Lok-kun Tsui

List of Publications by Year
in descending order

28 papers	183 citations	1306789 7 h-index	1372195 10 g-index
28 all docs	28 docs citations	28 times ranked	119 citing authors

#	Article	IF	Citations
1	impedance.py: A Python package for electrochemical impedance analysis. Journal of Open Source Software, 2020, 5, 2349.	2.0	83
2	A review of zirconia oxygen, NOx, and mixed potential gas sensors â€“ History and current trends. Sensors and Actuators B: Chemical, 2022, 370, 132363.	4.0	20
3	Automatic signal decoding and sensor stability of a 3-electrode mixed-potential sensor for NOx/NH3 quantification. Electrochimica Acta, 2018, 283, 141-148.	2.6	19
4	DC Sputtered Ultralow Loading Gold Nanofilm Electrodes for Detection of As (III) in Water. , 2022, 1, 014602.		15
5	Combined Mixed Potential Electrochemical Sensors and Artificial Neural Networks for the Quantificationand Identification of Methane in Natural Gas Emissions Monitoring. Journal of the Electrochemical Society, 2021, 168, 097506.	1.3	13
6	Quantitative decoding of the response a ceramic mixed potential sensor array for engine emissions control and diagnostics. Sensors and Actuators B: Chemical, 2017, 249, 673-684.	4.0	10
7	High Resolution Aerosol Jet Printed Components with Electrodeposition-Enhanced Conductance. ECS Journal of Solid State Science and Technology, 2021, 10, 047001.	0.9	10
8	Additively manufactured mixed potential electrochemical sensors for NOx, C3H8, and NH3 detection. Progress in Additive Manufacturing, 2019, 4, 13-21.	2.5	9
9	Additive manufacturing and characterization of AgI and AgIâ€“Al2O3 composite electrolytes for resistive switching devices. Journal of Applied Physics, 2020, 128, 035103.	1.1	2
10	Characterization of Electrochemical Surface Area and Porosity of Zirconia Sensors. ECS Transactions, 2017, 77, 1087-1094.	0.3	1
11	(Invited) Additive Manufacturing of Mixed Potential Gas Sensors for Natural Gas Emissions Monitoring. ECS Meeting Abstracts, 2021, MA2021-02, 1379-1379.	0.0	1
12	Additive Manufacturing for Rapid Prototyping of Mixed Potential Electrochemical Sensors. ECS Meeting Abstracts, 2021, MA2021-01, 2064-2064.	0.0	0
13	Analytics in Extracting Intelligence from IoT-Based Sensors in Transportation, Healthcare and Natural Gas Detection. ECS Meeting Abstracts, 2021, MA2021-01, 1565-1565.	0.0	0
14	Machine Learning for the Quantification and Identification of Natural Gas from Mixed Potential Electrochemical Sensors. ECS Meeting Abstracts, 2021, MA2021-01, 1315-1315.	0.0	0
15	Reversible Electrochemical Mirrors for Thermal Control in Space Vehicles. ECS Meeting Abstracts, 2019, , .	0.0	0
16	Nitrous Oxide As an Oxidizer for Dual Use Fuel Cell / Thrust Systems in Space Applications. ECS Meeting Abstracts, 2019, , .	0.0	0
17	Rethinking Electrochemical Science and Engineering Education. ECS Meeting Abstracts, 2019, , .	0.0	0
18	Optimizing Electrochemical Thermal Control Devices: Investigating the Effect of Water Contamination on Reversible Silver Thin-Film Plating. ECS Meeting Abstracts, 2019, , .	0.0	0

#	Article	IF	Citations
19	Ceramic Additive Manufacturing for the Rapid Prototyping of Mixed Potential Electrochemical Sensors. ECS Meeting Abstracts, 2020, MA2020-01, 2262-2262.	0.0	0
20	Energy Agility for Space Vehicle Applications Enabled by Bipropellant Consuming Solid Oxide Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1760-1760.	0.0	0
21	Electrodeposition and Electroless Deposition for High Conductivity, High Resolution Aerosol Jet Printed Components. ECS Meeting Abstracts, 2021, MA2021-02, 701-701.	0.0	0
22	IoT-Based Sensor Systems for Intelligence in Transportation, Healthcare and Natural Gas Detection. ECS Transactions, 2020, 98, 17-23.	0.3	0
23	IoT-Based Sensor Systems for Intelligence in Transportation, Healthcare and Natural Gas Detection. ECS Meeting Abstracts, 2020, MA2020-02, 3294-3294.	0.0	0
24	Conductivity Enhancement of Aerosol Jet Printed Components By Electrodeposition. ECS Meeting Abstracts, 2020, MA2020-02, 1508-1508.	0.0	0
25	Additively Manufactured Mixed Potential Electrochemical Sensors for Natural Gas Detection. ECS Meeting Abstracts, 2020, MA2020-02, 3401-3401.	0.0	0
26	AgI Electrolytes for Printable Solid-State Thermal Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 924-924.	0.0	0
27	Multi-Material Additive Manufacturing of Coreless Transformers By Aerosol Jet Printing and Electrochemical Deposition. ECS Meeting Abstracts, 2022, MA2022-01, 2363-2363.	0.0	0
28	Mixed Potential Electrochemical Sensors â€“ Ceramic Substrate and Electrolyte Effects on Sensor Response to Methane and Simulated Natural Gas. ECS Meeting Abstracts, 2022, MA2022-01, 2146-2146.	0.0	0