

Kuwat Triyana

List of Publications by Year in descending order

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127
papers

1,600
citations

279487

23
h-index

377514

34
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127
all docs

127
docs citations

127
times ranked

1324
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas and humidity sensing with quartz crystal microbalance (QCM) coated with graphene-based materials – A mini review. <i>Sensors and Actuators A: Physical</i> , 2021, 330, 112837.	2.0	89
2	Solvent vapor treatment improves mechanical strength of electrospun polyvinyl alcohol nanofibers. <i>Heliyon</i> , 2018, 4, e00592.	1.4	70
3	Analysis of lard in meatball broth using Fourier transform infrared spectroscopy and chemometrics. <i>Meat Science</i> , 2014, 96, 94-98.	2.7	64
4	Effect of temperature on the oxidation of Cu nanowires and development of an easy to produce, oxidation-resistant transparent conducting electrode using a PEDOT:PSS coating. <i>Scientific Reports</i> , 2018, 8, 10639.	1.6	59
5	Quartz crystal microbalance humidity sensors integrated with hydrophilic polyethyleneimine-grafted polyacrylonitrile nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128286.	4.0	54
6	Intelligent Mobile Electronic Nose System Comprising a Hybrid Polymer-Functionalized Quartz Crystal Microbalance Sensor Array. <i>ACS Omega</i> , 2020, 5, 29492-29503.	1.6	46
7	Quartz Crystal Microbalances Functionalized with Citric Acid-Doped Polyvinyl Acetate Nanofibers for Ammonia Sensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 5687-5697.	2.4	45
8	A highly sensitive safrole sensor based on polyvinyl acetate (PVAc) nanofiber-coated QCM. <i>Scientific Reports</i> , 2019, 9, 15407.	1.6	41
9	Ultrashort Pulse Laser Lift-Off Processing of InGaN/GaN Light-Emitting Diode Chips. <i>ACS Applied Electronic Materials</i> , 2021, 3, 778-788.	2.0	41
10	Chitosan-Based Quartz Crystal Microbalance for Alcohol Sensing. <i>Electronics (Switzerland)</i> , 2018, 7, 181.	1.8	38
11	Electrospun Nanofibers for Quartz Crystal Microbalance Gas Sensors: A Review. <i>ACS Applied Nano Materials</i> , 2021, 4, 9957-9975.	2.4	38
12	Enhanced sensitivity and selectivity of ammonia sensing by QCM modified with boric acid-doped PVAc nanofiber. <i>Sensors and Actuators A: Physical</i> , 2020, 304, 111902.	2.0	35
13	The Electronic Nose Coupled with Chemometric Tools for Discriminating the Quality of Black Tea Samples In Situ. <i>Chemosensors</i> , 2019, 7, 29.	1.8	34
14	Detecting Pork Adulteration in Beef for Halal Authentication Using an Optimized Electronic Nose System. <i>IEEE Access</i> , 2020, 8, 221700-221711.	2.6	34
15	Performance analysis of carbon-based perovskite solar cells by graphene oxide as hole transport layer: Experimental and numerical simulation. <i>Optical Materials</i> , 2021, 121, 111584.	1.7	34
16	Tandem-type organic solar cells by stacking different heterojunction materials. <i>Thin Solid Films</i> , 2005, 477, 198-202.	0.8	33
17	Polyacrylonitrile Nanofiber-Based Quartz Crystal Microbalance for Sensitive Detection of Safrole. <i>Sensors</i> , 2018, 18, 1150.	2.1	31
18	Effects of Different Materials Used for Internal Floating Electrode on the Photovoltaic Properties of Tandem Type Organic Solar Cell. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 2352-2356.	0.8	28

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19	Dairy products discrimination according to the milk type using an electrochemical multisensor device coupled with chemometric tools. <i>Journal of Food Measurement and Characterization</i> , 2018, 12, 2385-2393.	1.6	27
20	Polyvinyl Acetate Film-Based Quartz Crystal Microbalance for the Detection of Benzene, Toluene, and Xylene Vapors in Air. <i>Chemosensors</i> , 2019, 7, 20.	1.8	27
21	Wafer-scale transfer route for top-down III-nitride nanowire LED arrays based on the femtosecond laser lift-off technique. <i>Microsystems and Nanoengineering</i> , 2021, 7, 32.	3.4	27
22	Quartz crystal microbalance coated with PEDOT/PSS/PVA nanofiber for a high-performance humidity sensor. <i>Journal of Sensors and Sensor Systems</i> , 2019, 8, 243-250.	0.6	27
23	Electrospun polyvinyl acetate nanofiber modified quartz crystal microbalance for detection of primary alcohol vapor. <i>Sensors and Actuators A: Physical</i> , 2020, 301, 111742.	2.0	26
24	Room-temperature ppb-level trimethylamine gas sensors functionalized with citric acid-doped polyvinyl acetate nanofibrous mats. <i>Materials Advances</i> , 2021, 2, 3705-3714.	2.6	26
25	Classification of Indonesia black teas based on quality by using electronic nose and principal component analysis. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	21
26	Quartz crystal microbalance-coated cellulose acetate nanofibers overlaid with chitosan for detection of acetic anhydride vapor. <i>Results in Physics</i> , 2019, 15, 102680.	2.0	21
27	Optimizing Threshold using Pearson Correlation for Selecting Features of Electronic Nose Signals. <i>International Journal of Intelligent Engineering and Systems</i> , 2019, 12, 81-90.	0.8	21
28	Hybrid learning method based on feature clustering and scoring for enhanced COVID-19 breath analysis by an electronic nose. <i>Artificial Intelligence in Medicine</i> , 2022, 129, 102323.	3.8	21
29	A study of quartz crystal microbalance modified with polyvinyl acetate nanofiber to differentiate short-chain alcohol isomers. <i>Sensing and Bio-Sensing Research</i> , 2019, 25, 100294.	2.2	20
30	Deep learning in a sensor array system based on the distribution of volatile compounds from meat cuts using GC-MS analysis. <i>Sensing and Bio-Sensing Research</i> , 2020, 29, 100371.	2.2	20
31	Sensitivity Improvement of Ammonia Gas Sensor Based on Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) by Employing Doping of Bromocresol Green. <i>Journal of Nanotechnology</i> , 2014, 2014, 1-5.	1.5	19
32	Gas sensor array system properties for detecting bacterial biofilms. <i>Journal of Medical Signals and Sensors</i> , 2019, 9, 158.	0.5	17
33	Development of Electronic Nose with Low-Cost Dynamic Headspace for Classifying Vegetable Oils and Animal Fats. <i>Applied Mechanics and Materials</i> , 0, 771, 50-54.	0.2	16
34	Identification of pork in beef meatballs using Fourier transform infrared spectrophotometry and real-time polymerase chain reaction. <i>International Journal of Food Properties</i> , 2017, 20, 654-661.	1.3	16
35	The Roles of Polyvinyl Alcohol (PVA) as the Capping Agent on the Polyol Method for Synthesizing Silver Nanowires. <i>Journal of Nano Research</i> , 0, 49, 174-180.	0.8	16
36	Optimized back-propagation combined with radial basic neural network for improving performance of the electronic nose: Case study on the fermentation process of tempeh. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	14

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37	Detection of Taste Change of Bovine and Goat Milk in Room Ambient Using Electronic Tongue. Indonesian Journal of Chemistry, 2017, 17, 422.	0.3	14
38	Selectivity Improvement of Gas Sensor Based on Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Thin Film by Using Imprinting Method. Journal of Modern Physics, 2012, 03, 529-533.	0.3	14
39	Electrospun Nanofibers Based on Polyvinyl Alcohol/Chitosan and its Stability in KOH Solution. Materials Science Forum, 0, 827, 321-325.	0.3	13
40	Study of thermal degradation of PVA/Chitosan/Gelatin electrospun nanofibers. AIP Conference Proceedings, 2016, , .	0.3	13
41	Application of polyvinyl alcohol nanofiber membrane for smoke filtration. AIP Conference Proceedings, 2016, , .	0.3	13
42	Gas sensor array to classify the chicken meat with E. coli contaminant by using random forest and support vector machine. Biosensors and Bioelectronics: X, 2021, 9, 100083.	0.9	13
43	Electrical Conductivity Improvement of Polyvinyl Alcohol Nanofiber by Solvent Vapour Treatment. International Journal on Advanced Science, Engineering and Information Technology, 2016, 6, 675.	0.2	13
44	Fourier transform infrared spectrum pre-processing technique selection for detecting PYLCV-infected chilli plants. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 278, 121339.	2.0	13
45	Effect of heat treatment on morphology and crystallinity of electrospun Poly(vinyl alcohol) nanofibers. AIP Conference Proceedings, 2016, , .	0.3	12
46	Effect of Temperature on Silver Nanorods Synthesized by Polyol Method. Advanced Materials Research, 0, 1123, 256-259.	0.3	11
47	Quartz crystal microbalance coated by PAN nanofibers and PEDOT:PSS for humidity sensor. , 2017, , .		11
48	Stability evaluation of quartz crystal microbalances coated with polyvinyl acetate nanofibrous mats as butanol vapor sensors. Materials Today Communications, 2021, 26, 101770.	0.9	11
49	Effect of Stirring rate on The Synthesis Silver Nanowires using Polyvinyl Alcohol as A Capping Agent by Polyol Process. International Journal on Advanced Science, Engineering and Information Technology, 2016, 6, 365.	0.2	11
50	Quantification of Lard in the Mixture with Olive Oil in Cream Cosmetics Based on FTIR Spectra and Chemometrics for Halal Authentication. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	9
51	An Enhanced Safrole Sensing Performance of a Polyacrylonitrile Nanofiber- Based-QCM Sensor by Overlaying with Chitosan. Sains Malaysiana, 2019, 48, 2041-2049.	0.3	9
52	Development of Electronic Nose with High Stable Sample Heater to Classify Quality Levels of Local Black Tea. International Journal on Advanced Science, Engineering and Information Technology, 2017, 7, 352.	0.2	9
53	Preparation of PVA/Chitosan/TiO ₂ nanofibers using electrospinning method. AIP Conference Proceedings, 2016, , .	0.3	8
54	Effect of Blend Ratio on Morphology and Swelling Properties of PVA/Chitosan Nanofibers. Materials Science Forum, 0, 901, 79-84.	0.3	8

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55	eNose-TB: A trial study protocol of electronic nose for tuberculosis screening in Indonesia. PLoS ONE, 2021, 16, e0249689.	1.1	8
56	Graphene oxide as an effective hole transport material for low-cost carbon-based mesoscopic perovskite solar cells. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2021, 12, 035001.	0.7	8
57	A novel Arduino Mega 2560 microcontroller-based electronic tongue for dairy product classification. AIP Conference Proceedings, 2016, , .	0.3	7
58	Analytical solutions for capacitance of a semi-cylindrical capacitive sensor. AIP Conference Proceedings, 2016, , .	0.3	7
59	Study of parallel oriented electrospun polyvinyl alcohol (PVA) nanofibers using modified electrospinning method. AIP Conference Proceedings, 2016, , .	0.3	7
60	Lab-Made Electronic Nose for Fast Detection of <i>Listeria monocytogenes</i> and <i>Bacillus cereus</i> . Veterinary Sciences, 2020, 7, 20.	0.6	7
61	Gas Chromatography-Mass Spectrometry Analysis of Compounds Emitted by Pepper Yellow Leaf Curl Virus-Infected Chili Plants: A Preliminary Study. Separations, 2021, 8, 136.	1.1	7
62	Sensitivity prediction and analysis of nanofiber-based gas sensors using solubility and vapor pressure parameters. Japanese Journal of Applied Physics, 2021, 60, 107001.	0.8	7
63	Improvement of Heterojunction Donor/Acceptor Organic Photovoltaic Devices by Employing Additional Active Layer. Japanese Journal of Applied Physics, 2005, 44, 1974-1977.	0.8	6
64	Microscopic Characterization of Cellulose Nanocrystals Isolated from Sisal Fibers. Materials Science Forum, 0, 827, 174-179.	0.3	6
65	Electronic Nose Coupled with Linear and Nonlinear Supervised Learning Methods for Rapid Discriminating Quality Grades of Superior Java Cocoa Beans. International Journal of Intelligent Engineering and Systems, 2019, 12, 167-176.	0.8	6
66	Rapid Discrimination of Indonesian Herbal Medicines by Using Electronic Nose Based on Array of Commercial Gas Sensors. Applied Mechanics and Materials, 0, 771, 209-212.	0.2	5
67	Synthesis of copper nanorods by aqueous solution method without heating external. , 2016, , .		5
68	Optical properties of planar nematic liquid crystals samples which are parallel oriented by nanofibers. AIP Conference Proceedings, 2016, , .	0.3	5
69	Optimization of Chitosan/PVA Concentration in Fabricating Nanofibers Membrane and its Prospect as Air Filtration. Materials Science Forum, 0, 901, 20-25.	0.3	5
70	Nonmechanical parfocal and autofocus features based on wave propagation distribution in lensfree holographic microscopy. Scientific Reports, 2021, 11, 3213.	1.6	5
71	Application of principal component analysis and discrete wavelet transform in electronic nose for herbal drinks classification. AIP Conference Proceedings, 2016, , .	0.3	4
72	Effect of Chemical Reduction Temperature on Optical Properties of Reduced Graphene Oxide (rGO) and its Potentials Supercapacitor Device. Materials Science Forum, 0, 901, 55-61.	0.3	4

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73	Electronic Nose Coupled with Chemometrics for Monitoring of Tempeh Fermentation Process. , 2018, , .		4
74	A simple method to examine room-temperature corrosion of graphene-coated copper foil after stored for 2.5 years. Materials Research Express, 2018, 5, 105016.	0.8	4
75	Molecular Imprinting Polymer-Based QCM Sensor for Detection of $\hat{\pm}$ -Pinene. Key Engineering Materials, 0, 840, 418-423.	0.4	4
76	HYDROXYL FUNCTIONALIZED GRAPHENE AS A SUPERIOR ANODE MATERIAL FOR ELECTROCHEMICAL OXIDATION OF METHYLENE BLUE. Rasayan Journal of Chemistry, 2021, 14, 1140-1147.	0.2	4
77	The Roles of Hydrazine and Ethylenediamine in Wet Synthesis of Cu Nanowire. Indonesian Journal of Chemistry, 2017, 17, 43.	0.3	4
78	Nanocrystalline Cellulose Studied with a Conventional SEM. , 0, , .		4
79	A Simple Way of Producing Nano Anatase TiO_2 in Polyvinyl Alcohol Fibers. Advanced Materials Research, 0, 896, 45-48.	0.3	3
80	Preparation of graphene oxide/poly (3,4-ethylenedioxytriophene): Poly (styrene sulfonate) (PEDOT:PSS) electrospun nanofibers. AIP Conference Proceedings, 2016, , .	0.3	3
81	Effect of polyaniline polymerization methods on the preparation of electrospun polyaniline nanofiber. AIP Conference Proceedings, 2016, , .	0.3	3
82	Effect of Chitosan concentration and heat treatment on electrospun PVA/Chitosan nanofibers. AIP Conference Proceedings, 2016, , .	0.3	3
83	Studies on Magnetism of the Layered Organic Antiferromagnet Bordered on a Superconducting Phase by Muon Spin Rotation and Magnetization Measurements. Journal of the Physical Society of Japan, 2016, 85, 024710.	0.7	3
84	Chloride ion addition for controlling shapes and properties of silver nanorods capped by polyvinyl alcohol synthesized using polyol method. AIP Conference Proceedings, 2016, , .	0.3	3
85	Polysulfone/Polyacrylonitrile Membrane for Oil/Water Separation. Materials Science Forum, 2017, 886, 145-149.	0.3	3
86	Quality Classification of Chili Sauce Using Electronic Nose with Principal Component Analysis. , 2018, , .		3
87	Optimisation of the Maillard reaction of bovine gelatine-xylose model using response surface methodology. Food Research, 2020, 4, 99-106.	0.3	3
88	Steady-state response feature extraction optimization to enhance electronic nose performance. , 2020, , .		3
89	Structural Evolution and Optical Properties of TiO_2 Thin Films Prepared by DC-Reactive Sputtering Technique. Advanced Materials Research, 2013, 699, 789-794.	0.3	2
90	Building Up of Surface Plasmon Resonance Instrument Using Spreeta 2000 and Arduino Mega 2560. Applied Mechanics and Materials, 0, 771, 25-28.	0.2	2

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91	Fabricating Polyvinyl Alcohol Fibers with Evenly Distributed Nano Silver. Materials Science Forum, 0, 827, 95-98.	0.3	2
92	Crystal growth of the layered organic antiferromagnet, deuterated β -(BEDT-TTF) $_2$ Cu[N(CN) $_2$]Br. AIP Conference Proceedings, 2016, , .	0.3	2
93	The electrical properties of PEDOT:PSS nanofibers. AIP Conference Proceedings, 2016, , .	0.3	2
94	Effect of Sintering Temperature on Crystal Structure and Surface Morphology of NdFeO $_3$ Oxide Alloy Materials Prepared by Solid Reaction Method. Key Engineering Materials, 2019, 811, 158-162.	0.4	2
95	Hydrophilic/Hydrophobic Property Changes on Polyacrylonitrile/Cellulose Acetate Nanofiber Membrane. Materials Science Forum, 2020, 990, 215-219.	0.3	2
96	Thin Films of Silver Nanowires for Flexible, Transparent, and Conductive (FTC) Electrodes. International Journal on Advanced Science, Engineering and Information Technology, 2020, 10, 137-144.	0.2	2
97	Effect of Precursor Molar Ratio on the Yield of Cu Nanowires Synthesized using Aqueous Solution Method. International Journal on Advanced Science, Engineering and Information Technology, 2016, 6, 447.	0.2	2
98	On the dependency of equivalent circuit parameters of heterojunction bilayer copper phthalocyanine/perylene photovoltaic device on light intensity based on reverse bias characteristic. , 2008, , .		1
99	Theoretical Determination of The Optimum Thickness of Perylene Layer in Bilayer Phthalocyanineâ•Perylene Photovoltaic Device. , 2009, , .		1
100	Determination of Band Gap Energy of Semiconductor in Homojunction Structure Devices by Using Customized Microcontroller Based Apparatus. Advanced Materials Research, 0, 896, 633-637.	0.3	1
101	Investigation electrical properties of nanofiber polyaniline with molarity dopant variation as polymer conductive. , 2014, , .		1
102	Fabrication of PVA Fibers Loaded with Fe $_3$ O $_4$ Nano Particles Using Electrospinner. Advanced Materials Research, 0, 1123, 237-240.	0.3	1
103	Photodynamic Combined with Magnetic Field Applications for Viability Activation of Anaerobic Photosynthetic Bacteria. Applied Mechanics and Materials, 0, 771, 141-144.	0.2	1
104	Surface plasmon resonance phenomenon of the insulating state polyaniline. AIP Conference Proceedings, 2015, , .	0.3	1
105	Comparative analysis of feature extraction methods in the clustering of electronic nose response correlated with GC/MS analysis. AIP Conference Proceedings, 2016, , .	0.3	1
106	Preparation of graphene oxide/poly (3,4-ethylenedioxytriophene): Poly (styrene sulfonate) (PEDOT:PSS) electrospun nanofibers. AIP Conference Proceedings, 2016, , .	0.3	1
107	Drude Lorentz model for dielectric constant of multilayer epitaxial graphene on C-face SiC measured by synchrotron radiation. AIP Conference Proceedings, 2016, , .	0.3	1
108	Chloride ion addition for controlling shapes and properties of silver nanorods capped by polyvinyl alcohol synthesized by polyol method. AIP Conference Proceedings, 2016, , .	0.3	1

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109	Calculation of refractive index of multilayer epitaxial graphene on C-face SiC measured by synchrotron using Kramers-Kronig and Newton-Raphson method. AIP Conference Proceedings, 2016, , .	0.3	1
110	Polyacrylamide Coated on Quartz Crystal Microbalance Electrodes for Highly Sensitive Sensor of Acetic Acid. Materials Science Forum, 2019, 948, 254-259.	0.3	1
111	Fabrication of Copper Nanowire Coated by Silver Nanocrystal for Protection of Oxidation Transparent Conductive Electrode. Materials Science Forum, 2019, 948, 243-248.	0.3	1
112	Enhancing photocatalytic performance by sonication and surfactant addition on the synthesis process of PVA/TiO ₂ nanofibers membranes by electrospinning method. AIP Conference Proceedings, 2020, , .	0.3	1
113	The use of electronic tongue (e-tongue) as a simple and rapid method for honey authentication. Food Research, 2021, 5, 453-460.	0.3	1
114	Electrical Conductivity of Polyaniline Fiber Synthesized by Interfacial Polymerization and Electrospinning. Indonesian Journal of Electrical Engineering and Computer Science, 2017, 5, 85.	0.7	1
115	Classification of adeno carcinoma, high squamous intraepithelial lesion, and squamous cell carcinoma in Pap smear images based on extreme learning machine. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2021, 9, 115-120.	1.3	1
116	INFLUENCE OF OPTICAL FILTER EFFECT ON THE INCIDENT PHOTON TO CURRENT EFFICIENCY OF HETEROJUNCTION ORGANIC PHOTOVOLTAIC DEVICES. , 2009, , .		0
117	Investigation of nanofiber polyaniline properties as active material for biosensor. , 2015, , .		0
118	An automatic data acquisition system for optical characterization of PEDOT:PSS-based gas sensor. AIP Conference Proceedings, 2015, , .	0.3	0
119	Determination of Estrus Phase in Cattle Using Electronic Nose. , 2018, , .		0
120	Metal Oxide Semiconductor Based Electronic Nose as Classification and Prediction Instrument for Nicotine Concentration in Unflavoured Electronic Juice. , 2018, , .		0
121	Polyethyleneimine-Modified Quartz Crystal Microbalance and its Characteristics for Detecting Acetic Acid. Materials Science Forum, 2019, 948, 294-299.	0.3	0
122	Electronic Nose Coupled with Support Vector Machines for Rapid Discrimination of Black Tea According to the Quality Levels. , 2019, , .		0
123	Studies of Refractive Index and Extinction Coefficient on Polyaniline Nanofibers as Anorganic Semiconductor with Variant Molar Dopan. Advanced Science Letters, 2017, 23, 2536-2538.	0.2	0
124	Study on Growth Mechanism of Cu Nanowires and Its Application as Transparent Conducting Electrode. Indonesian Journal of Chemistry, 2019, 19, 160.	0.3	0
125	Rashba Effect on Buckled Square Lattice Ge and Sn chalcogenides (MX, M=Ge,Sn, X=O,S,Se,Te) using DFT method. Indonesian Journal of Chemistry, 2020, 20, 697.	0.3	0
126	Automatic system for stitching microscopic images using OpenPano. AIP Conference Proceedings, 2020, , .	0.3	0

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127	The Crystal Structure Analysis of Silver Nanowires Using Rietveld Method for Optoelectronic Application. Journal of Nano Research, 0, 71, 1-12.	0.8	0