

# Thangavel Sangeetha

## List of Publications by Year in descending order

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33  
papers

710  
citations

567281

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552781

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docs citations

34  
times ranked

771  
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppressing Anodic Degradation of Lithium-ion Batteries by Sinusoidal Waveform Charging Method. IEEE Access, 2024, , 1-1.	4.2	0
2	Efficient methane production from waste activated sludge and Fenton-like pretreated rice straw in an integrated bio-electrochemical system. Science of the Total Environment, 2022, 813, 152411.	8.0	12
3	Tracking the diversity and interaction of methanogens in the energy recovery process of a full-scale wastewater treatment plant. Environmental Research, 2022, 211, 113010.	7.5	2
4	An emerging unrated mobile reservoir for antibiotic resistant genes: Does transportation matter to the spread. Environmental Research, 2022, 213, 113634.	7.5	2
5	A fluid dynamics perspective on the flow dependent performance of honey comb microbial fuel cells. Energy, 2021, 214, 118928.	8.8	9
6	Revealing hydrodynamics and energy efficiency of mixing for high-solid anaerobic digestion of waste activated sludge. Waste Management, 2021, 121, 1-10.	7.4	16
7	High performance zinc-air fuel cell with zinc particle fuel and flowing electrolyte. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2021, 44, 842-850.	1.1	5
8	Hydrodynamics of up-flow hybrid anaerobic digestion reactors with built-in bioelectrochemical system. Journal of Hazardous Materials, 2020, 382, 121046.	12.4	14
9	Non-precious and accessible nanocomposite of iron oxide on PDDA-Modified graphene for catalyzing oxygen reduction reaction. Journal of Power Sources Advances, 2020, 5, 100025.	5.1	1
10	Electrochemical polarization analysis for optimization of external operation parameters in zinc fuel cells. RSC Advances, 2020, 10, 28807-28818.	3.6	4
11	Review on design factors of microbial fuel cells using Buckingham's Pi Theorem. Renewable and Sustainable Energy Reviews, 2020, 130, 109878.	16.4	23
12	Methane production in a bioelectrochemistry integrated anaerobic reactor with layered nickel foam electrodes. Bioresource Technology, 2020, 313, 123657.	9.6	37
13	Enhancement of air-flow management in Zn-air fuel cells by the optimization of air-flow parameters. Energy, 2020, 197, 117181.	8.8	11
14	Discharge performance of Zn-air fuel cells under the influence of Carbopol 940 thickener. International Journal of Energy Research, 2020, 44, 4543-4555.	4.5	9
15	Electrodeposited Ni-Co-S nanosheets on nickel foam as bioelectrochemical cathodes for efficient H <sub>2</sub> evolution. International Journal of Hydrogen Energy, 2020, 45, 6583-6591.	7.1	14
16	Integration of microbial electrolysis cells with anaerobic digestion to treat beer industry wastewater. , 2020, , 313-346.		5
17	Efficient azo dye wastewater treatment in a hybrid anaerobic reactor with a built-in integrated bioelectrochemical system and an aerobic biofilm reactor: Evaluation of the combined forms and reflux ratio. Bioresource Technology, 2019, 292, 122001.	9.6	33
18	Microbial community development on different cathode metals in a bioelectrolysis enhanced methane production system. Journal of Power Sources, 2019, 444, 227306.	7.8	72

#	ARTICLE	IF	CITATIONS
19	Improved performance of a Zn-air fuel cell by coupling Zn particle fuel and flowing electrolyte. <i>Chemical Physics Letters</i> , 2019, 728, 160-166.	2.6	17
20	Optimization of the Electrolyte Parameters and Components in Zinc Particle Fuel Cells. <i>Energies</i> , 2019, 12, 1090.	3.1	19
21	Application of interface material and effects of oxygen gradient on the performance of single-chamber sediment microbial fuel cells (SSMFCs). <i>Journal of Environmental Sciences</i> , 2019, 75, 163-168.	6.1	15
22	Microbial Fuel Cell: A Synergistic Flow Approach for Energy Power Generation and Wastewater Treatment. <i>Materials Horizons</i> , 2019, , 309-334.	0.6	1
23	Novel bufferless photosynthetic microbial fuel cell (PMFCs) for enhanced electrochemical performance. <i>Bioresource Technology</i> , 2018, 255, 83-87.	9.6	45
24	Assessment of recirculation batch mode operation in bufferless Bio-cathode microbial Fuel Cells (MFCs). <i>Applied Energy</i> , 2018, 209, 120-126.	10.1	39
25	Computational Fluid Dynamics Approach for Performance Prediction in a Zinc-Air Fuel Cell. <i>Energies</i> , 2018, 11, 2185.	3.1	17
26	Constructed mathematical model for nanowire electron transfer in microbial fuel cells. <i>Journal of Power Sources</i> , 2018, 402, 483-488.	7.8	17
27	Moderate Energy for Charging Li-ion Batteries Determined by First-Principles Calculations. <i>Batteries and Supercaps</i> , 2018, 1, 209-214.	4.7	20
28	Sludge selection on the performance of sediment microbial fuel cells. <i>International Journal of Energy Research</i> , 2018, 42, 4250-4255.	4.5	15
29	Performance of low temperature Microbial Fuel Cells (MFCs) catalyzed by mixed bacterial consortia. <i>Journal of Environmental Sciences</i> , 2017, 52, 284-292.	6.1	42
30	Energy recovery evaluation in an up flow microbial electrolysis coupled anaerobic digestion (ME-AD) reactor: Role of electrode positions and hydraulic retention times. <i>Applied Energy</i> , 2017, 206, 1214-1224.	10.1	61
31	Exposing effect of comb-type cathode electrode on the performance of sediment microbial fuel cells. <i>Applied Energy</i> , 2017, 204, 620-625.	10.1	38
32	Decolorization enhancement by optimizing azo dye loading rate in an anaerobic reactor. <i>RSC Advances</i> , 2016, 6, 49995-50001.	3.6	22
33	Cathode material as an influencing factor on beer wastewater treatment and methane production in a novel integrated upflow microbial electrolysis cell (Upflow-MEC). <i>International Journal of Hydrogen Energy</i> , 2016, 41, 2189-2196.	7.1	73