

# Yogeswaran Umasankar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12122459/publications.pdf>

Version: 2024-02-01

29  
papers

1,398  
citations

516710

16  
h-index

552781

26  
g-index

29  
all docs

29  
docs citations

29  
times ranked

2127  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prospects and Challenges of Volatile Organic Compound Sensors in Human Healthcare. ACS Sensors, 2018, 3, 1246-1263.	7.8	179
2	High photo-electrochemical activity of thylakoid-carbon nanotube composites for photosynthetic energy conversion. Energy and Environmental Science, 2013, 6, 1891.	30.8	173
3	Nanocomposite of functionalized multiwall carbon nanotubes with nafion, nano platinum, and nano gold biosensing film for simultaneous determination of ascorbic acid, epinephrine, and uric acid. Analytical Biochemistry, 2007, 365, 122-131.	2.4	157
4	Photocurrent generation by immobilized cyanobacteria via direct electron transport in photo-bioelectrochemical cells. Physical Chemistry Chemical Physics, 2014, 16, 7862.	2.8	151
5	Lactate biosensing: The emerging point-of-care and personal health monitoring. Biosensors and Bioelectronics, 2018, 117, 818-829.	10.1	107
6	Electrocatalysis and simultaneous determination of catechol and quinol by poly(malachite green) coated multiwalled carbon nanotube film. Analytical Biochemistry, 2011, 411, 71-79.	2.4	93
7	Kinetic and Mechanistic Parameters of Laccase Catalyzed Direct Electrochemical Oxygen Reduction Reaction. ACS Catalysis, 2012, 2, 38-44.	11.2	93
8	Electrochemical detection of p-ethylguaiacol, a fungi infected fruit volatile using metal oxide nanoparticles. Analyst, The, 2014, 139, 3804-3810.	3.5	85
9	Continuous Monitoring of Wound Healing Using a Wearable Enzymatic Uric Acid Biosensor. Journal of the Electrochemical Society, 2018, 165, B3168-B3175.	2.9	72
10	A novel bi-enzyme electrochemical biosensor for selective and sensitive determination of methyl salicylate. Biosensors and Bioelectronics, 2016, 81, 39-45.	10.1	42
11	Vitamin B12 incorporated with multiwalled carbon nanotube composite film for the determination of hydrazine. Analytical Biochemistry, 2011, 408, 297-303.	2.4	32
12	Three Dimensional Carbon Nanosheets as a Novel Catalyst Support for Enzymatic Bioelectrodes. Advanced Energy Materials, 2014, 4, 1301306.	19.5	29
13	Multimodal technique to eliminate humidity interference for specific detection of ethanol. Biosensors and Bioelectronics, 2017, 87, 522-530.	10.1	24
14	Highly sensitive electrochemical detection of methyl salicylate using electroactive gold nanoparticles. Analyst, The, 2013, 138, 6623.	3.5	23
15	Biosensor for Monitoring Uric Acid in Wound and Its Proximity: A Potential Wound Diagnostic Tool. Journal of the Electrochemical Society, 2019, 166, B830-B836.	2.9	21
16	Poly(malachite green) at nafion doped multi-walled carbon nanotube composite film for simple aliphatic alcohols sensor. Talanta, 2010, 80, 1094-1101.	5.5	18
17	Laccase-TiO <sub>2</sub> Nanoconjugates as Catalysts for Oxygen Reduction Reaction in Biocathodes. Journal of the Electrochemical Society, 2015, 162, H911-H917.	2.9	14
18	Electrocatalytic Activity of Oxygen and Hydrogen Peroxide Reduction at Poly(iron) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (tetra(o-a Electrochemical Society, 2009, 156, K238.	2.9	12

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19	Electroanalytical studies on green leaf volatiles for potential sensor development. Analyst, The, 2012, 137, 3138.	3.5	11
20	On the bio-electrocatalytic activity of tyrosinase for oxygen reduction reaction. Catalysis Science and Technology, 2013, 3, 2546.	4.1	11
21	A Model for Safe Transport of Critical Patients in Unmanned Drones with a "Watch"™ Style Continuous Anesthesia Sensor. Journal of the Electrochemical Society, 2018, 165, B3071-B3077.	2.9	11
22	Nanocomposite Bienzomatic Sensor for Monitoring Xanthine in Wound Diagnostics. Journal of the Electrochemical Society, 2019, 166, B3295-B3301.	2.9	9
23	Determination of peroxodisulfate ion using composite film containing naphthol green B and multi-walled carbon nanotubes. Analytical Methods, 2011, 3, 2604.	2.7	8
24	Enhanced Electron Transfer in Enzymatic Bioelectrodes by a Poly(vinyl alcohol) Methyl(4-formylstyryl) Pyridinium Methosulfate Acetal Cationic Polymer. ChemElectroChem, 2014, 1, 1834-1839.	3.4	8
25	A Fuel Cell Based Sensing Platform for Selective Detection of Acetone in Hyperglycemic Patients. ECS Transactions, 2017, 80, 1369-1378.	0.5	8
26	Sonochemically Synthesized ZnO Nanostructure-Based L-Lactate Enzymatic Sensors on Flexible Substrates. MRS Advances, 2018, 3, 277-282.	0.9	4
27	Towards a Long-Term Multi-Site Electrochemical Wound Monitoring System. , 2019, , .		3
28	Nano-Composite Enzymatic Xanthine Biosensor for Wound Diagnostics. , 2018, , .		0
29	(Invited) Multimodal Enzymatic Sensing for Continuous Wound Monitoring. ECS Transactions, 2018, 88, 419-426.	0.5	0