

Mohd Hanif Yaacob

List of Publications by Year in descending order

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121
papers

2,136
citations

218677

26
h-index

276875

41
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122
all docs

122
docs citations

122
times ranked

2263
citing authors

#	ARTICLE	IF	CITATIONS
1	Absorption spectral response of nanotextured WO ₃ thin films with Pt catalyst towards H ₂ . Sensors and Actuators B: Chemical, 2009, 137, 115-120.	7.8	147
2	Hydrogen sensors based on 2D WO ₃ nanosheets prepared by anodization. Sensors and Actuators B: Chemical, 2017, 251, 57-64.	7.8	78
3	In situ Raman spectroscopy of H ₂ interaction with WO ₃ films. Physical Chemistry Chemical Physics, 2011, 13, 7330.	2.8	77
4	Highly sensitive SPR response of Au/chitosan/graphene oxide nanostructured thin films toward Pb (II) ions. Sensors and Actuators B: Chemical, 2014, 195, 459-466.	7.8	76
5	Silver/graphene nanocomposite-modified optical fiber sensor platform for ethanol detection in water medium. Sensors and Actuators B: Chemical, 2015, 206, 119-125.	7.8	68
6	20 GHz spacing multi-wavelength generation of Brillouin-Raman fiber laser in a hybrid linear cavity. Optics Express, 2013, 21, 18724.	3.4	58
7	Enhancement of chitosan-graphene oxide SPR sensor with a multi-metallic layers of Au@Ag@Au nanostructure for lead(II) ion detection. Applied Surface Science, 2016, 361, 177-184.	6.1	55
8	H ₂ sensing performance of optical fiber coated with nano-platelet WO ₃ film. Sensors and Actuators B: Chemical, 2012, 166-167, 1-6.	7.8	54
9	Fiber Bragg grating assisted surface plasmon resonance sensor with graphene oxide sensing layer. Optics Communications, 2016, 380, 260-266.	2.1	54
10	Label-free Dengue E protein detection using a functionalized tapered optical fiber sensor. Sensors and Actuators B: Chemical, 2018, 257, 820-828.	7.8	49
11	Optical characterisation of nanostructured Au/WO ₃ thin films for sensing hydrogen at low concentrations. Sensors and Actuators B: Chemical, 2013, 179, 125-130.	7.8	45
12	Room temperature ammonia sensing using tapered multimode fiber coated with polyaniline nanofibers. Optics Express, 2015, 23, 2837.	3.4	45
13	Refractive index sensor based on SPR in symmetrically etched plastic optical fibers. Sensors and Actuators A: Physical, 2016, 246, 163-169.	4.1	45
14	A three-electrode integrated photo-supercapacitor utilizing graphene-based intermediate bifunctional electrode. Electrochimica Acta, 2017, 238, 178-184.	5.2	44
15	Room temperature ammonia sensor using side-polished optical fiber coated with graphene/polyaniline nanocomposite. Optical Materials Express, 2017, 7, 1858.	3.0	41
16	Fabrication and Characterizations of a Novel Etched-tapered Single Mode Optical Fiber Ammonia Sensors Integrating PANI/GNF Nanocomposite. Sensors and Actuators B: Chemical, 2019, 287, 71-77.	7.8	41
17	Detection of adulterated honey by surface plasmon resonance optical sensor. Optik, 2018, 168, 134-139.	2.9	40
18	Reflectance response of tapered optical fiber coated with graphene oxide nanostructured thin film for aqueous ethanol sensing. Optics Communications, 2014, 331, 320-324.	2.1	39

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19	Experimental realization and performance evaluation of refractive index SPR sensor based on unmasked short tapered multimode-fiber operating in aqueous environments. <i>Sensors and Actuators A: Physical</i> , 2015, 236, 38-43.	4.1	39
20	Wide bandwidth and flat multiwavelength Brillouin-erbium fiber laser. <i>Optics Express</i> , 2017, 25, 19382.	3.4	39
21	Optical response of WO ₃ nanostructured thin films sputtered on different transparent substrates towards hydrogen of low concentration. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 981-988.	7.8	37
22	Dynamic Response of Tapered Optical Multimode Fiber Coated with Carbon Nanotubes for Ethanol Sensing Application. <i>Sensors</i> , 2015, 15, 10452-10464.	3.8	37
23	Tapered optical fiber coated with graphene based nanomaterials for measurement of ethanol concentrations in water. <i>Optical Review</i> , 2015, 22, 385-392.	2.0	37
24	Structural and gas-sensing properties of CuO/Cu ₃ Fe ₃ O ₄ nanostructured thin films. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 117-124.	7.8	32
25	Optical H ₂ sensing properties of vertically aligned Pd/WO ₃ nanorods thin films deposited via glancing angle rf magnetron sputtering. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 795-801.	7.8	30
26	A new technique of real-time monitoring of fiber optic cable networks transmission. <i>Optics and Lasers in Engineering</i> , 2007, 45, 126-130.	3.8	28
27	Multi-wavelength Brillouin-Raman fiber laser utilizing enhanced nonlinear amplifying loop mirror design. <i>Optics Express</i> , 2013, 21, 31800.	3.4	26
28	H ₂ sensor based on tapered optical fiber coated with MnO ₂ nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 421-427.	7.8	26
29	Sensitive <i>Leptospira</i> DNA detection using tapered optical fiber sensor. <i>Journal of Biophotonics</i> , 2018, 11, e201700363.	2.3	25
30	Optical ammonia gas sensor of poly(3,4-polyethylenedioxythiophene), polyaniline and polypyrrole: A comparative study. <i>Synthetic Metals</i> , 2020, 260, 116294.	3.9	24
31	Emerging Developments Regarding Nanocellulose-Based Membrane Filtration Material against Microbes. <i>Polymers</i> , 2021, 13, 3249.	4.5	24
32	Facile synthesis of nanostructured WO ₃ thin films and their characterization for ethanol sensing. <i>Materials Chemistry and Physics</i> , 2013, 141, 912-919.	4.0	23
33	150-Channel Four Wave Mixing Based Multiwavelength Brillouin-Erbium Doped Fiber Laser. <i>IEEE Photonics Journal</i> , 2013, 5, 1501010-1501010.	2.0	23
34	Sensitive and Specific Protein Sensing Using Single-Mode Tapered Fiber Immobilized With Biorecognition Molecules. <i>IEEE Photonics Journal</i> , 2015, 7, 1-9.	2.0	23
35	Reduced Graphene Oxide/Maghemite Nanocomposite for Detection of Hydrocarbon Vapor Using Surface Plasmon Resonance. <i>IEEE Photonics Journal</i> , 2016, 8, 1-9.	2.0	23
36	Modified plastic optical fiber with CNT and graphene oxide nanostructured coatings for ethanol liquid sensing. <i>Optics Express</i> , 2017, 25, 5509.	3.4	21

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37	Optical Hydrogen Sensing Properties of Nanostructured Pd/MoO ₃ Films. <i>Sensor Letters</i> , 2011, 9, 16-20.	0.4	20
38	Detection of dengue using PAMAM dendrimer integrated tapered optical fiber sensor. <i>Scientific Reports</i> , 2019, 9, 13483.	3.3	20
39	Surface plasmon resonance sensor based on D-shaped optical fiber using fiberbench rotating wave plate for sensing pb ions. <i>Optik</i> , 2020, 202, 163724.	2.9	18
40	Chemical bath deposition of h-MoO ₃ on optical fibre as room-temperature ammonia gas sensor. <i>Ceramics International</i> , 2021, 47, 32828-32836.	4.8	18
41	Reflectance Response of Optical Fiber Coated With Carbon Nanotubes for Aqueous Ethanol Sensing. <i>IEEE Photonics Journal</i> , 2014, 6, 1-10.	2.0	17
42	Development of a Hydrogen Gas Sensor Using a Double Saw Resonator System at Room Temperature. <i>Sensors</i> , 2015, 15, 4749-4765.	3.8	17
43	Sensing Performance of Modified Single Mode Optical Fiber Coated With Nanomaterials-Based Ammonia Sensors Operated in the C-Band. <i>IEEE Access</i> , 2019, 7, 5467-5476.	4.2	17
44	Absorbance properties of gold coated fiber Bragg grating sensor for aqueous ethanol. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 9, .	1.9	16
45	Dengue E protein detection using graphene oxide integrated tapered optical fiber sensor. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, , 1-1.	2.9	16
46	Review of Energy Conservation Using Duty Cycling Schemes for IEEE 802.15.4 Wireless Sensor Network (WSN). <i>Wireless Personal Communications</i> , 2014, 77, 589-604.	2.7	15
47	Effect of Functionalized Carbon Nanotubes in the Detection of Benzene at Room Temperature. <i>Journal of Nanotechnology</i> , 2018, 2018, 1-7.	3.4	15
48	Improving the electrical conductivity of carbon fiber reinforced epoxy composite using reduced graphene oxide. <i>Materials Research Express</i> , 2019, 6, 065607.	1.6	15
49	Wavelength Dependent Graphene Oxide-Based Optical Microfiber Sensor for Ammonia Gas. <i>Sensors</i> , 2021, 21, 556.	3.8	15
50	Performance and comparison of fiber vibration sensing using SAC-OCDMA with direct decoding techniques. <i>Optik</i> , 2014, 125, 4803-4806.	2.9	14
51	Sensing mechanism of an optimized room temperature optical hydrogen gas sensor made of zinc oxide thin films. <i>Journal of Materials Research and Technology</i> , 2020, 9, 10624-10634.	5.8	14
52	High Sensitivity Microfiber Interferometer Sensor in Aqueous Solution. <i>Sensors</i> , 2020, 20, 4713.	3.8	14
53	H ₂ Gas Sensor Based on Pd/ZnO Nanostructures Deposited on Tapered Optical Fiber. <i>IEEE Sensors Journal</i> , 2020, 20, 2982-2990.	4.7	13
54	Fiber Bragg grating for pressure monitoring of full composite lightweight epoxy sleeve strengthening system for submarine pipeline. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 135-141.	4.4	12

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55	Optical H ₂ Sensing Performance of Anodized Nanoporous TiO ₂ Thin Films. <i>Procedia Chemistry</i> , 2009, 1, 951-954.	0.7	11
56	Fiber vibration sensor multiplexing techniques for quasi-distributed sensing. <i>Optics and Laser Technology</i> , 2014, 64, 34-40.	4.6	11
57	Enhanced multiwavelength generation in Brillouin fiber laser with pump noise suppression technique. <i>Laser Physics</i> , 2016, 26, 065102.	1.2	11
58	Gasochromic response of optical sensing platform integrated with polyaniline and poly(3,4-ethylenedioxythiophene) exposed to NH ₃ gas. <i>Polymer</i> , 2020, 192, 122313.	3.8	11
59	Fabrication of a Nickel Ferrite/Nanocellulose-Based Nanocomposite as an Active Sensing Material for the Detection of Chlorine Gas. <i>Polymers</i> , 2022, 14, 1906.	4.5	11
60	Performance evaluation of a bilayer SPR-based fiber optic RI sensor with TiO ₂ using FDTD solutions. <i>Photonic Sensors</i> , 2014, 4, 289-294.	5.0	10
61	Reduced Graphene Oxide/Maghemite Nanocomposite for Detection of Lead Ions in Water Using Surface Plasmon Resonance. <i>IEEE Photonics Journal</i> , 2018, 10, 1-10.	2.0	10
62	Gasochromic Performance of WO ₃ Nanorod Thin Films for Low Concentration H ₂ Sensing. <i>Procedia Engineering</i> , 2011, 25, 1065-1068.	1.2	9
63	Fabrication and Characterization of a Refractive Index Sensor Based on SPR in an Etched Plastic Optical Fiber. <i>Procedia Engineering</i> , 2015, 120, 969-974.	1.2	9
64	Wideband multiwavelength output generation based on cascaded four-wave mixing in distributed Raman amplifier utilizing a Fabry-Pérot laser diode. <i>Optics and Laser Technology</i> , 2017, 93, 87-91.	4.6	9
65	Separation and Detection of <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> Using a Microfluidic Device Integrated with an Optical Fibre. <i>Biosensors</i> , 2019, 9, 40.	4.7	9
66	Gasochromic Response of Pd/NiO Nanostructured Film Towards Hydrogen. <i>Sensor Letters</i> , 2011, 9, 898-901.	0.4	9
67	Laser phase noise effect and reduction in self-homodyne optical OFDM transmission system. <i>Optics Letters</i> , 2019, 44, 307.	3.3	9
68	H ₂ sensing performance of optical fiber coated with nano-platelet WO ₃ film. <i>Procedia Engineering</i> , 2010, 5, 1204-1207.	1.2	8
69	Performance comparison of OCDMA codes for quasi-distributed fiber vibration sensing. , 2013, , .		8
70	Absorbance response of graphene oxide coated on tapered multimode optical fiber towards liquid ethanol. <i>Journal of the European Optical Society-Rapid Publications</i> , 2015, 10, 15019.	1.9	8
71	Optical fiber coated Zinc Oxide (ZnO) nanorods decorated with Palladium (Pd) for hydrogen sensing. <i>Optical Materials</i> , 2019, 96, 109291.	3.6	8
72	WO ₃ /Au-Pt Nanocrystalline Thin Films as Optical Gas Sensors. <i>Sensor Letters</i> , 2011, 9, 595-599.	0.4	7

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73	Real Time <i>in Situ</i> Remote Monitoring for Cladding Modified SMF Integrating Nanocomposite Based Ammonia Sensors Deploying EDFA. IEEE Access, 2021, 9, 145282-145287.	4.2	7
74	Gasochromic performance of WO ₃ -nanorod thin films fabricated with an ArF excimer laser. Journal of the Korean Physical Society, 2012, 60, 393-397.	0.7	6
75	Nonlinear Fiber Loop Mirror Optimization to Enhance the Performance of Multiwavelength Brillouin/Erbium-Doped Fiber Laser. IEEE Photonics Journal, 2014, 6, 1-10.	2.0	6
76	Modified plastic optical fiber coated graphene/polyaniline nanocomposite for ammonia sensing. , 2016, , .		6
77	Carbon nanofibers functionalized with amide group for ammonia gas detection. AIP Conference Proceedings, 2019, , .	0.4	6
78	Simple multiwavelength Brillouin-Erbium-doped fiber laser structure based on short SSMF. Optics Communications, 2013, 300, 8-11.	2.1	5
79	Design configuration of encoder and decoder modules for modified double weight (MDW) code spectral amplitude coding (SAC) optical code division multiple access (OCDMA) based on fiber Bragg gratings. , 0, , .		4
80	Sensing Techniques on Determination of Chlorine Gas and Free Chlorine in Water. Journal of Sensors, 2022, 2022, 1-27.	1.1	4
81	Tapered multimode fiber sensor for ethanol sensing application. , 2013, , .		3
82	Enhancement of fiber-SPR sensor utilizing graphene oxide. , 2013, , .		3
83	Highly sensitive plastic optical fiber with palladium sensing layer for detection of hydrogen gas. , 2016, , .		3
84	Performance of improved X-axis auto-alignment and detection for single-channel FSO system. Photonic Network Communications, 2017, 33, 334-347.	2.7	3
85	Optical fiber based ammonia gas sensor with carbon nanotubes sensing enhancement. , 2017, , .		3
86	Etched Fiber Bragg Grating Sensor for Nitrate Sensing Application. , 2018, , .		3
87	Performance Evaluation of Free-Space Fibre Optic Detection in a Lab-on-Chip for Microorganism. Journal of Sensors, 2019, 2019, 1-10.	1.1	3
88	Functionalized Carbon Nanofibers (CNFs) for Ammonia Gas Detection at Room Temperature. Materials Today: Proceedings, 2019, 19, 1459-1466.	1.8	3
89	Single-mode Fiber Coated with Zinc Oxide (ZnO) Nanorods for H ₂ Gas Sensor Applications. , 2019, , .		3
90	CNT-based tapered optical fiber for ethanol remote sensing over 3-km optical fiber. Journal of Materials Research and Technology, 2021, 12, 1738-1746.	5.8	3

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91	PAMAM-Graphene Oxide-Integrated Microfiber Sensor for Label-Free Dengue II E Protein Detection. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-6.	2.9	3
92	Self-assembled polyaniline nanostructures in situ deposited on silica optical fibers for ammonia gas sensing. Synthetic Metals, 2022, 283, 116962.	3.9	3
93	Influence of HKUST-1 and emeraldine based on the long-term stability of emeraldine salt-coated SP-POF for room temperature optical NH ₃ gas sensing. Sensors and Actuators A: Physical, 2022, 335, 113395.	4.1	3
94	Tapered Optical Fiber for Hydrogen Sensing Application Based on Molybdenum Trioxide (MoO ₃). , 2021, 10, .		3
95	OPTICAL SENSING PROPERTIES OF WO ₃ NANOSTRUCTURED THIN FILMS ON SAPPHIRE SUBSTRATE TOWARD HYDROGEN. Biomedical Engineering - Applications, Basis and Communications, 2012, 24, 123-129.	0.6	2
96	Half-linear cavity multiwavelength Brillouin-erbium fiber laser. Journal of the European Optical Society-Rapid Publications, 0, 9, .	1.9	2
97	Temperature sensitivity comparison between bare FBG and buffered FBG. , 2014, , .		2
98	Refractive index sensor with asymmetrical tapered fiber based on evanescent field sensing. , 2015, , .		2
99	Collimator-based sensor for remote vibration monitoring. Microwave and Optical Technology Letters, 2015, 57, 38-41.	1.4	2
100	Highly Sensitive Hydrogen Sensor Based on Palladium-Coated Tapered Optical Fiber at Room Temperature. , 2020, , .		2
101	Reduction of Phase-Modulation to Intensity-Modulation Conversion Noise Effect Using Delayed Self-Homodyne Optical Orthogonal Frequency Division Multiplexing System. IEEE Photonics Journal, 2021, 13, 1-17.	2.0	2
102	Room Temperature Hydrogen Sensing Based on Tapered Optical Fiber Coated with Polyaniline (PANI). , 2021, 5, .		2
103	Design of Parallel and Serial Configurations of Encoder and Decoder Modules for Spectral Amplitude Coding (SAC) Optical Code Division Multiple Access (OCDMA) based on Fiber Bragg Gratings (FBGs). , 0, , .		1
104	Wavelength Shifting in the Fiber Bragg Grating (FBG) based Encoder and Decoder Modules for SAC-OCDMA System. , 2006, , .		1
105	Comparative study of the gasochromic performance of Pd/WO ₃ and Pt/WO ₃ nanotextured thin films for low concentration hydrogen sensing. , 2009, , .		1
106	Performance of SAC-OCDMA codes for multipoint fiber vibration sensing. , 2014, , .		1
107	Optimization on the preparation of microfluidic channel using dry film resist. , 2015, , .		1
108	Influence of design parameters on the performance of a refractive index sensor based on SPR in plastic optical fibers. , 2015, , .		1

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109	Carbon Nanotubes and Graphene Oxide Applications in Optochemical Sensors. , 2019, , 223-246.		1
110	Design of an optical fiber link employing QPSK format with SCM scheme. , 0, , .		0
111	Effects of the Power Differences in the AND-Subtraction Detection Technique in SAC-OCDMA System Performance. , 2006, , .		0
112	H ₂ sensing performance of optical fibers coated with WO ₃ film. , 2010, , .		0
113	Widely tunable multiwavelength hybrid Brillouin-erbium fiber laser utilizing virtual mirror. , 2013, , .		0
114	Reflectance response of optical fiber sensor coated with graphene oxide towards ethanol. , 2013, , .		0
115	Optimization of hybrid Raman-Brillouin-EDF amplification fiber laser in long distance FBG sensor system. , 2014, , .		0
116	Polyaniline coated on tapered multimode fiber for ammonia sensing. , 2014, , .		0
117	STUDY OF EDC/NHS IMMOBILIZATION FOR PLUMBIOUS DETECTION USING SURFACE PLASMON RESONANCE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
118	Optical sensing by exposed core fiber using self-written waveguide. , 2017, , .		0
119	New technology to expose core from fiber for optical sensing application. , 2017, , .		0
120	Polyaniline-graphite nanocomposite based modified cladding optical fiber gas sensors. , 2021, , 545-570.		0
121	Modified Single Mode Optical Fiber Ammonia Sensors Deploying PANI Thin Films. , 0, , .		0