

# Kuwat Triyana

## List of Publications by Year in descending order

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Version: 2024-02-01

127  
papers

1,600  
citations

279487

23  
h-index

377514

34  
g-index

127  
all docs

127  
docs citations

127  
times ranked

1324  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fourier transform infrared spectrum pre-processing technique selection for detecting PYLCV-infected chilli plants. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 278, 121339.	2.0	13
2	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
3	Stability evaluation of quartz crystal microbalances coated with polyvinyl acetate nanofibrous mats as butanol vapor sensors. <i>Materials Today Communications</i> , 2021, 26, 101770.	0.9	11
4	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
5	HYDROXYL FUNCTIONALIZED GRAPHENE AS A SUPERIOR ANODE MATERIAL FOR ELECTROCHEMICAL OXIDATION OF METHYLENE BLUE. <i>Rasayan Journal of Chemistry</i> , 2021, 14, 1140-1147.	0.2	4
6	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
7	Nonmechanical parfocal and autofocus features based on wave propagation distribution in lensfree holographic microscopy. <i>Scientific Reports</i> , 2021, 11, 3213.	1.6	5
8	eNose-TB: A trial study protocol of electronic nose for tuberculosis screening in Indonesia. <i>PLoS ONE</i> , 2021, 16, e0249689.	1.1	8
9	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
10	The use of electronic tongue (e-tongue) as a simple and rapid method for honey authentication. <i>Food Research</i> , 2021, 5, 453-460.	0.3	1
11	Gas Chromatography-Mass Spectrometry Analysis of Compounds Emitted by Pepper Yellow Leaf Curl Virus-Infected Chili Plants: A Preliminary Study. <i>Separations</i> , 2021, 8, 136.	1.1	7
12	Gas sensor array to classify the chicken meat with E. coli contaminant by using random forest and support vector machine. <i>Biosensors and Bioelectronics: X</i> , 2021, 9, 100083.	0.9	13
13	Electrospun Nanofibers for Quartz Crystal Microbalance Gas Sensors: A Review. <i>ACS Applied Nano Materials</i> , 2021, 4, 9957-9975.	2.4	38
14	Graphene oxide as an effective hole transport material for low-cost carbon-based mesoscopic perovskite solar cells. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2021, 12, 035001.	0.7	8
15	Sensitivity prediction and analysis of nanofiber-based gas sensors using solubility and vapor pressure parameters. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 107001.	0.8	7
16	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
17	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
18	Classification of adeno carcinoma, high squamous intraepithelial lesion, and squamous cell carcinoma in Pap smear images based on extreme learning machine. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2021, 9, 115-120.	1.3	1

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19	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
20	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
21	Enhancing photocatalytic performance by sonication and surfactant addition on the synthesis process of PVA/TiO <sub>2</sub> nanofibers membranes by electrospinning method. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
22	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
23	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
24	Hydrophilic/Hydrophobic Property Changes on Polyacrylonitrile/Cellulose Acetate Nanofiber Membrane. <i>Materials Science Forum</i> , 2020, 990, 215-219.	0.3	2
25	Lab-Made Electronic Nose for Fast Detection of <i>Listeria monocytogenes</i> and <i>Bacillus cereus</i> . <i>Veterinary Sciences</i> , 2020, 7, 20.	0.6	7
26	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
27	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
28	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
29	Thin Films of Silver Nanowires for Flexible, Transparent, and Conductive (FTC) Electrodes. <i>International Journal on Advanced Science, Engineering and Information Technology</i> , 2020, 10, 137-144.	0.2	2
30	Optimisation of the Maillard reaction of bovine gelatine-xylose model using response surface methodology. <i>Food Research</i> , 2020, 4, 99-106.	0.3	3
31	Rashba Effect on Buckled Square Lattice Ge and Sn chalcogenides (MX, M=Ge,Sn, X=O,S,Se,Te) using DFT method. <i>Indonesian Journal of Chemistry</i> , 2020, 20, 697.	0.3	0
32	Automatic system for stitching microscopic images using OpenPano. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
33	Steady-state response feature extraction optimization to enhance electronic nose performance. , 2020, , .		3
34	Polyethyleneimine-Modified Quartz Crystal Microbalance and its Characteristics for Detecting Acetic Acid. <i>Materials Science Forum</i> , 2019, 948, 294-299.	0.3	0
35	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
36	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

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37	Quartz crystal microbalance-coated cellulose acetate nanofibers overlaid with chitosan for detection of acetic anhydride vapor. Results in Physics, 2019, 15, 102680.	2.0	21
38	A highly sensitive safrole sensor based on polyvinyl acetate (PVAc) nanofiber-coated QCM. Scientific Reports, 2019, 9, 15407.	1.6	41
39	Polyacrylamide Coated on Quartz Crystal Microbalance Electrodes for Highly Sensitive Sensor of Acetic Acid. Materials Science Forum, 2019, 948, 254-259.	0.3	1
40	Polyvinyl Acetate Film-Based Quartz Crystal Microbalance for the Detection of Benzene, Toluene, and Xylene Vapors in Air. Chemosensors, 2019, 7, 20.	1.8	27
41	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
42	Electronic Nose Coupled with Support Vector Machines for Rapid Discrimination of Black Tea According to the Quality Levels. , 2019, , .		0
43	Effect of Sintering Temperature on Crystal Structure and Surface Morphology of NdFeO <sub>3</sub> Oxide Alloy Materials Prepared by Solid Reaction Method. Key Engineering Materials, 2019, 811, 158-162.	0.4	2
44	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
45	Optimizing Threshold using Pearson Correlation for Selecting Features of Electronic Nose Signals. International Journal of Intelligent Engineering and Systems, 2019, 12, 81-90.	0.8	21
46	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
47	Gas sensor array system properties for detecting bacterial biofilms. Journal of Medical Signals and Sensors, 2019, 9, 158.	0.5	17
48	Quartz crystal microbalance coated with PEDOT/PSS/PVA nanofiber for a high-performance humidity sensor. Journal of Sensors and Sensor Systems, 2019, 8, 243-250.	0.6	27
49	Study on Growth Mechanism of Cu Nanowires and Its Application as Transparent Conducting Electrode. Indonesian Journal of Chemistry, 2019, 19, 160.	0.3	0
50	Determination of Estrus Phase in Cattle Using Electronic Nose. , 2018, , .		0
51	Metal Oxide Semiconductor Based Electronic Nose as Classification and Prediction Instrument for Nicotine Concentration in Unflavoured Electronic Juice. , 2018, , .		0
52	Electronic Nose Coupled with Chemometrics for Monitoring of Tempeh Fermentation Process. , 2018, , .		4
53	Quality Classification of Chili Sauce Using Electronic Nose with Principal Component Analysis. , 2018, , .		3
54	Chitosan-Based Quartz Crystal Microbalance for Alcohol Sensing. Electronics (Switzerland), 2018, 7, 181.	1.8	38

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55	Polyacrylonitrile Nanofiber-Based Quartz Crystal Microbalance for Sensitive Detection of Safrole. <i>Sensors</i> , 2018, 18, 1150.	2.1	31
56	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
57	A simple method to examine room-temperature corrosion of graphene-coated copper foil after stored for 2.5 years. <i>Materials Research Express</i> , 2018, 5, 105016.	0.8	4
58	Solvent vapor treatment improves mechanical strength of electrospun polyvinyl alcohol nanofibers. <i>Heliyon</i> , 2018, 4, e00592.	1.4	70
59	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
60	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
61	Polysulfone/Polyacrylonitrile Membrane for Oil/Water Separation. <i>Materials Science Forum</i> , 2017, 886, 145-149.	0.3	3
62	Quartz crystal microbalance coated by PAN nanofibers and PEDOT:PSS for humidity sensor. , 2017, , .		11
63	Development of Electronic Nose with High Stable Sample Heater to Classify Quality Levels of Local Black Tea. <i>International Journal on Advanced Science, Engineering and Information Technology</i> , 2017, 7, 352.	0.2	9
64	The Roles of Hydrazine and Ethylenediamine in Wet Synthesis of Cu Nanowire. <i>Indonesian Journal of Chemistry</i> , 2017, 17, 43.	0.3	4
65	Detection of Taste Change of Bovine and Goat Milk in Room Ambient Using Electronic Tongue. <i>Indonesian Journal of Chemistry</i> , 2017, 17, 422.	0.3	14
66	Electrical Conductivity of Polyaniline Fiber Synthesized by Interfacial Polymerization and Electrospinning. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2017, 5, 85.	0.7	1
67	Studies of Refractive Index and Extinction Coefficient on Polyaniline Nanofibers as Anorganic Semiconductor with Variant Molar Dopan. <i>Advanced Science Letters</i> , 2017, 23, 2536-2538.	0.2	0
68	Crystal growth of the layered organic antiferromagnet, deuterated $\hat{\Gamma}^2$ -(BEDT-TTF) $2\text{Cu}[\text{N}(\text{CN})_2\text{Br}$ . <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
69	Preparation of graphene oxide/poly (3,4-ethylenedioxytriophene): Poly (styrene sulfonate) (PEDOT:PSS) electrospun nanofibers. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	3
70	Synthesis of copper nanorods by aqueous solution method without heating external. , 2016, , .		5
71	Preparation of PVA/Chitosan/TiO <sub>2</sub> nanofibers using electrospinning method. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	8
72	Comparative analysis of feature extraction methods in the clustering of electronic nose response correlated with GC/MS analysis. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1

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73	Preparation of graphene oxide/poly (3,4-ethylenedioxytriophene): Poly (styrene sulfonate) (PEDOT:PSS) electrospun nanofibers. AIP Conference Proceedings, 2016, , .	0.3	1
74	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
75	Optical properties of planar nematic liquid crystals samples which are parallel oriented by nanofibers. AIP Conference Proceedings, 2016, , .	0.3	5
76	Study of thermal degradation of PVA/Chitosan/Gelatin electrospun nanofibers. AIP Conference Proceedings, 2016, , .	0.3	13
77	The electrical properties of PEDOT:PSS nanofibers. AIP Conference Proceedings, 2016, , .	0.3	2
78	Effect of polyaniline polymerization methods on the preparation of electrospun polyaniline nanofiber. AIP Conference Proceedings, 2016, , .	0.3	3
79	A novel Arduino Mega 2560 microcontroller-based electronic tongue for dairy product classification. AIP Conference Proceedings, 2016, , .	0.3	7
80	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
81	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
82	Analytical solutions for capacitance of a semi-cylindrical capacitive sensor. AIP Conference Proceedings, 2016, , .	0.3	7
83	Effect of Chitosan concentration and heat treatment on electrospun PVA/Chitosan nanofibers. AIP Conference Proceedings, 2016, , .	0.3	3
84	Application of polyvinyl alcohol nanofiber membrane for smoke filtration. AIP Conference Proceedings, 2016, , .	0.3	13
85	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
86	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
87	Classification of Indonesia black teas based on quality by using electronic nose and principal component analysis. AIP Conference Proceedings, 2016, , .	0.3	21
88	Optimized back-propagation combined with radial basic neural network for improving performance of the electronic nose: Case study on the fermentation process of tempeh. AIP Conference Proceedings, 2016, , .	0.3	14
89	Study of parallel oriented electrospun polyvinyl alcohol (PVA) nanofibers using modified electrospinning method. AIP Conference Proceedings, 2016, , .	0.3	7
90	Effect of heat treatment on morphology and crystallinity of electrospun Poly(vinyl alcohol) nanofibers. AIP Conference Proceedings, 2016, , .	0.3	12

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91	Application of principal component analysis and discrete wavelet transform in electronic nose for herbal drinks classification. AIP Conference Proceedings, 2016, , .	0.3	4
92	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
93	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
94	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
95	Investigation of nanofiber polyaniline properties as active material for biosensor. , 2015, , .		0
96	An automatic data acquisition system for optical characterization of PEDOT:PSS-based gas sensor. AIP Conference Proceedings, 2015, , .	0.3	0
97	Surface plasmon resonance phenomenon of the insulating state polyaniline. AIP Conference Proceedings, 2015, , .	0.3	1
98	Sensitivity Improvement of Ammonia Gas Sensor Based on Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) by Employing Doping of Bromocresol Green. Journal of Nanotechnology, 2014, 2014, 1-5.	1.5	19
99	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
100	Investigation electrical properties of nanofiber polyaniline with molarity dopant variation as polymer conductive. , 2014, , .		1
101	Analysis of lard in meatball broth using Fourier transform infrared spectroscopy and chemometrics. Meat Science, 2014, 96, 94-98.	2.7	64
102	Structural Evolution and Optical Properties of TiO <sub>2</sub> Thin Films Prepared by DC-Reactive Sputtering Technique. Advanced Materials Research, 2013, 699, 789-794.	0.3	2
103	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
104	Theoretical Determination of The Optimum Thickness of Perylene Layer in Bilayer Phthalocyanine•Perylene Photovoltaic Device. , 2009, , .		1
105	INFLUENCE OF OPTICAL FILTER EFFECT ON THE INCIDENT PHOTON TO CURRENT EFFICIENCY OF HETEROJUNCTION ORGANIC PHOTOVOLTAIC DEVICES. , 2009, , .		0
106	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
107	Tandem-type organic solar cells by stacking different heterojunction materials. Thin Solid Films, 2005, 477, 198-202.	0.8	33
108	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

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109	Effects of Different Materials Used for Internal Floating Electrode on the Photovoltaic Properties of Tandem Type Organic Solar Cell. Japanese Journal of Applied Physics, 2004, 43, 2352-2356.	0.8	28
110	A Simple Way of Producing Nano Anatase TiO <sub>2</sub> in Polyvinyl Alcohol Fibers. Advanced Materials Research, 0, 896, 45-48.	0.3	3
111	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
112	Fabrication of PVA Fibers Loaded with Fe <sub>3</sub> O <sub>4</sub> Nano Particles Using Electrospinner. Advanced Materials Research, 0, 1123, 237-240.	0.3	1
113	Photodynamic Combined with Magnetic Field Applications for Viability Activation of Anaerobic Photosynthetic Bacteria. Applied Mechanics and Materials, 0, 771, 141-144.	0.2	1
114	Effect of Temperature on Silver Nanorods Synthesized by Polyol Method. Advanced Materials Research, 0, 1123, 256-259.	0.3	11
115	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
116	Development of Electronic Nose with Low-Cost Dynamic Headspace for Classifying Vegetable Oils and Animal Fats. Applied Mechanics and Materials, 0, 771, 50-54.	0.2	16
117	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
118	Electrospun Nanofibers Based on Polyvinyl Alcohol/Chitosan and its Stability in KOH Solution. Materials Science Forum, 0, 827, 321-325.	0.3	13
119	Fabricating Polyvinyl Alcohol Fibers with Evenly Distributed Nano Silver. Materials Science Forum, 0, 827, 95-98.	0.3	2
120	Microscopic Characterization of Cellulose Nanocrystals Isolated from Sisal Fibers. Materials Science Forum, 0, 827, 174-179.	0.3	6
121	The Roles of Polyvinyl Alcohol (PVA) as the Capping Agent on the Polyol Method for Synthesizing Silver Nanowires. Journal of Nano Research, 0, 49, 174-180.	0.8	16
122	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
123	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
124	Effect of Blend Ratio on Morphology and Swelling Properties of PVA/Chitosan Nanofibers. Materials Science Forum, 0, 901, 79-84.	0.3	8
125	Molecular Imprinting Polymer-Based QCM Sensor for Detection of $\hat{\pm}$ -Pinene. Key Engineering Materials, 0, 840, 418-423.	0.4	4
126	Nanocrystalline Cellulose Studied with a Conventional SEM. , 0, , .		4



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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