

# Jian Yang

## List of Publications by Year in descending order

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papers

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citations

933447

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839539

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times ranked

117  
citing authors

#	ARTICLE	IF	CITATIONS
1	Method and Implementation of a Bioinspired Polarization-Based Attitude and Heading Reference System by Integration of Polarization Compass and Inertial Sensors. IEEE Transactions on Industrial Electronics, 2020, 67, 9802-9812.	7.9	43
2	An Autonomous Initial Alignment and Observability Analysis for SINS With Bio-Inspired Polarized Skylight Sensors. IEEE Sensors Journal, 2020, 20, 7941-7956.	4.7	34
3	A Bionic Polarization Navigation Sensor Based on Polarizing Beam Splitter. IEEE Access, 2018, 6, 11472-11481.	4.2	29
4	Global Autonomous Positioning in GNSS-Challenged Environments: A Bioinspired Strategy by Polarization Pattern. IEEE Transactions on Industrial Electronics, 2021, 68, 6308-6317.	7.9	23
5	Sensor Modeling and Calibration Method Based on Extinction Ratio Error for Camera-Based Polarization Navigation Sensor. Sensors, 2020, 20, 3779.	3.8	22
6	Design and calibration model of a bioinspired attitude and heading reference system based on compound eye polarization compass. Bioinspiration and Biomimetics, 2021, 16, 016001.	2.9	22
7	Solar-tracking methodology based on refraction-polarization in Snell's window for underwater navigation. Chinese Journal of Aeronautics, 2022, 35, 380-389.	5.3	19
8	A fast initial alignment for SINS based on disturbance observer and Kalman filter. Transactions of the Institute of Measurement and Control, 2016, 38, 1261-1269.	1.7	18
9	Multi-sensor fusion SLAM approach for the mobile robot with a bio-inspired polarised skylight sensor. IET Radar, Sonar and Navigation, 2020, 14, 1950-1957.	1.8	17
10	Multiple Disturbance Analysis and Calibration of an Inspired Polarization Sensor. IEEE Access, 2019, 7, 58507-58518.	4.2	10
11	A bionic point-source polarisation sensor applied to underwater orientation. Journal of Navigation, 2021, 74, 1057-1072.	1.7	10
12	A self-contained interactive iteration positioning and orientation coupled navigation method based on skylight polarization. Control Engineering Practice, 2021, 111, 104810.	5.5	10
13	A Novel Polarized Skylight Navigation Model for Bionic Navigation With Marginalized Unscented Kalman Filter. IEEE Sensors Journal, 2022, 22, 4472-4483.	4.7	10
14	Disturbance analysis and performance test of the polarization sensor based on polarizing beam splitter. Sensor Review, 2019, 39, 341-351.	1.8	9
15	Bionic Integrated Positioning Mechanism Based on Bioinspired Polarization Compass and Inertial Navigation System. Sensors, 2021, 21, 1055.	3.8	9
16	An Integrated INS/Lidar Odometry/Polarized Camera Pose Estimation via Factor Graph Optimization for Sparse Environment. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	9
17	A Bio-Inspired Navigation Strategy Fused Polarized Skylight and Starlight for Unmanned Aerial Vehicles. IEEE Access, 2020, 8, 83177-83188.	4.2	8
18	Stochastic Stable Attitude Estimation Algorithm Using UKF With Measurement Loss. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1059-1069.	5.8	6

#	ARTICLE	IF	CITATIONS
19	Polarization angle measurement by polarizing beam splitter-based sensor. , 2016, , .		5
20	Bioinspired polarized light compass in moonlit sky for heading determination based on probability density estimation. Chinese Journal of Aeronautics, 2022, 35, 1-9.	5.3	5
21	A 3D Attitude Estimation Method Based on Attitude Angular Partial Feedback for Polarization-Based Integrated Navigation System. Sensors, 2022, 22, 710.	3.8	5
22	Clear Night Sky Polarization Patterns Under the Super Blue Blood Moon. Atmosphere, 2020, 11, 372.	2.3	4
23	Research on a method of polarization azimuth calculation with photoelectric sensor. , 2014, , .		2
24	An autonomous navigation system integrated with air data and bionic polarization information. Transactions of the Institute of Measurement and Control, 2019, 41, 3679-3687.	1.7	1
25	An Improved Iterative Maximum Correntropy Cubature Kalman Filter. , 2021, , .		0
26	An Observable Degree-based Adaptive Federated Filtering for Bionic Integrated Navigation. , 2021, , .		0
27	A novel anti-swing initial alignment method based on polarization/geomagnetic fusion for ships working on unfamiliar waters. , 2022, , .		0
28	Modelling and Calibration of a High-frequency Polarization Sensor: Applying to Underwater Variable Ambient Light Environment. , 2022, , .		0