

# Sun-Mou Lai

## List of Publications by Year in descending order

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75  
papers

1,888  
citations

236925

25  
h-index

276875

41  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2024  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on the polyamide 6/organoclay nanocomposites with or without a maleated polyolefin elastomer as a toughener. <i>Polymer</i> , 2005, 46, 11600-11609.	3.8	139
2	Shape memory properties of melt-blended polylactic acid (PLA)/thermoplastic polyurethane (TPU) bio-based blends. <i>Journal of Polymer Research</i> , 2013, 20, 1.	2.4	133
3	Interfacial bonding, energy dissipation, and adhesion. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 1543-1555.	2.1	116
4	Unusual mechanical properties of melt-blended poly(lactic acid) (PLA)/clay nanocomposites. <i>European Polymer Journal</i> , 2014, 52, 193-206.	5.4	94
5	Combined effects of clay modifications and compatibilizers on the formation and physical properties of melt-mixed polypropylene/clay nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 4139-4150.	2.1	91
6	Preparation and properties of biodegradable poly(butylene succinate)/starch blends. <i>Journal of Applied Polymer Science</i> , 2005, 97, 257-264.	2.6	70
7	Viscoelastic Effects in Cutting and Tearing Rubber. <i>Rubber Chemistry and Technology</i> , 1994, 67, 610-618.	1.2	69
8	Preparation and properties of biodegradable thermoplastic starch/poly(hydroxy butyrate) blends. <i>Journal of Applied Polymer Science</i> , 2006, 100, 2371-2379.	2.6	67
9	Melt mixed compatibilized polypropylene/clay nanocomposites: Part 1 "the effect of compatibilizers on optical transmittance and mechanical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 754-765.	7.6	60
10	Adhesion and Autohesion of Rubber Compounds: Effect of Surface Roughness. <i>Rubber Chemistry and Technology</i> , 1995, 68, 13-25.	1.2	44
11	Properties and preparation of thermoplastic polyurethane/silica hybrid using sol-gel process. <i>Journal of Applied Polymer Science</i> , 2005, 97, 1316-1325.	2.6	42
12	Preparation and Properties of Polylactic Acid (PLA)/Silica Nanocomposites. <i>Journal of Macromolecular Science - Physics</i> , 2016, 55, 211-228.	1.0	42
13	Properties and preparation of compatibilized nylon 6 nanocomposites/ABS blends: Part II "Physical and thermal properties. <i>European Polymer Journal</i> , 2007, 43, 1660-1671.	5.4	41
14	Characterization and Properties of Reactive Poly(lactic acid)/Polyamide 610 Biomass Blends. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2563-2571.	2.6	40
15	Characterization and comparison of metallocene-catalyzed polyethylene/thermoplastic starch blends and nanocomposites. <i>Polymer Testing</i> , 2009, 28, 243-250.	4.8	38
16	Annealing effect on the shape memory properties of polylactic acid (PLA)/thermoplastic polyurethane (TPU) bio-based blends. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	38
17	Properties and preparation of compatibilized nylon 6 nanocomposites/ABS blends using functionalized metallocene polyolefin elastomer. I. Impact properties. <i>Journal of Applied Polymer Science</i> , 2006, 100, 1364-1371.	2.6	37
18	Graft reaction of acrylic acid onto metallocene-based polyethylene-octene elastomer. <i>Journal of Applied Polymer Science</i> , 2002, 85, 2905-2912.	2.6	36

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19	The Properties and Preparation of Chitosan/Silica Hybrids Using Sol-Gel Process. <i>Polymer-Plastics Technology and Engineering</i> , 2006, 45, 997-1003.	1.9	35
20	Preparation and properties of luffa fiber- and kenaf fiber-filled poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (succinate-co-	4.8	35
21	Preparation, structure, and properties of styrene-ethylene-butylene-styrene block copolymer/clay nanocomposites: Part III. Effectiveness of compatibilizers. <i>European Polymer Journal</i> , 2007, 43, 2254-2264.	5.4	32
22	Miscibility and toughness improvement of poly(lactic acid)/poly(3-Hydroxybutyrate) blends using a melt-induced degradation approach. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	31
23	The preparation and properties of compatibilized nylon 6/ABS blends using functionalized polybutadiene. Part I: Impact properties. <i>Polymer Engineering and Science</i> , 2005, 45, 1461-1470.	3.1	29
24	Two-way multi-shape memory properties of peroxide crosslinked ethylene vinyl acetate copolymer (EVA)/polycaprolactone (PCL) blends. <i>Polymers for Advanced Technologies</i> , 2018, 29, 2010-2024.	3.2	29
25	Preparation and properties of styrene-ethylene-butylene-styrene block copolymer/clay nanocomposites: I. Effect of clay content and compatibilizer types. <i>Polymer International</i> , 2008, 57, 515-522.	3.1	26
26	Preparation and characterization of biodegradable polymer blends from poly(3-hydroxybutyrate)/poly(vinyl acetate)-modified corn starch. <i>Polymer Engineering and Science</i> , 2015, 55, 1321-1329.	3.1	25
27	Triple-shape memory properties of thermoplastic polyurethane/olefin block copolymer/polycaprolactone blends. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	24
28	Two-way shape memory effects of sulfur vulcanized natural rubber (NR) and NR/paraffin wax (PW)/carbon nanotube (CNT) nanocomposites. <i>Polymer Testing</i> , 2019, 77, 105892.	4.8	22
29	Properties and preparation of thermoplastic polyurethane/silica hybrids using a modified sol-gel process. <i>Polymer Engineering and Science</i> , 2007, 47, 77-86.	3.1	21
30	Preparation of Self-healing Natural Rubber/Polycaprolactone (NR/PCL) Blends. <i>Journal of Macromolecular Science - Physics</i> , 2020, 59, 587-607.	1.0	19
31	STUDY ON THE GRAFT REACTION OF MALEIC ANHYDRIDE ONTO METALLOCENE-BASED POLYETHYLENE-OCTENE ELASTOMER. <i>Polymer-Plastics Technology and Engineering</i> , 2002, 41, 645-661.	1.9	18
32	Shape memory properties of olefin block copolymer (OBC)/poly(ε-caprolactone) (PCL) blends. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45475.	2.6	17
33	Preparation, structure, and properties of styrene-ethylene-butylene-styrene block copolymer/clay nanocomposites: Part II fracture behaviors. <i>European Polymer Journal</i> , 2008, 44, 3535-3547.	5.4	16
34	Preparation and properties of chitosan/clay (nano)composites: a silanol quaternary ammonium intercalated clay. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	16
35	Reactive compatibilization of poly(lactic acid)/polyethylene octene copolymer blends with ethylene-glycidyl methacrylate copolymer. <i>Journal of Polymer Engineering</i> , 2011, 31, .	1.4	15
36	Preparation and properties of melt-mixed metallocene polyethylene/silica nanocomposites. <i>Polymer Engineering and Science</i> , 2011, 51, 434-444.	3.1	14

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37	Shape Memory Properties of Melt-Blended Olefin Block Copolymer (OBC)/Ethylene-Vinyl Acetate Blends. <i>Journal of Macromolecular Science - Physics</i> , 2019, 58, 174-191.	1.0	14
38	Twin Screw Compounding of PE-HD Wood Flour Composites. <i>International Polymer Processing</i> , 2001, 16, 100-107.	0.5	13
39	Fracture behaviors of metallocene-catalyzed polyethylene elastomer via silane crosslinking. <i>Journal of Applied Polymer Science</i> , 2006, 101, 2472-2481.	2.6	13
40	Effectiveness of a maleated compatibilizer on the tensile and tear properties of peroxide-cured metallocene polyethylene/clay nanocomposites. <i>Journal of Polymer Research</i> , 2011, 18, 1033-1042.	2.4	13
41	Preparation and properties of thermally conductive PLA/PA 610 biomass composites. <i>Journal of Elastomers and Plastics</i> , 2020, 52, 53-69.	1.5	13
42	Role of silane crosslinking on the properties of melt blended metallocene polyethylene-silane/clay nanocomposites at various clay contents. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2669-2681.	2.6	12
43	Preparation and properties of melt-blended polylactic acid/polyethylene glycol-modified silica nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 130, 496-503.	2.6	12
44	Mechanical Properties of Nylon 6,6/Polyvinyl Butyral Blends. <i>Polymer-Plastics Technology and Engineering</i> , 2006, 45, 421-428.	1.9	11
45	Characterization of nylon 6/ABS blends with and without a maleated polybutadiene as compatibilizer. <i>Journal of Polymer Research</i> , 2011, 18, 627-635.	2.4	10
46	Synergistic effects by compatibilization and annealing treatment of metallocene polyethylene/PLA blends. <i>Journal of Applied Polymer Science</i> , 2013, 130, 2399-2409.	2.6	10
47	Preparation and Properties of Natural Rubber (NR)/Polycaprolactone (PCL) Bio-Based Shape Memory Polymer Blends. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 645-661.	1.0	10
48	Preparation and Characterization of Ethylene Vinyl-Acetate Copolymer/Silicone Blends with Excellent Two-Way Shape Memory Properties. <i>Macromolecular Research</i> , 2018, 26, 984-997.	2.4	10
49	Properties and characterization of near infrared-triggered natural rubber (NR)/carnauba wax (CW)/carbon nanotube (CNT) shape memory bio-nanocomposites. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	10
50	Novel two-way multiple shape memory effects of olefin block copolymer (OBC)/polycaprolactone (PCL) blends. <i>Polymer Testing</i> , 2021, 102, 107333.	4.8	10
51	Fracture behaviors of silane-cured metallocene-catalyzed polyethylene thermoplastic vulcanizate. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 2207-2218.	2.1	9
52	Compatibility improvement of poly(lactic acid)/thermoplastic polyurethane blends with 3-aminopropyl triethoxysilane. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	9
53	Effect of Thermoplastic Polyurethane-Modified Silica on Melt-Blended Poly(Lactic Acid) (PLA) Nanocomposites. <i>Polymers and Polymer Composites</i> , 2017, 25, 583-592.	1.9	9
54	Fracture behaviors of metallocene catalyzed polyethylene elastomer via peroxide crosslinking. <i>Journal of Applied Polymer Science</i> , 2009, 113, 3791-3798.	2.6	8

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55	Properties of sugarcane fiber/polyurethane crosslinked epoxy composites under different interfacial treatments. <i>Polymer Composites</i> , 2020, 41, 4277-4287.	4.6	8
56	Preparation and characterization of two-way shape memory olefin block copolymer/silicone elastomeric blends. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51238.	2.6	8
57	Effect of pyrolysis carbon black from waste tires on the properties of styrene-butadiene rubber compounds. <i>Polymers and Polymer Composites</i> , 2021, 29, 75-86.	1.9	6
58	Melt mixed compatibilized polypropylene/clay nanocomposites. II. Dispersion vs. thermal properties, optical transmittance, and fracture behaviors. <i>Journal of Composite Materials</i> , 2011, 45, 2613-2631.	2.4	5
59	Shape Memory Properties of Melt-Blended Ethylene Vinyl Acetate (Eva)/Metallocene Polyethylene Eco-Blends. <i>Journal of Macromolecular Science - Physics</i> , 2017, 56, 97-113.	1.0	5
60	A novel multi-triggered natural rubber (NR)/beeswax (BW)/carbon nanotube (CNT) shape memory bio-nanocomposite. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	5
61	Preparation and Properties of Metallocene-catalyzed PE/Starch Nanocomposites: Role of Nanocompatibilizer. <i>International Polymer Processing</i> , 2007, 22, 502-511.	0.5	5
62	The Characterization of Biodegradable Polybutylene Succinate/ Starch Blends Using HDPE-g-Acrylic Acid as a Compatibilizer. <i>Polymers and Polymer Composites</i> , 2006, 14, 365-376.	1.9	4
63	Preparation and characterization of polystyrene sulfonic acid-co-maleic acid copolymer modified silica nanoparticles. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	4
64	Synergistic Effects of Thermal and Near-Infrared Radiation Heating on the Self-Healing Effect of Shape Memory Polyethylene Elastomer Nanocomposites. <i>Journal of Macromolecular Science - Physics</i> , 2022, 61, 61-79.	1.0	4
65	Melt Mixed Polypropylene/Metallocene Polyethylene Thermoplastic Elastomer Nanocomposites: Part I: Effect of Silane Modification. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 551-566.	1.0	3
66	Effect of Clay Types on the Properties of Silane Compatibilized Metallocene Polyethylene/Clay Nanocomposites. <i>Polymers and Polymer Composites</i> , 2015, 23, 451-460.	1.9	3
67	Properties and preparation of olefin block copolymer/thermoplastic polyurethane blends. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	3
68	Properties and Preparation of Peroxide Cured PP/ Low Crystalline MPE Thermoplastic Vulcanizate. <i>Journal of Macromolecular Science - Physics</i> , 2008, 47, 859-873.	1.0	2
69	Fracture Behaviors of pp/mPE Thermoplastic Vulcanizates Via Silane Crosslinking. <i>Journal of Polymer Engineering</i> , 2008, 28, .	1.4	2
70	Properties and Preparation of Chitosan/Silanol Quaternary Ammonium Modified Silica Hybrids Using Sol-Gel Process. <i>Journal of Macromolecular Science - Physics</i> , 2011, 50, 1430-1446.	1.0	2
71	Effect of intercalant types on the properties of melt blended metallocene polyethylene/metallocene polyethylene-g-silane/clay nanocomposites. <i>Journal of Polymer Engineering</i> , 2012, 32, 475-485.	1.4	2
72	Preparation and properties of melt blended metallocene polyethylene/silica nanocomposites: modifier effects. <i>Journal of Polymer Engineering</i> , 2012, 32, .	1.4	0

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73	The Properties of Melt-Blended Compatibilized Metallocene Polyethylene/Clay Nanocomposites. <i>Polymers and Polymer Composites</i> , 2013, 21, 27-36.	1.9	0
74	Preparation and Properties of Polyamide/Polyethylene/Near Infrared Reflective Pigment Composites. <i>Journal of Macromolecular Science - Physics</i> , 2018, 57, 497-515.	1.0	0
75	Self-Healing and Shape Memory Behavior of Functionalized Polyethylene Elastomer Modified by Zinc Oxide and Stearic Acid. <i>Journal of Macromolecular Science - Physics</i> , 0, , 1-21.	1.0	0