

# Oi Wah Liew

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

2,129  
citations

304743  
22  
h-index

276875  
41  
g-index

109  
all docs

109  
docs citations

109  
times ranked

3365  
citing authors

#	ARTICLE	IF	CITATIONS
1	Binding interaction of quercetin-3- $\beta$ -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.	3.0	234
2	Growth differentiation factor 15 in heart failure with preserved vs. reduced ejection fraction. <i>European Journal of Heart Failure</i> , 2016, 18, 81-88.	7.1	128
3	Overview of MicroRNAs in Cardiac Hypertrophy, Fibrosis, and Apoptosis. <i>International Journal of Molecular Sciences</i> , 2016, 17, 749.	4.1	108
4	MicroRNA and Heart Failure. <i>International Journal of Molecular Sciences</i> , 2016, 17, 502.	4.1	98
5	Signature Optical Cues: Emerging Technologies for Monitoring Plant Health. <i>Sensors</i> , 2008, 8, 3205-3239.	3.8	80
6	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.	7.1	74
7	Combining Circulating MicroRNA and $\Delta$ NT-proBNP to Detect and Categorize Heart Failure Subtypes. <i>Journal of the American College of Cardiology</i> , 2019, 73, 1300-1313.	2.8	68
8	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.	6.4	67
9	Developing and Demonstrating an Augmented Reality Colorimetric Titration Tool. <i>Journal of Chemical Education</i> , 2018, 95, 393-399.	2.3	61
10	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.	3.8	59
11	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.	1.3	57
12	Ankyrin Repeat Domain 1 Protein: A Functionally Pleiotropic Protein with Cardiac Biomarker Potential. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1362.	4.1	49
13	Growth differentiation factor-15 and white matter hyperintensities in cognitive impairment and dementia. <i>Medicine (United States)</i> , 2016, 95, e4566.	1.0	46
14	Mechanism of NS2B-Mediated Activation of NS3pro in Dengue Virus: Molecular Dynamics Simulations and Bioassays. <i>Journal of Virology</i> , 2009, 83, 1060-1070.	3.4	45
15	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.	1.9	39
16	Heart Failure with Reduced Ejection Fraction (HFrEF) and Preserved Ejection Fraction (HFpEF): The Diagnostic Value of Circulating MicroRNAs. <i>Cells</i> , 2019, 8, 1651.	4.1	39
17	Monoclonal Antibodies against Specific p53 Hotspot Mutants as Potential Tools for Precision Medicine. <i>Cell Reports</i> , 2018, 22, 299-312.	6.4	34
18	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.	7.1	32

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19	Expressing an antibacterial protein in bacteria for raising antibodies. Protein Expression and Purification, 2004, 33, 153-159.	1.3	30
20	Early detection of calcium deficiency in plants using red edge position. , 2005, , .		30
21	Natriuretic peptide receptor 3 (NPR3) is regulated by microRNA-100. Journal of Molecular and Cellular Cardiology, 2015, 82, 13-21.	1.9	29
22	Using the Meniscus in a Capillary for Small Volume Contact Angle Measurement in Biochemical Applications. Langmuir, 2011, 27, 11925-11929.	3.5	28
23	Surface-Scribed Transparency-Based Microplates. Langmuir, 2013, 29, 849-855.	3.5	22
24	Augmented reality experimentation on oxygen gas generation from hydrogen peroxide and bleach reaction. Biochemistry and Molecular Biology Education, 2018, 46, 245-252.	1.2	22
25	Novel non-peptide $\hat{I}^2$ -secretase inhibitors derived from structure-based virtual screening and bioassay. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3188-3192.	2.2	21
26	A capacity for mixing in capillary wells for microplates. Analytical Biochemistry, 2011, 410, 152-154.	2.4	21
27	Evaporative preconcentration and cryopreservation of fluorescent analytes using superhydrophobic surfaces. Soft Matter, 2012, 8, 3563.	2.7	21
28	Effects of light spectrum in flatbed scanner densitometry of stained polyacrylamide gels. BioTechniques, 2007, 42, 474-478.	1.8	20
29	Point spread function effect in image-based fluorescent microplate detection. Analytical Biochemistry, 2010, 397, 256-258.	2.4	19
30	High-Sensitivity Sandwich ELISA for Plasma NT-proUcn2: Plasma Concentrations and Relationship to Mortality in Heart Failure. Clinical Chemistry, 2016, 62, 856-865.	3.2	19
31	Liquid filling in standard circular well microplates. Journal of Applied Physics, 2010, 108, 124701.	2.5	18
32	Transparency-based microplates for fluorescence quantification. Analytical Biochemistry, 2012, 422, 39-45.	2.4	18
33	Precise drop dispensation on superhydrophobic surfaces using acoustic nebulization. Soft Matter, 2013, 9, 3631.	2.7	18
34	Drop transfer between superhydrophobic wells using air logic control. Lab on A Chip, 2015, 15, 991-995.	6.0	18
35	A superhydrophobic manhole for drops. Journal of Materials Chemistry A, 2017, 5, 914-918.	10.3	16
36	Drone inflight mixing of biochemical samples. Analytical Biochemistry, 2018, 545, 1-3.	2.4	16

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37	Capillary Wells Microplate with Side Optical Access. Journal of Biomolecular Screening, 2010, 15, 1160-1164.	2.6	15
38	Evaporative Preconcentration of Fluorescent Protein Samples in Capillary Based Microplates. Journal of Fluorescence, 2011, 21, 1835-1839.	2.5	15
39	Adapting a Low-Cost Selective Compliant Articulated Robotic Arm for Spillage Avoidance. Journal of the Association for Laboratory Automation, 2016, 21, 799-805.	2.8	15
40	Blood-Based Cardiac Biomarkers and the Risk of Cognitive Decline, Cerebrovascular Disease, and Clinical Events. Stroke, 2021, 52, 2275-2283.	2.0	15
41	Absorbance and fluorometric sensing with capillary wells microplates. Review of Scientific Instruments, 2010, 81, 124301.	1.3	13
42	An SRLLR motif downstream of the scissile bond enhances enterokinase cleavage efficiency. Biochimie, 2007, 89, 21-29.	2.6	12
43	Microplate well coverage mixing using superhydrophobic contact. Analytical Biochemistry, 2012, 430, 53-55.	2.4	12
44	Surface tension drawing of liquid from microplate capillary wells. Journal of Colloid and Interface Science, 2012, 365, 314-319.	9.4	12
45	Contact angle and volume retention effects from capillary bridge evaporation in biochemical microplating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 647-655.	4.7	12
46	Microplates based on liquid bridges between glass rods. Journal of Colloid and Interface Science, 2013, 397, 177-184.	9.4	11
47	A His6-SUMO-eXact tag for producing human prepro-Urocortin 2 in Escherichia coli for raising monoclonal antibodies. Journal of Immunological Methods, 2014, 403, 37-51.	1.4	11
48	Drops on a Superhydrophobic Hole Hanging On under Evaporation. ACS Omega, 2017, 2, 6211-6222.	3.5	11
49	Syringe infusion pump with absolute piston displacement control. Review of Scientific Instruments, 2019, 90, 076108.	1.3	11
50	Mid-regional pro-B-type natriuretic peptide outperforms N-terminal pro-B-type natriuretic peptide for the diagnosis of acute heart failure in the presence of atrial fibrillation. European Journal of Heart Failure, 2020, 22, 692-700.	7.1	11
51	The association of heart failure-related microRNAs with neurohormonal signaling. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 2031-2040.	3.8	10
52	Variability in Microplate Surface Properties and Its Impact on ELISA. Journal of Applied Laboratory Medicine, 2018, 2, 687-699.	1.3	10
53	Growth measurement of surface colonies of bacteria using augmented reality. Journal of Biological Education, 2020, 54, 419-432.	1.5	10
54	Epitope-directed monoclonal antibody production using a mixed antigen cocktail facilitates antibody characterization and validation. Communications Biology, 2021, 4, 441.	4.4	9

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55	Fog Harvesting with Highly Wetting and Nonwetting Vertical Strips. Langmuir, 2022, 38, 1845-1852.	3.5	9
56	Hydrophobic to superhydrophobic surface modification using impacting particulate sprays. Applied Surface Science, 2014, 311, 89-94.	6.1	8
57	A direct heating model to overcome the edge effect in microplates. Journal of Pharmaceutical and Biomedical Analysis, 2015, 102, 199-202.	2.8	8
58	Cryopreservation without dry ice-induced acidification during sample transport. Analytical Biochemistry, 2020, 608, 113906.	2.4	8
59	Transparency microplates under impact. Journal of Colloid and Interface Science, 2014, 426, 56-63.	9.4	7
60	Controlled transport of captive bubbles on plastrons. Soft Matter, 2015, 11, 7474-7477.	2.7	7
61	Sustained graphene oxide coated superhydrophilicity and superwetting using humidity control. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 613, 126097.	4.7	7
62	Filterless Fluorometry with Enhanced Sensitivity. Journal of Fluorescence, 2009, 19, 375-379.	2.5	6
63	Optical stirring in a droplet cell bioreactor. Biomedical Optics Express, 2012, 3, 2465.	2.9	6
64	Squeezed flow preconcentration for probe tip biosensors. Analytical Biochemistry, 2014, 444, 57-59.	2.4	6
65	Uphill airflow transport of drops on superhydrophobic inclines. Colloids and Interface Science Communications, 2015, 6, 1-4.	4.1	6
66	Concentrating nanoparticles in environmental monitoring. Environmental Toxicology and Pharmacology, 2015, 40, 187-190.	4.0	6
67	Stabilized dried blood spot collection. Analytical Biochemistry, 2016, 506, 28-30.	2.4	6
68	Antibody drop based handling with near-superhydrophobic mesh substrates overcomes condensation sticking. Materials Science and Engineering C, 2019, 96, 599-605.	7.3	6
69	Thermal study of polymerase chain reaction with capillary tubes. International Journal of Heat and Mass Transfer, 2021, 176, 121508.	4.8	6
70	Novel predictive role for mid-regional proadrenomedullin in moderate to severe aortic stenosis. Heart, 2022, 108, 1319-1327.	2.9	6
71	Adapted liquid crystal display backlighting unit for densitometry of stained polyacrylamide electrophoresis gels. Electrophoresis, 2009, 30, 987-990.	2.4	5
72	MRT letter: Micro- to nanoscale sample collection for high throughput microscopy. Microscopy Research and Technique, 2013, 76, 767-773.	2.2	5

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73	Scribed transparency microplates mounted on a modified standard microplate. Analytical Biochemistry, 2014, 458, 40-42.	2.4	5
74	Liquid-body resonance while contacting a rotating superhydrophobic surface. European Physical Journal E, 2015, 38, 119.	1.6	5
75	Glycerol-water sessile drop elongation on PTFE inclines in relation to biochemical applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 486, 21-28.	4.7	5
76	Characteristics of drops on flat microplating surfaces from controlled upward longitudinal impact. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 74-82.	4.7	5
77	Polymerase chain reaction thermal cycling using the programmed tilt displacements of capillary tubes. Review of Scientific Instruments, 2020, 91, 104105.	1.3	5
78	Low-cost Imaging of Fluorescent DNA in Agarose Gel Electrophoresis using Raspberry Pi cameras. Journal of Fluorescence, 2022, 32, 443-448.	2.5	5
79	Note: Biochemical samples centrifuged in-flight on drones. Review of Scientific Instruments, 2018, 89, 106102.	1.3	4
80	Behaviour of sessile drops revealed in "car crash" like impact. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 579, 123661.	4.7	4
81	Liquid marble microbioreactor aeration facilitated by on-demand electrolysis. Results in Chemistry, 2022, 4, 100334.	2.0	4
82	Unmanned aerial vehicle transport of frozen blood samples using phase change materials. Biosystems Engineering, 2022, 221, 30-42.	4.3	4
83	Development of fiber optic spectroscopy for in-vitro and in-planta detection of fluorescent proteins. , 2001, , .		3
84	Electrophoresis Gel Quantification with a Flatbed Scanner and Versatile Lighting from a Screen Scavenged from a Liquid Crystal Display (LCD) Monitor. Journal of Chemical Education, 2012, 89, 513-516.	2.3	3
85	Cardiac and renal biomarkers in recreational runners following a 21-km treadmill run. Clinical Cardiology, 2020, 43, 1443-1449.	1.8	3
86	Volume and rate measurement of slowly generated gas bubbles. Flow Measurement and Instrumentation, 2020, 72, 101694.	2.0	3
87	Liquid marble particle wetting separation. Colloids and Interface Science Communications, 2020, 35, 100237.	4.1	3
88	Efficient drop reactor processing of methylene blue degradation with silver nanowire catalysts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125749.	4.7	3
89	Inflight Polymerase Chain Reaction of samples with drones. Analytical Biochemistry, 2021, 616, 114098.	2.4	3
90	Immunoassay-Compatible Inactivation of SARS-CoV-2 in Plasma Samples for Enhanced Handling Safety. ACS Omega, 2022, 7, 25510-25520.	3.5	3

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91	<title>Fiber optic spectrophotometry monitoring of plant nutrient deficiency under hydroponic culture conditions</title>. , 1999, , .		2
92	Accommodating brightness and exposure levels in densitometry of stained polyacrylamide electrophoresis gels. Applied Optics, 2010, 49, 1623.	2.1	2
93	Simultaneous Multidrop Creation with Superhydrophobic Wells for Field Environmental Sensing of Nanoparticles. ACS Omega, 2018, 3, 9310-9317.	3.5	2
94	Sensor and actuator simulation training system for en-route intravenous procedure. Sensors and Actuators A: Physical, 2018, 279, 680-687.	4.1	2
95	Algae photosynthesis and respiration experimentation with physical and augmented reality modes. Journal of Biological Education, 2022, 56, 163-173.	1.5	2
96	Liquid marble clearance and restoration<i>via</i>gas bubble insertion and bursting. Soft Matter, 2021, 17, 2512-2517.	2.7	2
97	<title>Portable system approach of monitoring plant nutrient deficiency using fiber optic spectrophotometry</title>. , 1999, , .		1
98	Versatile wetting measurement of microplate wells. Review of Scientific Instruments, 2016, 87, 115107.	1.3	1
99	Millimeter-Sized Hole Damming. Langmuir, 2017, 33, 13892-13898.	3.5	1
100	Living specimens under field immobilization and smartphone microscopic observation. Microscopy Research and Technique, 2019, 82, 1741-1747.	2.2	1
101	Safe Handling of Gas Generating Experiments Using Disposable Plastic Syringes. Journal of Chemical Education, 2021, 98, 237-242.	2.3	1
102	An Augmented Reality tourniquet tightening trainer for peripheral venepuncture. Sensors and Actuators A: Physical, 2021, 332, 113202.	4.1	1
103	Cryoprotectant-free preservation of bacteria using semi-spherical drops. Cryobiology, 2021, 104, 98-98.	0.7	1
104	Finding a reliable assay for soluble neprilysin. Clinical Biochemistry, 2022, 104, 51-58.	1.9	1
105	Effect of monthly vitamin D supplementation on cardiac biomarkers: A post-hoc analysis of a randomized controlled trial. Journal of Steroid Biochemistry and Molecular Biology, 2022, 220, 106093.	2.5	1
106	Noninvasive detection of plant nutrient stress using fiber optic spectrophotometry. , 2001, 4416, 284.		0
107	Optical Spectroscopic Approach for Non-Invasive Monitoring of Plant Water and Nutrient Stress. , 2007, , .		0