

Linfeng Xu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2668525/publications.pdf>

Version: 2024-02-01

51
papers

1,038
citations

394421

19
h-index

434195

31
g-index

53
all docs

53
docs citations

53
times ranked

1373
citing authors

#	ARTICLE	IF	CITATIONS
1	Epi-illumination SPIM for volumetric imaging with high spatial-temporal resolution. Nature Methods, 2019, 16, 501-504.	19.0	125
2	Vacuum-driven power-free microfluidics utilizing the gas solubility or permeability of polydimethylsiloxane (PDMS). Lab on A Chip, 2015, 15, 3962-3979.	6.0	117
3	Modeling and State Estimation for Dynamic Systems With Linear Equality Constraints. IEEE Transactions on Signal Processing, 2013, 61, 2927-2939.	5.3	70
4	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
5	Constrained Dynamic Systems: Generalized Modeling and State Estimation. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2594-2609.	4.7	53
6	Various On-Chip Sensors with Microfluidics for Biological Applications. Sensors, 2014, 14, 17008-17036.	3.8	52
7	Gravity-oriented microfluidic device for uniform and massive cell spheroid formation. Biomicrofluidics, 2012, 6, 14114-141147.	2.4	42
8	A new fabrication process for uniform SU-8 thick photoresist structures by simultaneously removing edge bead and air bubbles. Journal of Micromechanics and Microengineering, 2011, 21, 125006.	2.6	39
9	Passive micropumping in microfluidics for point-of-care testing. Biomicrofluidics, 2020, 14, 031503.	2.4	39
10	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
11	Fusion and sorting of two parallel trains of droplets using a railroad-like channel network and guiding tracks. Lab on A Chip, 2012, 12, 3936.	6.0	36
12	Continuous-flow in-droplet magnetic particle separation in a droplet-based microfluidic platform. Microfluidics and Nanofluidics, 2012, 13, 613-623.	2.2	34
13	Droplet-based microfluidic device for multiple-droplet clustering. Lab on A Chip, 2012, 12, 725-730.	6.0	31
14	Droplet-based microfluidic washing module for magnetic particle-based assays. Biomicrofluidics, 2014, 8, 044113.	2.4	31
15	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
16	Syringe-assisted point-of-care micropumping utilizing the gas permeability of polydimethylsiloxane. Microfluidics and Nanofluidics, 2014, 17, 745-750.	2.2	23
17	Phaseguide-assisted blood separation microfluidic device for point-of-care applications. Biomicrofluidics, 2015, 9, 014106.	2.4	21
18	Guiding, distribution, and storage of trains of shape-dependent droplets. Lab on A Chip, 2011, 11, 3915.	6.0	20

#	ARTICLE	IF	CITATIONS
19	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
20	A Simple Method for Fabrication of Microstructures Using a PDMS Stamp. Micromachines, 2016, 7, 173.	2.9	17
21	Mapping enzyme catalysis with metabolic biosensing. Nature Communications, 2021, 12, 6803.	12.8	17
22	State Estimation With Trajectory Shape Constraints Using Pseudomeasurements. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2395-2407.	4.7	16
23	Fault detection for multi-rate sensor fusion under multiple uncertainties. IET Control Theory and Applications, 2015, 9, 1709-1716.	2.1	15
24	Bearing-Only Obstacle Avoidance Based on Unknown Input Observer and Angle-Dependent Artificial Potential Field. Sensors, 2019, 19, 31.	3.8	10
25	A particle filter via constrained sampling for nonlinear dynamic systems. International Journal of Robust and Nonlinear Control, 2020, 30, 4944-4959.	3.7	9
26	Unscented Recursive Filtering for Inequality Constrained Systems. IEEE Access, 2019, 7, 19077-19088.	4.2	8
27	Robust interval-constrained filter. IET Control Theory and Applications, 2017, 11, 908-914.	2.1	8
28	Modeling and State Estimation of Linear Destination-Constrained Dynamic Systems. IEEE Transactions on Signal Processing, 2022, 70, 2374-2387.	5.3	8
29	Mode separability-based state estimation for uncertain constrained dynamic systems. Automatica, 2020, 115, 108905.	5.0	7
30	A Concave Optimization-Based Approach for Joint Multi-Target Track Initialization. IEEE Access, 2019, 7, 108551-108560.	4.2	5
31	Linear minimum mean square error filtering with stochastic linear equality constraints. International Journal of Systems Science, 2019, 50, 1799-1811.	5.5	5
32	EM-based extended object tracking without a priori extension evolution model. Signal Processing, 2021, 188, 108181.	3.7	5
33	Multiple model estimation by hybrid grid. , 2010, , .		4
34	Gaussian sum filter of Markov jump nonlinear systems. IET Signal Processing, 2015, 9, 335-340.	1.5	4
35	Multi-Sensor Consensus Estimation of State, Sensor Biases and Unknown Input. Sensors, 2016, 16, 1407.	3.8	4
36	Microbowls with Controlled Concavity for Accurate Microscale Mass Spectrometry. Advanced Materials, 2022, 34, e2108194.	21.0	3

#	ARTICLE	IF	CITATIONS
37	Fixed-lag smoothing with linear equality constraints. , 2017, , .		2
38	Expectationâ€maximizationâ€based infrared target tracking with timeâ€varying extinction coefficient identification. International Journal of Adaptive Control and Signal Processing, 2021, 35, 221-239.	4.1	2
39	Trajectory prediction of ballistic missiles using Gaussian process error model. Chinese Journal of Aeronautics, 2021, , .	5.3	2
40	Upper bound filter under interval constraints and multiplicative noises. IET Control Theory and Applications, 2019, 13, 2482-2491.	2.1	2
41	Structure Identification and Tracking of Multiple Resolvable Group Targets with Circular Formation. , 2020, , .		2
42	Dynamic modeling for route-based motions. , 2016, , .		1
43	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
44	A journey of trains of droplets in droplet-based microfluidic devices. , 2014, 2014, 778-81.		0
45	Multiple model box-particle cardinality balanced multi-target multi-Bernoulli filter for multiple maneuvering targets tracking. , 2016, , .		0
46	Gaussian mixture approximation smoother for hypersonic glide reentry vehicles tracking. , 2017, , .		0
47	Joint Data Compression and Parameter Estimation for Kronecker Product Structure. IEEE Access, 2019, 7, 46399-46410.	4.2	0
48	Stabilizing Control for Cyber-Physical Systems against Energy-Constrained Deception Attacks. , 2019, , .		0
49	A Two-stage Particle Filter for Equality Constrained Systems. , 2020, , .		0
50	State Estimation for the Unknown Motion Model with Bearing-only Measurement. , 2021, , .		0
51	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