

Ahmad Sabirin Zoolfakar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4342759/publications.pdf>

Version: 2024-02-01

69
papers

2,315
citations

304743

22
h-index

243625

44
g-index

69
all docs

69
docs citations

69
times ranked

4169
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured copper oxide semiconductors: a perspective on materials, synthesis methods and applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5247-5270.	5.5	323
2	Thin films and nanostructures of niobium pentoxide: fundamental properties, synthesis methods and applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15683-15703.	10.3	253
3	Electrospun Granular Hollow SnO ₂ Nanofibers Hydrogen Gas Sensors Operating at Low Temperatures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3129-3139.	3.1	166
4	The anodized crystalline WO ₃ nanoporous network with enhanced electrochromic properties. <i>Nanoscale</i> , 2012, 4, 5980.	5.6	164
5	Characterization of metal contacts for two-dimensional MoS ₂ nanoflakes. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	144
6	Classification and quantification of palm oil adulteration via portable NIR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 173, 335-342.	3.9	131
7	Nanoporous Nb ₂ O ₅ hydrogen gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 149-156.	7.8	123
8	Nanostructured copper oxides as ethanol vapour sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 620-627.	7.8	118
9	A vein-like nanoporous network of Nb ₂ O ₅ with a higher lithium intercalation discharge cut-off voltage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11019.	10.3	77
10	Substoichiometric two-dimensional molybdenum oxide flakes: a plasmonic gas sensing platform. <i>Nanoscale</i> , 2014, 6, 12780-12791.	5.6	77
11	Enhancing the current density of electrodeposited ZnO/Cu ₂ O solar cells by engineering their heterointerfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 21767.	6.7	74
12	Fabrication of hierarchical Sn-doped ZnO nanorod arrays through sonicated sol-gel immersion for room temperature, resistive-type humidity sensor applications. <i>Ceramics International</i> , 2016, 42, 9785-9795.	4.8	68
13	Transparent functional oxide stretchable electronics: micro-tectonics enabled high strain electrodes. <i>NPG Asia Materials</i> , 2013, 5, e62-e62.	7.9	67
14	Highly ordered anodized Nb ₂ O ₅ nanochannels for dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2014, 40, 20-23.	4.7	61
15	Anodic formation of a thick three-dimensional nanoporous WO ₃ film and its photocatalytic property. <i>Electrochemistry Communications</i> , 2013, 27, 128-132.	4.7	58
16	Nb ₂ O ₅ Schottky based ethanol vapour sensors: Effect of metallic catalysts. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 74-82.	7.8	55
17	Engineering electrodeposited ZnO films and their memristive switching performance. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10376.	2.8	52
18	Silver nanoparticle/PDMS nanocomposite catalytic membranes for H ₂ S gas removal. <i>Journal of Membrane Science</i> , 2014, 470, 346-355.	8.2	37

#	ARTICLE	IF	CITATIONS
19	A FREE-SPACE METHOD FOR COMPLEX PERMITTIVITY MEASUREMENT OF BULK AND THIN FILM DIELECTRICS AT MICROWAVE FREQUENCIES. <i>Progress in Electromagnetics Research B</i> , 2013, 51, 307-328.	1.0	31
20	Enhanced humidity sensing performance using Sn-Doped ZnO nanorod Array/SnO ₂ nanowire heteronetwork fabricated via two-step solution immersion. <i>Materials Letters</i> , 2018, 210, 258-262.	2.6	29
21	Reduced impurity-driven defect states in anodized nanoporous Nb ₂ O ₅ : the possibility of improving performance of photoanodes. <i>Chemical Communications</i> , 2013, 49, 6349.	4.1	28
22	Investigation of RF sputtered tungsten trioxide nanorod thin film gas sensors prepared with a glancing angle deposition method toward reductive and oxidative analytes. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 364-371.	7.8	23
23	Influence of Growth Time and Temperature on the Morphology of ZnO Nanorods via Hydrothermal. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 99, 012016.	0.6	17
24	FT-NIR, MicroNIR and LED-MicroNIR for detection of adulteration in palm oil <i>via</i> PLS and LDA. <i>Analytical Methods</i> , 2018, 10, 4143-4151.	2.7	17
25	Nanotubular Ta ₂ O ₅ as ultraviolet (UV) photodetector. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4953-4966.	2.2	15
26	High Surface Area to Volume Ratio 3D Nanoporous Nb ₂ O ₅ for Enhanced Humidity Sensing. <i>Journal of Electronic Materials</i> , 2019, 48, 3805-3815.	2.2	12
27	Schottky behavior of reduced graphene oxide at various operating temperatures. <i>Surfaces and Interfaces</i> , 2017, 6, 229-236.	3.0	11
28	Chemometrics analysis for the detection of dental caries via UV absorption spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 266, 120464.	3.9	10
29	A free-space method for measurement of complex permittivity of double-layer dielectric materials at microwave frequencies. , 2010, , .		8
30	Atomic Force Microscopy Adhesion Mapping: Revealing Assembly Process in Inorganic Systems. <i>Journal of Physical Chemistry C</i> , 2013, 117, 19984-19990.	3.1	8
31	Hydrogen sensors based on gold nanoclusters assembled onto ZnO nanostructures at low operating temperature. <i>Ceramics International</i> , 2017, 43, S511-S515.	4.8	7
32	Study of Reduced Graphene Oxide for Trench Schottky Diode. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 99, 012031.	0.6	6
33	Hydrothermal synthesis of nanomoss Nb ₂ O ₅ films and their ultraviolet photodetection performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16765-16774.	2.2	6
34	Electrical characteristics comparison between partially-depleted SOI and n-MOS devices investigation using Silvaco. , 2010, , .		5
35	Characterization of Titanium Dioxide (TiO ₂) Nanotubes for Resistive-type Humidity Sensor. , 2020, , .		5
36	The Development of IoT-based Solar Battery Monitoring System. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
37	Study of zirconium dioxide (ZrO ₂) dielectric charges. Materials Research Innovations, 2009, 13, 161-164.	2.3	2
38	Investigation of the effect of Anodized Duration toward Photocatalytic Performance of Nb ₂ O ₅ . IOP Conference Series: Materials Science and Engineering, 2018, 340, 012007.	0.6	2
39	Qualitative analysis of pure and adulterated canola oil via SIMCA. AIP Conference Proceedings, 2018, , .	0.4	2
40	Growth of ZnO nanorods on glass substrate deposited using dip coating method. AIP Conference Proceedings, 2018, , .	0.4	2
41	The optical properties of \hat{I} -Fe ₂ O ₃ nanostructures synthesized with different immersion time. AIP Conference Proceedings, 2018, , .	0.4	2
42	Photovoltaic performance of dye-sensitized solar cells based nanoporous-network Nb ₂ O ₅ . AIP Conference Proceedings, 2019, , .	0.4	2
43	Humidity Response of Ta ₂ O ₅ Sensor at Different Bias Voltages. , 2020, , .		2
44	Study of the Effect of Temperature on Humidity Sensing Properties of Electrochemical Reduced Graphene Oxide (ERGO). , 2020, , .		2
45	Facile fabrication method and decent humidity sensing of anodised nanotubular Ta ₂ O ₅ on Ta foil substrate. Journal of Materials Science: Materials in Electronics, 2022, 33, 3065-3080.	2.2	2
46	Comparison between Experiment and Process Simulation Results for Converting Enhancement to Depletion Mode NMOS Transistor. , 2008, , .		1
47	Dual-step synthesis of 3-dimensional niobium oxide “ Zinc oxide. AIP Conference Proceedings, 2018, , .	0.4	1
48	Niobium oxide synthesized via etching agent “ assisted hydrothermal process: A films with low reflectance properties. AIP Conference Proceedings, 2018, , .	0.4	1
49	Effect of solvent and voltage on anodization of Nb ₂ O ₅ films. AIP Conference Proceedings, 2019, , .	0.4	1
50	High sensitivity ultra-violet photosensor based on nanostructured Nb ₂ O ₅ . AIP Conference Proceedings, 2019, , .	0.4	1
51	Electrical Behavior of a Nanoporous Nb ₂ O ₅ /Pt Schottky Contact at Elevated Temperatures. Journal of Electronic Materials, 2019, 48, 611-620.	2.2	1
52	Enhancing humidity sensing performance: the effect of Nitrogen doped on Electrochemical Reduced Graphene Oxide (ERGO). , 2020, , .		1
53	Determination of the pH sensitivity level of anodized Ta ₂ O ₅ nanotubular using pH buffer solution: Towards engine oil deterioration sensor. , 2021, , .		1
54	Characterization of Contact Etching Profile for 0.35um Analog Mixed Signal Product Development. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
55	Capacitance Density Comparison of PECVD Silicon Oxynitride and Silicon Nitride Dielectric for MIM Capacitor. , 2006, , .		0
56	A Study of hafnium dioxide (HfO ₂) dielectric charges. , 2008, , .		0
57	Free-space microwave measurement of permittivity of epitaxial layer semiconductor. , 2011, , .		0
58	A free-space method for S-parameter measurement of semiconductor materials at microwave frequencies. , 2011, , .		0
59	Synthesis and enhanced photocatalytic property of CuO nanostructure via dip coating method. , 2017, , .		0
60	Engineering the Properties of Nb ₂ O ₅ -ZnO Nanostructures via Dual Synthesis Techniques. , 2018, , .		0
61	Enhancing Photocatalytic Performance of Nanoporous Nb ₂ O ₅ Doped Platinum. , 2018, , .		0
62	2018 IEEE International Conference on Semiconductor Electronics (ICSE) Synthesis, Properties and Humidity Detection of Anodized Nb ₂ O ₅ Films. , 2018, , .		0
63	The performance of hematite nanostructures in different humidity levels. AIP Conference Proceedings, 2018, , .	0.4	0
64	Current-Voltage Characteristics of Nb ₂ O ₅ nanoporous via light illumination. IOP Conference Series: Materials Science and Engineering, 2018, 340, 012001.	0.6	0
65	Short near infrared spectroscopy coupled with partial least square for the detection of adulteration in soybean oil. AIP Conference Proceedings, 2018, , .	0.4	0
66	Formation of Three Dimensional (3D) ZnO Nanostructures via Electric Field Manipulation to Enhance UV Sensing Performance. , 2019, , .		0
67	Electrodeposited Cu ₂ O Microstructure as an Effective Ultraviolet (UV) Sensor Operating at Low Bias Voltages. , 2019, , .		0
68	A study on detection techniques for honeybeeâ€™s authenticity. , 2020, , .		0
69	Effect of interdigital electrode material on the performance of an electrochemically Reduced Graphene Oxide chemiresistive humidity sensor. , 2021, , .		0