

# Vimala Juliet A

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

564  
citations

686830

13  
h-index

752256

20  
g-index

74  
all docs

74  
docs citations

74  
times ranked

559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photovoltaic Integrated Hybrid Microgrid Structured Electric Vehicle Charging Station and Its Energy Management Approach. <i>Energies</i> , 2019, 12, 168.	1.6	84
2	Cross Interference Minimization and Simultaneous Wireless Power Transfer to Multiple Frequency Loads Using Frequency Bifurcation Approach. <i>IEEE Transactions on Power Electronics</i> , 2019, 34, 10898-10909.	5.4	31
3	Frequency Splitting-Based Wireless Power Transfer and Simultaneous Propulsion Generation to Multiple Micro-Robots. <i>IEEE Sensors Journal</i> , 2018, 18, 5566-5575.	2.4	29
4	An effect of precursor concentrations on the photodetection capabilities of CdS thin films for high-efficiency visible-light photodetector applications. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	27
5	Improved UV Photodetection of Terbium-doped NiO thin films prepared by cost-effective nebulizer spray technique. <i>Materials Science in Semiconductor Processing</i> , 2021, 127, 105673.	1.9	26
6	Class E Power Amplifier Design and Optimization for the Capacitive Coupled Wireless Power Transfer System in Biomedical Implants. <i>Energies</i> , 2017, 10, 1409.	1.6	24
7	Comparative analysis of 2D and 3D model of a PEMFC in COMSOL. <i>Applied Surface Science</i> , 2017, 418, 99-102.	3.1	22
8	Concentrated solar thermal energy harvesting using Bi <sub>2</sub> Te <sub>3</sub> based thermoelectric generator. <i>Materials Science in Semiconductor Processing</i> , 2020, 107, 104782.	1.9	19
9	A lifetime-enhancing cooperative data gathering and relaying algorithm for cluster-based wireless sensor networks. <i>International Journal of Distributed Sensor Networks</i> , 2020, 16, 155014771990011.	1.3	19
10	Capacitor-Less High-Strength Resonant Wireless Power Transfer Using Open Bifilar Spiral Coil. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-8.	1.1	18
11	MEMS Based Humidity Sensor with Integration of Temperature Sensor. <i>Materials Today: Proceedings</i> , 2018, 5, 10728-10737.	0.9	17
12	A computational study of a chemical gas sensor utilizing Pd/rGO composite/SnO <sub>2</sub> thin film for the detection of NO <sub>x</sub> . <i>Scientific Reports</i> , 2021, 11, 970.	1.6	15
13	Frequency Splitting Elimination and Cross-Coupling Rejection of Wireless Power Transfer to Multiple Dynamic Receivers. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 179.	1.3	14
14	Improved photocurrent properties of La doped CuO thin films coated by nebulizer spray pyrolysis method for photosensor applications. <i>Optical Materials</i> , 2021, 122, 111790.	1.7	11
15	Online action recognition from RGB-D cameras based on reduced basis decomposition. <i>Journal of Real-Time Image Processing</i> , 2020, 17, 341-356.	2.2	10
16	Design and simulation of touch mode MEMS capacitive pressure sensor. , 2010, , .		9
17	Effect of annealing on humidity sensing properties of Sm-doped SnO <sub>2</sub> thin films. <i>Journal of Materials Research and Technology</i> , 2019, 8, 5862-5866.	2.6	9
18	ANFIS Controller for Water Level Control of a Boiler Drum. <i>International Journal of Intelligent Engineering and Systems</i> , 2016, 9, 1-10.	0.8	9

#	ARTICLE	IF	CITATIONS
19	Analysis and Optimization of Sensitivity of a MEMS Piezoresistive Pressure Sensor. <i>Advanced Materials Research</i> , 2012, 548, 652-656.	0.3	8
20	A Novel Approach to Identify Red Palm Weevil on Palms. <i>Advanced Materials Research</i> , 0, 634-638, 3853-3857.	0.3	8
21	Wireless implementation of mems accelerometer to detect red palm weevil on palms. , 2013, , .		8
22	IoT-Enabled Home Cage With Three-Dimensional Resonant Wireless Power and Data Transfer Scheme for Freely Moving Animal. <i>IEEE Sensors Journal</i> , 2018, 18, 8154-8161.	2.4	8
23	Fabrication of Cost-Effective Nebulizer Sprayed In <sub>2</sub> S <sub>3</sub> Thin Films for Photodetector Applications. <i>Journal of Electronic Materials</i> , 2021, 50, 4373-4380.	1.0	8
24	The Effect of Technology, Organization Factors on E-Commerce Adoption among Palestinian SMEs. <i>Indian Journal of Science and Technology</i> , 2016, 9, .	0.5	6
25	Novel Design and Performance Analysis of Rectangular Frequency Reconfigurable Micro Strip Patch Antenna using Line Feed technique for Wireless Applications. <i>Indian Journal of Science and Technology</i> , 2016, 9, .	0.5	6
26	Computational Microfluidic Channel for Separation of Escherichia coli from Blood-Cells. <i>Computers, Materials and Continua</i> , 2021, 67, 1369-1384.	1.5	6
27	Development of multiple plug-in electric vehicle mobile charging station using bidirectional converter. <i>International Journal of Power Electronics and Drive Systems</i> , 2020, 11, 785.	0.5	6
28	Multi band microstrip patch antenna for satellite communication. , 2010, , .		5
29	Performance analysis of DOA and AODV routing protocols with black hole attack in MANET. , 2013, , .		5
30	Micro thermoelectric generator &#x2014; A source of clean energy. , 2013, , .		5
31	A Novel Design Approach of Reconfigurable Patch Antenna for Wireless Applications. <i>Applied Mechanics and Materials</i> , 2013, 336-338, 1935-1938.	0.2	5
32	Palladium-Doped Tin Oxide Nanosensor for the Detection of the Air Pollutant Carbon Monoxide Gas. <i>Sensors</i> , 2020, 20, 5889.	2.1	5
33	Impact of Electrodes Separation Distance on Bio-Impedance Diagnosis. <i>Biomedical and Pharmacology Journal</i> , 2021, 14, 141-146.	0.2	5
34	Mathematical Modeling of Neuro-Controlled Bionic Arm. , 2009, , .		4
35	AN ENHANCED ROUTE FAILURE RECOVERY MODEL FOR MOBILE AD HOC NETWORKS. <i>Journal of Computer Science</i> , 2014, 10, 1561-1568.	0.5	4
36	Effect of Sm doping and annealing on magnetic and structural properties of sputter deposited SnO <sub>2</sub> thin films. <i>Materials Research Express</i> , 2018, 5, 064004.	0.8	4

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37	Design and Fabrication of Temperature Sensor for Weather Monitoring System using MEMS Technology. Oriental Journal of Chemistry, 2018, 34, 2510-2516.	0.1	4
38	CO Gas Sensor Using Resonant Frequency Changes in Micro-Cantilever. Lecture Notes in Electrical Engineering, 2013, , 75-80.	0.3	4
39	Optimization of MEMS Accelerometer Parameter with Combination of Artificial Bee Colony (ABC) Algorithm and Particle Swarm Optimization (PSO). Journal of Artificial Intelligence, 2014, 7, 69-81.	0.7	4
40	Simulation of Low Pressure MEMS Sensor for Biomedical Application. Journal of Nanotechnology in Engineering and Medicine, 2011, 2, .	0.8	3
41	Performance analysis and validation of sensitivity of piezoresistive MEMS pressure sensor. , 2011, , .		3
42	Analysis of Sensitivity and Linearity of SiGe MEMS Piezoresistive Pressure Sensor. Applied Mechanics and Materials, 0, 241-244, 1024-1027.	0.2	3
43	Toxic gas sensor using resonant frequency variation in micro-cantilever. , 2012, , .		3
44	MEMS Accelerometer Design Optimization Using Genetic Algorithm. Advanced Materials Research, 0, 705, 288-294.	0.3	3
45	Design of a Valveless Micro-Pump for Variable Rate of Insulin Delivery. Indian Journal of Science and Technology, 2016, 9, .	0.5	3
46	Simulation of Signal Generation and Measuring Circuit and Real Time IoT Based Electrical Bio Impedance Cardiac Monitoring System. Advances in Intelligent Systems and Computing, 2020, , 701-706.	0.5	3
47	Identifying Sound of RPW In Situ from External Sources. Advances in Intelligent Systems and Computing, 2015, , 681-691.	0.5	3
48	Measuring Low Frequency Vibration Using MEMS Based Accelerometer. , 2009, , .		2
49	Extraction of feature from the acoustic activity of RPW using MFCC. , 2010, , .		2
50	Modeling and Analysis of Thin Film PolySi Diaphragm Pressure Sensor. Arabian Journal for Science and Engineering, 2013, 38, 679-683.	1.1	2
51	Readout method for pathogen detection using biosensor. , 2014, , .		2
52	Experimental analysis of thermoelectric generator using solar energy. , 2014, , .		2
53	Frequency Split Elimination of Short Range Wireless Power Transfer System by Active Matching Tuning Circuit. Indian Journal of Science and Technology, 2016, 9, .	0.5	2
54	Development of Charging System for Multiple Electric Vehicle Using Bidirectional DC-DC Buck-Boost Converter. Lecture Notes in Electrical Engineering, 2019, , 413-423.	0.3	2

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55	Suitability of PEG capped carboxylic acid terminated fluorescent ZnS nanoparticles for NDV peptide binding. Applied Nanoscience (Switzerland), 2021, 11, 2337-2346.	1.6	2
56	Detection of pest infestation by preprocessing sound using vector quantization. , 2010, , .		1
57	Simulation of MEMS Cantilever Biosensor and Analysis of Readout Methods for Tuberculosis Detection. Applied Mechanics and Materials, 2013, 376, 428-433.	0.2	1
58	Optimal Site Selection for Electric Vehicles Inductive Charging Station in a Car Park Infrastructure. Indian Journal of Science and Technology, 2016, 9, .	0.5	1
59	LabVIEW based automatic speed assistance system in uncertain road conditions. , 2016, , .		1
60	Design of a MEMS sensor for sleep apnea detection. , 2016, , .		1
61	A COMSOL approach to analysis cantilever displacement for gas sensing. AIP Conference Proceedings, 2020, , .	0.3	1
62	Piezoresistive Type Biosensor using a MEMS Cantilever for Detection of Tuberculosis. I-manager's Journal on Electronics Engineering, 2013, 3, 27-32.	0.0	1
63	Design and Analysis of DGS Based Miniaturized Compound Reconfigurable Asymmetrical Micro Strip Fractal Array Antenna for L, S and C Band Applications. Wireless Personal Communications, 0, , 1.	1.8	1
64	A Low Temperature Co-Fired Ceramic Microfluidic Cell Counter. Applied Mechanics and Materials, 0, 592-594, 2261-2266.	0.2	0
65	A Novel Magneto-Fluorescent Biosensor for the Detection of Pathogens in Food. Advanced Materials Research, 2014, 984-985, 1074-1079.	0.3	0
66	Optimization of Micro Thermoelectric Generator for Renewable Source of Energy. Advances in Intelligent Systems and Computing, 2016, , 1287-1295.	0.5	0
67	Simulating the Lattice-Shaped microchannel for separation of bacteria beads using HDF. , 2017, , .		0
68	Performance Enhancement of Reconfigurable Micro Strip Patch Antennae Using Metamaterials. IOP Conference Series: Materials Science and Engineering, 2019, 590, 012056.	0.3	0
69	MEMS based Heavy Metal: Mercury and Cadmium Ion Detection in Laminar flow of water. IOP Conference Series: Materials Science and Engineering, 2020, 912, 042065.	0.3	0
70	New insights on temperature dependent electrical properties of samarium doped tin oxide thin films. Journal of Physics: Conference Series, 2021, 2007, 012069.	0.3	0
71	A Novel Method of using Magnetic Nanoparticles with Congo Red Dye for the Rapid Capture and Detection of Human Pathogens in Food. Asian Journal of Applied Sciences, 2014, 7, 792-797.	0.4	0
72	Characterization, Analysis and Modeling of a MEMS Based Nitinolactuator. International Journal of Mechanical Engineering and Robotics Research, 2016, , .	0.7	0