

Yusran Sulaiman

List of Publications by Year in descending order

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107
papers

3,348
citations

126708

33
h-index

182168

51
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108
all docs

108
docs citations

108
times ranked

3837
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-nanogate manipulation on electrode surface as an electrochemical immunosensing strategy for detecting anti-hepatitis B surface antigen. <i>Bioelectrochemistry</i> , 2022, 143, 107952.	2.4	3
2	A copper-based metal-organic framework/tungsten trioxide with improved coloration efficiency for electrochromic application. <i>Chemical Engineering Journal</i> , 2022, 428, 130989.	6.6	21
3	Hierarchical Porous Materials for Supercapacitors. , 2022, , 622-637.		0
4	Impact of polyvinylpyrrolidone and quantity of silver nitrate on silver nanoparticles sizing via solvothermal method for dye-sensitized solar cells. <i>Surface and Interface Analysis</i> , 2022, 54, 109-116.	0.8	4
5	A bifunctional asymmetric electrochromic supercapacitor with multicolor property based on nickel oxide/vanadium oxide/reduced graphene oxide. <i>Journal of Energy Storage</i> , 2022, 48, 103954.	3.9	30
6	Supercapattery performance of carbon nanofibers decorated with poly(3,4-ethylenedioxythiophene) and cobalt oxide. <i>Ceramics International</i> , 2022, 48, 11772-11778.	2.3	8
7	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. <i>Sensors and Actuators A: Physical</i> , 2022, 335, 113395.	2.0	3
8	Recent advances in development of electroactive composite materials for electrochromic and supercapacitor applications. <i>Journal of Power Sources</i> , 2022, 523, 231029.	4.0	45
9	Three-dimensional network of poly(3,4-ethylenedioxythiophene)/nanocrystalline cellulose/cobalt oxide for supercapacitor. <i>Polymer</i> , 2022, 250, 124888.	1.8	7
10	A Novel Amperometric Aptamer-Antibody Sandwich Assay for the Detection of Tuberculosis With Diazonium Electrografted Enhanced Modified Electrode. <i>IEEE Sensors Journal</i> , 2021, 21, 22442-22449.	2.4	11
11	Review on the effect of compact layers and light scattering layers on the enhancement of dye-sensitized solar cells. <i>Solar Energy</i> , 2021, 215, 26-43.	2.9	46
12	Facile synthesis of PEDOT-rGO/HKUST-1 for high performance symmetrical supercapacitor device. <i>Scientific Reports</i> , 2021, 11, 11747.	1.6	34
13	Bifunctional ternary manganese oxide/vanadium oxide/reduced graphene oxide as electrochromic asymmetric supercapacitor. <i>Ceramics International</i> , 2021, 47, 34529-34537.	2.3	19
14	Reduced graphene oxide-titanium dioxide compact layer prepared via electrodeposition for enhanced performance of dye-sensitized solar cells. <i>Optical Materials</i> , 2021, 120, 111475.	1.7	4
15	Review on the utilisation of sensing materials for intrinsic optical NH ₃ gas sensors. <i>Synthetic Metals</i> , 2021, 280, 116860.	2.1	14
16	A promising negative electrode of asymmetric supercapacitor fabricated by incorporating copper-based metal-organic framework and reduced graphene oxide. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35385-35396.	3.8	27
17			

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19	Preparation of TiO ₂ compact layer by heat treatment of electrospun TiO ₂ composite for dye-sensitized solar cells. <i>Thin Solid Films</i> , 2020, 693, 137699.	0.8	15
20	Power conversion efficiency (PCE) performance of back-illuminated DSSCs with different Pt catalyst contents at the optimized TiO ₂ thickness. <i>Optik</i> , 2020, 203, 163567.	1.4	7
21	Fully flexible dye-sensitized solar cells photoanode modified with titanium dioxide-graphene quantum dot light scattering layer. <i>Solar Energy</i> , 2020, 212, 332-338.	2.9	24
22	Ultrasensitive voltammetric detection of benzenediol isomers using reduced graphene oxide-azo dye decorated with gold nanoparticles. <i>Ecotoxicology and Environmental Safety</i> , 2020, 203, 111026.	2.9	10
23	Optimization of titanium dioxide decorated by graphene quantum dot as a light scatterer for enhanced dye-sensitized solar cell performance. <i>Journal of Electroanalytical Chemistry</i> , 2020, 876, 114516.	1.9	17
24	Advances in Layered Double Hydroxide/Carbon Nanocomposites Containing Ni ²⁺ and Co ^{2+/3+} for Supercapacitors. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	24
25	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.	1.8	11
26	Cauliflower-like poly(3,4-ethylenedioxythiophene)/nanocrystalline cellulose/manganese oxide ternary nanocomposite for supercapacitor. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49162.	1.3	12
27	Rational design of layer-by-layer assembled polypyrrole-based nanocomposite film for high-performance supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4882-4894.	1.1	8
28	Ultrahigh specific energy of layer by layer polypyrrole/graphene oxide/multi-walled carbon nanotube polypyrrole/manganese oxide composite for supercapacitor. <i>Journal of Energy Storage</i> , 2020, 28, 101219.	3.9	17
29	Optical ammonia gas sensor of poly(3,4-polyethylenedioxythiophene), polyaniline and polypyrrole: A comparative study. <i>Synthetic Metals</i> , 2020, 260, 116294.	2.1	24
30	Polyaniline and manganese oxide decorated on carbon nanofibers as a superior electrode material for supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2020, 867, 114188.	1.9	20
31	A fast switching electrochromic performance based on poly(3,4-ethylenedioxythiophene)-reduced graphene oxide/metal-organic framework HKUST-1. <i>Solar Energy Materials and Solar Cells</i> , 2020, 214, 110596.	3.0	26
32	Reduced Graphene Oxide/TEMPO-Nanocellulose Nanohybrid-Based Electrochemical Biosensor for the Determination of <i>Mycobacterium tuberculosis</i> . <i>Journal of Sensors</i> , 2020, 2020, 1-11.	0.6	35
33	Laccase Electrochemical Biosensor Based on Graphene-Gold/Chitosan Nanocomposite Film for Bisphenol A Detection. <i>Current Analytical Chemistry</i> , 2020, 16, 570-579.	0.6	2
34	Light scattering effect of polyvinyl-alcohol/titanium dioxide nanofibers in the dye-sensitized solar cell. <i>Scientific Reports</i> , 2019, 9, 14952.	1.6	33
35	Facile Electrodeposition of Poly(3,4-ethylenedioxythiophene) on Poly(vinyl alcohol) Nanofibers as the Positive Electrode for High-Performance Asymmetric Supercapacitor. <i>Energies</i> , 2019, 12, 3382.	1.6	17
36	Asymmetric supercapacitor of functionalised electrospun carbon fibers/poly(3,4-ethylenedioxythiophene)/manganese oxide//activated carbon with superior electrochemical performance. <i>Scientific Reports</i> , 2019, 9, 16782.	1.6	27

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37	Optimization of power conversion efficiency of polyvinyl-alcohol/titanium dioxide as light scattering layer in DSSC using response surface methodology/central composite design. Results in Physics, 2019, 15, 102559.	2.0	16
38	Ternary functionalised carbon nanofibers/polypyrrole/manganese oxide as high specific energy electrode for supercapacitor. Ceramics International, 2019, 45, 8433-8439.	2.3	36
39	Recent Advances in Layer-by-Layer Assembled Conducting Polymer Based Composites for Supercapacitors. Energies, 2019, 12, 2107.	1.6	34
40	as counter electrode in dye-sensitized solar cell. Results in Physics, 2019, 13, 102355.	2.0	17
41	Ultrasensitive Reduced Graphene Oxide-Poly(Procion)/Gold Nanoparticles Modified Glassy Carbon Electrode for Selective and Simultaneous Determination of Ascorbic Acid, Dopamine, and Uric Acid. Journal of the Electrochemical Society, 2019, 166, B664-B672.	1.3	15
42	Simultaneous electrochemical detection of hydroquinone and catechol using poly(3,4-ethylenedioxythiophene)/reduced graphene oxide/manganese dioxide. Synthetic Metals, 2019, 252, 76-81.	2.1	22
43	Unveiling high specific energy supercapacitor from layer-by-layer assembled polypyrrole/graphene oxide polypyrrole/manganese oxide electrode material. Scientific Reports, 2019, 9, 4884.	1.6	72
44	Optimization of power conversion efficiency of polyvinyl-alcohol/titanium dioxide compact layer using response surface methodology/central composite design. Solar Energy, 2019, 183, 689-696.	2.9	20
45	Enhanced electrochemical sensing of secondary metabolites in oil palms for early detection of Ganoderma boninense based on novel nanoparticle-chitosan functionalized multi-walled carbon nanotube platform. Sensing and Bio-Sensing Research, 2019, 23, 100274.	2.2	8
46	Supercapacitive Performance of N-Doped Graphene/Mn ₃ O ₄ /Fe ₃ O ₄ as an Electrode Material. Applied Sciences (Switzerland), 2019, 9, 1040.	1.3	24
47	Voltammetric determination of hydroquinone, catechol, and resorcinol by using a glassy carbon electrode modified with electrochemically reduced graphene oxide-poly(Eriochrome black T) and gold nanoparticles. Mikrochimica Acta, 2019, 186, 261.	2.5	35
48	Facile fabrication of PVA nanofiber coated with PEDOT as a counter electrode for dye-sensitized solar cell. Journal of Materials Science: Materials in Electronics, 2019, 30, 8705-8711.	1.1	1
49	Designing an advanced electrode of mixed carbon materials layered on polypyrrole/reduced graphene oxide for high specific energy supercapacitor. Journal of Power Sources, 2019, 419, 181-191.	4.0	56
50	Potentiostatic deposition of poly(3, 4-ethylenedioxythiophene) and manganese oxide on porous functionalised carbon fibers as an advanced electrode for asymmetric supercapacitor. Journal of Power Sources, 2019, 444, 227324.	4.0	31
51	A simple strategy to prepare a layer-by-layer assembled composite of Ni ²⁺ /Co LDHs on polypyrrole/rGO for a high specific capacitance supercapacitor. RSC Advances, 2019, 9, 40478-40486.	1.7	38
52	Novel poly(3,4-ethylenedioxythiophene)/reduced graphene oxide incorporated with manganese oxide/iron oxide for supercapacitor device. Journal of Materials Science: Materials in Electronics, 2019, 30, 1458-1467.	1.1	13
53	Electrochemical performance of poly(3, 4-ethylenedioxythiophene)/nanocrystalline cellulose (PEDOT/NCC) film for supercapacitor. Carbohydrate Polymers, 2019, 203, 128-138.	5.1	51
54	High-performance symmetrical supercapacitor based on poly(3,4)-ethylenedioxythiophene/graphene oxide/iron oxide ternary composite. Journal of Materials Science: Materials in Electronics, 2018, 29, 6916-6923.	1.1	16

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55	Review "Electrochemical Detection of Uric Acid, Dopamine and Ascorbic Acid. Journal of the Electrochemical Society, 2018, 165, B258-B267.	1.3	72
56	Graphene-based ternary composites for supercapacitors. International Journal of Energy Research, 2018, 42, 2104-2116.	2.2	102
57	Electropolymerization of poly(3,4-ethylenedioxythiophene) onto polyvinyl alcohol-graphene quantum dot-cobalt oxide nanofiber composite for high-performance supercapacitor. Electrochimica Acta, 2018, 261, 548-556.	2.6	44
58	Electrodeposition of poly(3,4-ethylenedioxythiophene)/reduced graphene oxide/manganese dioxide for simultaneous detection of uric acid, dopamine and ascorbic acid. Journal of Electroanalytical Chemistry, 2018, 820, 74-81.	1.9	48
59	Incorporation of iron oxide into CNT/GNF as a high-performance supercapacitor electrode. Materials Chemistry and Physics, 2018, 212, 318-324.	2.0	12
60	Fabrication of poly(vinyl alcohol)-graphene quantum dots coated with poly(3,4-ethylenedioxythiophene) for supercapacitor. Journal of Polymer Science Part A, 2018, 56, 50-58.	2.5	42
61	Enhancement of electrochemical performance based on symmetrical poly-(3,4-ethylenedioxythiophene) coated polyvinyl alcohol/graphene oxide/manganese oxide microfiber for supercapacitor. Electrochimica Acta, 2018, 259, 466-473.	2.6	36
62	Development of Highly Sensitive Immunosensor for Clenbuterol Detection by Using Poly(3,4-ethylenedioxythiophene)/Graphene Oxide Modified Screen-Printed Carbon Electrode. Sensors, 2018, 18, 4324.	2.1	29
63	Electrochemical reduced graphene oxide-poly(eriochrome black T)/gold nanoparticles modified glassy carbon electrode for simultaneous determination of ascorbic acid, dopamine and uric acid. Arabian Journal of Chemistry, 2018, 11, 1301-1312.	2.3	34
64	Capacitive performance of vertically aligned reduced titania nanotubes coated with Mn ₂ O ₃ by reverse pulse electrodeposition. RSC Advances, 2018, 8, 23040-23047.	1.7	11
65	Enhancement of Capacitive Performance in Titania Nanotubes Modified by an Electrochemical Reduction Method. Journal of Nanomaterials, 2018, 2018, 1-9.	1.5	14
66	Synergistic Enhancement of Ternary Poly(3,4-ethylenedioxythiophene)/Graphene Oxide/Manganese Oxide Composite as a Symmetrical Electrode for Supercapacitors. Energies, 2018, 11, 1510.	1.6	24
67	Enhancing a clenbuterol immunosensor based on poly(3,4-ethylenedioxythiophene)/multi-walled carbon nanotube performance using response surface methodology. RSC Advances, 2018, 8, 15522-15532.	1.7	17
68	Improved electrochemical performance of electrochemically designed layered poly(3,4-ethylenedioxythiophene)/graphene oxide with poly(3,4-ethylenedioxythiophene)/nanocrystalline cellulose nanocomposite. Synthetic Metals, 2018, 245, 24-31.	2.1	15
69	One-step potentiostatic electrodeposition of polypyrrole/graphene oxide/multi-walled carbon nanotubes ternary nanocomposite for supercapacitor. Materials Chemistry and Physics, 2018, 219, 120-128.	2.0	56
70	Supercapacitor with superior electrochemical properties derived from symmetrical manganese oxide-carbon fiber coated with polypyrrole. International Journal of Hydrogen Energy, 2018, 43, 17328-17337.	3.8	42
71	Development of Polyclonal Antibody against Clenbuterol for Immunoassay Application. Molecules, 2018, 23, 789.	1.7	6
72	Fabrication of PEDOT coated PVA-GO nanofiber for supercapacitor. Materials Chemistry and Physics, 2017, 192, 161-169.	2.0	81

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73	Physical and electrochemical properties of ZnO films fabricated from highly cathodic electrodeposition potentials. <i>Superlattices and Microstructures</i> , 2017, 103, 171-179.	1.4	18
74	Modeling and optimization of electrode modified with poly(3,4-ethylenedioxythiophene)/graphene oxide composite by response surface methodology/Box-Behnken design approach. <i>Journal of Electroanalytical Chemistry</i> , 2017, 787, 1-10.	1.9	33
75	Incorporation of Zinc Oxide into Carbon nanotube/Graphite nanofiber as high performance supercapacitor electrode. <i>Electrochimica Acta</i> , 2017, 228, 259-267.	2.6	39
76	Production of Conductive PEDOT-Coated PVA-GO Composite Nanofibers. <i>Nanoscale Research Letters</i> , 2017, 12, 113.	3.1	34
77	Optimization of peak current of poly(3,4-ethylenedioxythiophene)/multi-walled carbon nanotube using response surface methodology/central composite design. <i>RSC Advances</i> , 2017, 7, 11101-11110.	1.7	24
78	Polyaniline-modified nanocellulose prepared from Semantan bamboo by chemical polymerization: preparation and characterization. <i>RSC Advances</i> , 2017, 7, 25191-25198.	1.7	57
79	One step electrodeposition of poly-(3,4-ethylenedioxythiophene)/graphene oxide/cobalt oxide ternary nanocomposite for high performance supercapacitor. <i>Electrochimica Acta</i> , 2017, 253, 581-588.	2.6	19
80	Poly(3,4-ethylenedioxythiophene) doped with various carbon-based materials as counter electrodes for dye sensitized solar cells. <i>Materials and Design</i> , 2017, 136, 249-257.	3.3	21
81	PNA biosensor based on reduced graphene oxide/water soluble quantum dots for the detection of Mycobacterium tuberculosis. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 1024-1034.	4.0	88
82	Physical and structural properties of polyaniline/microcrystalline cellulose nanocomposite. <i>AIP Conference Proceedings</i> , 2017, . .	0.3	2
83	Biosensor Based on Tyrosinase Immobilized on Graphene-Decorated Gold Nanoparticle/Chitosan for Phenolic Detection in Aqueous. <i>Sensors</i> , 2017, 17, 1132.	2.1	64
84	Detection of Quinoline in <i>G. boninense</i> -Infected Plants Using Functionalized Multi-Walled Carbon Nanotubes: A Field Study. <i>Sensors</i> , 2017, 17, 1538.	2.1	13
85	Development of a PrGO-Modified Electrode for Uric Acid Determination in the Presence of Ascorbic Acid by an Electrochemical Technique. <i>Sensors</i> , 2017, 17, 1539.	2.1	30
86	Synthesis and Characterization of Polyaniline/Graphene Composite Nanofiber and Its Application as an Electrochemical DNA Biosensor for the Detection of Mycobacterium tuberculosis. <i>Sensors</i> , 2017, 17, 2789.	2.1	50
87	Poly(3,4-ethylenedioxythiophene) Doped with Carbon Materials for High-Performance Supercapacitor: A Comparison Study. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-13.	1.5	25
88	A Novel Poly(3,4-ethylenedioxythiophene)-graphene Oxide/Titanium Dioxide Composites Counter Electrode for Dye-Sensitized Solar Cell. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-9.	1.5	20
89	Electrochemical Determination of 3-Nitrophenol with a Reduced Graphene Oxide Modified Screen Printed Carbon Electrode. <i>Sensor Letters</i> , 2017, 15, 187-195.	0.4	7
90	Influence of Monomer Concentration on the Morphologies and Electrochemical Properties of PEDOT, PANI, and PPy Prepared from Aqueous Solution. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-12.	1.2	30

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91	Influence of Concentration and Electrodeposition Time on the Electrochemical Supercapacitor Performance of Poly(3,4-Ethylenedioxythiophene)/Graphene Oxide Hybrid Material. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-10.	1.5	10
92	A promising electrochemical sensor based on Au nanoparticles decorated reduced graphene oxide for selective detection of herbicide diuron in natural waters. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 655-666.	1.5	57
93	Clenbuterol Immunosensors Based Poly(3,4-Ethylenedioxythiophene)/ Multiwall Carbon Nanotube (PEDOT/MWCNT) Hybrid Composite. <i>Procedia Chemistry</i> , 2016, 20, 29-32.	0.7	4
94	Electrochemical sensor based on gold nanoparticles/ethylenediamine-reduced graphene oxide for trace determination of fenitrothion in water. <i>RSC Advances</i> , 2016, 6, 89430-89439.	1.7	45
95	Quantitative measurement of amoxicillin in Ibuprofen tablets using UPLC. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 93, 465-472.	2.5	6
96	Physicochemical and electrochemical properties of carbon nanotube/graphite nanofiber hybrid nanocomposites for supercapacitor. <i>Journal of Power Sources</i> , 2016, 328, 195-202.	4.0	33
97	Effect of electropolymerization potential on the preparation of PEDOT/graphene oxide hybrid material for supercapacitor application. <i>Electrochimica Acta</i> , 2016, 188, 785-792.	2.6	90
98	Electrochemical properties of PVA/GO/PEDOT nanofibers prepared using electrospinning and electropolymerization techniques. <i>RSC Advances</i> , 2016, 6, 17720-17727.	1.7	43
99	Effect of Electropolymerization Potential on the Properties of PEDOT/ZnO Thin Film Composites. <i>Journal of the Electrochemical Society</i> , 2016, 163, G7-G14.	1.3	6
100	Effect of MgB ₂ -MWCNT Modified Glassy Carbon Electrode on Voltammetric Measurements of Dopamine. <i>Asian Journal of Chemistry</i> , 2015, 27, 3993-3997.	0.1	0
101	Simultaneous Electrochemical Detection of Dopamine and Ascorbic Acid Using an Iron Oxide/Reduced Graphene Oxide Modified Glassy Carbon Electrode. <i>Sensors</i> , 2014, 14, 15227-15243.	2.1	143
102	Preparation and Characterization of Oil Palm Leaf Fiber/Polypropylene/Epilene® E-43 Composite. <i>BioResources</i> , 2014, 10, .	0.5	1
103	Non-invasive monitoring of temperature stress in Arabidopsis thaliana roots, using ion amperometry. <i>Analytical Methods</i> , 2012, 4, 1656.	1.3	6
104	Chiral acid selectivity displayed by PEDOT electropolymerised in the presence of chiral molecules. <i>Analyst</i> , 2012, 137, 2386.	1.7	19
105	Effect of Monomer Modifications on the Physical Properties of Electropolymerised PEDOT Films. <i>Journal of the Electrochemical Society</i> , 2011, 159, F1-F9.	1.3	17
106	Effect of Addition of Ni metal catalyst onto the Co and Fe supported catalysts for the formation of carbon nanotubes. <i>Journal of Porous Materials</i> , 2006, 13, 331-334.	1.3	10
107	Effect of Duty Cycle on Pulse Electrodeposited Tin Seleno Telluride Semiconductor Thin Film. <i>Advanced Materials Research</i> , 0, 1107, 643-648.	0.3	0