

# Liao-Ping Cheng

## List of Publications by Year in descending order

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86  
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2,812  
citations

159358

30  
h-index

182168

51  
g-index

86  
all docs

86  
docs citations

86  
times ranked

2310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of salt additive on the formation of microporous poly(vinylidene fluoride) membranes by phase inversion from LiClO <sub>4</sub> /Water/DMF/PVDF system. <i>Polymer</i> , 2003, 44, 413-422.	1.8	192
2	Mechanisms of PVDF membrane formation by immersion-precipitation in soft (1-octanol) and harsh (water) nonsolvents. <i>Polymer</i> , 1999, 40, 5315-5323.	1.8	182
3	Effect of Temperature on the Formation of Microporous PVDF Membranes by Precipitation from 1-Octanol/DMF/PVDF and Water/DMF/PVDF Systems. <i>Macromolecules</i> , 1999, 32, 6668-6674.	2.2	159
4	Formation of porous poly(vinylidene fluoride) membranes with symmetric or asymmetric morphology by immersion precipitation in the water/TEP/PVDF system. <i>European Polymer Journal</i> , 2006, 42, 1581-1594.	2.6	136
5	PVDF membrane formation by diffusion-induced phase separation-morphology prediction based on phase behavior and mass transfer modeling. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 2079-2092.	2.4	104
6	Strong effect of precursor preparation on the morphology of semicrystalline phase inversion poly(vinylidene fluoride) membranes. <i>Journal of Membrane Science</i> , 2006, 274, 64-72.	4.1	104
7	Preparation and characterization of microporous PVDF/PMMA composite membranes by phase inversion in water/DMSO solutions. <i>European Polymer Journal</i> , 2006, 42, 2407-2418.	2.6	98
8	Formation of particulate microporous poly(vinylidene fluoride) membranes by isothermal immersion precipitation from the 1-octanol/dimethylformamide/poly(vinylidene fluoride) system. <i>Polymer</i> , 1999, 40, 2395-2403.	1.8	90
9	Equilibrium phase behavior of the membrane forming water-DMSO-EVAL copolymer system. <i>Journal of Membrane Science</i> , 1997, 128, 55-65.	4.1	71
10	Fine structure and crystallinity of porous Nylon 66 membranes prepared by phase inversion in the water/formic acid/Nylon 66 system. <i>European Polymer Journal</i> , 2006, 42, 356-367.	2.6	71
11	An improved model for mass transfer during the formation of polymeric membranes by the immersion-precipitation process. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 1413-1425.	2.4	68
12	Membrane formation by isothermal precipitation in polyamide-formic acid-water systems I. Description of membrane morphology. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 211-222.	2.4	68
13	Formation of mica-intercalated-Nylon 6 nanocomposite membranes by phase inversion method. <i>Journal of Membrane Science</i> , 2000, 172, 157-166.	4.1	58
14	Preparation of Water-Resistant Antifog Hard Coatings on Plastic Substrate. <i>Langmuir</i> , 2012, 28, 17193-17201.	1.6	56
15	Phase Behavior of EVAL Polymers in Water-2-Propanol Cosolvent. <i>Macromolecules</i> , 1998, 31, 1229-1235.	2.2	54
16	Formation of crystalline EVAL membranes by controlled mass transfer process in water-DMSO-EVAL copolymer systems. <i>Journal of Membrane Science</i> , 1998, 145, 77-90.	4.1	52
17	Fine structure and formation mechanism of particulate phase-inversion poly(vinylidene fluoride) membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 1578-1588.	2.4	51
18	Preparation of polymer/silica hybrid hard coatings with enhanced hydrophobicity on plastic substrates. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 72-76.	1.5	49

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19	Isothermal phase behavior of Nylon-6, -66, and -610 polyamides in formic acid-water systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 1183-1190.	2.4	46
20	Immobilization of heparin on PVDF membranes with microporous structures. <i>Journal of Membrane Science</i> , 2004, 245, 137-146.	4.1	46
21	Preparation of organic-inorganic nano-composites for antireflection coatings. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 3828-3835.	1.5	46
22	Morphology of crystalline Nylon-610 membranes prepared by the immersion-precipitation process: competition between crystallization and liquid-liquid phase separation. <i>Polymer</i> , 1999, 40, 5011-5021.	1.8	45
23	Microporous PVDF membrane formation by immersion precipitation from water/TEP/PVDF system. <i>Desalination</i> , 2002, 145, 25-29.	4.0	44
24	Membrane formation by isothermal precipitation in polyamide-formic acid-water systems II. Precipitation dynamics. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 223-235.	2.4	43
25	The effect of Tween-20 additive on the morphology and performance of PVDF membranes. <i>Journal of Membrane Science</i> , 2014, 466, 302-312.	4.1	43
26	Surface modification of microporous PVDF membranes for neuron culture. <i>Journal of Membrane Science</i> , 2010, 350, 32-41.	4.1	34
27	Preparation and characterization of TiO <sub>2</sub> hybrid sol for UV-curable high-refractive-index organic-inorganic hybrid thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 199-206.	1.1	33
28	Prediction of EVAL membrane morphologies using the phase diagram of water-DMSO-EVAL at different temperatures. <i>Polymer</i> , 1999, 40, 2189-2195.	1.8	31
29	Morphology of membranes formed by the isothermal precipitation of polyamide solutions from water/formic acid systems. <i>Journal of Applied Polymer Science</i> , 2005, 96, 944-960.	1.3	31
30	A kinetic study on the autocatalytic cure reaction of a cyanate ester resin. <i>Journal of Applied Polymer Science</i> , 2004, 92, 3067-3079.	1.3	30
31	Preparation and properties of nano-silica modified negative acrylate photoresist. <i>Thin Solid Films</i> , 2008, 516, 8399-8407.	0.8	30
32	Fine structure of poly(vinylidene fluoride) membranes prepared by phase inversion from a water/N-methyl-2-pyrrolidone/poly(vinylidene fluoride) system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 830-842.	2.4	28
33	Effect of polar rotation on the formation of porous poly(vinylidene fluoride) membranes by immersion precipitation in an alcohol bath. <i>Journal of Membrane Science</i> , 2016, 513, 186-196.	4.1	26
34	Effect of solvent on the dipole rotation of poly(vinylidene fluoride) during porous membrane formation by precipitation in alcohol baths. <i>Polymer</i> , 2017, 115, 164-175.	1.8	26
35	Preparation of bi-continuous Nylon-66 porous membranes by coagulation of incipient dopes in soft non-solvent baths. <i>Desalination</i> , 2013, 313, 77-86.	4.0	25
36	Preparation and characterization of polymer/zirconia nanocomposite antistatic coatings on plastic substrates. <i>Journal of Coatings Technology Research</i> , 2013, 10, 73-78.	1.2	25

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37	Formation of microporous poly(hydroxybutyric acid) membranes for culture of osteoblast and fibroblast. <i>Polymers for Advanced Technologies</i> , 2009, 20, 1082-1090.	1.6	24
38	Phase behavior of a water/2-propanol/poly(methyl methacrylate) cosolvent system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 747-754.	2.4	23
39	Preparation of Clay/PMMA Nanocomposites with Intercalated or Exfoliated Structure for Bone Cement Synthesis. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 661-669.	1.7	20
40	Fabrication of high-flux asymmetric polyethersulfone (PES) ultrafiltration membranes by nonsolvent induced phase separation process: Effects of H <sub>2</sub> O contents in the dope. <i>Polymer</i> , 2021, 217, 123451.	1.8	20
41	Preparation of a nanosilica-modified negative-type acrylate photoresist. <i>Journal of Applied Polymer Science</i> , 2008, 107, 1179-1188.	1.3	19
42	Preparation of microporous poly(VDF-co-HFP) membranes by template-leaching method. <i>Separation and Purification Technology</i> , 2010, 72, 156-166.	3.9	19
43	Preparation of hydrophobic nanosilica-filled polyacrylate hard coatings on plastic substrates. <i>Journal of Coatings Technology Research</i> , 2014, 11, 381-386.	1.2	19
44	Immobilization of L-lysine on dense and porous poly(vinylidene fluoride) surfaces for neuron culture. <i>Desalination</i> , 2008, 234, 134-143.	4.0	18
45	Fabrication of asymmetric membranes from polyhydroxybutyrate and biphasic calcium phosphate/chitosan for guided bone regeneration. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	18
46	Preparation of polymer/silica composite antiglare coatings on poly(ethylene terephthalate) (PET) substrates. <i>Journal of Coatings Technology Research</i> , 2012, 9, 561-568.	1.2	17
47	Effect of postcasting heat-treatment on the structure and properties of semicrystalline phase-inversion poly(vinylidene fluoride) membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1880-1893.	2.4	16
48	Preparation of almost dispersant-free colloidal silica with superb dispersibility in organic solvents and monomers. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3885-3897.	0.8	16
49	Characterization of acrylic copolymers applied in negative-type photoresist via a ternary composition diagram. <i>Journal of Applied Polymer Science</i> , 2008, 109, 467-474.	1.3	15
50	Cellular compatibility of copolymer hydrogels based on site-selectively-modified chitosan with poly( <i>N</i> -isopropyl acrylamide). <i>Journal of Applied Polymer Science</i> , 2011, 120, 1-12.	1.3	15
51	Preparation of bi-continuous macroporous polyamide copolymer membranes for cell culture. <i>Journal of Membrane Science</i> , 2012, 415-416, 784-792.	4.1	15
52	Preparation of HMDS-modified silica/polyacrylate hydrophobic hard coatings on PMMA substrates. <i>Journal of Coatings Technology Research</i> , 2016, 13, 999-1007.	1.2	14
53	Observation of Nano-Particles in Silica/poly(HEMA) Hybrid by Electron Microscopy. <i>Journal of Polymer Research</i> , 2002, 9, 115-118.	1.2	13
54	Effect of particle size on the photochromic response of PWA/SiO <sub>2</sub> nanocomposite. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2941-2950.	0.8	13

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55	Preparation of silica-filled poly(2-hydroxymethyl methacrylate) nanocomposites cured by photoirradiation during the sol-gel process. <i>Journal of Applied Polymer Science</i> , 2004, 94, 1927-1935.	1.3	12
56	Formation of polyamide 12 membranes via thermal nonsolvent induced phase separation. <i>Journal of Applied Polymer Science</i> , 2013, 130, 14-24.	1.3	12
57	Nano-titania/polyethersulfone composite ultrafiltration membranes with optimized antifouling capacity. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 113, 325-331.	2.7	12
58	Effects of cooling temperature and aging treatment on the morphology of nano and micro porous poly(ethylene glycol-co-vinyl alcohol) membranes by thermal induced phase separation method. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	11
59	Effect of the temperature of polyurethane dissolution on the mechanism of wet-casting membrane formation. <i>European Polymer Journal</i> , 2003, 39, 601-607.	2.6	10
60	Formation of multilayer poly(acrylic acid)/poly(vinylidene fluoride) composite membranes for pervaporation. <i>Journal of Applied Polymer Science</i> , 2004, 93, 2266-2274.	1.3	9
61	Preparation and characterization of TiO <sub>2</sub> sols and their UV-cured hybrid thin films on plastic substrates. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 63, 30-35.	1.1	9
62	Preparation of superhydrophilic nanosilica/polyacrylate hard coatings on plastic substrate for antifogging and frost resistant applications. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48144.	1.3	9
63	Effect of structure of PVDF membranes on the performance of membrane distillation. <i>Membrane Water Treatment</i> , 2014, 5, 41-56.	0.5	9
64	Preparation and Characterization of Silica/Polymer Antifogging Coatings. <i>Polymers and Polymer Composites</i> , 2014, 22, 39-44.	1.0	8
65	Preparation of zirconia loaded poly(acrylate) antistatic hard coatings on PMMA substrates. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	8
66	Immobilization of L-Lysine on Microporous PVDF Membranes for Neuron Culture. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009, 20, 703-720.	1.9	7
67	Porous structure and thermal stability of photosensitive silica/polyimide composites prepared by sol-gel process. <i>Journal of Applied Polymer Science</i> , 2009, 114, 2019-2029.	1.3	7
68	Preparation and characterization of nanosilica filled color resist. <i>Advances in Polymer Technology</i> , 2012, 31, 163-171.	0.8	7
69	Preparation of UV-cured spironaphthooxazine/silica/polyacrylate photochromic hard coatings on plastic substrates. <i>Journal of Coatings Technology Research</i> , 2018, 15, 325-332.	1.2	7
70	Facile formation of symmetric microporous PVDF membranes via vapor-induced phase separation of metastable dopes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 128012.	2.3	7
71	Thermal analyses of dye Disperse Red 1 grafted onto silica nanoparticles. <i>Journal of Coatings Technology Research</i> , 2015, 12, 731-738.	1.2	6
72	Effects of bath temperature on the morphology and performance of EVOH membranes prepared by the cold solvent induced phase separation (CIPS) method. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	6

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73	Asymmetric and bi-continuously structured polyethersulfone (PES) membranes with superior water flux for ultrafiltration application. <i>Journal of Polymer Research</i> , 2022, 29, 1.	1.2	6
74	Effect of compatible nucleation seeds on the morphology of porous Nylon 6 membrane. <i>Desalination</i> , 2002, 145, 31-37.	4.0	5
75	Immobilization of DNA on Microporous PVDF Membranes by Plasma Polymerization. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009, 20, 1943-1959.	1.9	5
76	Synthesis of modified silica spheres used for the preparation of dual ultraviolet- and thermo-cured epoxyacrylate/silica composites. <i>Polymer Engineering and Science</i> , 2012, 52, 2462-2472.	1.5	5
77	Novel phase inversion process for symmetric membrane formation through thermal quenching of polymer solution in same solvent. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	5
78	Formation of bicontinuous, hydrophobic nylon 12 membranes via cold-solvent-induced phase separation for membrane distillation application. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47036.	1.3	5
79	Measurements of mutual diffusivities in concentrated solutions of membrane-forming polyamides and cellulose acetate. <i>Journal of Applied Polymer Science</i> , 1995, 57, 563-572.	1.3	3
80	TiO <sub>2</sub> nanoparticles synthesized in an aprotic solvent and applied to prepare high-refractive-index TiO <sub>2</sub> -polyimide hybrid thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 129-135.	1.1	3
81	Phase inversion in reusable baths (PIRBs): A new polymer membrane fabrication method as applied to EVOH. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48193.	1.3	3
82	Strong effects of Tween 20 additive on the morphology and performance of poly(vinylidene fluoride) hollow-fiber membranes. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	2
83	Preparation of particulate polyvinylidene fluoride membranes of different particle sizes for membrane distillation applications. <i>Journal of Polymer Engineering</i> , 2019, 39, 254-263.	0.6	2
84	Preparation of organic-inorganic hybridized dual-functional antifog/antireflection coatings on plastic substrates. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48822.	1.3	2
85	Breaking the spinodal barrier in polymer-1/polymer-2/solvent system upon rapid solvent removal. <i>Journal of Polymer Research</i> , 1997, 4, 135-138.	1.2	1
86	Preparation of dye-grafted-silica/poly(acrylate) color coatings with enhanced color stability at elevated temperatures. <i>Pigment and Resin Technology</i> , 2019, 48, 36-44.	0.5	0