

Chang Mou Wu

List of Publications by Year in descending order

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84
papers

2,756
citations

172207

29
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197535

49
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85
all docs

85
docs citations

85
times ranked

3063
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain and stress concentration of ductile composites in full-range deformation by digital image correlation. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 3817-3825.	1.5	3
2	Long-term open-hole tensile creep properties of self-reinforced PET composites measured by digital image correlation. <i>Materials Chemistry and Physics</i> , 2022, 278, 125633.	2.0	8
3	Highly Efficient MoS ₂ /CsxWO ₃ Nanocomposite Hydrogen Gas Sensors. <i>Frontiers in Materials</i> , 2022, 9, .	1.2	12
4	Effects of patterned electrode on near infrared light-triggered cesium tungsten bronze/poly(vinylidene)fluoride nanocomposite-based pyroelectric nanogenerator for energy harvesting. <i>Journal of Power Sources</i> , 2022, 536, 231524.	4.0	34
5	Waste-to-energy: Utilization of recycled waste materials to fabricate triboelectric nanogenerator for mechanical energy harvesting. <i>Journal of Cleaner Production</i> , 2022, 363, 132532.	4.6	49
6	Pin hole tensile and fatigue properties of self-reinforced PET composites. <i>Composite Structures</i> , 2021, 255, 112981.	3.1	12
7	Scalable preparation of ultrathin porous polyurethane membrane-based triboelectric nanogenerator for mechanical energy harvesting. <i>EXPRESS Polymer Letters</i> , 2021, 15, 1019-1031.	1.1	14
8	Highly sensitive electrospun poly(HEMA-co-NMA)/BPDO nanofiber membranes for sensing metal ions in aqueous media. <i>EXPRESS Polymer Letters</i> , 2021, 15, 515-530.	1.1	6
9	Immobilization of cross-linked In-doped Mo(O,S) ₂ on cellulose nanofiber for effective organic-compound degradation under visible light illumination. <i>Progress in Natural Science: Materials International</i> , 2021, 31, 404-413.	1.8	11
10	Novel carbon nanofibers/thionickel ferrite/polyaniline (CNF/NiFe ₂ S ₄ /PANI) ternary nanocomposite for high performance supercapacitor. <i>Materials Chemistry and Physics</i> , 2021, 262, 124253.	2.0	22
11	Cesium tungsten bronze nanostructures and their highly enhanced hydrogen gas sensing properties at room temperature. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 25752-25762.	3.8	18
12	Highly-efficient and salt-resistant CsxWO ₃ @g-C ₃ N ₄ /PVDF fiber membranes for interfacial water evaporation, desalination, and sewage treatment. <i>Composites Science and Technology</i> , 2021, 211, 108865.	3.8	40
13	NIR Light Stimulated Self-Healing Reduced Tungsten Oxide/Polyurethane Nanocomposite Based on the Diels-Alder Reaction. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100438.	1.7	18
14	Magnetic recyclable self-floating solar light-driven WO _{2.72} /Fe ₃ O ₄ nanocomposites immobilized by Janus membrane for photocatalysis of inorganic and organic pollutants. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 102, 25-34.	2.9	31
15	Novel multifunctional RbxWO ₃ @Fe ₃ O ₄ immobilized Janus membranes for desalination and synergic-photocatalytic water purification. <i>Desalination</i> , 2021, 517, 115256.	4.0	51
16	Photocatalytic, antibacterial, and deodorization activity of recycled triacetate cellulose nanocomposites. <i>Materials Chemistry and Physics</i> , 2020, 240, 122260.	2.0	27
17	Switchable Wettability of Poly(NIPAAm-co-HEMA-co-NMA) Coated PET Fabric for Moisture Management. <i>Polymers</i> , 2020, 12, 100.	2.0	12
18	Acoustic-electric conversion and piezoelectric properties of electrospun polyvinylidene fluoride/silver nanofibrous membranes. <i>EXPRESS Polymer Letters</i> , 2020, 14, 103-114.	1.1	31

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19	Highly efficient photocatalytic activity of Ag ₃ VO ₄ /WO _{2.72} nanocomposites for the degradation of organic dyes from the ultraviolet to near-infrared regions. <i>Applied Surface Science</i> , 2020, 512, 145618.	3.1	41
20	Magnetically separable highly efficient full-spectrum light-driven WO _{2.72} /Fe ₃ O ₄ nanocomposites for photocatalytic reduction of carcinogenic chromium (VI) and organic dye degradation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 117, 123-132.	2.7	38
21	Effects of cellulose nanofiber on the thermal, mechanical, and optical properties of triacetate cellulose nanocomposites. <i>EXPRESS Polymer Letters</i> , 2020, 14, 467-476.	1.1	7
22	Friction behaviors of staple carbon fiber composites. <i>Modern Physics Letters B</i> , 2020, 34, 2040002.	1.0	4
23	Friction and Wear Performance of Staple Carbon Fabric-Reinforced Composites: Effects of Surface Topography. <i>Polymers</i> , 2020, 12, 141.	2.0	11
24	RbxWO ₃ /Ag ₃ VO ₄ nanocomposites as efficient full-spectrum (UV, visible, and near-infrared) photocatalysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 102, 465-474.	2.7	17
25	Photothermal-responsive tungsten bronze/recycled cellulose triacetate porous fiber membranes for efficient light-driven interfacial water evaporation. <i>Solar Energy</i> , 2019, 194, 391-399.	2.9	40
26	Investigation on the interface modification of PET/PP composites. <i>Modern Physics Letters B</i> , 2019, 33, 1940019.	1.0	4
27	Surface-activity of anionic/nonionic surfactants and the dispersibility of TiO ₂ particles in aqueous solution. <i>Modern Physics Letters B</i> , 2019, 33, 1940001.	1.0	1
28	Interactions of modified Gemini surfactants: Interactions with direct dyes and dyeing properties in cotton fabrics. <i>Modern Physics Letters B</i> , 2019, 33, 1940002.	1.0	1
29	Infrared-driven poly(vinylidene difluoride)/tungsten oxide pyroelectric generator for non-contact energy harvesting. <i>Composites Science and Technology</i> , 2019, 178, 26-32.	3.8	21
30	Synthesis and Physical Properties of Non-Crystalline Nylon 6 Containing Dimer Acid. <i>Polymers</i> , 2019, 11, 386.	2.0	9
31	Recent Advances in Tungsten-Oxide-Based Materials and Their Applications. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	125
32	The aerodynamic roughness of textile materials. <i>Journal of the Textile Institute</i> , 2019, 110, 771-779.	1.0	8
33	Stereolithographic and molding fabrications of hydroxyapatite-polymer gels applicable to bone regeneration materials. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 92, 91-96.	2.7	8
34	Optimizing parameters for continuous electrospinning of polyacrylonitrile nanofibrous yarn using the Taguchi method. <i>Journal of Industrial Textiles</i> , 2018, 48, 559-579.	1.1	20
35	Melt Electrospun Reduced Tungsten Oxide /Polylactic Acid Fiber Membranes as a Photothermal Material for Light-Driven Interfacial Water Evaporation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28955-28962.	4.0	106
36	Barrier Properties of Layered-Silicate Reinforced Ethylenepropylenediene Monomer/Chloroprene Rubber Nanorubbers. <i>Nanomaterials</i> , 2018, 8, 314.	1.9	6

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37	Piezoelectric Response of Aligned Electrospun Polyvinylidene Fluoride/Carbon Nanotube Nanofibrous Membranes. <i>Nanomaterials</i> , 2018, 8, 420.	1.9	106
38	Study of braiding commingled self-reinforced PET composites. <i>International Journal of Modern Physics B</i> , 2018, 32, 1840086.	1.0	2
39	Oil-Water Separation of Electrospun Cellulose Triacetate Nanofiber Membranes Modified by Electrophoretically Deposited TiO ₂ /Graphene Oxide. <i>Polymers</i> , 2018, 10, 746.	2.0	35
40	Effect of high temperature treatment on electrochemical properties of carbon nanofiber membrane. <i>Fibers and Polymers</i> , 2017, 18, 882-890.	1.1	0
41	Synthesis and highly effective purification of silver nanowires to enhance transmittance at low sheet resistance with simple polyol and scalable selective precipitation method. <i>RSC Advances</i> , 2017, 7, 16139-16148.	1.7	84
42	Compatibilizer effect on Organosilicate reinforced NBR nanocomposites. <i>Journal of Polymer Research</i> , 2017, 24, 1.	1.2	3
43	Cellulose fibers functionalized by metal nanoparticles stabilized in dendrimer for formaldehyde decomposition and antimicrobial activity. <i>Chemical Engineering Journal</i> , 2017, 311, 340-347.	6.6	35
44	Highly Efficient Near Infrared Photothermal Conversion Properties of Reduced Tungsten Oxide/Polyurethane Nanocomposites. <i>Nanomaterials</i> , 2017, 7, 191.	1.9	47
45	Long-term creep behavior of self-reinforced PET composites. <i>EXPRESS Polymer Letters</i> , 2017, 11, 820-831.	1.1	23
46	Effects of Surface Modification on the Mechanical Properties of Flax/ ¹ 2-Polypropylene Composites. <i>Materials</i> , 2016, 9, 314.	1.3	50
47	Fracture behavior and damage development in self-reinforced PET composites assessed by located acoustic emission and thermography: Effects of flame retardant and recycled PET. <i>Composites Science and Technology</i> , 2016, 132, 76-83.	3.8	27
48	Sound absorption of electrospun polyvinylidene fluoride/graphene membranes. <i>European Polymer Journal</i> , 2016, 82, 35-45.	2.6	57
49	Mechanical and open hole tensile properties of self-reinforced PET composites with recycled PET fiber reinforcement. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	20
50	Fabrication and characterization of continuous silver nanofiber/polyvinylpyrrolidone (AgNF/PVP) core-shell nanofibers using the coaxial electrospinning process. <i>RSC Advances</i> , 2016, 6, 54162-54168.	1.7	18
51	Preparation and characterization of poly(lactic acid)/recycled polypropylene blends with and without the coupling agent, n-(6-aminohexyl)aminomethyltriethoxysilane. <i>Journal of Polymer Research</i> , 2016, 23, 1.	1.2	9
52	Recyclability of thin nylon film-supported p-CuBiS ₂ /n-TiO ₂ heterojunction-based nanocomposites for visible light photocatalytic degradation of organic dye. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	15
53	Rheological properties of graphene/nylon 6 nanocomposites prepared by masterbatch melt mixing. <i>Journal of Polymer Research</i> , 2016, 23, 1.	1.2	12
54	Fabrication and mechanical properties of self-reinforced polyester composites by double covered uncommingled yarn. <i>Polymer Composites</i> , 2016, 37, 3331-3340.	2.3	7

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55	Polymorphism, piezoelectricity and sound absorption of electrospun PVDF membranes with and without carbon nanotubes. <i>Composites Science and Technology</i> , 2016, 127, 127-133.	3.8	147
56	Using Motion Sensor for Landslide Monitoring and Hazard Mitigation. <i>Smart Sensors, Measurement and Instrumentation</i> , 2015, , 111-127.	0.4	2
57	Graphene modified electrospun poly(vinyl alcohol) nanofibrous membranes for glucose oxidase immobilization. <i>EXPRESS Polymer Letters</i> , 2014, 8, 565-573.	1.1	28
58	Interactions between silver nanoparticles and polyvinyl alcohol nanofibers. <i>AIP Advances</i> , 2014, 4, .	0.6	28
59	Influence of laminate lay-up, hole size and coupling agent on the open hole tensile properties of flax yarn reinforced polypropylene laminates. <i>Composites Part B: Engineering</i> , 2014, 57, 80-85.	5.9	27
60	Effects of surface modifications on the interfacial bonding of flax/f ² -polypropylene composites. <i>Composite Interfaces</i> , 2013, 20, 483-496.	1.3	20
61	Effect of reinforcement on the mechanical and thermal properties of flax/polypropylene interwoven fabric composites. <i>Journal of Industrial Textiles</i> , 2013, 42, 417-433.	1.1	57
62	Open hole flexural and izod impact strength of unidirectional flax yarn reinforced polypropylene composites as a function of laminate layup. <i>Polymer Composites</i> , 2013, 34, 1912-1920.	2.3	11
63	Effects of crystalline morphologies on the mechanical properties of carbon fiber reinforcing polymerized cyclic butylene terephthalate composites. <i>EXPRESS Polymer Letters</i> , 2012, 6, 318-328.	1.1	29
64	Effect of different knitted structure on the mechanical properties and damage behavior of Flax/PLA (Poly Lactic acid) double covered uncommingled yarn composites. <i>Composites Part B: Engineering</i> , 2012, 43, 2836-2842.	5.9	36
65	Optimum consolidation of all-epolyester woven fabric-reinforced composite laminates by film stacking. <i>Polymer Composites</i> , 2012, 33, 245-252.	2.3	13
66	Effects of electrostatic polarity and the types of electrical charging on electrospinning behavior. <i>Journal of Applied Polymer Science</i> , 2012, 126, E89.	1.3	28
67	Effects of Carbon-Fiber Metal-Hydrogen Tank with Inner Heat Tube. <i>Advanced Science Letters</i> , 2012, 9, 890-895.	0.2	0
68	Melting and crystallization behavior of copolymer from cyclic butylene terephthalate and polycaprolactone. <i>Polymer Engineering and Science</i> , 2011, 51, 1004-1013.	1.5	11
69	Fabrication and mechanical properties of self-reinforced poly(ethylene terephthalate) composites. <i>EXPRESS Polymer Letters</i> , 2011, 5, 228-237.	1.1	51
70	Crystallization and morphology of polymerized cyclic butylene terephthalate. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1127-1134.	2.4	18
71	Synergistic effect of compatibilizer in organo-modified layered silicate reinforced butadiene rubber nanocomposites. <i>Polymer Engineering and Science</i> , 2006, 46, 80-88.	1.5	15
72	Simulating Runoff Using the Method of Characteristics with Unsteady Rainfall Events. <i>Journal of Mechanics</i> , 2005, 21, 171-178.	0.7	3

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73	Compression Failure Mechanisms of 3-D Angle Interlock Woven Composites Subjected to Low-energy Impact. <i>Polymers and Polymer Composites</i> , 2004, 12, 309-320.	1.0	20
74	Preparation and mechanical properties of nitrile butadiene rubber/silicate nanocomposites. <i>Polymer</i> , 2004, 45, 5729-5734.	1.8	89
75	Thermoset rubber/layered silicate nanocomposites. Status and future trends. <i>Polymer Engineering and Science</i> , 2004, 44, 1083-1093.	1.5	195
76	Mechanical, thermal, and barrier properties of NBR/organosilicate nanocomposites. <i>Polymer Engineering and Science</i> , 2004, 44, 2117-2124.	1.5	99
77	Effect of micromorphologic features on the interfacial strength of iPP/Kevlar fiber microcomposites. <i>Polymer</i> , 2001, 42, 199-208.	1.8	40
78	Interfacial shear strength and failure modes in sPP/CF and iPP/CF microcomposites by fragmentation. <i>Polymer</i> , 2001, 42, 129-135.	1.8	37
79	The role of metastability in the micromorphologic features of sheared isotactic polypropylene melts. <i>Polymer</i> , 1999, 40, 4195-4203.	1.8	68
80	Transcrystallization in syndiotactic polypropylene induced by high-modulus carbon fibers. <i>Polymer Bulletin</i> , 1998, 41, 239-245.	1.7	28
81	Micromorphologic feature of the crystallization of isotactic polypropylene after melt-shearing. <i>Polymer Bulletin</i> , 1998, 41, 493-499.	1.7	11
82	Crushing Characteristics of 3-D Braided Composite Square Tubes. <i>Journal of Composite Materials</i> , 1997, 31, 2309-2327.	1.2	45
83	Highly insulative barium zirconate-titanate thin films prepared by rf magnetron sputtering for dynamic random access memory applications. <i>Applied Physics Letters</i> , 1996, 69, 2659-2661.	1.5	167
84	Effects of Sputter-Deposited LaNiO_3 Electrode on the Deposition and Properties of Ferroelectric Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1996, 433, 169.	0.1	4