

# Dedy Hermawan Bagus Wicaksono

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34  
papers

638  
citations

13  
h-index

25  
g-index

41  
ext. papers

729  
ext. citations

3.5  
avg, IF

3.91  
L-index

#	Paper	IF	Citations
34	Flexible microfluidic cloth-based analytical devices using a low-cost wax patterning technique. <i>Lab on A Chip</i> , <b>2012</b> , 12, 209-18	7.2	158
33	Antimicrobial Treatment of Different Metal Oxide Nanoparticles: A Critical Review. <i>Journal of the Chinese Chemical Society</i> , <b>2016</b> , 63, 385-393	1.5	77
32	Cotton fabric-based electrochemical device for lactate measurement in saliva. <i>Analyst, The</i> , <b>2014</b> , 139, 3009-16	5	72
31	Effect of graphene oxide on the structural and electrochemical behavior of polypyrrole deposited on cotton fabric. <i>Journal of Molecular Structure</i> , <b>2014</b> , 1075, 486-493	3.4	42
30	Multiple semi-quantitative colorimetric assays in compact embeddable microfluidic cloth-based analytical device (CAD) for effective point-of-care diagnostic. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 19, 317-333	2.8	40
29	Cotton fabric as an immobilization matrix for low-cost and quick colorimetric enzyme-linked immunosorbent assay (ELISA). <i>Analytical Methods</i> , <b>2014</b> , 6, 7175-7180	3.2	35
28	EDTA-treated cotton-thread microfluidic device used for one-step whole blood plasma separation and assay. <i>Lab on A Chip</i> , <b>2016</b> , 16, 1492-504	7.2	30
27	Fiber based enzyme-linked immunosorbent assay for C-reactive protein. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 205, 50-60	8.5	24
26	Textile/Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanocomposite as an antimicrobial and radical scavenger wound dressing. <i>RSC Advances</i> , <b>2016</b> , 6, 8188-8197	3.7	18
25	Proprioceptive Sensing System for Therapy Assessment Using Cotton Fabric-Based Biomedical Microelectromechanical System. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 2872-2880	4	18
24	In Situ Synthesis of Silver Nanoparticles for Ag-NP/Cotton Nanocomposite and Its Bactericidal Effect. <i>Journal of the Chinese Chemical Society</i> , <b>2017</b> , 64, 1286-1293	1.5	15
23	Biomimetic strain-sensing microstructure for improved strain sensor: fabrication results and optical characterization. <i>Journal of Micromechanics and Microengineering</i> , <b>2005</b> , 15, S72-S81	2	15
22	Far-infrared sensor with LPCVD-deposited low-stress Si-rich nitride absorber membrane. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 152, 126-138	3.9	13
21	MWCNT/Cotton-based flexible electrode for electrocardiography <b>2013</b> ,		10
20	Far-infrared sensor with LPCVD-deposited low-stress Si-rich nitride absorber membrane Part 1. Optical absorptivity. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 152, 119-125	3.9	10
19	Textile-based Micro Electro Mechanical System (MEMS) Accelerometer for Pelvic Tilt Measurement. <i>Procedia Engineering</i> , <b>2012</b> , 41, 532-537		9
18	Monitoring magnesium degradation using microdialysis and fabric-based biosensors. <i>Science China Materials</i> , <b>2018</b> , 61, 643-651	7.1	7

17	Oxygen reduction reaction mechanism on a phosphorus-doped pyrolyzed graphitic Fe/N/C catalyst. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 11408-11418	3.6	7
16	. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 7774-7782	4	6
15	Monitoring degradation products and metal ions in vivo <b>2017</b> , 19-44		6
14	A proposed mechanism of action of textile/Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> bimetal oxide nanocomposite as an antimicrobial agent. <i>Journal of the Textile Institute</i> , <b>2019</b> , 110, 791-798	1.5	5
13	Cotton Thread for Size-Based Blood Cells Sorting. <i>Advanced Materials Research</i> , <b>2015</b> , 1112, 437-440	0.5	4
12	On-chip biosensing of estrogen receptor-alpha at single molecular level. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 19, 1573-9	11.8	3
11	Micro-optics assembly in dental drill as a platform for imaging and sensing during surgical drilling <b>2010</b> ,		2
10	Bio-inspired dome-shape SiO <sub>2</sub> /SiN membrane as strain-amplifying transducer. <i>Procedia Chemistry</i> , <b>2009</b> , 1, 770-773		2
9	Physical and electrochemical appraisal of cotton textile modified with polypyrrole and graphene/reduced graphene oxide for flexible electrode. <i>Journal of the Textile Institute</i> , <b>2021</b> , 112, 646-658	1.5	2
8	Graphene-Based Flexible Circuit on Cotton Fabric Using Wax Patterning Method. <i>Advanced Materials Research</i> , <b>2015</b> , 1112, 98-101	0.5	1
7	Hybrid flexible circuit on cotton fabric for wearable electrocardiogram monitoring <b>2017</b> ,		1
6	Comparison of two sagittal pelvic tilt measurement protocols using newly calibrated novel pelvic sensor <b>2011</b> ,		1
5	Fly-inspired proprioception-inspired micromachined strain-sensing structure: idea, design, modeling and simulation, and comparison with experimental results. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 34, 336-341	0.3	1
4	Simple optical characterisation for biomimetic micromachined silicon strain-sensing structure <b>2005</b> , 5852, 788		1
3	Preliminary study on graphene/metal oxide nanoparticles-coated cotton fabrics for flexible gas sensor <b>2018</b> ,		1
2	Portable Tools for COVID-19 Point-of-Care Detection: A Review.. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 23737-23750	4	1
1	Time-domain Optical Coherence Tomography system with integrated delay line for surgical guidance applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 3017-20	0.9	