

# Richard Opio Ocaya

## List of Publications by Year in descending order

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45  
papers

421  
citations

759190

12  
h-index

794568

19  
g-index

47  
all docs

47  
docs citations

47  
times ranked

412  
citing authors

#	ARTICLE	IF	CITATIONS
1	New photodiodes based graphene-organic semiconductor hybrid materials. <i>Synthetic Metals</i> , 2016, 213, 47-56.	3.9	42
2	Organic semiconductor photosensors. <i>Journal of Alloys and Compounds</i> , 2017, 702, 520-530.	5.5	39
3	Ruthenium(II) Complex Based Photodiode for Organic Electronic Applications. <i>Journal of Electronic Materials</i> , 2018, 47, 828-833.	2.2	35
4	Organic photodetector with coumarin-adjustable photocurrent. <i>Synthetic Metals</i> , 2016, 213, 65-72.	3.9	33
5	Electrical, optical and structural properties of pure and gold-coated VO <sub>2</sub> thin films on quartz substrate. <i>Current Applied Physics</i> , 2010, 10, 508-512.	2.4	25
6	Effect of annealing temperature on nano-crystalline TiO <sub>2</sub> for solar cell applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 106, 127-132.	2.7	23
7	Ocaya's Yakuphanov's method for series resistance extraction and compensation of Schottky diode I-V characteristics. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 186, 110105.	5.0	20
8	An experiment to profile the voltage, current and temperature behaviour of a P-N diode. <i>European Journal of Physics</i> , 2006, 27, 625-633.	0.6	19
9	Analysis of photovoltaic behavior of Si-based junctions containing novel graphene oxide/nickel(II) phthalocyanine composite films. <i>Microelectronic Engineering</i> , 2016, 154, 53-61.	2.4	18
10	Synthesis and degradation kinetics of a novel polyester containing bithiazole rings. <i>Thermochimica Acta</i> , 2011, 525, 9-15.	2.7	16
11	Dye based photodiodes for solar energy applications. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	14
12	Thermal sensor based zinc oxide diode for low temperature applications. <i>Journal of Alloys and Compounds</i> , 2016, 674, 277-288.	5.5	13
13	Phase transformations of high-purity PbI <sub>2</sub> nanoparticles synthesized from lead-acid accumulator anodes. <i>Physica B: Condensed Matter</i> , 2016, 496, 69-73.	2.7	12
14	Analysis of photoconductive mechanisms of organic-on-inorganic photodiodes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 93, 284-290.	2.7	12
15	A framework for collaborative remote experimentation for a physical laboratory using a low cost embedded web server. <i>Journal of Network and Computer Applications</i> , 2011, 34, 1408-1415.	9.1	10
16	A current-voltage-temperature method for fast extraction of schottky diode static parameters. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 49, 246-255.	5.0	10
17	A linear, wide-range absolute temperature thermometer using a novel p-n diode sensing technique. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 1464-1469.	5.0	8
18	Graphene-oxide doped 2.9.16.23-tetrakis-4-{4-[(2E)-3-(naphthalen-1-yl)prop-2-enoyl]phenoxy}-phthalocyaninato cobalt(II)/Au photodiodes. <i>Synthetic Metals</i> , 2015, 209, 164-172.	3.9	8

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19	Synthesis and characterization of high-quality PbI <sub>2</sub> nanopowders from depleted SLA accumulator anode and cathode. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	8
20	Electrical, photoconductive, and photovoltaic characteristics of a Bi <sub>2</sub> Se <sub>3</sub> 3D topological insulator based metal-insulator-semiconductor diode. <i>Sensors and Actuators A: Physical</i> , 2022, 341, 113575.	4.1	7
21	PIC and PC Integration: Candidates for Low Cost Data Acquisition. , 2005, , .		5
22	Estimating p-n diode bulk parameters, bandgap energy and absolute zero by a simple experiment. <i>European Journal of Physics</i> , 2007, 28, 85-91.	0.6	5
23	C-language package for standalone embedded atom method molecular dynamics simulations of fcc structures. <i>SoftwareX</i> , 2016, 5, 107-111.	2.6	5
24	Effect of 6R and 12R lead iodide polytypes on MAPbI <sub>3</sub> perovskite device performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13011-13018.	2.2	5
25	Application of finite state machines in hybrid simulation of dc-dc converters. , 2007, , .		4
26	A fresh look at the semiconductor bandgap using constant current data. <i>European Journal of Physics</i> , 2011, 32, 1155-1161.	0.6	4
27	Effect of Ni Doping on ZnO Nanorods Synthesized Using a Low-Temperature Chemical Bath. <i>Journal of Electronic Materials</i> , 2019, 48, 6954-6963.	2.2	4
28	A TCP/IP framework for ethernet-based measurement, control and experiment data distribution. <i>Journal of Instrumentation</i> , 2010, 5, T11001-T11001.	1.2	3
29	Thermal tuning of light-emitting diode wavelength as an implication of the Varshni equation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 162, 107910.	5.0	3
30	A Linear CCD Spectrometer Based on FPGA for Light-Source Characterization. <i>Applied Mechanics and Materials</i> , 0, 763, 120-125.	0.2	2
31	Effect of annealing on the efficiency of ambient-atmosphere fabricated MAPbI <sub>3</sub> perovskite solar cells. <i>Scientific African</i> , 2020, 8, e00447.	1.5	2
32	Ambipolar small molecular semiconductor-based heterojunction diode. <i>Synthetic Metals</i> , 2016, 221, 48-54.	3.9	2
33	Versatile CCD-based spectrometer with field programmable gate array controller core. <i>IET Science, Measurement and Technology</i> , 2016, 10, 719-727.	1.6	1
34	Estimating ħ using an electrical circuit. <i>European Journal of Physics</i> , 2017, 38, 015803.	0.6	1
35	Temperature specification in atomistic molecular dynamics and its impact on simulation efficacy. <i>Journal of Physics: Conference Series</i> , 2017, 905, 012031.	0.4	1
36	Organic Semiconductor: Graphene-Oxide/p-Si Photodiodes. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2016, 11, 153-163.	0.5	1

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37	A method of determining the parameters in systems with serialized Current-Voltage characteristics. Journal of Physics: Conference Series, 2021, 2090, 012077.	0.4	1
38	NONLINEAR CONTROL SYSTEM INVERSION USING LIE SYMMETRIES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 800-803.	0.4	0
39	A low-cost embedded web-server for an institutional e-learning strategy. , 2011, , .		0
40	A small-plant PID temperature controller for thermoluminescence measurement. , 2013, , .		0
41	1. Addressing the challenges of standalone multi-core simulations in molecular dynamics. , 2017, , 1-22.		0
42	Addressing the challenges of standalone multi-core simulations in molecular dynamics. ChemistrySelect, 2017, 2, .	1.5	0
43	Coding considerations for standalone molecular dynamics simulations of atomistic structures. Journal of Physics: Conference Series, 2017, 905, 012018.	0.4	0
44	Lattice elasticity, waves and temperature from an interaction potential. European Journal of Physics, 2021, 42, 045003.	0.6	0
45	A computational method for converter analysis using point symmetries. Journal of Nonlinear Science and Applications, 2016, 09, 4877-4887.	1.0	0