <i>Fibers and Polymers</i> , 2013, 14, 660-668.	1.1	107
4	Recent Developments in Carbon Fibers and Carbon Nanotube-Based Fibers: A Review. <i>Polymer Reviews</i> , 2017, 57, 339-368.	5.3	82
5	Thermal bonding of polypropylene nonwovens: Effect of bonding variables on the structure and properties of the fabrics. <i>Journal of Applied Polymer Science</i> , 2004, 92, 3593-3600.	1.3	68
6	Extruded continuous filament nonwovens: Advances in scientific aspects. <i>Journal of Applied Polymer Science</i> , 2002, 83, 572-585.	1.3	65
7	Progress and challenges in self-healing composite materials. <i>Materials Advances</i> , 2021, 2, 1896-1926.	2.6	51
8	Investigation of Nanofiber Breakup in the Melt-Blowing Process. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 3150-3156.	1.8	45
9	New aspects in the stabilization of acrylic fibers for carbon fibers. <i>Carbon</i> , 1990, 28, 377-385.	5.4	40
10	Nonwovens as Three-Dimensional Textiles for Composites. <i>Materials and Manufacturing Processes</i> , 1995, 10, 667-688.	2.7	34
11	Porosity and barrier properties of polyethylene meltblown nonwovens. <i>Journal of the Textile Institute</i> , 2017, 108, 1035-1040.	1.0	34
12	Nanoparticle effects on structure and properties of polypropylene meltblown webs. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1062-1072.	1.3	31
13	Structure and mechanical properties of polyethylene melt blown nonwovens. <i>International Journal of Clothing Science and Technology</i> , 2016, 28, 780-793.	0.5	30
14	Effect of processing conditions on the structure and properties of polypropylene spunbond fabrics. <i>Journal of Applied Polymer Science</i> , 2005, 98, 2355-2364.	1.3	29
15	Filtration Efficiency of Submicrometer Filters. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 16513-16518.	1.8	29
16	Preparation and properties of poly (lactic acid)/magnetic Fe ₃ O ₄ composites and nonwovens. <i>RSC Advances</i> , 2017, 7, 41929-41935.	1.7	27
17	Improving mechanical properties of carbon nanotube fibers through simultaneous solid-state cycloaddition and crosslinking. <i>Nanotechnology</i> , 2017, 28, 145603.	1.3	25
18	Biodegradable and Tensile Properties of Cotton/Cellulose Acetate Nonwovens. <i>Textile Research Journal</i> , 1996, 66, 230-237.	1.1	24

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19	Thermal properties of elastic fibers. <i>Thermochimica Acta</i> , 2001, 367-368, 161-164.	1.2	24
20	Nanoclay Reinforced Fibers and Nonwovens. <i>Journal of Engineered Fibers and Fabrics</i> , 2008, 3, 155892500800300.	0.5	22
21	Processing and Characterization of Flame Retardant Cotton Blend Nonwovens for Soft Furnishings to Meet Federal Flammability Standards. <i>Journal of Industrial Textiles</i> , 2009, 38, 251-262.	1.1	22
22	Effect of Electron Beam and Gamma Rays on Carbon Nanotube Yarn Structure. <i>Materials Research</i> , 2017, 20, 386-392.	0.6	20
23	Development of structure and properties during thermal calendering of polylactic acid (PLA) fiber webs. <i>EXPRESS Polymer Letters</i> , 2008, 2, 49-56.	1.1	20
24	Effect of microfiber layers on acoustical absorptive properties of nonwoven fabrics. <i>Journal of Industrial Textiles</i> , 2020, 50, 312-332.	1.1	19
25	Evolution of Structure and Properties in a Spunbonding Process. <i>Textile Reseach Journal</i> , 1998, 68, 27-35.	1.1	18
26	Structure and properties of polypropylene-nanoclay composites. <i>Journal of Polymer Research</i> , 2013, 20, 1.	1.2	17
27	Rapid stabilization of acrylic fibers using ammonia: Effect on structure and morphology. <i>Journal of Applied Polymer Science</i> , 1993, 49, 2207-2219.	1.3	16
28	Structure and properties of polypropylene fibers during thermal bonding. <i>Thermochimica Acta</i> , 2001, 367-368, 155-160.	1.2	16
29	Polyacrylonitrile nanocomposite fibers from acrylonitrile-grafted carbon nanofibers. <i>Composites Part B: Engineering</i> , 2017, 130, 64-69.	5.9	16
30	Microstructure and performance characteristics of acoustic insulation materials from post-consumer recycled denim fabrics. <i>Journal of Industrial Textiles</i> , 2022, 51, 6001S-6027S.	1.1	16
31	Thermal bonding of polypropylene films and fibers. <i>Journal of Applied Polymer Science</i> , 2008, 110, 3047-3058.	1.3	15
32	High performance flexible wearable strain sensor based on rGO and AgNWs decorated PBT melt-blown non-woven fabrics. <i>Sensors and Actuators A: Physical</i> , 2020, 315, 112174.	2.0	15
33	Flexible temperature sensor based on RGO/CNTs@PBT melting blown nonwoven fabric. <i>Sensors and Actuators A: Physical</i> , 2022, 339, 113519.	2.0	15
34	Morphology and Properties of Nylon 6 Blown Films Reinforced with Different Weight Percentage of Nanoclay Additives. <i>International Journal of Polymer Science</i> , 2012, 2012, 1-14.	1.2	13
35	Nanoparticle effects on the morphology and mechanical properties of polypropylene spunbond webs. <i>Journal of Applied Polymer Science</i> , 2010, 118, 3141-3155.	1.3	12
36	Recent progress in developing ballistic and anti-impact materials: Nanotechnology and main approaches. <i>Defence Technology</i> , 2023, 21, 33-61.	2.1	12

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37	Different crystallization mechanisms in polypropyleneâ€“nanoclay nanocomposite with different weight percentage of nanoclay additives. <i>Journal of Materials Research</i> , 2012, 27, 1360-1371.	1.2	11
38	Effect of solvent/polymer infiltration and irradiation on microstructure and tensile properties of carbon nanotube yarns. <i>Journal of Materials Science</i> , 2016, 51, 10215-10228.	1.7	11
39	Effect of PCL and Compatibilizer on the Tensile and Barrier Properties of PLA/PCL Films. <i>Porrime</i> , 2017, 41, 181.	0.0	11
40	Development of structure and properties during spunbonding of propylene polymers. <i>Thermochimica Acta</i> , 2002, 392-393, 323-328.	1.2	10
41	Structure and properties development in poly(phenylene sulfide) fibers, part I: Effect of material and melt spinning process variables. <i>Journal of Applied Polymer Science</i> , 2011, 122, 3110-3121.	1.3	8
42	Effect of Process Parameters on Fiber Diameter and Fiber Distribution of Melt-Blown Polypropylene Microfibers Produced by Biax Line. <i>Fibers and Polymers</i> , 2021, 22, 285-293.	1.1	8
43	Investigation of the morphology of polypropyleneâ€“nanoclay nanocomposites. <i>Polymer International</i> , 2014, 63, 1112-1121.	1.6	7
44	Single-step process to improve the mechanical properties of carbon nanotube yarn. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 545-554.	1.5	7
45	Thermal characterization of sulfonated polyethylene fibers. <i>Thermochimica Acta</i> , 1993, 226, 123-132.	1.2	6
46	Development of the Structure and Properties of Polypropylene Copolymer and Homopolymer Filaments during a Spunbonding Process. <i>Journal of the Textile Institute</i> , 1998, 89, 289-303.	1.0	6
47	Structure and properties development in poly(phenylene sulfide) fibers. II. Effect of oneâ€“zone draw annealing. <i>Journal of Applied Polymer Science</i> , 2012, 125, 1890-1900.	1.3	6
48	Preparation and Characterization of magnetic PLA/Fe ₃ O ₄ -g-PLLA composite melt blown nonwoven fabric for air filtration. <i>Journal of Engineered Fibers and Fabrics</i> , 2020, 15, 155892502096822.	0.5	6
49	Barrier and mechanical properties of water-based polyurethane-coated hydroentangled cotton nonwovens. <i>Journal of Coatings Technology Research</i> , 2022, 19, 1255-1267.	1.2	6
50	Structure and property characterization of spunbonded filaments and webs using thermal analysis. <i>Journal of Applied Polymer Science</i> , 1998, 69, 421-434.	1.3	5
51	Conversion of Recycled Polymers/Fibers Into Melt-Blown Nonwovens. <i>Polymer-Plastics Technology and Engineering</i> , 1999, 38, 499-511.	1.9	5
52	Structure and properties enhancement in poly(phenylene sulfide) melt spun fibers. III. Effect of two zone drawing and annealing. <i>Journal of Applied Polymer Science</i> , 2012, 125, 1693-1700.	1.3	5
53	Nanofiber Manufacture, Properties, and Applications. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-1.	1.5	5
54	Microstructure and physical properties of composite nonwovens produced by incorporating cotton fibers in elastic spunbond and meltblown webs for medical textiles. <i>Journal of Industrial Textiles</i> , 2022, 51, 6028S-6050S.	1.1	5

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55	Binder fiber distribution and tensile properties of thermally point bonded cotton-based nonwovens. Journal of Applied Polymer Science, 2004, 91, 3148-3155.	1.3	4
56	Statistical Analysis of the Effect of Processing Conditions on the Strength of Thermal Point-Bonded Cotton-Based Nonwovens. Textile Reseach Journal, 2005, 75, 35-38.	1.1	4
57	Flame retardant antibacterial cotton high-loft nonwoven fabrics. Journal of Industrial Textiles, 2012, 41, 281-291.	1.1	4
58	Macroscopic Properties of Restacked, Redoxâ€Liquid Exfoliated Graphite and Graphite Mimics Produced in Bulk Quantities. Advanced Functional Materials, 2014, 24, 4969-4977.	7.8	4
59	Flame-retardant cotton barrier nonwovens for mattresses. Journal of Fire Sciences, 2013, 31, 276-290.	0.9	3
60	Processing of a High Temperature Imide Copolymer into Hollow Fibers. Materials and Manufacturing Processes, 2000, 15, 533-545.	2.7	1
61	Development of Structure and Properties during Spunbonding of Metallocene Catalyzed Polypropylene. Polymer-Plastics Technology and Engineering, 2008, 47, 542-549.	1.9	1
62	Nanofiber Manufacture, Properties, and Applications 2013. Journal of Nanomaterials, 2014, 2014, 1-2.	1.5	1
63	High-Yield Synthesis of Mesoscopic Conductive and Dispersible Carbon Nanostructures via Ultrasonication of Commercial Precursors. Industrial & Engineering Chemistry Research, 2014, 53, 9781-9791.	1.8	1
64	PROCESSING POSTCONSUMER RECYCLED PLASTICS. , 2007, , 357-383.		0
65	Influence of Molecular Orientation on the Melting Behavior of Poly(phenylene sulfide) Fibers. Journal of Engineered Fibers and Fabrics, 2013, 8, 155892501300800.	0.5	0