

Lei Zhu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1104637/publications.pdf>

Version: 2024-02-01

60
papers

1,220
citations

331670

21
h-index

414414

32
g-index

60
all docs

60
docs citations

60
times ranked

995
citing authors

#	ARTICLE	IF	CITATIONS
1	An optimization-based planning tool for on-demand mobility service operations. <i>International Journal of Sustainable Transportation</i> , 2022, 16, 45-56.	4.1	6
2	Branched nanofibers with tiny diameters for air filtration via one-step electrospinning. <i>Journal of Industrial Textiles</i> , 2022, 51, 1105S-1117S.	2.4	26
3	Proteins from leguminous plants: from structure, property to the function in encapsulation/binding and delivery of bioactive compounds. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 5203-5223.	10.3	8
4	Light-Duty Vehicle Trip Classification Using One-Class Novelty Detection and Exhaustive Feature Extraction. <i>IEEE Transactions on Industry Applications</i> , 2022, 58, 3936-3945.	4.9	1
5	Recent Advances in Environmentally Friendly and Green Degumming Processes of Silk for Textile and Non-Textile Applications. <i>Polymers</i> , 2022, 14, 659.	4.5	24
6	Arabidopsis SYP121 acts as an ROP2 effector in the regulation of root hair tip growth. <i>Molecular Plant</i> , 2022, 15, 1008-1023.	8.3	13
7	CED-Net: contextual encoder-decoder network for 3D face reconstruction. <i>Multimedia Systems</i> , 2022, 28, 1713-1722.	4.7	4
8	Sustainable silk dyeing in a silicon non-aqueous dyeing system with Reactive Red 195: salt-free and less alkali. <i>Textile Research Journal</i> , 2022, 92, 4921-4932.	2.2	1
9	A review on piezoelectric fibers and nanowires for energy harvesting. <i>Journal of Industrial Textiles</i> , 2021, 51, 297-340.	2.4	46
10	Direct fabrication of electrospun branched nanofibers with tiny diameters for oil absorption. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 2085-2091.	2.4	13
11	Use of Shared Automated Vehicles for First-Mile Last-Mile Service: Micro-Simulation of Rail-Transit Connections in Austin, Texas. <i>Transportation Research Record</i> , 2021, 2675, 135-149.	1.9	39
12	Shared Automated Mobility with Demand-Side Cooperation: A Proof-of-Concept Microsimulation Study. <i>Sustainability</i> , 2021, 13, 2483.	3.2	6
13	How realistic is static traffic assignment? Analyzing automatic number-plate recognition data and image processing of real-time traffic maps for investigation. <i>Transportation Research Interdisciplinary Perspectives</i> , 2021, 9, 100320.	2.7	5
14	Identifying Light-Duty Vehicle Travel from Large-Scale Multimodal Wearable GPS Data with Novelty Detection Algorithms. , 2021, , .		1
15	Sensing Technology Survey for Obstacle Detection in Vegetation. <i>Future Transportation</i> , 2021, 1, 672-685.	2.3	6
16	Effect of the Coriolis Force on Salt Dynamics in Convergent Partially Mixed Estuaries. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017391.	2.6	4
17	Maneuvering the secondary surface morphology of electrospun poly (vinylidene fluoride) nanofibers by controlling the processing parameters. <i>Materials Research Express</i> , 2020, 7, 015008.	1.6	19
18	Planning Optimization for Inductively Charged On-Demand Automated Electric Shuttles Project at Greenville, South Carolina. <i>IEEE Transactions on Industry Applications</i> , 2020, 56, 1010-1020.	4.9	21

#	ARTICLE	IF	CITATIONS
19	Decision Support Tool for Planning Neighborhood-Scale Deployment of Low-Speed Shared Automated Shuttles. <i>Transportation Research Record</i> , 2020, 2674, 1-14.	1.9	9
20	Direct generation of electrospun branched nanofibers for energy harvesting. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2659-2666.	3.2	18
21	A comparative study of electrospun polyvinylidene fluoride and poly(vinylidene fluoride-co-trifluoroethylene) fiber webs: Mechanical properties, crystallinity, and piezoelectric properties. <i>Journal of Engineered Fibers and Fabrics</i> , 2020, 15, 155892502093929.	1.0	10
22	A mini review on the generation of crimped ultrathin fibers via electrospinning: Materials, strategies, and applications. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1449-1462.	3.2	47
23	Direct generation of electrospun interconnected macroporous nanofibers using a water bath as a collector. <i>Materials Research Express</i> , 2020, 7, 015082.	1.6	15
24	A Review on the Secondary Surface Morphology of Electrospun Nanofibers: Formation Mechanisms, Characterizations, and Applications. <i>ChemistrySelect</i> , 2020, 5, 1335-1348.	1.5	64
25	Maneuvering surface structures of polyvinylidene fluoride nanofibers by controlling solvent systems and polymer concentration. <i>Textile Research Journal</i> , 2019, 89, 2406-2422.	2.2	43
26	An Automated Vehicle Fuel Economy Benefits Evaluation Framework Using Real-World Travel and Traffic Data. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2019, 11, 29-41.	3.8	15
27	Role of concentration polarization in cross flow micellar enhanced ultrafiltration of cadmium with low surfactant concentration. <i>Chemosphere</i> , 2019, 237, 124859.	8.2	29
28	Generating a Spatiotemporal Dynamic Map for Traffic Analysis Using Macroscopic Fundamental Diagram. <i>Journal of Advanced Transportation</i> , 2019, 2019, 1-15.	1.7	3
29	A Scale-Dynamic Network Abstraction Approach for Traffic Analysis. , 2019, , .		0
30	Fabrication of perfect CMCS/PVA nanofibers for keeping food fresh via an in situ mixing electrospinning. <i>Materials Research Express</i> , 2019, 6, 125001.	1.6	19
31	System Design and Optimization of In-Route Wireless Charging Infrastructure for Shared Automated Electric Vehicles. <i>IEEE Access</i> , 2019, 7, 79968-79979.	4.2	28
32	Unexpectedly high oil cleanup capacity of electrospun poly (vinylidene fluoride) fiber webs induced by spindle porous bowl like beads. <i>Soft Materials</i> , 2019, 17, 410-417.	1.7	25
33	Controlling the surface structure, mechanical properties, crystallinity, and piezoelectric properties of electrospun PVDF nanofibers by maneuvering molecular weight. <i>Soft Materials</i> , 2019, 17, 181-189.	1.7	71
34	Optimum Planning for Inductively Charged On-demand Automated Electric Shuttles at Greenville, South Carolina. , 2019, , .		3
35	Preparation of nanostructured Cu(OH) ₂ and CuO electrocatalysts for water oxidation by electrophoresis deposition. <i>Journal of Materials Research</i> , 2018, 33, 581-589.	2.6	33
36	Controlling the Secondary Surface Morphology of Electrospun PVDF Nanofibers by Regulating the Solvent and Relative Humidity. <i>Nanoscale Research Letters</i> , 2018, 13, 285.	5.7	76

#	ARTICLE	IF	CITATIONS
37	Navigation Application Programming Interface Route Fuel Saving Opportunity Assessment on Large-Scale Real-World Travel Data for Conventional Vehicles and Hybrid Electric Vehicles. Transportation Research Record, 2018, 2672, 139-149.	1.9	8
38	Fabrication of a polyvinylidene fluoride cactus-like nanofiber through one-step electrospinning. RSC Advances, 2018, 8, 42353-42360.	3.6	49
39	Quantifying the Mobility and Energy Benefits of Automated Mobility Districts Using Microscopic Traffic Simulation. , 2018, , .		5
40	Trip Energy Estimation Methodology and Model Based on Real-World Driving Data for Green-Routing Applications. Transportation Research Record, 2018, 2672, 41-48.	1.9	7
41	Quantifying uncertainty in short-term traffic prediction and its application to optimal staffing plan development. Transportation Research Part C: Emerging Technologies, 2018, 92, 323-348.	7.6	44
42	A driving cycle detection approach using map service API. Transportation Research Part C: Emerging Technologies, 2018, 92, 349-363.	7.6	15
43	Data-driven fuel consumption estimation: A multivariate adaptive regression spline approach. Transportation Research Part C: Emerging Technologies, 2017, 83, 134-145.	7.6	47
44	Fabricating poly(1,8-octanediol citrate) elastomer based fibrous mats via electrospinning for soft tissue engineering scaffold. Journal of Materials Science: Materials in Medicine, 2017, 28, 93.	3.6	13
45	Trajectory Segmentation Map-Matching Approach for Large-Scale, High-Resolution GPS Data. Transportation Research Record, 2017, 2645, 67-75.	1.9	38
46	Prediction of Individual Social-Demographic Role Based on Travel Behavior Variability Using Long-Term GPS Data. Journal of Advanced Transportation, 2017, 2017, 1-13.	1.7	22
47	Green routing fuel saving opportunity assessment: A case study using large-scale real-world travel data. , 2017, , .		7
48	Road network abstraction approach for traffic analysis: framework and numerical analysis. IET Intelligent Transport Systems, 2017, 11, 424-430.	3.0	13
49	Direct Electrospinning of Ultrafine Fibers with Interconnected Macropores Enabled by in Situ Mixing Microfluidics. ACS Applied Materials & Interfaces, 2016, 8, 34870-34878.	8.0	31
50	Mussel-inspired soft-tissue adhesive based on poly(diols citrate) with catechol functionality. Journal of Materials Science: Materials in Medicine, 2016, 27, 30.	3.6	29
51	Behavior Insights for an Incentive-Based Active Demand Management Platform. International Journal of Transportation Science and Technology, 2015, 4, 119-133.	3.6	54
52	Studying Driving Risk Factors using Multi-Source Mobile Computing Data. International Journal of Transportation Science and Technology, 2015, 4, 295-312.	3.6	22
53	Transportation Routing Map Abstraction Approach. Transportation Research Record, 2015, 2528, 78-85.	1.9	15
54	Whether others were treated equally affects neural responses to unfairness in the Ultimatum Game. Social Cognitive and Affective Neuroscience, 2015, 10, 461-466.	3.0	22

#	ARTICLE	IF	CITATIONS
55	Map-Matching Compatible with Junction Adjusting in Vehicle Navigation System. Lecture Notes in Electrical Engineering, 2012, , 451-457.	0.4	8
56	Impact of nonpoint source pollution on water quality of the Bahe River. , 2011, , .		0
57	Characterization of ultrafine copper powder prepared by novel electrodeposition method. Central South University, 2009, 16, 708-712.	0.5	14
58	Probabilistic Convergent Hough Transform. , 2008, , .		0
59	A Map-Matching Method Using Intersection-Based Parallelogram Criterion. Advanced Materials Research, 0, 403-408, 2746-2750.	0.3	4
60	Safe Operations at Roadway Junctions - Design Principles from Automated Guideway Transit. , 0, , .		2