

# Markus Diantoro

## List of Publications by Year in Descending Order

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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.

100  
papers

580  
citations

10  
h-index

19  
g-index

120  
ext. papers

747  
ext. citations

0.9  
avg, IF

4.06  
L-index

#	Paper	IF	Citations
100	Synthesis and characterization of TiO <sub>2</sub> /ZnO-Ag@TiO <sub>2</sub> nanocomposite and their performance as photoanode of organic Dye-Sensitized Solar Cell. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 3395-3399	1.4	2
99	ZnO-FC-NiCo MOF for prospective supercapacitor materials. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 3385-3389	1.4	1
98	Building conceptual understanding of students on laws of Newton through argument-driven inquiry <b>2021</b> ,		1
97	The effect of Mn <sub>2</sub> O <sub>3</sub> nanoparticles on its specific capacitance of symmetric supercapacitors FC-ZnO-x(Mn <sub>2</sub> O <sub>3</sub> ). <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 3355-3360	1.4	0
96	Structural, morphological, optical, and electrical properties of TiO <sub>2</sub> /ZnO rods multilayer films as photoanode on dye-sensitized solar cells. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1816, 012095	0.3	1
95	Fabrication of New Fe <sub>3</sub> O <sub>4</sub> /PVA/(C <sub>6</sub> H <sub>7</sub> O <sub>6</sub> Na) <sub>n</sub> Nanohybrid Ferrogels for Antibacterial Applications. <i>Materials Research</i> , <b>2021</b> , 24,	1.5	1
94	The influence of light intensity on the performance of FTO/TiO <sub>2</sub> -ZnO-□ carotene-quercetin/carbon/Al/PVDF-BaTiO <sub>3</sub> /Al photosupercapacitors. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 3390-3394	1.4	1
93	Synthesis and characterization of Ni doped Co <sub>4</sub> Sb <sub>12</sub> skutterudites for thermoelectric thin film. <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 3277-3281	1.4	0
92	Potential of nanooxidic materials and structures of photoanodes for DSSCs <b>2021</b> , 213-247		
91	The effect of spincoating speed on ZnONR microstructure and its potential of ZnONR/Aluminum foil electrodes symmetric supercapacitors. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1595, 012001	0.3	0
90	Ag nanoparticles effect on BaTiO <sub>3</sub> -Graphite-AC/Aluminum foil symmetric supercapacitor. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1595, 012009	0.3	0
89	The improvement of Triboelectric effect of ZnO Nanorods/PAN in flexible Nanogenerator by adding TiO <sub>2</sub> nanoparticle. <i>Journal of Polymer Research</i> , <b>2020</b> , 27, 1	2.7	5
88	Synthesis and characterization of CIGS ink by hot injection method <b>2020</b> ,		1
87	Study of Nanostructural, Electrical, and Optical Properties of Mn <sub>0.6</sub> Fe <sub>2.4</sub> O <sub>4</sub> /BEG/PVP/PVA Ferrogels for Optoelectronic Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 4278-4288	3.2	2
86	Using argument-driven inquiry learning to improve students' mental models <b>2020</b> ,		1
85	Excellent antimicrobial performance of co-doped magnetite double-layered ferrofluids fabricated from natural sand. <i>Journal of King Saud University - Science</i> , <b>2020</b> , 32, 3032-3038	3.6	6
84	Review of CIGS-based solar cells manufacturing by structural engineering. <i>Solar Energy</i> , <b>2020</b> , 207, 1146-1157	4.57	47

83	Annealing Temperature Effect of ZnO Seed Layer on Integrated Photosupercapacitor Performance. <i>Key Engineering Materials</i> , <b>2020</b> , 851, 16-24	0.4	
82	Performance of B-Doped SrTiO <sub>3</sub> / Ni Sheet for Supercapacitor Material Application. <i>Key Engineering Materials</i> , <b>2020</b> , 851, 25-31	0.4	
81	Enhancing photocatalytic performance by sonication and surfactant addition on the synthesis process of PVA/TiO <sub>2</sub> nanofibers membranes by electrospinning method <b>2020</b> ,		1
80	The effect of Ag on thermoelectric performance of Cu <sub>1-x</sub> Ag <sub>x</sub> S tetrahedrite/Al prepared using modified polyol methods. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1572, 012071	0.3	0
79	Fabrication of Aligned PAN/TiO <sub>2</sub> Fiber using Electric Electrospinning (EES). <i>Materials Today: Proceedings</i> , <b>2019</b> , 13, 211-216	1.4	5
78	Electrical Properties of Tetrahedrite CuS based Thermoelectric Material. <i>Materials Today: Proceedings</i> , <b>2019</b> , 13, 13-17	1.4	2
77	The Effect of Time Deposition of PAN/TiO <sub>2</sub> Electrospun on Photocurrent Performance of Dye-Sensitized Solar Cell. <i>Materials Today: Proceedings</i> , <b>2019</b> , 13, 175-180	1.4	4
76	The Effect of PANI Fraction on Photo Anode Based on TiO <sub>2</sub> -PANI /ITO DSSC with Carotene as Dye Sensitizer on its Structure, Absorbance, and Efficiency. <i>Materials Today: Proceedings</i> , <b>2019</b> , 17, 1197-1209	1.4	3
75	Performance of Pterocarpus Indicus Willd Leaf Extract as Natural Dye TiO <sub>2</sub> -Dye/ITO DSSC. <i>Materials Today: Proceedings</i> , <b>2019</b> , 17, 1268-1276	1.4	8
74	Manganese Oxide and Temperature Induced on Microstructure and Electrical Properties of Graphene-(Mn <sub>2</sub> O <sub>3</sub> ) <sub>x</sub> -ZnO/Ni Foam. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 515, 012097	0.4	3
73	Preparation and Characterization of Magnetite Nanoparticles Combined with Polyaniline and Activated Carbon. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 276, 012041	0.3	2
72	The Effect of Spin Coating Rotation on the Optoelectronic Properties of PANI/TiO <sub>2</sub> /FTO-Glass Photoanode. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 515, 012084	0.4	3
71	The Effect of Annealing Temperature of ZnO Compact Layer and TiO <sub>2</sub> Mesoporous on Photo-Supercapacitor Performance. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 515, 012006	0.4	9
70	Electron Diffusion Model Based on I-V Data Fitting as the Calculation Method for DSSC Internal Parameters. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 515, 012016	0.4	2
69	The Effect of Light Irradiation on Performance of Photo-Supercapacitor of FTO/TiO <sub>2</sub> -ZnO-β Carotene-Quercetin/Carbon/Al/PVDF-BaTiO <sub>3</sub> /Al. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 515, 012077	0.4	8
68	Photoelectrochemical Performance of ZnO Nanorods Grown on Stainless Steel Substrate. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 515, 012023	0.4	5
67	Temperature-Induced on the Phase Formation and Its Microstructure of LiNiPO <sub>4</sub> /C Cathode Materials for Lithium-Ion Batteries. <i>Materials Today: Proceedings</i> , <b>2019</b> , 13, 241-245	1.4	1
66	IoT-based Control and Monitoring for DC Motor Fed by Photovoltaic System. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 588, 012017	0.4	

65	Synthesis and Crystal Structure Analysis of LiNiSixP1-xO4/C as a Cathode Material for the Lithium-ion Batteries Application. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 515, 012043	0.4	2
64	Dielectric Properties of Dirt Sugarcane Sediment (DSS) Extract-BaTiO3 for Organic Supercapacitors. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 515, 012062	0.4	3
63	Nanoarchitected titanium complexes for thermal mitigation in thermoelectric materials. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 101, 346-360	16.2	11
62	Preparation, Structural and Dielectric Behaviors of CoxMn1-xMn2O4 (0 ≤ x ≤ 1) Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012050	0.4	2
61	Study on Photocatalytic Properties of TiO2 Nanoparticle in various pH condition. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1011, 012069	0.3	24
60	Deformation of Ferrogel Based on Carboxyl Methyl Cellulose (CMC)/Polyvinyl Alcohol (PVA) Hydrogel. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012016	0.4	3
59	Influence of Problem Based Learning Learning Model on Student Creative Thinking on Elasticity Topics A Material. <i>Jurnal Pendidikan Fisika Indonesia</i> , <b>2018</b> , 14, 32-39	1.5	4
58	THE EFFECT OF NANO ZnO MORPHOLOGY ON STRUCTURE, DIELECTRIC CONSTANT, AND DISSIPATION FACTOR OF CA-NANO ZnO/ITO FILMS <b>2018</b> , 10, 65		12
57	Dielectric Properties of TiO2 Nanoparticles Doped Flavonoid Extract of Pterocarpus Indicus Willd (PIW) Latex. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1093, 012042	0.3	2
56	New simple synthesis, crystal system and physical properties of Zn5S2 compound. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1040, 012046	0.3	1
55	Potential Induction Heating using MOSFET H-Bridge Circuit for Material Synthesis. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1093, 012014	0.3	
54	Effect of ZnO and Annealing on the Hydrophobic Performance of x(ZnO)-CA-PLA. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1093, 012003	0.3	5
53	Effect of SnO2 Nanoparticles on Band Gap Energy of x(SnO2)-y(Ag)-β-Carotene/FTO Thin Film. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1093, 012049	0.3	3
52	Dielectric properties and bioactivity of PVA/PEG/TiO2 fibers for capacitive based body sensor. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1040, 012045	0.3	2
51	Synthesis and Structural Analysis of Silicon Carbide from Silica Rice Husk and Activated Carbon Using Solid-State Reaction. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1093, 012033	0.3	2
50	Microstructure, Hardness, and Electrical Conductivity of βTCP/Zirconia Composites Prepared from Eggshell. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012017	0.4	
49	Microstructure and Electroconductivity using Silver Nano Particles of Pterocarpus Indicus W. Leaf Extracts Films. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1093, 012016	0.3	1
48	Stabilization of PVA/Chitosan/TiO2 Nanofiber Membrane with Heat Treatment and Glutaraldehyde Crosslink. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012004	0.4	5

47	Control of Dielectric Constant and Anti-Bacterial Activity of PVA-PEG/x-SnO <sub>2</sub> Nanofiber. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012012	0.4	5
46	Synthesis and Bioactivity of TiO <sub>2</sub> /PPy Micelle with <i>Pachyrhizus erosus</i> Extract as UV Absorbent Material. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1093, 012023	0.3	1
45	Band Gap Shift and Electrical Conductivity of (Ag-xSnO <sub>2</sub> )NPs- $\beta$ -Carotene Thin Film. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1093, 012032	0.3	1
44	Fabrication of PANI/Ag/AgCl/ITO-PET Flexible Film and Its Crystallinity and Electrical Properties. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012019	0.4	1
43	Preparation of SiC Fibers from Indonesian Natural Resource Prepared by Electrospinning Method. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012011	0.4	
42	Nanopowder and Magnetic Fluid Synthesis of Zn <sub>0.2</sub> Fe <sub>2.8</sub> O <sub>4</sub> Particles and Their Structural and Magnetic Behaviors. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1091, 012030	0.3	0
41	The Effect of ZnO Nanorods Morphology on Electrical Properties of Perovskite Solar Cells. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1093, 012028	0.3	4
40	The Influence of SnO <sub>2</sub> Nanoparticles on Electrical Conductivity, and Transmittance of PANI-SnO <sub>2</sub> Films. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 367, 012034	0.4	9
39	Modification of Electrical Properties of Silver Nanoparticle <b>2018</b> ,		11
38	Effect of TiO <sub>2</sub> Nanoparticles on Conductivity and Thermal Stability of PANI-TiO <sub>2</sub> /Glass Composite Film. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1011, 012065	0.3	8
37	Shockley-Queisser Equation Fit Analyses for Solar Cell Parameters from I-V Curves. <i>International Journal of Photoenergy</i> , <b>2018</b> , 2018, 1-7	2.1	17
36	Synthesis, Investigation on Structural and Magnetic Behaviors of Spinel M-Ferrite [M = Fe; Zn; Mn] Nanoparticles from Iron Sand. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012052	0.4	11
35	Magnetic susceptibility and element composition mangrove sediments in Malang, East Java <b>2017</b> ,		2
34	Effect of NiO and Light Intensity on Dielectric Constant of SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> CO <sub>3</sub> Glass Based on Silica Gel of Natural Sands. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012058	0.4	4
33	The Role of Fe <sub>2</sub> O <sub>3</sub> and Light Induced on Dielectric Properties of Borosilicate Glass. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 846, 012007	0.3	1
32	Optimization of Freezing-Thawing Process in Enhancing Magnetic Properties of Fe <sub>3</sub> O <sub>4</sub> /PAA/PVA Magnetic Hydrogel Composites. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012007	0.4	1
31	Microstructure and dielectric properties of cellulose acetate-ZnO/ITO composite films based on water hyacinth. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 853, 012047	0.3	5
30	Fabrication of Magnetite Nanoparticles Dispersed in Olive Oil and Their Structural and Magnetic Investigations. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012008	0.4	6

29	The Effect of Thickness of ZnO Thin Films on Hydrophobic Self-Cleaning Properties. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012006	0.4	7
28	Preparation of Superparamagnetic Zn <sub>0.5</sub> Mn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> Particle by Coprecipitation-Sonochemical Method for Radar Absorbing Material. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012024	0.4	1
27	The effect of Cr <sub>2</sub> O <sub>3</sub> doping on structures and dielectric constants of SiO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> CO <sub>3</sub> glass based on silica gel of natural sand. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 853, 012045	0.3	1
26	Effect of Blend Ratio on Morphology and Swelling Properties of PVA/Chitosan Nanofibers. <i>Materials Science Forum</i> , <b>2017</b> , 901, 79-84	0.4	4
25	Geohydrology, geochemistry, geothermal potency of Rianiate Toba Lake North Sumatera. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 237, 012007	0.4	
24	Effect of Fe <sub>3</sub> O <sub>4</sub> on the Electro-Optic and Magneto-Electric Characteristics of (PANI/Fe <sub>3</sub> O <sub>4</sub> )-Ag Film. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012062	0.4	1
23	Preparation of MWCNT-Fe <sub>3</sub> O <sub>4</sub> Nanocomposites from Iron Sand Using Sonochemical Route. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012013	0.4	13
22	Preparation of PVA/TiO <sub>2</sub> Composites Nanofibers by using Electrospinning Method for Photocatalytic Degradation. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012011	0.4	18
21	Crystallinity and Electrical Conductivity of PANI-Ag/Ni Film: The Role of Ultrasonic and Silver Doped. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 202, 012005	0.4	5
20	Preparation of PVA/Chitosan/TiO <sub>2</sub> nanofibers using electrospinning method <b>2016</b> ,		7
19	Synthesis and characterization of highly purified nanosilica from pyrophyllite ores <b>2016</b> ,		6
18	Synthesis and photocatalytic properties of Fe <sub>3</sub> O <sub>4</sub> @TiO <sub>2</sub> core-shell for degradation of Rhodamine B <b>2016</b> ,		4
17	Electrical conductivity modification using silver nano particles of Jatropha Multifida L. and Pterocarpus Indicus w. extracts films <b>2016</b> ,		6
16	Fabrication of Silver Nanoparticles and its Films and their Characterization of Structure and Electrical Conductivity. <i>Advanced Materials Research</i> , <b>2014</b> , 896, 341-346	0.5	1
15	Synthesis of silver nanoparticles by chemical reduction at various fraction of MSA and their structure characterization <b>2014</b> ,		7
14	Fabrication of CuAl <sub>1-x</sub> M <sub>x</sub> O <sub>2</sub> (M = Fe, Cr)/Ni film delafossite compounds using spin coating and their microstructure and dielectric constant <b>2014</b> ,		4
13	The influence of iron- and copper- doped of PANi thin film on their structure and dielectric properties <b>2012</b> ,		3
12	Colossal dielectric constant up to gigahertz at room temperature. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 122903	0.3	153

- 11 Variation of vortex structure characteristics of Bi-2223/Ag superconducting tapes with respect to applied magnetic field direction. *Physica C: Superconductivity and Its Applications*, **2005**, 426-431, 396-401<sup>1,3</sup> 3
- 10 Vortex dynamics across the second-peak field in SmLa<sub>0.8</sub>Sr<sub>0.2</sub>CuO<sub>4</sub>. *Physica C: Superconductivity and Its Applications*, **2004**, 412-414, 490-496 1,3
- 9 Doping and field effects on the lowest Kramers doublet splitting in La<sub>1.6</sub>Nd<sub>0.4</sub>Sr<sub>x</sub>CuO<sub>4</sub> single crystal. *Physica C: Superconductivity and Its Applications*, **2003**, 392-396, 207-212 1,3 5
- 8 Different roles of anisotropy and disorder on the vortex matter of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub>+δ single crystal. *Physica C: Superconductivity and Its Applications*, **2002**, 378-381, 479-482 1,3 7
- 7 Fishtail effect and the superconducting phase diagram of La<sub>1.6</sub>Nd<sub>0.4</sub>Sr<sub>x</sub>CuO<sub>4</sub> single crystal. *Physica C: Superconductivity and Its Applications*, **2002**, 378-381, 541-545 1,3 6
- 6 AC loss and critical current density in Bi-2223 tapes with oxide additives and reinforced Ag sheaths. *Physica C: Superconductivity and Its Applications*, **2002**, 378-381, 1143-1147 1,3 5
- 5 Pinning mechanisms in Bi-2223 tapes with reinforced Ag sheath and oxide additives in the core. *Physica C: Superconductivity and Its Applications*, **2001**, 357-360, 1182-1185 1,3 5
- 4 Single crystal growth of T\*-phase SmLa<sub>0.8</sub>Sr<sub>0.2</sub>CuO<sub>4</sub>. *Physica C: Superconductivity and Its Applications*, **2001**, 363, 25-30 1,3 4
- 3 Material for resistive barriers in Bi-2223/Ag tapes. *Superconductor Science and Technology*, **2001**, 14, 966-972 7
- 2 Effect of Intermediate Melt-Solidification Process on the Transport Property of 2223-BPSCCO/Ag Tape **2000**, 679-681 1
- 1 Enhance Growth Temperature ZnO Nr Photoanode DSSC for Performance of Photo-Supercapacitor via Hydrothermal. *Materials Science Forum*, **1053**, 131-136 0,4