

Kazuhiro Watanabe

List of Publications by Year in descending order

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64
papers

419
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840776

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64
all docs

64
docs citations

64
times ranked

371
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Textile Using Hetero-Core Optical Fiber for Heartbeat and Respiration Monitoring. IEEE Sensors Journal, 2018, 18, 6175-6180.	4.7	84
2	Wearable Sensing Glove With Embedded Hetero-Core Fiber-Optic Nerves for Unconstrained Hand Motion Capture. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3995-4000.	4.7	77
3	A Motion Monitor Using Hetero-Core Optical Fiber Sensors Sewed in Sportswear to Trace Trunk Motion. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 828-836.	4.7	34
4	Unconstrained pulse pressure monitoring for health management using hetero-core fiber optic sensor. Biomedical Optics Express, 2016, 7, 3675.	2.9	25
5	Performance Characteristics of Wearable Embedded Hetero-core Fiber Sensors for Unconstrained Motion Analyses. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 1075-1081.	0.2	21
6	Frequency characteristics of hetero-core fiber optics sensor for mechanical vibration. Sensors and Actuators A: Physical, 2014, 209, 154-160.	4.1	19
7	Efficient deep-hole drilling by a femtosecond, 400 nm second harmonic Ti:Sapphire laser for a fiber optic in-line/pico-liter spectrometer. Sensors and Actuators B: Chemical, 2015, 210, 685-691.	7.8	17
8	Smart Pressure Sensing Mats with Embedded Hetero-Core Fiber Optic Nerve Sensors. Materials and Manufacturing Processes, 2010, 25, 264-267.	4.7	15
9	Anionic surfactant sensor based on a hetero-core structured optical fiber. Mikrochimica Acta, 2009, 165, 335-339.	5.0	12
10	Pendulum-Type Hetero-Core Fiber Optic Accelerometer for Low-Frequency Vibration Monitoring. Sensors, 2018, 18, 2528.	3.8	12
11	Long-Term Hydrogen Detection Using a Hetero-Core Optical Fiber Structure Featuring Au/Ta ₂ O ₅ /Pd/Pt Multilayer Films. IEEE Sensors Journal, 2020, 20, 227-233.	4.7	12
12	A Fiber-Optic Mechanoreceptor in a Finger-Shaped End Effector for Human-Like Tactile Sensing. IEEE Sensors Journal, 2017, 17, 5123-5129.	4.7	7
13	Physical activity recognition using hetero-core optical fiber sensors embedded in a smart clothing. , 2018, , .		6
14	Performance Characteristics of a Slab RF-Excited CO ₂ Laser.. The Review of Laser Engineering, 1993, 21, 1245-1254.	0.0	6
15	Detection of Uneven Brightness for LCD Panel Using Approximate Planes of Brightness in a CCD Image. Transactions of the Society of Instrument and Control Engineers, 2005, 41, 1-7.	0.2	6
16	A Study on Sensor Multiplicity in Optical Fiber Sensor Networks. , 2010, , .		5
17	Cantilever Type Accelerometer Based on a Mirror-Terminated Hetero-Core Optical Fiber. IEEE Sensors Journal, 2021, 21, 22464-22471.	4.7	5
18	The Effectiveness of Applying Approximate Plane of Brightness Robust to Ambient Light Conditions to View-Based Navigation. IEEE Transactions on Electronics, Information and Systems, 2009, 129, 2074-2082.	0.2	5

#	ARTICLE	IF	CITATIONS
19	A Hetero-core Spliced Optical Fiber Sensor Network for Remote Monitoring of Agricultural Environment. , 2012, , .		4
20	Femtosecond laser microhole drilling inside a fused silica optical fiber with optical inner surface quality. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	4
21	Self Sports Motion Instruction System with Auditory Feedback using Multi-Function Hetero-Core Fiber Optics. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 55-64.	0.1	4
22	Sensitivity Enhancement of a Semicircular Curved Hetero-Core Optical Fiber Accelerometer With Low Cross-Axis Sensitivity. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	4
23	Wearable Sensing Clothes Embedding a Hetero-core Optic Fiber for Recognizing Arm Segment Posture and Motion. , 2006, , .		3
24	Specific vibration frequency detection based on hetero-core fiber optic sensing scheme for security environment monitoring. , 2009, , .		3
25	Development of wearable sensitive glove embedded with hetero-hore fiber-optic nerves for monitoring finger joints. , 2011, , .		3
26	An Improvement of Positional Accuracy for View-Based Navigation Using SURF. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 1395-1403.	0.2	3
27	Frequency characteristics of hetero-core fiber accelerometer with two orthogonal vibrational modes of an arch shape beam structure. , 2020, , .		3
28	Respiration rhythm monitoring in sleep based on weight movement using hetero-core fiber optic sensors. , 2010, , .		2
29	Constructing an optical fiber sensor network for natural environment remote monitoring. , 2011, , .		2
30	Behavior Monitoring Based on Intensity Matrix Distribution in Output Plane of Single-Mode Fiber Bundle. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 930-937.	4.7	2
31	A Self-Position Recognition Method for Mobile Robots Based on Robot Calling by a User Using a Cellular Phone. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 778-786.	0.2	2
32	Suppressive Effect of Laser Irradiation on the Law of Polar Excitation in Frog Sciatic Nerve. The Review of Laser Engineering, 2007, 35, 252-258.	0.0	1
33	An improved view-based navigation by adjustable position resolution. , 2009, , .		1
34	Hetero-core fiber optic binary sensors based on pulse loss change with tandem connection for security network. , 2009, , .		1
35	Personal Identification Based on Sole Pressure Distribution Using a Hetero-core Optical Fiber Sensor Network for Personal Web Services. , 2009, , .		1
36	Smart Textile with Plain Weave Structure Using Hetero-Core Optical Fiber Sensor and Wool Threads. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	Ethanol Measurement Using Hetero-Core Structured Optical Fiber Covered with Layer-By-Layer Thin Film. <i>Foods</i> , 2018, 7, 117.	4.3	1
38	Fiber Optic Folding Angle Sensors for Origami-Inspired Devices. , 2019, , .		1
39	Artistic Plastic-Material Processing by a Segmented Pixel Drawing Method Using a Slab CO2 Laser.. <i>The Review of Laser Engineering</i> , 2002, 30, 396-400.	0.0	1
40	Real Space Monitoring Technique in Ubiquitous Environments. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2004, 124, 26-32.	0.2	1
41	A Fused System of Sensing and Communication with Hetero-core Spliced Fiber Optic Sensors. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2008, 128, 1535-1542.	0.2	1
42	Accuracy on Indoor Position Measurement by Using Spread Spectrum Ultrasonic Waves. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2008, 44, 465-473.	0.2	1
43	Temperature characteristics of hetero-core optical fiber Au/TiO ₂ SPR sensors fabricated by sputtering and Layer-by-Layer stacking techniques. , 2020, , .		1
44	A method of supporting collision avoidance for mobile robots in a smart space. , 2007, , .		0
45	Feasibility evaluation of multi-point sensing for hetero-core spliced optical fiber sensor using the internet-standard protocol. , 2013, , .		0
46	Picoliter Cuvette inside an Optical Fiber to Track Gold Nanoparticle Aggregation for Measurement of Biomolecules. <i>Sensors</i> , 2019, 19, 2859.	3.8	0
47	Sensitivity and resonance frequency evaluations for a cantilever type hetero-core fiber optic accelerometer. , 2020, , .		0
48	E. <i>The Review of Laser Engineering</i> , 2000, 28, 123-125,128.	0.0	0
49	D. <i>The Review of Laser Engineering</i> , 2000, 28, 89-97,103.	0.0	0
50	<i>The Review of Laser Engineering</i> , 2001, 29, 99-101,104.	0.0	0
51	Laser Plastic Coloring Method Using a Slab CO2 Laser. <i>The Review of Laser Engineering</i> , 2004, 32, 203-207.	0.0	0
52	Personal Identification Method Using Speckle Patterns Produced by Pulse-Laser Induced Optical Damage in a Transparent Material. <i>The Review of Laser Engineering</i> , 2007, 35, 259-264.	0.0	0
53	Development of a Battery Support System for the Prolonged Activity of Mobile Robots. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2008, 128, 1557-1566.	0.2	0
54	Network Sensing Based on Fiber Optic Sensors. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2008, 128, 1504-1508.	0.2	0

#	ARTICLE	IF	CITATIONS
55	Realtime Correlation Calculation for Distance Measurement Using Spread Spectrum Ultrasonic Waves. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 357-364.	0.2	0
56	Development of Fiber-optic Sensor Network Embedded into Living Space Intended for Applications to the Intelligent Service System. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 737-745.	0.2	0
57	A Novel Optical Fiber Sensor Fabricated by Femtosecond Laser Processing for Directional Bending Detection. The Review of Laser Engineering, 2013, 41, 718.	0.0	0
58	Development of Indoor Pedestrian Navigation System by a Smartphone Applying View Based Navigation. IEEJ Transactions on Electronics, Information and Systems, 2014, 134, 112-120.	0.2	0
59	Laser Sheet Beam Projector to Recognize the Complex Surfaces of Curvature and Plane.. The Review of Laser Engineering, 1999, 27, 421-425.	0.0	0
60	Surface Plasmon Hydrogen Sensor based on a Hetero-Core Fiber Structure. The Review of Laser Engineering, 2018, 46, 512.	0.0	0
61	Nursing Movement Monitoring System Utilizing Hetero-core Fiber Optic Sensors Embedded in Medical Thin Films. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 525-532.	0.1	0
62	Hetero-core fiber SPR sensor with ionic liquid gel coating for CO ₂ detection. , 2020, , .		0
63	Evaluation of non-invasive swallowing test device using hetero-core fiber optic pressure sensor. , 2021, , .		0
64	Characteristics of hetero-core optical fiber hydrogen sensor based on Au/WO ₃ /Pt thin film. , 2021, , .		0