

Linfeng Xu

List of Publications by Year in descending order

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51
papers

1,038
citations

394421

19
h-index

434195

31
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53
all docs

53
docs citations

53
times ranked

1373
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizing cell interactions at scale with made-to-order droplet ensembles (MODEs). Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	24
2	Microbowls with Controlled Concavity for Accurate Microscale Mass Spectrometry. Advanced Materials, 2022, 34, e2108194.	21.0	3
3	Recursive Bayesian inference and learning for target tracking with unknown maneuvers. International Journal of Adaptive Control and Signal Processing, 2022, 36, 1032-1044.	4.1	0
4	Modeling and State Estimation of Linear Destination-Constrained Dynamic Systems. IEEE Transactions on Signal Processing, 2022, 70, 2374-2387.	5.3	8
5	Distributed Extended Object Tracking Using Coupled Velocity Model From WLS Perspective. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 459-474.	2.8	1
6	Expectation-maximization-based infrared target tracking with time-varying extinction coefficient identification. International Journal of Adaptive Control and Signal Processing, 2021, 35, 221-239.	4.1	2
7	Trajectory prediction of ballistic missiles using Gaussian process error model. Chinese Journal of Aeronautics, 2021, , .	5.3	2
8	EM-based extended object tracking without a priori extension evolution model. Signal Processing, 2021, 188, 108181.	3.7	5
9	Mapping enzyme catalysis with metabolic biosensing. Nature Communications, 2021, 12, 6803.	12.8	17
10	State Estimation for the Unknown Motion Model with Bearing-only Measurement. , 2021, , .		0
11	Route-Based Dynamics Modeling and Tracking With Application to Air Traffic Surveillance. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 209-221.	8.0	38
12	Passive micropumping in microfluidics for point-of-care testing. Biomicrofluidics, 2020, 14, 031503.	2.4	39
13	A particle filter via constrained sampling for nonlinear dynamic systems. International Journal of Robust and Nonlinear Control, 2020, 30, 4944-4959.	3.7	9
14	Mode separability-based state estimation for uncertain constrained dynamic systems. Automatica, 2020, 115, 108905.	5.0	7
15	Structure Identification and Tracking of Multiple Resolvable Group Targets with Circular Formation. , 2020, , .		2
16	A Two-stage Particle Filter for Equality Constrained Systems. , 2020, , .		0
17	A Concave Optimization-Based Approach for Joint Multi-Target Track Initialization. IEEE Access, 2019, 7, 108551-108560.	4.2	5
18	State Estimation With Trajectory Shape Constraints Using Pseudomeasurements. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2395-2407.	4.7	16

#	ARTICLE	IF	CITATIONS
19	Linear minimum mean square error filtering with stochastic linear equality constraints. International Journal of Systems Science, 2019, 50, 1799-1811.	5.5	5
20	Unscented Recursive Filtering for Inequality Constrained Systems. IEEE Access, 2019, 7, 19077-19088.	4.2	8
21	Joint Data Compression and Parameter Estimation for Kronecker Product Structure. IEEE Access, 2019, 7, 46399-46410.	4.2	0
22	Epi-illumination SPIM for volumetric imaging with high spatial-temporal resolution. Nature Methods, 2019, 16, 501-504.	19.0	125
23	Bearing-Only Obstacle Avoidance Based on Unknown Input Observer and Angle-Dependent Artificial Potential Field. Sensors, 2019, 19, 31.	3.8	10
24	Upper bound filter under interval constraints and multiplicative noises. IET Control Theory and Applications, 2019, 13, 2482-2491.	2.1	2
25	Stabilizing Control for Cyber-Physical Systems against Energy-Constrained Deception Attacks. , 2019, , .		0
26	Constrained Dynamic Systems: Generalized Modeling and State Estimation. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2594-2609.	4.7	53
27	Gaussian mixture approximation smoother for hypersonic glide reentry vehicles tracking. , 2017, , .		0
28	Fixed-lag smoothing with linear equality constraints. , 2017, , .		2
29	Robust interval-constrained filter. IET Control Theory and Applications, 2017, 11, 908-914.	2.1	8
30	A Simple Method for Fabrication of Microstructures Using a PDMS Stamp. Micromachines, 2016, 7, 173.	2.9	17
31	Multi-Sensor Consensus Estimation of State, Sensor Biases and Unknown Input. Sensors, 2016, 16, 1407.	3.8	4
32	Multiple model box-particle cardinality balanced multi-target multi-Bernoulli filter for multiple maneuvering targets tracking. , 2016, , .		0
33	Hybrid grid multiple-model estimation with application to maneuvering target tracking. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 122-136.	4.7	67
34	Joint estimation of target state and ionospheric height bias in over-the-horizon radar target tracking. IET Radar, Sonar and Navigation, 2016, 10, 1153-1167.	1.8	19
35	Dynamic modeling for route-based motions. , 2016, , .		1
36	Fault detection for multi-rate sensor fusion under multiple uncertainties. IET Control Theory and Applications, 2015, 9, 1709-1716.	2.1	15

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37	Phaseguide-assisted blood separation microfluidic device for point-of-care applications. <i>Biomicrofluidics</i> , 2015, 9, 014106.	2.4	21
38	Gaussian sum filter of Markov jump non-linear systems. <i>IET Signal Processing</i> , 2015, 9, 335-340.	1.5	4
39	Vacuum-driven power-free microfluidics utilizing the gas solubility or permeability of polydimethylsiloxane (PDMS). <i>Lab on A Chip</i> , 2015, 15, 3962-3979.	6.0	117
40	Various On-Chip Sensors with Microfluidics for Biological Applications. <i>Sensors</i> , 2014, 14, 17008-17036.	3.8	52
41	A journey of trains of droplets in droplet-based microfluidic devices. , 2014, 2014, 778-81.		0
42	Syringe-assisted point-of-care micropumping utilizing the gas permeability of polydimethylsiloxane. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 745-750.	2.2	23
43	Droplet-based microfluidic washing module for magnetic particle-based assays. <i>Biomicrofluidics</i> , 2014, 8, 044113.	2.4	31
44	Modeling and State Estimation for Dynamic Systems With Linear Equality Constraints. <i>IEEE Transactions on Signal Processing</i> , 2013, 61, 2927-2939.	5.3	70
45	Gravity-oriented microfluidic device for uniform and massive cell spheroid formation. <i>Biomicrofluidics</i> , 2012, 6, 14114-141147.	2.4	42
46	Continuous-flow in-droplet magnetic particle separation in a droplet-based microfluidic platform. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 613-623.	2.2	34
47	Fusion and sorting of two parallel trains of droplets using a railroad-like channel network and guiding tracks. <i>Lab on A Chip</i> , 2012, 12, 3936.	6.0	36
48	Droplet-based microfluidic device for multiple-droplet clustering. <i>Lab on A Chip</i> , 2012, 12, 725-730.	6.0	31
49	A new fabrication process for uniform SU-8 thick photoresist structures by simultaneously removing edge bead and air bubbles. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 125006.	2.6	39
50	Guiding, distribution, and storage of trains of shape-dependent droplets. <i>Lab on A Chip</i> , 2011, 11, 3915.	6.0	20
51	Multiple model estimation by hybrid grid. , 2010, , .		4