Sasokan

List of Publications by Year in descending order

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104 papers	1,712 citations	304743 22 h-index	361022 35 g-index
104 all docs	104 docs citations	104 times ranked	1477 citing authors

#	Article	IF	Citations
1	Spinal Needles Insertion and Traversal Based on Fiber Bragg Gratingsâ€"From Conceptual Approach to Prototype Development. Lecture Notes in Mechanical Engineering, 2022, , 463-470.	0.4	0
2	Design and development of optical fiber Bragg grating based device for measurement of handgrip force. Optical and Quantum Electronics, 2022, 54, 1.	3.3	0
3	Selective detection of lead in water using etched fiber Bragg grating sensor. Sensors and Actuators B: Chemical, 2022, 354, 131208.	7.8	13
4	Lead (Pb2+) ion sensor development using optical fiber gratings and nanocomposite materials. Sensors and Actuators B: Chemical, 2022, 364, 131818.	7.8	12
5	Fiber Bragg grating sensors for aerospace applications: a review. ISSS Journal of Micro and Smart Systems, 2022, 11, 257-275.	2.0	18
6	Experiments and Modeling of Hand Grip Strength Measurement for Musculoskeletal Parameters Monitoring. , 2022, , .		0
7	Thermal studies of the effect of thallium in ternary Ge-Te-Tl chalcogenide glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 853-860.	2.2	3
8	Electrochemical impedance spectroscopy study of Agâ€"Ag2Oâ€"MoO3 glasses: understanding the diffusion, relaxation, fragility and power law behaviour. Philosophical Magazine, 2021, 101, 400-419.	1.6	3
9	Etched Fiber Bragg Grating Sensor for Quantification of DNA. IEEE Sensors Journal, 2021, 21, 1588-1595.	4.7	16
10	Influence of Cu Doping in Siâ€"Te-Based Chalcogenide Glasses and Thin Films: Electrical Switching, Morphological and Raman Studies. IEEE Transactions on Electron Devices, 2021, 68, 1196-1201.	3.0	4
11	A Study on MoSâ,, Nanolayer Coated Etched Fiber Bragg Grating Strain Sensor. IEEE Sensors Journal, 2021, 21, 9171-9178.	4.7	7
12	Fiber Bragg Grating-Based Pulse Monitoring Device for Real-Time Non-Invasive Blood Pressure Measurementâ€"A Feasibility Study. IEEE Sensors Journal, 2021, 21, 9179-9185.	4.7	13
13	Assessment of Spatio-Temporal Parameters of Human Gait Using Fiber Bragg Grating Sensor-Based Devices. IEEE Sensors Journal, 2021, 21, 9186-9193.	4.7	3
14	Enhanced Optical Sensitivity of Polyvinyl Alcoholâ€"Reduced Graphene Oxide Electrospun Nanofiber Coated Etched Fiber Bragg Grating Sensor for Detection of Myoglobin a Cardiac Biomarker. Advanced Photonics Research, 2021, 2, 2000138.	3.6	6
15	FBG Tactile Sensor for Surface Thickness and Shape Measurement. IEEE Sensors Journal, 2021, 21, 10695-10702.	4.7	9
16	A Non-Invasive Breast Cancer Detection System Using FBG Thermal Sensor Array: A Feasibility Study. IEEE Sensors Journal, 2021, 21, 24106-24113.	4.7	9
17	Fiber Bragg grating (FBG)-based Hydrophone with side-hole packaging for underwater acoustic sensing. ISSS Journal of Micro and Smart Systems, 2021, 10, 119-125.	2.0	6
18	A composition-dependent thermal behavior of Si20Te80â^'xSnx glasses: Observation of Boolchand intermediate phase. Journal of Non-Crystalline Solids, 2021, 577, 121311.	3.1	0

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19	Structural Shape Estimation by Mode Shapes Using Fiber Bragg Grating Sensors: A Genetic Algorithm Approach. IEEE Sensors Journal, 2020, 20, 2945-2952.	4.7	17
20	Feasibility Study on Thermography of Embedded Tumor Using Fiber Bragg Grating Thermal Sensor. IEEE Sensors Journal, 2020, 20, 2452-2459.	4.7	18
21	Detection of copper nanoparticles templated by DNA using etched Fibre Bragg Grating sensor. IEEE Sensors Journal, 2020, , 1-1.	4.7	3
22	A Novel Approach to Acquire the Arterial Pulse by Finger Plethysmography Using Fiber Bragg Grating Sensor. IEEE Sensors Journal, 2020, 20, 5921-5928.	4.7	21
23	Diaphragm-Micro-Stylus-Based Fiber Bragg Grating Tactile Sensor. IEEE Sensors Journal, 2020, 20, 6394-6399.	4.7	10
24	Temperature Compensated FBG Displacement Sensor for Long-Range Applications. , 2020, 4, 1-4.		12
25	Physical and mechanical properties of intermediate phase chalcogenide glasses with centroid compositions in the Ge-Te-In-Ag system. Journal of Non-Crystalline Solids, 2020, 543, 120112.	3.1	8
26	Switching behavior of bulk, fast ion conducting, vitreous AgIâ€Ag 2 Oâ€MoO 3 solids with inert electrode. Journal of the American Ceramic Society, 2019, 102, 7244-7252.	3.8	3
27	Fiber Bragg Grating Based Ice Detection Sensor. , 2019, , .		2
28	A novel fiber Bragg grating system for eye tracking. Journal of Advanced Research, 2019, 16, 25-34.	9.5	4
29	Highly sensitive fiber Bragg grating-based pressure sensor using side-hole packaging. Applied Optics, 2019, 58, 115.	1.8	23
30	Temperature sensor based on multi-layer MoS2 coated etched fiber Bragg grating. Applied Optics, 2019, 58, 535.	1.8	22
31	Force sensing for object grasp with fiber Bragg grating based wearable haptic device. , 2019, , .		1
32	Fiber Bragg Grating Goniometer for Joint Angle Measurement. IEEE Sensors Journal, 2018, 18, 216-222.	4.7	35
33	Carotid Arterial Pulse Waveform Measurements Using Fiber Bragg Grating Pulse Probe. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1415-1420.	6.3	12
34	Evaluation of fiber Bragg grating sensor interrogation using InGaAs linear detector arrays and Gaussian approximation on embedded hardware. Review of Scientific Instruments, 2018, 89, 025102.	1.3	2
35	Fiber Bragg Grating Respiratory Measurement Device. , 2018, , .		6
36	Structural Shape Estimation by Mode Shapes Using Fiber Bragg Grating Sensors: A Genetic Algorithm Approach. , 2018, , .		2

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37	Knee Angle Measurement Device Using Fiber Bragg Grating Sensor. IEEE Sensors Journal, 2018, 18, 10034-10040.	4.7	25
38	Fiber Bragg Grating basedLandslide Early Warning System. , 2018, , .		0
39	Effect of Sn addition on glassy Si-Te bulk sample. AIP Conference Proceedings, 2018, , .	0.4	2
40	Investigation of fast and sizeable photostriction effect in tellurium thin films using fiber Bragg grating sensors. Sensors and Actuators A: Physical, 2018, 279, 688-693.	4.1	5
41	Comparison of Force Required for Lumbar Puncture With Different Gauges of Spinal Needle Using Fiber Bragg Grating Force Device. IEEE Sensors Journal, 2018, 18, 8028-8033.	4.7	16
42	Fiber bragg grating sensor based device for simultaneous measurement of respiratory and cardiac activities. Journal of Biophotonics, 2017, 10, 278-285.	2.3	66
43	Bare fiber Bragg grating immunosensor for realâ€time detection of Escherichia coli bacteria. Journal of Biophotonics, 2017, 10, 224-230.	2.3	32
44	Investigations on photo-mechanical and photo-thermo-mechanical strain variations in amorphous selenium using fiber Bragg grating sensor. Journal of Non-Crystalline Solids, 2017, 477, 7-11.	3.1	4
45	In situ monitoring of photostriction in chalcogenide glass film using fiber Bragg grating sensors. International Journal of Optomechatronics, 2017, 11, 27-35.	6.6	2
46	Bite force measurement based on fiber Bragg grating sensor. Journal of Biomedical Optics, 2017, 22, 1.	2.6	25
47	Fiber Bragg Grating based bite force measurement. Journal of Biomechanics, 2016, 49, 2877-2881.	2.1	49
48	Detecting stages of needle penetration into tissues through force estimation at needle tip using fiber Bragg grating sensors. Journal of Biomedical Optics, 2016, 21, 127009.	2.6	14
49	The Role of Photo-Striction in Tailoring the Nano-Scale Phase Changes in Amorphous Selenium Thin Films. MRS Advances, 2016, 1, 2743-2748.	0.9	3
50	Enhanced strain and temperature sensing by reduced graphene oxide coated etched fiber Bragg gratings. Optics Letters, 2016, 41, 2604.	3.3	68
51	Fiber Bragg grating sensor-based communication assistance device. Journal of Biomedical Optics, 2016, 21, 086012.	2.6	4
52	Pulmonary Function Test Using Fiber Bragg Grating Spirometer. Journal of Lightwave Technology, 2016, 34, 5682-5688.	4.6	20
53	Spinal needle force monitoring during lumbar puncture using fiber Bragg grating force device. Journal of Biomedical Optics, 2016, 21, 117002.	2.6	36
54	Non invasive assessment of brachial arterial stiffness using fiber Bragg grating sensor. , 2016, , .		3

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55	Fiber Bragg Grating differential pressure sensor. , 2016, , .		3
56	Ultra sensitive NO 2 gas detection using the reduced graphene oxide coated etched fiber Bragg gratings. Sensors and Actuators B: Chemical, 2016, 223, 481-486.	7.8	59
57	Optical detection of glucose and glycated hemoglobin using etched fiber Bragg gratings coated with functionalized reduced graphene oxide. Journal of Biophotonics, 2016, 9, 760-769.	2.3	41
58	Effect of high pressure on the electrical resistivity of Geâ^'Teâ^'In glasses. AIP Conference Proceedings, 2015, , .	0.4	0
59	Fiber Bragg Grating Sensor Package for Submicron Level Displacement Measurements. Experimental Techniques, 2015, 39, 19-24.	1.5	14
60	Pulse transit time differential measurement by fiber Bragg grating pulse recorder. Journal of Biomedical Optics, 2015, 20, 057005.	2.6	7
61	Thermal Modeling of Organic Light-Emitting Diode Display Panels. Journal of Display Technology, 2015, 11, 1048-1055.	1.2	5
62	Sensitive detection of C-reactive protein using optical fiber Bragg gratings. Biosensors and Bioelectronics, 2015, 65, 251-256.	10.1	76
63	Variation of Electrical Resistivity with High Pressure in Ge-Te-Sn Glasses: A Composition Dependent Study. Acta Physica Polonica A, 2015, 127, 1666-1671.	0.5	1
64	High pressure studies on the electrical resistivity of Geâ€"Teâ€"Tl glasses. High Pressure Research, 2014, 34, 309-316.	1.2	1
65	Radial arterial compliance measurement by fiber Bragg grating pulse recorder. Journal of Human Hypertension, 2014, 28, 736-742.	2.2	13
66	Monitoring of ultraviolet pulse rate dependent photomechanical actuation in carbon nanotubes using fiber Bragg gratings. Applied Physics Letters, 2014, 104, .	3.3	5
67	Highly Sensitive Carbon Nanotubes Coated Etched Fiber Bragg Grating Sensor for Humidity Sensing. IEEE Sensors Journal, 2014, 14, 2615-2619.	4.7	44
68	Electrical switching, SET-RESET, and Raman scattering studies on Ge15Te80â^'xIn5Agx glasses. Journal of Applied Physics, 2014, 115, 164505.	2.5	7
69	Raman signatures of intermediate phase in quaternary Ge15Te80â^'xIn5Agx glasses. Journal of Non-Crystalline Solids, 2014, 387, 143-147.	3.1	9
70	Optical bio-sensing devices based on etched fiber Bragg gratings coated with carbon nanotubes and graphene oxide along with a specific dendrimer. Sensors and Actuators B: Chemical, 2014, 195, 150-155.	7.8	52
71	Optical, photo-acoustic and electrical switching studies of amorphous GeS2 thin films. Applied Physics A: Materials Science and Processing, 2014, 115, 1151-1158.	2.3	8
72	Evidence of an intermediate phase in a quaternary Ag bearing telluride glass system using alternating DSC. Solid State Communications, 2014, 177, 108-112.	1.9	18

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73	CO2 sensing at room temperature using carbon nanotubes coated core fiber Bragg grating. Review of Scientific Instruments, 2013, 84, 065002.	1.3	56
74	Calibration of Etched Fiber Bragg Grating Sensor Arrays for Measurement of Molecular Surface Adsorption. Journal of Lightwave Technology, 2013, 31, 2400-2406.	4.6	12
75	Blood pressure evaluation using sphygmomanometry assisted by arterial pulse waveform detection by fiber Bragg grating pulse device. Journal of Biomedical Optics, 2013, 18, 067010.	2.6	22
76	Thermodynamic, Raman and electrical switching studies on Si15Te85-xAgx (4 â‰¤ x â‰¤ 20) glasses. Journal of Applied Physics, 2012, 111, .	2.5	12
77	A broad pore size distribution mesoporous SnO2 as anode for lithium-ion batteries. Journal of Solid State Electrochemistry, 2012, 16, 3643-3649.	2.5	12
78	pH sensing by single and multi-layer hydrogel coated Fiber Bragg Grating. , 2012, , .		2
79	A Novel Fiber Bragg Grating Based Sensing Methodology for Direct Measurement of Surface Strain on Body Muscles during Physical Exercises. International Journal of Optomechatronics, 2012, 6, 189-198.	6.6	3
80	Thermally reversing window in Ge15Te85â^'In glasses: Nanoindentation and micro-Raman studies. Journal of Non-Crystalline Solids, 2012, 358, 3103-3108.	3.1	15
81	Studies on electrical switching behavior and optical band gap of amorphous Geâ€“Teâ€“Sn thin films. Applied Physics A: Materials Science and Processing, 2012, 106, 989-994.	2.3	14
82	Low electric field, easily reversible electrical set and reset processes in a Ge15Te83Si2 glass for phase change memory applications. Journal of Applied Physics, 2011, 109, .	2.5	4
83	Strain-Temperature Discrimination Using a Single Fiber Bragg Grating. IEEE Photonics Technology Letters, 2010, 22, 778-780.	2.5	28
84	Thermal and electrical switching studies on Ge20Se80â^'xBix (1â‰¤xâ‰¤13) ternary chalcogenide glassy system. Journal of Non-Crystalline Solids, 2010, 356, 1637-1643.	3.1	12
85	FIBER BRAGG GRATING SENSORS: NEW IDEAS ON STRAIN-TEMPERATURE DISCRIMINATION. International Journal on Smart Sensing and Intelligent Systems, 2010, 3, 108-117.	0.7	5
86	Thermal diffusivity measurements on Asâ€“Teâ€“Ga glasses by photo-thermal deflection technique: Composition dependence and topological thresholds. Journal of Non-Crystalline Solids, 2009, 355, 58-60.	3.1	7
87	Signatures of an extended rigidity percolation in the photo-degradation behavior and the composition dependence of photo-response of Geâ€“Teâ€“In glasses. Journal of Non-Crystalline Solids, 2008, 354, 3732-3734.	3.1	8
88	Photo-thermal deflection and electrical switching studies on Geâ€“Teâ€“I chalcohalide glasses. Journal of Physics Condensed Matter, 2007, 19, 036224.	1.8	14
89	Effect of indium doping on the electrical switching behaviour of Geâ€“Te glasses. Philosophical Magazine, 2007, 87, 5109-5116.	1.6	13
90	Thermal diffusivities and molar volumes of ternary Al20 AsxTe80â^'x alloy glasses: evidence of self-organization. Solid State Communications, 2005, 135, 323-326.	1.9	14

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91	Electrical switching behavior of bulk Asâ€“Teâ€“Si glasses: composition dependence and topological effects. Applied Physics A: Materials Science and Processing, 2005, 80, 249-252.	2.3	18
92	Electrical switching and topological thresholds in Ge-Te and Si-Te glasses. Applied Physics A: Materials Science and Processing, 2005, 81, 939-942.	2.3	37
93	Composition tunable memory and threshold switching in Al₂₀As_xTe_{80â^'x} semiconducting glasses. Journal of Materials Research, 1998, 13, 2982-2987.	2.6	40
94	Evidence concerning the effect of topology on electrical switching in chalcogenide network glasses. Physical Review B, 1996, 54, 4413-4415.	3.2	56
95	Easily reversible memory switching in Ge - As - Te glasses. Journal Physics D: Applied Physics, 1996, 29, 2004-2008.	2.8	30
96	Near ideal electrical switching in fast ion conducting glasses: Evidence for an electronic process with chemical origin. Bulletin of Materials Science, 1995, 18, 301-307.	1.7	8
97	Electrical switching in AgI based fast ion conducting glasses: Possibility for newer applications. Journal of Applied Physics, 1995, 78, 1358-1360.	2.5	10
98	High pressure room temperature and high pressure low temperature resistivity studies on As-Te-Se glasses. High Pressure Research, 1992, 10, 629-635.	1.2	12
99	Mechanical and Chemical Thresholds in IV-VI Chalcogenide Glasses. Physical Review Letters, 1989, 62, 808-810.	7.8	83
100	Thermal diffusivity of As x Te1?x glasses measured using the photoacoustic technique. Journal of Materials Science Letters, 1988, 7, 1333-1335.	0.5	12
101	High-pressure studies on Ge-Te glasses. Evidence for a critical composition in IV-VI chalcogenide glassy systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1988, 57, 49-60.	0.6	48
102	Optical absorption and thermal diffusivity in Ge_xTe_{10-x}, glasses by the photoacoustic technique. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1988, 58, 123-132.	0.6	29
103	Electrical transport and high pressure studies on bulk Ge20Te80 glass. Pramana - Journal of Physics, 1984, 23, 17-29.	1.8	8
104	Pressure-induced electronic and structural transformations in bulk GeSe2 glass. Pramana - Journal of Physics, 1984, 23, 31-37.	1.8	8