Jayita Bandyopadhyay

List of Publications by Year
in descending order

39	796	516710 16	526287 27
papers	citations	h-index	g-index

41	41	41	889
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanotechnology-enabled biomedical engineering: Current trends, future scopes, and perspectives. Nanotechnology Reviews, 2021, 10, 728-743.	5.8	26
2	Influence of nucleation and growth mechanisms on the heat deflection temperature of a reactively processed polypropylene nanocomposite. Polymer Engineering and Science, 2021, 61, 1195-1208.	3.1	5
3	Synthetic Biopolymers and Their Composites: Advantages and Limitationsâ€"An Overview. Macromolecular Rapid Communications, 2021, 42, e2100130.	3.9	79
4	Morphological characteristics and thermal, rheological, and mechanical properties of cellulose nanocrystalsâ€containing biodegradable poly(lactic acid)/poly(Îµâ€caprolactone) blend composites. Journal of Applied Polymer Science, 2020, 137, 48665.	2.6	14
5	UVâ€protection, tribology, and mechanical properties of ZnOâ€containing polyamide composites. Journal of Applied Polymer Science, 2020, 137, 48418.	2.6	9
6	Design of Poly(cyclotriphosphazene)-Functionalized Zirconium Phosphate Nanoplatelets To Simultaneously Enhance the Dynamic Mechanical and Flame Retardancy Properties of Polyamide 6. ACS Omega, 2020, 5, 13867-13877.	3.5	7
7	Flexible electrospun PET/TiO2 nanofibrous structures for dye-sensitized solar cell (DSSC) photoanodes. AIP Conference Proceedings, 2020, , .	0.4	1
8	Flexible electrospun PET/TiO₂ nanofibrous structures: Morphology, thermal and mechanical properties. Polymers for Advanced Technologies, 2020, 31, 1612-1623.	3.2	8
9	Morphological, thermal, and thermomechanical properties of cellulose nanocrystals reinforced polylactide/poly [(butylene succinate)-co-adipate] blend composite foams. Functional Composite Materials, 2020, 1, .	1.4	4
10	Cellulose Nanostructure-Based Biodegradable Nanocomposite Foams: A Brief Overview on the Recent Advancements and Perspectives. Polymers, 2019, 11, 1270.	4.5	30
11	Mechanism of Thermal Degradation-Induced Gel Formation in Polyamide 6/Ethylene Vinyl Alcohol Blend Nanocomposites Studied by Time-Resolved Rheology and Hyphenated Thermogravimetric Analyzer Fourier Transform Infrared Spectroscopy Mass Spectroscopy: Synergistic Role of Nanoparticles and Maleic-anhydride-Grafted Polypropylene. ACS Omega, 2019, 4, 9569-9582.	3.5	10
12	Are nanoclayâ€containing polymer composites safe for food packaging applications?â€"An overview. Journal of Applied Polymer Science, 2019, 136, 47214.	2.6	34
13	Blue- and red-shifts of V₂O₅phonons in NH₃environment byin situRaman spectroscopy. Journal Physics D: Applied Physics, 2018, 51, 015106.	2.8	14
14	Thermal Degradation Characteristic and Flame Retardancy of Polylactide-Based Nanobiocomposites. Molecules, 2018, 23, 2648.	3.8	25
15	Impact of Melt-Processing Strategy on Structural and Mechanical Properties: Clay-Containing Polypropylene Nanocomposites. Springer Series in Materials Science, 2018, , 127-154.	0.6	3
16	Structural Characterization of Polymer Nanocomposites. Springer Series in Materials Science, 2018, , 87-126.	0.6	2
17	Development of a highly nucleated and dimensionally stable isotactic polypropylene/nanoclay composite using reactive blending. Polymer, 2017, 117, 37-47.	3.8	18
18	Effect of the mode of nanoclay inclusion on morphology development and rheological properties of nylon6/ethylâ€"vinyl-alcohol blend composites. Polymer, 2017, 126, 96-108.	3.8	12

#	Article	IF	Citations
19	The Distribution of Nanoclay Particles at the Interface and Their Influence on the Microstructure Development and Rheological Properties of Reactively Processed Biodegradable Polylactide/Poly(butylene succinate) Blend Nanocomposites. Polymers, 2017, 9, 350.	4.5	39
20	Morphology, thermal properties and crystallization kinetics of ternary blends of the polylactide and starch biopolymers and nanoclay: The role of nanoclay hydrophobicity. Polymer, 2015, 71, 82-92.	3.8	40
21	Unique Coldâ€Crystallization Behavior and Kinetics of Biodegradable Poly[(butylene succinate)â€co adipate] Nanocomposites: A High Speed Differential Scanning Calorimetry Study. Macromolecular Materials and Engineering, 2014, 299, 939-952.	3.6	14
22	A combined experimental and theoretical approach to establish the relationship between shear force and clay platelet delamination in melt-processed polypropylene nanocomposites. Polymer, 2014, 55, 2233-2245.	3.8	25
23	Role of Nanoclay Shape and Surface Characteristics on the Morphology and Thermal Properties of Polystyrene Nanocomposites Synthesized via Emulsion Polymerization. Industrial & Engineering Chemistry Research, 2013, 52, 16220-16231.	3.7	14
24	Effect of Nanoclay on the Nonisothermal Crystallization of Poly(propylene) and its Blend with Poly[(butylene succinate)-co-adipate]. Molecular Crystals and Liquid Crystals, 2012, 556, 176-190.	0.9	3
25	The impact of nanoclay on the crystal growth kinetics and morphology of biodegradable poly(ethylene succinate) composite. Polymer, 2012, 53, 3602-3612.	3.8	21
26	Study of change in dispersion and orientation of clay platelets in a polymer nanocomposite during tensile test by variostage small-angle X-ray scattering. Polymer, 2012, 53, 1747-1759.	3.8	9
27	Determination of structural changes of dispersed clay platelets in a polymer blend during solid-state rheological property measurement by small-angle X-ray scattering. Polymer, 2011, 52, 2628-2642.	3.8	9
28	Structural Analysis of Liquid Crystal Polymer Based Nanocomposites by Xâ€Ray Scattering. Macromolecular Chemistry and Physics, 2010, 211, 1632-1639.	2.2	7
29	Effect of Nanoclay Incorporation on the Thermal Properties of Poly(ethylene terephthalate)/Liquid Crystal Polymer Blends. Macromolecular Materials and Engineering, 2010, 295, 822-837.	3.6	7
30	The quantitative analysis of nano-clay dispersion in polymer nanocomposites by small angle X-ray scattering combined with electron microscopy. Polymer, 2010, 51, 1437-1449.	3.8	73
31	Mechanism of enhanced tenacity in a polymer nanocomposite studied by small-angle X-ray scattering and electron microscopy. Polymer, 2010, 51, 4860-4866.	3.8	18
32	Thermal and Rheological Properties of Biodegradable Poly[(butylene succinate)-co-adipate] Nanocomposites. Journal of Nanoscience and Nanotechnology, 2010, 10, 4184-4195.	0.9	17
33	Viscoelastic Properties of Clayâ€Containing Nanocomposites of Thermotropic Liquidâ€Crystal Polymer. Macromolecular Chemistry and Physics, 2009, 210, 161-171.	2.2	5
34	Influence of degree of intercalation on the crystal growth kinetics of poly[(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (succi	5.4	47
35	Nonisothermal crystallization kinetics of poly(ethylene terephthalate) nanocomposites. Journal of Nanoscience and Nanotechnology, 2008, 8, 1812-22.	0.9	0
36	Effect of Organoclay on the Orientation and Thermal Properties of Liquidâ€Crystalline. Macromolecular Chemistry and Physics, 2007, 208, 1979-1991.	2.2	10

#	Article	IF	Citations
37	Effect of Organoclay on the Morphology and Properties of Poly(propylene)/Poly[(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	3.6	57
38	Macromol. Mater. Eng. 6/2007. Macromolecular Materials and Engineering, 2007, 292, 792-792.	3.6	0
39	Thermal and thermomechanical properties of poly[(butylene succinate)-co-adipate] nanocomposite. Polymer Degradation and Stability, 2007, 92, 802-812.	5.8	73