

Jeffrey W Gilman

List of Publications by Year in descending order

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39
papers

4,404
citations

218381

26
h-index

315357

38
g-index

40
all docs

40
docs citations

40
times ranked

3945
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualization of Polymer Dynamics in Cellulose Nanocrystal Matrices Using Fluorescence Lifetime Measurements. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10793-10804.	4.0	3
2	Fluorescently Labeled Cellulose Nanofibers for Environmental Health and Safety Studies. <i>Nanomaterials</i> , 2021, 11, 1015.	1.9	13
3	Activation of Mechanophores in a Thermoset Matrix by Instrumented Scratch. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55498-55506.	4.0	9
4	Quantifying Fluorogenic Dye Hydration in an Epoxy Resin by Noncontact Microwave Dielectric Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2914-2919.	1.2	3
5	Fluorescence Lifetime Imaging of Alkyl Ammonium Modified Self-Assembled Helicoidal Cellulose Nano Crystal Films: How Reactivity Controls Polymer Dynamics. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3018-3018.	0.0	0
6	The Effect of Cellulose Nanocrystal Coatings on the Glass Fiber-Epoxy Interphase. <i>Materials</i> , 2019, 12, 1951.	1.3	14
7	Tuning the High-Temperature Wetting Behavior of Metals toward Ultrafine Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2625-2629.	7.2	9
8	Tuning the High-Temperature Wetting Behavior of Metals toward Ultrafine Nanoparticles. <i>Angewandte Chemie</i> , 2018, 130, 2655-2659.	1.6	1
9	Bioinspired Bouligand cellulose nanocrystal composites: a review of mechanical properties. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170050.	1.6	66
10	Binary Cellulose Nanocrystal Blends for Bioinspired Damage Tolerant Photonic Films. <i>Advanced Functional Materials</i> , 2018, 28, 1800032.	7.8	63
11	Dielectric Characterization of Confined Water in Chiral Cellulose Nanocrystal Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14222-14231.	4.0	45
12	Observation of Interfacial Damage in a Silk-Epoxy Composite, Using a Simple Mechanoresponsive Fluorescent Probe. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601018.	1.9	33
13	Simultaneously Tailoring Surface Energies and Thermal Stabilities of Cellulose Nanocrystals Using Ion Exchange: Effects on Polymer Composite Properties for Transportation, Infrastructure, and Renewable Energy Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27270-27281.	4.0	47
14	Synthesis and characterization of isosorbide-based polyphosphonates as biobased flame-retardants. <i>Polymer Chemistry</i> , 2014, 5, 5139.	1.9	85
15	An overview of flame retardancy of polymeric materials: application, technology, and future directions. <i>Fire and Materials</i> , 2013, 37, 259-279.	0.9	352
16	Formation of extended ionomeric network by bulk polymerization of l,d-lactide with layered-double-hydroxide. <i>Polymer</i> , 2013, 54, 90-101.	1.8	3
17	Ionic liquids-based processing of electrically conducting chitin nanocomposite scaffolds for stem cell growth. <i>Green Chemistry</i> , 2013, 15, 1192.	4.6	30
18	Smoldering in Flexible Polyurethane Foams: The Effect of Foam Morphology. <i>ACS Symposium Series</i> , 2012, , 459-479.	0.5	3

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19	Char-forming behavior of nanofibrillated cellulose treated with glycidyl phenyl POSS. <i>Carbohydrate Polymers</i> , 2012, 88, 847-858.	5.1	34
20	Revealing the Interface in Polymer Nanocomposites. <i>ACS Nano</i> , 2011, 5, 3391-3399.	7.3	66
21	The pillaring effect of the 1,2-dimethyl-3(benzyl ethyl iso-butyl POSS) imidazolium cation in polymer/montmorillonite nanocomposites. <i>Polymer</i> , 2011, 52, 5335-5343.	1.8	14
22	Flame retardancy of poly(styrene-co-acrylonitrile) by the synergistic interaction between clay and phosphomolybdate hydrates. <i>Polymer Degradation and Stability</i> , 2011, 96, 1000-1008.	2.7	11
23	Effect of carbon nanotubes and montmorillonite on the flammability of epoxy nanocomposites. <i>Polymer Degradation and Stability</i> , 2010, 95, 870-879.	2.7	97
24	Length-Dependent Mechanics of Carbon-Nanotube Networks. <i>Advanced Materials</i> , 2009, 21, 874-878.	11.1	58
25	Orientation dynamics in multiwalled carbon nanotube dispersions under shear flow. <i>Journal of Chemical Physics</i> , 2009, 130, 214903.	1.2	57
26	Flammability reduction of flexible polyurethane foams via carbon nanofiber network formation. <i>Polymers for Advanced Technologies</i> , 2008, 19, 588-595.	1.6	93
27	Use of a Polyhedral Oligomeric Silsesquioxane (POSS)-Imidazolium Cation as an Organic Modifier for Montmorillonite. <i>Langmuir</i> , 2007, 23, 7707-7714.	1.6	75
28	A study of the flammability reduction mechanism of polystyrene-layered silicate nanocomposite: layered silicate reinforced carbonaceous char. <i>Polymers for Advanced Technologies</i> , 2006, 17, 263-271.	1.6	116
29	Relationships between Structure and Rheology in Model Nanocomposites of Ethylene-Vinyl-Based Copolymers and Organoclays. <i>Macromolecules</i> , 2005, 38, 3765-3775.	2.2	60
30	Optical Probes for Monitoring Intercalation and Exfoliation in Melt-Processed Polymer Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2004, 25, 788-792.	2.0	37
31	Kinetic analysis of the thermal degradation of polystyrene-montmorillonite nanocomposite. <i>Polymer Degradation and Stability</i> , 2004, 84, 483-492.	2.7	196
32	Solid state NMR characterization and flammability of styrene-acrylonitrile copolymer montmorillonite nanocomposite. <i>Polymer</i> , 2004, 45, 7627-7638.	1.8	96
33	Improved Thermal Stability of Organically Modified Layered Silicates. <i>Clays and Clay Minerals</i> , 2004, 52, 171-179.	0.6	72
34	Characterization of polymer-layered silicate (clay) nanocomposites by transmission electron microscopy and X-ray diffraction: A comparative study. <i>Journal of Applied Polymer Science</i> , 2003, 87, 1329-1338.	1.3	575
35	Investigation of nanodispersion in polystyrene-montmorillonite nanocomposites by solid-state NMR. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 3188-3213.	2.4	122
36	Polymer/Layered Silicate Nanocomposites from Thermally Stable Trialkylimidazolium-Treated Montmorillonite. <i>Chemistry of Materials</i> , 2002, 14, 3776-3785.	3.2	281

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37	Characterization of the Dispersion of Clay in a Polyetherimide Nanocomposite. <i>Macromolecules</i> , 2001, 34, 2735-2738.	2.2	89
38	Flammability Properties of Polymer-Layered-Silicate Nanocomposites. Polypropylene and Polystyrene Nanocomposites. <i>Chemistry of Materials</i> , 2000, 12, 1866-1873.	3.2	1,451
39	Characterization of flame-retarded polymer combustion chars by solid-state ^{13}C and ^{29}Si NMR and EPR. <i>Fire and Materials</i> , 1998, 22, 61-67.	0.9	25