

# Jayita Bandyopadhyay

## List of Publications by Year in descending order

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39  
papers

796  
citations

516710

16  
h-index

526287

27  
g-index

41  
all docs

41  
docs citations

41  
times ranked

889  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Biopolymers and Their Composites: Advantages and Limitations—An Overview. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100130.	3.9	79
2	Thermal and thermomechanical properties of poly[(butylene succinate)-co-adipate] nanocomposite. <i>Polymer Degradation and Stability</i> , 2007, 92, 802-812.	5.8	73
3	The quantitative analysis of nano-clay dispersion in polymer nanocomposites by small angle X-ray scattering combined with electron microscopy. <i>Polymer</i> , 2010, 51, 1437-1449.	3.8	73
4	Effect of Organoclay on the Morphology and Properties of Poly(propylene)/Poly[(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td	3.6	57
5	Influence of degree of intercalation on the crystal growth kinetics of poly[(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 582	3.4	47
6	Morphology, thermal properties and crystallization kinetics of ternary blends of the polylactide and starch biopolymers and nanoclay: The role of nanoclay hydrophobicity. <i>Polymer</i> , 2015, 71, 82-92.	3.8	40
7	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. <i>Polymers</i> , 2017, 9, 350.	4.5	39
8	Are nanoclay-containing polymer composites safe for food packaging applications?—An overview. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47214.	2.6	34
9	Cellulose Nanostructure-Based Biodegradable Nanocomposite Foams: A Brief Overview on the Recent Advancements and Perspectives. <i>Polymers</i> , 2019, 11, 1270.	4.5	30
10	Nanotechnology-enabled biomedical engineering: Current trends, future scopes, and perspectives. <i>Nanotechnology Reviews</i> , 2021, 10, 728-743.	5.8	26
11	A combined experimental and theoretical approach to establish the relationship between shear force and clay platelet delamination in melt-processed polypropylene nanocomposites. <i>Polymer</i> , 2014, 55, 2233-2245.	3.8	25
12	Thermal Degradation Characteristic and Flame Retardancy of Polylactide-Based Nanobiocomposites. <i>Molecules</i> , 2018, 23, 2648.	3.8	25
13	The impact of nanoclay on the crystal growth kinetics and morphology of biodegradable poly(ethylene succinate) composite. <i>Polymer</i> , 2012, 53, 3602-3612.	3.8	21
14	Mechanism of enhanced tenacity in a polymer nanocomposite studied by small-angle X-ray scattering and electron microscopy. <i>Polymer</i> , 2010, 51, 4860-4866.	3.8	18
15	Development of a highly nucleated and dimensionally stable isotactic polypropylene/nanoclay composite using reactive blending. <i>Polymer</i> , 2017, 117, 37-47.	3.8	18
16	Thermal and Rheological Properties of Biodegradable Poly[(butylene succinate)-co-adipate] Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 4184-4195.	0.9	17
17	Role of Nanoclay Shape and Surface Characteristics on the Morphology and Thermal Properties of Polystyrene Nanocomposites Synthesized via Emulsion Polymerization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 16220-16231.	3.7	14
18	Unique Cold-Crystallization Behavior and Kinetics of Biodegradable Poly[(butylene succinate)-co-adipate] Nanocomposites: A High Speed Differential Scanning Calorimetry Study. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 939-952.	3.6	14

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19	Blue- and red-shifts of $V_{2O_5}$ phonons in $NH_3$ environment by <i>in situ</i> Raman spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 015106.	2.8	14
20	Morphological characteristics and thermal, rheological, and mechanical properties of cellulose nanocrystals containing biodegradable poly(lactic acid)/poly( $\mu$ -caprolactone) blend composites. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48665.	2.6	14
21	Effect of the mode of nanoclay inclusion on morphology development and rheological properties of nylon6/ethyl vinyl-alcohol blend composites. <i>Polymer</i> , 2017, 126, 96-108.	3.8	12
22	Effect of Organoclay on the Orientation and Thermal Properties of Liquid Crystalline. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1979-1991.	2.2	10
23	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. <i>ACS Omega</i> , 2019, 4, 9569-9582.	3.5	10
24	Determination of structural changes of dispersed clay platelets in a polymer blend during solid-state rheological property measurement by small-angle X-ray scattering. <i>Polymer</i> , 2011, 52, 2628-2642.	3.8	9
25	Study of change in dispersion and orientation of clay platelets in a polymer nanocomposite during tensile test by variostage small-angle X-ray scattering. <i>Polymer</i> , 2012, 53, 1747-1759.	3.8	9
26	UV protection, tribology, and mechanical properties of ZnO containing polyamide composites. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48418.	2.6	9
27	Flexible electrospun PET/TiO <sub>2</sub> nanofibrous structures: Morphology, thermal and mechanical properties. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1612-1623.	3.2	8
28	Structural Analysis of Liquid Crystal Polymer Based Nanocomposites by X-Ray Scattering. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1632-1639.	2.2	7
29	Effect of Nanoclay Incorporation on the Thermal Properties of Poly(ethylene terephthalate)/Liquid Crystal Polymer Blends. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 822-837.	3.6	7
30	Design of Poly(cyclotriphosphazene)-Functionalized Zirconium Phosphate Nanoplatelets To Simultaneously Enhance the Dynamic Mechanical and Flame Retardancy Properties of Polyamide 6. <i>ACS Omega</i> , 2020, 5, 13867-13877.	3.5	7
31	Viscoelastic Properties of Clay Containing Nanocomposites of Thermotropic Liquid Crystal Polymer. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 161-171.	2.2	5
32	Influence of nucleation and growth mechanisms on the heat deflection temperature of a reactively processed polypropylene nanocomposite. <i>Polymer Engineering and Science</i> , 2021, 61, 1195-1208.	3.1	5
33	Morphological, thermal, and thermomechanical properties of cellulose nanocrystals reinforced polylactide/poly [(butylene succinate)-co-adipate] blend composite foams. <i>Functional Composite Materials</i> , 2020, 1, .	1.4	4
34	Effect of Nanoclay on the Nonisothermal Crystallization of Poly(propylene) and its Blend with Poly[(butylene succinate)-co-adipate]. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 556, 176-190.	0.9	3
35	Impact of Melt-Processing Strategy on Structural and Mechanical Properties: Clay-Containing Polypropylene Nanocomposites. <i>Springer Series in Materials Science</i> , 2018, , 127-154.	0.6	3
36	Structural Characterization of Polymer Nanocomposites. <i>Springer Series in Materials Science</i> , 2018, , 87-126.	0.6	2

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37	Flexible electrospun PET/TiO <sub>2</sub> nanofibrous structures for dye-sensitized solar cell (DSSC) photoanodes. AIP Conference Proceedings, 2020, , .	0.4	1
38	Macromol. Mater. Eng. 6/2007. Macromolecular Materials and Engineering, 2007, 292, 792-792.	3.6	0
39	Nonisothermal crystallization kinetics of poly(ethylene terephthalate) nanocomposites. Journal of Nanoscience and Nanotechnology, 2008, 8, 1812-22.	0.9	0