

# Oi Wah Liew

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

2,129  
citations

304368

22  
h-index

276539

41  
g-index

109  
all docs

109  
docs citations

109  
times ranked

3365  
citing authors

#	ARTICLE	IF	CITATIONS
1	Algae photosynthesis and respiration experimentation with physical and augmented reality modes. <i>Journal of Biological Education</i> , 2022, 56, 163-173.	0.8	2
2	Fog Harvesting with Highly Wetting and Nonwetting Vertical Strips. <i>Langmuir</i> , 2022, 38, 1845-1852.	1.6	9
3	Low-cost Imaging of Fluorescent DNA in Agarose Gel Electrophoresis using Raspberry Pi cameras. <i>Journal of Fluorescence</i> , 2022, 32, 443-448.	1.3	5
4	Liquid marble microbioreactor aeration facilitated by on-demand electrolysis. <i>Results in Chemistry</i> , 2022, 4, 100334.	0.9	4
5	Finding a reliable assay for soluble neprilysin. <i>Clinical Biochemistry</i> , 2022, 104, 51-58.	0.8	1
6	Effect of monthly vitamin D supplementation on cardiac biomarkers: A post-hoc analysis of a randomized controlled trial. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2022, 220, 106093.	1.2	1
7	Novel predictive role for mid-regional proadrenomedullin in moderate to severe aortic stenosis. <i>Heart</i> , 2022, 108, 1319-1327.	1.2	6
8	Immunoassay-Compatible Inactivation of SARS-CoV-2 in Plasma Samples for Enhanced Handling Safety. <i>ACS Omega</i> , 2022, 7, 25510-25520.	1.6	3
9	Unmanned aerial vehicle transport of frozen blood samples using phase change materials. <i>Biosystems Engineering</i> , 2022, 221, 30-42.	1.9	4
10	Efficient drop reactor processing of methylene blue degradation with silver nanowire catalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125749.	2.3	3
11	Safe Handling of Gas Generating Experiments Using Disposable Plastic Syringes. <i>Journal of Chemical Education</i> , 2021, 98, 237-242.	1.1	1
12	Liquid marble clearance and restoration via gas bubble insertion and bursting. <i>Soft Matter</i> , 2021, 17, 2512-2517.	1.2	2
13	Sustained graphene oxide coated superhydrophilicity and superwetting using humidity control. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 613, 126097.	2.3	7
14	Inflight Polymerase Chain Reaction of samples with drones. <i>Analytical Biochemistry</i> , 2021, 616, 114098.	1.1	3
15	Epitope-directed monoclonal antibody production using a mixed antigen cocktail facilitates antibody characterization and validation. <i>Communications Biology</i> , 2021, 4, 441.	2.0	9
16	Blood-Based Cardiac Biomarkers and the Risk of Cognitive Decline, Cerebrovascular Disease, and Clinical Events. <i>Stroke</i> , 2021, 52, 2275-2283.	1.0	15
17	Thermal study of polymerase chain reaction with capillary tubes. <i>International Journal of Heat and Mass Transfer</i> , 2021, 176, 121508.	2.5	6
18	An Augmented Reality tourniquet tightening trainer for peripheral venepuncture. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113202.	2.0	1

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19	Cryoprotectant-free preservation of bacteria using semi-spherical drops. <i>Cryobiology</i> , 2021, 104, 98-98.	0.3	1
20	Growth measurement of surface colonies of bacteria using augmented reality. <i>Journal of Biological Education</i> , 2020, 54, 419-432.	0.8	10
21	Mid-regional pro-adrenomedullin outperforms N-terminal pro-B-type natriuretic peptide for the diagnosis of acute heart failure in the presence of atrial fibrillation. <i>European Journal of Heart Failure</i> , 2020, 22, 692-700.	2.9	11
22	Cryopreservation without dry ice-induced acidification during sample transport. <i>Analytical Biochemistry</i> , 2020, 608, 113906.	1.1	8
23	Polymerase chain reaction thermal cycling using the programmed tilt displacements of capillary tubes. <i>Review of Scientific Instruments</i> , 2020, 91, 104105.	0.6	5
24	Cardiac and renal biomarkers in recreational runners following a 21-km treadmill run. <i>Clinical Cardiology</i> , 2020, 43, 1443-1449.	0.7	3
25	Volume and rate measurement of slowly generated gas bubbles. <i>Flow Measurement and Instrumentation</i> , 2020, 72, 101694.	1.0	3
26	Liquid marble particle wetting separation. <i>Colloids and Interface Science Communications</i> , 2020, 35, 100237.	2.0	3
27	Syringe infusion pump with absolute piston displacement control. <i>Review of Scientific Instruments</i> , 2019, 90, 076108.	0.6	11
28	Living specimens under field immobilization and smartphone microscopic observation. <i>Microscopy Research and Technique</i> , 2019, 82, 1741-1747.	1.2	1
29	Behaviour of sessile drops revealed in "car crash" like impact. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 579, 123661.	2.3	4
30	Antibody drop based handling with near-superhydrophobic mesh substrates overcomes condensation sticking. <i>Materials Science and Engineering C</i> , 2019, 96, 599-605.	3.8	6
31	Combining Circulating MicroRNA and NT-proBNP to Detect and Categorize Heart Failure Subtypes. <i>Journal of the American College of Cardiology</i> , 2019, 73, 1300-1313.	1.2	68
32	Heart Failure with Reduced Ejection Fraction (HFrEF) and Preserved Ejection Fraction (HFpEF): The Diagnostic Value of Circulating MicroRNAs. <i>Cells</i> , 2019, 8, 1651.	1.8	39
33	Augmented reality experimentation on oxygen gas generation from hydrogen peroxide and bleach reaction. <i>Biochemistry and Molecular Biology Education</i> , 2018, 46, 245-252.	0.5	22
34	Developing and Demonstrating an Augmented Reality Colorimetric Titration Tool. <i>Journal of Chemical Education</i> , 2018, 95, 393-399.	1.1	61
35	Monoclonal Antibodies against Specific p53 Hotspot Mutants as Potential Tools for Precision Medicine. <i>Cell Reports</i> , 2018, 22, 299-312.	2.9	34
36	Drone inflight mixing of biochemical samples. <i>Analytical Biochemistry</i> , 2018, 545, 1-3.	1.1	16

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37	Note: Biochemical samples centrifuged in-flight on drones. <i>Review of Scientific Instruments</i> , 2018, 89, 106102.	0.6	4
38	Simultaneous Multidrop Creation with Superhydrophobic Wells for Field Environmental Sensing of Nanoparticles. <i>ACS Omega</i> , 2018, 3, 9310-9317.	1.6	2
39	Variability in Microplate Surface Properties and Its Impact on ELISA. <i>Journal of applied laboratory medicine, The</i> , 2018, 2, 687-699.	0.6	10
40	Sensor and actuator simulation training system for en-route intravenous procedure. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 680-687.	2.0	2
41	The association of heart failure-related microRNAs with neurohormonal signaling. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2031-2040.	1.8	10
42	Characteristics of drops on flat microplating surfaces from controlled upward longitudinal impact. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 522, 74-82.	2.3	5
43	A superhydrophobic manhole for drops. <i>Journal of Materials Chemistry A</i> , 2017, 5, 914-918.	5.2	16
44	Drops on a Superhydrophobic Hole Hanging On under Evaporation. <i>ACS Omega</i> , 2017, 2, 6211-6222.	1.6	11
45	The prognostic value of highly sensitive cardiac troponin assays for adverse events in men and women with stable heart failure and a preserved vs. reduced ejection fraction. <i>European Journal of Heart Failure</i> , 2017, 19, 1638-1647.	2.9	74
46	Millimeter-Sized Hole Damming. <i>Langmuir</i> , 2017, 33, 13892-13898.	1.6	1
47	Superior performance of N-terminal pro brain natriuretic peptide for diagnosis of acute decompensated heart failure in an Asian compared with a Western setting. <i>European Journal of Heart Failure</i> , 2017, 19, 209-217.	2.9	32
48	Ankyrin Repeat Domain 1 Protein: A Functionally Pleiotropic Protein with Cardiac Biomarker Potential. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1362.	1.8	49
49	Overview of MicroRNAs in Cardiac Hypertrophy, Fibrosis, and Apoptosis. <i>International Journal of Molecular Sciences</i> , 2016, 17, 749.	1.8	108
50	MicroRNA and Heart Failure. <i>International Journal of Molecular Sciences</i> , 2016, 17, 502.	1.8	98
51	Versatile wetting measurement of microplate wells. <i>Review of Scientific Instruments</i> , 2016, 87, 115107.	0.6	1
52	Growth differentiation factor-15 and white matter hyperintensities in cognitive impairment and dementia. <i>Medicine (United States)</i> , 2016, 95, e4566.	0.4	46
53	Adapting a Low-Cost Selective Compliant Articulated Robotic Arm for Spillage Avoidance. <i>Journal of the Association for Laboratory Automation</i> , 2016, 21, 799-805.	2.8	15
54	Stabilized dried blood spot collection. <i>Analytical Biochemistry</i> , 2016, 506, 28-30.	1.1	6

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55	High-Sensitivity Sandwich ELISA for Plasma NT-proUcn2: Plasma Concentrations and Relationship to Mortality in Heart Failure. <i>Clinical Chemistry</i> , 2016, 62, 856-865.	1.5	19
56	Growth differentiation factor 15 in heart failure with preserved vs. reduced ejection fraction. <i>European Journal of Heart Failure</i> , 2016, 18, 81-88.	2.9	128
57	Uphill airflow transport of drops on superhydrophobic inclines. <i>Colloids and Interface Science Communications</i> , 2015, 6, 1-4.	2.0	6
58	Liquid-body resonance while contacting a rotating superhydrophobic surface. <i>European Physical Journal E</i> , 2015, 38, 119.	0.7	5
59	CYY4137 attenuates remodeling, preserves cardiac function and modulates the natriuretic peptide response to ischemia. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 87, 27-37.	0.9	39
60	Drop transfer between superhydrophobic wells using air logic control. <i>Lab on A Chip</i> , 2015, 15, 991-995.	3.1	18
61	Concentrating nanoparticles in environmental monitoring. <i>Environmental Toxicology and Pharmacology</i> , 2015, 40, 187-190.	2.0	6
62	Natriuretic peptide receptor 3 (NPR3) is regulated by microRNA-100. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 82, 13-21.	0.9	29
63	Glycerol-water sessile drop elongation on PTFE inclines in relation to biochemical applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 486, 21-28.	2.3	5
64	Controlled transport of captive bubbles on plastrons. <i>Soft Matter</i> , 2015, 11, 7474-7477.	1.2	7
65	A direct heating model to overcome the edge effect in microplates. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 102, 199-202.	1.4	8
66	Hydrophobic to superhydrophobic surface modification using impacting particulate sprays. <i>Applied Surface Science</i> , 2014, 311, 89-94.	3.1	8
67	Scribed transparency microplates mounted on a modified standard microplate. <i>Analytical Biochemistry</i> , 2014, 458, 40-42.	1.1	5
68	A His6-SUMO-eXact tag for producing human prepro-Urocortin 2 in Escherichia coli for raising monoclonal antibodies. <i>Journal of Immunological Methods</i> , 2014, 403, 37-51.	0.6	11
69	Squeezed flow preconcentration for probe tip biosensors. <i>Analytical Biochemistry</i> , 2014, 444, 57-59.	1.1	6
70	Transparency microplates under impact. <i>Journal of Colloid and Interface Science</i> , 2014, 426, 56-63.	5.0	7
71	Surface-Scribed Transparency-Based Microplates. <i>Langmuir</i> , 2013, 29, 849-855.	1.6	22
72	Microplates based on liquid bridges between glass rods. <i>Journal of Colloid and Interface Science</i> , 2013, 397, 177-184.	5.0	11

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73	Precise drop dispensation on superhydrophobic surfaces using acoustic nebulization. <i>Soft Matter</i> , 2013, 9, 3631.	1.2	18
74	Contact angle and volume retention effects from capillary bridge evaporation in biochemical microplating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 647-655.	2.3	12
75	MRT letter: Micro to nanoscale sample collection for high throughput microscopy. <i>Microscopy Research and Technique</i> , 2013, 76, 767-773.	1.2	5
76	Optical stirring in a droplet cell bioreactor. <i>Biomedical Optics Express</i> , 2012, 3, 2465.	1.5	6
77	Discovery of Novel Small Molecule Inhibitors of Dengue Viral NS2B-NS3 Protease Using Virtual Screening and Scaffold Hopping. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 6278-6293.	2.9	67
78	Evaporative preconcentration and cryopreservation of fluorescent analytes using superhydrophobic surfaces. <i>Soft Matter</i> , 2012, 8, 3563.	1.2	21
79	Microplate well coverage mixing using superhydrophobic contact. <i>Analytical Biochemistry</i> , 2012, 430, 53-55.	1.1	12
80	Electrophoresis Gel Quantification with a Flatbed Scanner and Versatile Lighting from a Screen Scavenged from a Liquid Crystal Display (LCD) Monitor. <i>Journal of Chemical Education</i> , 2012, 89, 513-516.	1.1	3
81	Transparency-based microplates for fluorescence quantification. <i>Analytical Biochemistry</i> , 2012, 422, 39-45.	1.1	18
82	Surface tension drawing of liquid from microplate capillary wells. <i>Journal of Colloid and Interface Science</i> , 2012, 365, 314-319.	5.0	12
83	Using the Meniscus in a Capillary for Small Volume Contact Angle Measurement in Biochemical Applications. <i>Langmuir</i> , 2011, 27, 11925-11929.	1.6	28
84	Evaporative Preconcentration of Fluorescent Protein Samples in Capillary Based Microplates. <i>Journal of Fluorescence</i> , 2011, 21, 1835-1839.	1.3	15
85	A capacity for mixing in capillary wells for microplates. <i>Analytical Biochemistry</i> , 2011, 410, 152-154.	1.1	21
86	Point spread function effect in image-based fluorescent microplate detection. <i>Analytical Biochemistry</i> , 2010, 397, 256-258.	1.1	19
87	Liquid filling in standard circular well microplates. <i>Journal of Applied Physics</i> , 2010, 108, 124701.	1.1	18
88	Capillary Wells Microplate with Side Optical Access. <i>Journal of Biomolecular Screening</i> , 2010, 15, 1160-1164.	2.6	15
89	Absorbance and fluorometric sensing with capillary wells microplates. <i>Review of Scientific Instruments</i> , 2010, 81, 124301.	0.6	13
90	Accommodating brightness and exposure levels in densitometry of stained polyacrylamide electrophoresis gels. <i>Applied Optics</i> , 2010, 49, 1623.	2.1	2

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91	Adapted liquid crystal display backlighting unit for densitometry of stained polyacrylamide electrophoresis gels. <i>Electrophoresis</i> , 2009, 30, 987-990.	1.3	5
92	Filterless Fluorometry with Enhanced Sensitivity. <i>Journal of Fluorescence</i> , 2009, 19, 375-379.	1.3	6
93	Novel non-peptide $\hat{1}^2$ -secretase inhibitors derived from structure-based virtual screening and bioassay. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3188-3192.	1.0	21
94	Mechanism of NS2B-Mediated Activation of NS3pro in Dengue Virus: Molecular Dynamics Simulations and Bioassays. <i>Journal of Virology</i> , 2009, 83, 1060-1070.	1.5	45
95	Signature Optical Cues: Emerging Technologies for Monitoring Plant Health. <i>Sensors</i> , 2008, 8, 3205-3239.	2.1	80
96	An SRLLR motif downstream of the scissile bond enhances enterokinase cleavage efficiency. <i>Biochimie</i> , 2007, 89, 21-29.	1.3	12
97	Optical Spectroscopic Approach for Non-Invasive Monitoring of Plant Water and Nutrient Stress. , 2007, , .		0
98	Effects of light spectrum in flatbed scanner densitometry of stained polyacrylamide gels. <i>BioTechniques</i> , 2007, 42, 474-478.	0.8	20
99	Binding interaction of quercetin-3- $\hat{1}^2$ -galactoside and its synthetic derivatives with SARS-CoV 3CLpro: Structure-activity relationship studies reveal salient pharmacophore features. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 8295-8306.	1.4	234
100	Pre-visual detection of iron and phosphorus deficiency by transformed reflectance spectra. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2006, 85, 131-139.	1.7	59
101	Early detection of calcium deficiency in plants using red edge position. , 2005, , .		30
102	Preparation of recombinant thioredoxin fused N-terminal proCNP: Analysis of enterokinase cleavage products reveals new enterokinase cleavage sites. <i>Protein Expression and Purification</i> , 2005, 41, 332-340.	0.6	57
103	Expressing an antibacterial protein in bacteria for raising antibodies. <i>Protein Expression and Purification</i> , 2004, 33, 153-159.	0.6	30
104	Development of fiber optic spectroscopy for in-vitro and in-planta detection of fluorescent proteins. , 2001, , .		3
105	Noninvasive detection of plant nutrient stress using fiber optic spectrophotometry. , 2001, 4416, 284.		0
106	<title>Portable system approach of monitoring plant nutrient deficiency using fiber optic spectrophotometry</title>. , 1999, , .		1
107	<title>Fiber optic spectrophotometry monitoring of plant nutrient deficiency under hydroponic culture conditions</title>. , 1999, , .		2