

Feng Chen

List of Publications by Year in descending order

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121
papers

3,754
citations

126907

33
h-index

144013

57
g-index

122
all docs

122
docs citations

122
times ranked

4962
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of operating parameters on CO ₂ capture from biogas with choline chloride–monoethanolamine deep eutectic solvent and its aqueous solution. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 283-297.	4.6	10
2	A facile approach to fabricate load-bearing porous polymer scaffolds for bone tissue engineering. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1376-1384.	21.1	34
3	Electromagnetic and mechanical properties of soft magnetic cement composite for airport runway induction heating: Experimental and simulation analyses. <i>Journal of Cleaner Production</i> , 2022, 332, 130141.	9.3	14
4	Pressure-induced flow processing behind the superior mechanical properties and heat-resistance performance of poly(butylene succinate). <i>E-Polymers</i> , 2022, 22, 156-164.	3.0	7
5	A comparison study of hyaluronic acid hydrogel exquisite micropatterns with photolithography and light-cured inkjet printing methods. <i>E-Polymers</i> , 2022, 22, 332-341.	3.0	2
6	Carbon particulate and controlled-hydrolysis assisted extrusion foaming of semi-crystalline polyethylene terephthalate for the enhanced thermal insulation property. <i>Journal of Cellular Plastics</i> , 2021, 57, 695-716.	2.4	5
7	Recent advances in biofluid detection with micro/nanostructured bioelectronic devices. <i>Nanoscale</i> , 2021, 13, 3436-3453.	5.6	12
8	Conductive thermoplastic polyurethane nanocomposite foams derived from a cellulose/MWCNTs aerogel framework: simultaneous enhancement of piezoresistance, strength, and endurance. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13103-13114.	5.5	30
9	Swelling-processed high luminescent organic perovskite with superior stability. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10222-10225.	5.5	3
10	The Influence of Pressure-Induced-Flow Processing on the Morphology, Thermal and Mechanical Properties of Polypropylene Blends. <i>Journal of Composites Science</i> , 2021, 5, 64.	3.0	4
11	The viscoelastic characterisation of asphalt mixtures using the indentation test. <i>Road Materials and Pavement Design</i> , 2021, 22, S411-S424.	4.0	3
12	Efficient antibacterial polyphosphazene material with potential to prominent wound healing. <i>Materials Express</i> , 2021, 11, 947-958.	0.5	2
13	Enzymatic Synthesis of Chiral Polyamide via Condensation of Natural Source Amino Acid Diesters and Diamine. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2100162.	2.2	3
14	PNIPAAm/SA pH-responsive microcapsules based on chemical and non-covalent crosslinking. <i>Journal of Polymer Engineering</i> , 2021, 41, 65-71.	1.4	2
15	Surface plasmon coupling regulated CsPbBr ₃ perovskite lasers in a metal–insulator–semiconductor structure. <i>RSC Advances</i> , 2021, 11, 37218-37224.	3.6	6
16	Impacts of Carbonaceous Particulates on Extrudate Semicrystalline Polyethylene Terephthalate Foams: Nonisothermal Crystallization, Rheology, and Infrared Attenuation Studies. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 15586-15597.	3.7	9
17	Adjustable and ultrafast light-cured hyaluronic acid hydrogel: promoting biocompatibility and cell growth. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5441-5450.	5.8	20
18	Examining the influence of decorated sidewall in road tunnels using fMRI technology. <i>Tunnelling and Underground Space Technology</i> , 2020, 99, 103362.	6.2	36

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19	A lateral control scheme of autonomous vehicles considering pavement sustainability. <i>Journal of Cleaner Production</i> , 2020, 256, 120669.	9.3	37
20	Wind tunnel testing of the effect of terrain on the wind characteristics of airport glide paths. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 203, 104253.	3.9	17
21	A Random Parameters Ordered Probit Analysis of Injury Severity in Truck Involved Rear-End Collisions. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 395.	2.6	32
22	Vibration-induced aggregate segregation in asphalt mixtures. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	3.1	14
23	Facile preparation of a crosslinked hydrophilic UHMWPE membrane. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49015.	2.6	2
24	Investigating the Impacts of Real-Time Weather Conditions on Freeway Crash Severity: A Bayesian Spatial Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2768.	2.6	60
25	GO@Fe ₃ O ₄ @CuSilicate Composite with a Hierarchical Structure: Fabrication, Microstructure, and Highly Electromagnetic Shielding Performance. <i>ACS Omega</i> , 2020, 5, 7940-7949.	3.5	9
26	Fuel Economy in Truck Platooning: A Literature Overview and Directions for Future Research. <i>Journal of Advanced Transportation</i> , 2020, 2020, 1-10.	1.7	57
27	Janus-Featured Hydrogel with Antifouling and Bacteria-Releasing Properties. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17792-17801.	3.7	9
28	A Highly Elastic and Reversibly Stretchable All-Polymer Supercapacitor. <i>Angewandte Chemie</i> , 2019, 131, 15854-15858.	2.0	42
29	A Highly Elastic and Reversibly Stretchable All-Polymer Supercapacitor. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15707-15711.	13.8	181
30	Low temperature self-healing character of asphalt mixtures under different fatigue damage degrees. <i>Construction and Building Materials</i> , 2019, 223, 870-882.	7.2	21
31	Investigation on the Injury Severity of Drivers in Rear-End Collisions Between Cars Using a Random Parameters Bivariate Ordered Probit Model. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2632.	2.6	131
32	Examining the safety of trucks under crosswind at bridge-tunnel section: A driving simulator study. <i>Tunnelling and Underground Space Technology</i> , 2019, 92, 103034.	6.2	64
33	Injury Severity of Pedestrians at Mid-blocks: A Random Parameter Ordered Probit Approach. , 2019, , .		4
34	Natural protein-based hydrogels with high strength and rapid self-recovery. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 108-116.	7.5	15
35	Synthesis and characterization of a novel ruthenium(II) trisbipyridine complex magnetic nanocomposite for the selective oxidation of phenols. <i>RSC Advances</i> , 2019, 9, 28078-28088.	3.6	7
36	Low-level wind effects on the glide paths of the North Runway of HKIA: A wind tunnel study. <i>Building and Environment</i> , 2019, 164, 106337.	6.9	17

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37	Conductive regenerated silk-fibroin-based hydrogels with integrated high mechanical performances. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1708-1715.	5.8	68
38	Framework of simulation-based vehicle safety performance assessment of highway system under hazardous driving conditions. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 105, 23-36.	7.6	26
39	One-Pot and One-Step Fabrication of Salt-Responsive Bilayer Hydrogels with 2D and 3D Shape Transformations. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25417-25426.	8.0	31
40	Electric Assisted Salt-Responsive Bacterial Killing and Release of Polyzwitterionic Brushes in Low-Concentration Salt Solution. <i>Langmuir</i> , 2019, 35, 8285-8293.	3.5	13
41	Long-term stability and salt-responsive behavior of polyzwitterionic brushes with cross-linked structure. <i>Progress in Organic Coatings</i> , 2019, 134, 153-161.	3.9	22
42	Dual-stimulus bilayer hydrogel actuators with rapid, reversible, bidirectional bending behaviors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4970-4980.	5.5	76
43	Preparation and properties of damping materials in multi-phase system. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
44	Assess the impacts of different autonomous trucks' lateral control modes on asphalt pavement performance. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 103, 17-29.	7.6	76
45	CO@Polyaniline Nanorod Array Hierarchical Structure: A Photothermal Agent with High Photothermal Conversion Efficiency for Fast Near-Infrared Responsive Hydrogels. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 3893-3901.	3.7	16
46	Directly photopatterning of polycaprolactone-derived photocured resin by UV-initiated thiol-ene "click" reaction: Enhanced mechanical property and excellent biocompatibility. <i>Chemical Engineering Journal</i> , 2019, 366, 112-122.	12.7	17
47	A Simulation of the Traffic Behavior with Autonomous Truck Platoons Based on Cellular Automaton. , 2019, , .		4
48	Extrusion Foaming of Lightweight Polystyrene Composite Foams with Controllable Cellular Structure for Sound Absorption Application. <i>Polymers</i> , 2019, 11, 106.	4.5	32
49	General Principle for Fabricating Natural Globular Protein-Based Double-Network Hydrogels with Integrated Highly Mechanical Properties and Surface Adhesion on Solid Surfaces. <i>Chemistry of Materials</i> , 2019, 31, 179-189.	6.7	102
50	Using the visual intervention influence of pavement marking for rutting mitigation " Part II: visual intervention timing based on the finite element simulation. <i>International Journal of Pavement Engineering</i> , 2019, 20, 573-584.	4.4	32
51	Enhanced sound insulation and mechanical properties based on inorganic fillers/thermoplastic elastomer composites. <i>Journal of Thermoplastic Composite Materials</i> , 2019, 32, 936-950.	4.2	13
52	Using the visual intervention influence of pavement markings for rutting mitigation"part I: preliminary experiments and field tests. <i>International Journal of Pavement Engineering</i> , 2019, 20, 734-746.	4.4	37
53	Salt- and thermo-responsive polyzwitterionic brush prepared via surface-initiated photoiniferter-mediated polymerization. <i>Applied Surface Science</i> , 2018, 450, 130-137.	6.1	18
54	General Strategy To Fabricate Strong and Tough Low-Molecular-Weight Gelator-Based Supramolecular Hydrogels with Double Network Structure. <i>Chemistry of Materials</i> , 2018, 30, 1743-1754.	6.7	82

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55	Polyamide 6 modified polypropylene with remarkably enhanced mechanical performance, thermal properties, and foaming ability via pressure-induced flow processing approach. <i>Advances in Polymer Technology</i> , 2018, 37, 2721-2729.	1.7	18
56	Semicrystalline Hydrophobically Associated Hydrogels with Integrated High Performances. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2946-2956.	8.0	45
57	Analysis of hourly crash likelihood using unbalanced panel data mixed logit model and real-time driving environmental big data. <i>Journal of Safety Research</i> , 2018, 65, 153-159.	3.6	178
58	Correlated Random Parameter Marginalized Two-Part Model: Application to Refined-Scale Longitudinal Crash Rates Data. <i>Journal of Transportation Engineering Part A: Systems</i> , 2018, 144, 04017071.	1.4	2
59	Bioinspired pH-Sensitive Surface on Bioinert Substrate. <i>ACS Applied Bio Materials</i> , 2018, 1, 2167-2175.	4.6	11
60	Wind Data Collection and Analysis of Topographical Features along a Highway for Traffic Safety Assessment Based on Mobile Mapping Technology. <i>Transportation Research Record</i> , 2018, 2672, 292-301.	1.9	5
61	Controlled shape deformation of bilayer films with tough adhesion between nanocomposite hydrogels and polymer substrates. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6629-6636.	5.8	22
62	Analyzing the Injury Severity Sustained by Non-Motorists at Mid-Blocks considering Non-Motorists' Pre-Crash Behavior. <i>Transportation Research Record</i> , 2018, 2672, 138-148.	1.9	7
63	Investigating the Differences of Single-Vehicle and Multivehicle Accident Probability Using Mixed Logit Model. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-9.	1.7	67
64	Nanoclay Reinforced Self-Cross-Linking Poly(N-Hydroxyethyl Acrylamide) Hydrogels with Integrated High Performances. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800295.	3.6	25
65	Morphological Structure, Rheological Behavior, Mechanical Properties and Sound Insulation Performance of Thermoplastic Rubber Composites Reinforced by Different Inorganic Fillers. <i>Polymers</i> , 2018, 10, 276.	4.5	37
66	Salt-Responsive Killing and Release Antibacterial Surfaces of Mixed Polymer Brushes. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 8938-8945.	3.7	36
67	GO@CuSilicate nano-needle arrays hierarchical structure: a new route to prepare high optical transparent, excellent self-cleaning and anticorrosion superhydrophobic surface. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	7
68	Ionic liquid-modified graphene/poly(vinyl alcohol) composite with enhanced properties. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	6
69	Synthetic Melanin E-Ink. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16553-16560.	8.0	39
70	Graphene oxide functionalized by poly(ionic liquid)s for carbon dioxide capture. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	13
71	The energy dissipation and Mullins effect of tough polymer/graphene oxide hybrid nanocomposite hydrogels. <i>Polymer Chemistry</i> , 2017, 8, 4659-4672.	3.9	52
72	Research of long-span bridge and traffic system subjected to winds: A system and multi-hazard perspective. <i>International Journal of Transportation Science and Technology</i> , 2017, 6, 184-195.	3.6	4

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73	Multivariate space-time modeling of crash frequencies by injury severity levels. <i>Analytic Methods in Accident Research</i> , 2017, 15, 29-40.	8.2	81
74	Research on Driver Physiological Load at the Lowest Point of City River-crossing Tunnels. <i>Transportation Research Procedia</i> , 2017, 25, 1494-1502.	1.5	10
75	Encapsulated graphenes through ultrasonically initiated <i>in situ</i> polymerization: A route to high dielectric permittivity, low loss materials with low percolation threshold. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	4
76	Improved crystallizability and processability of ultra high molecular weight polyethylene modified by poly(amido amine) dendrimers. <i>Polymer Engineering and Science</i> , 2017, 57, 153-160.	3.1	15
77	Research on Design Pattern of City Tunnel Side Wall Based on the Driver Visual Effect. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 689-701.	0.6	12
78	Research on Optimized Design of Bridge-Tunnel Linkage Sections on Mountainous Highways Considering the Effect of Crosswind on Driver Behavior. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 717-729.	0.6	2
79	Short-term forecasting of emerging on-demand ride services. , 2017, , .		10
80	The legibility of LED traffic guide signs in urban tunnels. , 2017, , .		0
81	Hotspot Identification for Shanghai Expressways Using the Quantitative Risk Assessment Method. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 20.	2.6	10
82	Facile Preparation of Crosslinked PAN Membranes Based on Thiol-Ene Photopolymerization. <i>Polymers</i> , 2017, 9, 390.	4.5	3
83	Fatigue Driving Influence Research and Assessment. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 677-688.	0.6	1
84	Crash Frequency Modeling Using Real-Time Environmental and Traffic Data and Unbalanced Panel Data Models. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 609.	2.6	46
85	Crash Frequency Analysis Using Hurdle Models with Random Effects Considering Short-Term Panel Data. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 1043.	2.6	14
86	Correlated Random-Effects Bivariate Poisson Lognormal Model to Study Single-Vehicle and Multivehicle Crashes. <i>Journal of Transportation Engineering</i> , 2016, 142, .	0.9	23
87	Enhanced strength and foamability of high-density polyethylene prepared by pressure-induced flow and low-temperature crosslinking. <i>RSC Advances</i> , 2016, 6, 34422-34427.	3.6	18
88	Functional exosome-mimic for delivery of siRNA to cancer: in vitro and in vivo evaluation. <i>Journal of Controlled Release</i> , 2016, 243, 160-171.	9.9	152
89	Aqueous lubrication of poly(N-hydroxyethyl acrylamide) brushes: a strategy for their enhanced load bearing capacity and wear resistance. <i>RSC Advances</i> , 2016, 6, 21961-21968.	3.6	22
90	Analysis of safety factors for urban expressways considering the effect of congestion in Shanghai, China. <i>Accident Analysis and Prevention</i> , 2016, 95, 503-511.	5.7	48

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91	3D nanochannel electroporation for high-throughput cell transfection with high uniformity and dosage control. <i>Nanoscale</i> , 2016, 8, 243-252.	5.6	88
92	Analysis of Visual Adaptability in the Threshold Zone of Tunnels. , 2015, , .		0
93	Analysis of Long-Distance Passenger Transportation Based on a Highway Network Using the SWOT-AHP Method. , 2015, , .		4
94	Safety Evaluation of a Bridge-Tunnel Connecting Section of Mountainous Highways Based on Drivers' Heart Rate. , 2015, , .		1
95	Synthesis and characterization of comb-like poly(ionic liquid-co-styrene): expected applications in graphene dispersion and CO ₂ separation. <i>RSC Advances</i> , 2015, 5, 32853-32861.	3.6	12
96	Modeling Crash Rates for a Mountainous Highway by Using Refined-Scale Panel Data. <i>Transportation Research Record</i> , 2015, 2515, 10-16.	1.9	33
97	Decolorization of rhodamine B using hydrogen peroxide and H ₂ O ₂ @C photocatalyst synthesized in situ under ultraviolet irradiation. <i>Desalination and Water Treatment</i> , 2015, 53, 2970-2979.	1.0	13
98	Empirical Analysis of Crash Injury Severity on Mountainous and Nonmountainous Interstate Highways. <i>Traffic Injury Prevention</i> , 2015, 16, 715-723.	1.4	14
99	Polyelectrolyte/mesoporous silica hybrid materials for the high performance multiple-detection of pH value and temperature. <i>Polymer Chemistry</i> , 2015, 6, 3529-3536.	3.9	39
100	Effect of nanoporous structure and polymer brushes on the ionic conductivity of poly(methacrylic) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	3.6	24
101	Visible light responsive sulfated rare earth doped TiO ₂ @fumed SiO ₂ composites with mesoporosity: Enhanced photocatalytic activity for methyl orange degradation. <i>Journal of Hazardous Materials</i> , 2014, 267, 88-97.	12.4	52
102	Refined-scale panel data crash rate analysis using random-effects tobit model. <i>Accident Analysis and Prevention</i> , 2014, 73, 323-332.	5.7	36
103	Mixed logit model-based driver injury severity investigations in single- and multi-vehicle crashes on rural two-lane highways. <i>Accident Analysis and Prevention</i> , 2014, 72, 105-115.	5.7	169
104	Effect of surface modification of graphite oxide on the morphological, thermal, and mechanical properties of polyurea/graphite oxide composites. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	2
105	Research on Effect Evaluation Index System of Traffic Safety Education. , 2014, , .		0
106	Research on Traffic Guidance System in Underground Parking Lots Based on Visual Driving Adaptability. , 2014, , .		1
107	Preparation of polystyrene/graphene oxide composites and their supercritical carbon dioxide foaming. <i>Journal of Polymer Research</i> , 2013, 20, 1.	2.4	14
108	Bio-inspired polyelectrolyte complex/graphene oxide nanocomposite membranes with enhanced tensile strength and ultra-low gas permeability. <i>Polymer Chemistry</i> , 2013, 4, 4298.	3.9	27

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109	Self-assembly of NiO nanoparticles in lignin-derived mesoporous carbons for supercapacitor applications. <i>Green Chemistry</i> , 2013, 15, 3057.	9.0	118
110	Graphite oxide platelets functionalized by poly(ionic liquid) brushes and their chemical reduction. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	9
111	Controlled Synthesis of Polyelectrolytes by 4-Cyanopentanoic Acid Dithiobenzoate Mediated RAFT Polymerization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2013, 50, 1002-1006.	2.2	8
112	Impact of Stochastic Traffic on Modified Cross-Section Profiles of a Slender Long-Span Bridge: Wind Tunnel Experimental Investigation. <i>Journal of Engineering Mechanics - ASCE</i> , 2013, 139, 347-358.	2.9	5
113	The characterizations and electrochemical properties of lignosulfonate templates based mesoporous NiO. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	2
114	Mesoporous silica particles grafted with polystyrene brushes as a nucleation agent for polystyrene supercritical carbon dioxide foaming. <i>Journal of Applied Polymer Science</i> , 2013, 130, 4308-4317.	2.6	14
115	Intercalation of montmorillonite based on dendritic quaternary ammonium: preparation and characterization. <i>E-Polymers</i> , 2012, 12, .	3.0	1
116	Biotemplated fabrication of hierarchically porous NiO/C composite from lotus pollen grains for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 9209.	6.7	232
117	Self-assembly between graphene sheets and cationic poly(methyl methacrylate) (PMMA) particles: preparation and characterization of PMMA/graphene composites. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	42
118	Mechanical and thermal properties of attapulgite clay reinforced polymethylmethacrylate nanocomposites. <i>Polymers for Advanced Technologies</i> , 2011, 22, 1912-1918.	3.2	32
119	Physical properties of lignin-based polypropylene blends. <i>Polymer Composites</i> , 2011, 32, 1019-1025.	4.6	106
120	Preparation and characterization of polystyrene (PS)/layered double hydroxides (LDHs) composite by a heterocoagulation method. <i>Colloid and Polymer Science</i> , 2010, 288, 761-767.	2.1	22
121	Influence of interaction between poly(methyl methacrylate) and clay on the properties of nanocomposites prepared by a heterocoagulation method. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 733-738.	2.1	3