

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	Algae photosynthesis and respiration experimentation with physical and augmented reality modes. Journal of Biological Education, 2022, 56, 163-173.	1.5	2
2	Fog Harvesting with Highly Wetting and Nonwetting Vertical Strips. Langmuir, 2022, 38, 1845-1852.	3.5	9
3	Low-cost Imaging of Fluorescent DNA in Agarose Gel Electrophoresis using Raspberry Pi cameras. Journal of Fluorescence, 2022, 32, 443-448.	2.5	5
4	Liquid marble microbioreactor aeration facilitated by on-demand electrolysis. Results in Chemistry, 2022, 4, 100334.	2.0	4
5	Finding a reliable assay for soluble neprilysin. Clinical Biochemistry, 2022, 104, 51-58.	1.9	1
6	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
7	Novel predictive role for mid-regional proadrenomedullin in moderate to severe aortic stenosis. Heart, 2022, 108, 1319-1327.	2.9	6
8	Immunoassay-Compatible Inactivation of SARS-CoV-2 in Plasma Samples for Enhanced Handling Safety. ACS Omega, 2022, 7, 25510-25520.	3.5	3
9	Unmanned aerial vehicle transport of frozen blood samples using phase change materials. Biosystems Engineering, 2022, 221, 30-42.	4.3	4
10	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
11	Safe Handling of Gas Generating Experiments Using Disposable Plastic Syringes. Journal of Chemical Education, 2021, 98, 237-242.	2.3	1
12	Liquid marble clearance and restoration via gas bubble insertion and bursting. Soft Matter, 2021, 17, 2512-2517.	2.7	2
13	Sustained graphene oxide coated superhydrophilicity and superwetting using humidity control. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 613, 126097.	4.7	7
14	Inflight Polymerase Chain Reaction of samples with drones. Analytical Biochemistry, 2021, 616, 114098.	2.4	3
15	Epitope-directed monoclonal antibody production using a mixed antigen cocktail facilitates antibody characterization and validation. Communications Biology, 2021, 4, 441.	4.4	9
16	Blood-Based Cardiac Biomarkers and the Risk of Cognitive Decline, Cerebrovascular Disease, and Clinical Events. Stroke, 2021, 52, 2275-2283.	2.0	15
17	Thermal study of polymerase chain reaction with capillary tubes. International Journal of Heat and Mass Transfer, 2021, 176, 121508.	4.8	6
18	An Augmented Reality tourniquet tightening trainer for peripheral venepuncture. Sensors and Actuators A: Physical, 2021, 332, 113202.	4.1	1

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19	Cryoprotectant-free preservation of bacteria using semi-spherical drops. <i>Cryobiology</i> , 2021, 104, 98-98.	0.7	1
20	Growth measurement of surface colonies of bacteria using augmented reality. <i>Journal of Biological Education</i> , 2020, 54, 419-432.	1.5	10
21	Midâ€œregional proâ€œadrenomedullin outperforms Nâ€œterminal proâ€œBâ€œtype 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.	7.1	11
22	Cryopreservation without dry ice-induced acidification during sample transport. <i>Analytical Biochemistry</i> , 2020, 608, 113906.	2.4	8
23	Polymerase chain reaction thermal cycling using the programmed tilt displacements of capillary tubes. <i>Review of Scientific Instruments</i> , 2020, 91, 104105.	1.3	5
24	Cardiac and renal biomarkers in recreational runners following a 21â€œ%km treadmill run. <i>Clinical Cardiology</i> , 2020, 43, 1443-1449.	1.8	3
25	Volume and rate measurement of slowly generated gas bubbles. <i>Flow Measurement and Instrumentation</i> , 2020, 72, 101694.	2.0	3
26	Liquid marble particle wetting separation. <i>Colloids and Interface Science Communications</i> , 2020, 35, 100237.	4.1	3
27	Syringe infusion pump with absolute piston displacement control. <i>Review of Scientific Instruments</i> , 2019, 90, 076108.	1.3	11
28	Living specimens under field immobilization and smartphone microscopic observation. <i>Microscopy Research and Technique</i> , 2019, 82, 1741-1747.	2.2	1
29	Behaviour of sessile drops revealed in â€œcar crashâ€œ™ like impact. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 579, 123661.	4.7	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.	7.3	6
31	Combining Circulating MicroRNA andÂ€NT-proBNP to Detect and CategorizeÂ€Heart Failure Subtypes. <i>Journal of the American College of Cardiology</i> , 2019, 73, 1300-1313.	2.8	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.	4.1	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.	1.2	22
34	Developing and Demonstrating an Augmented Reality Colorimetric Titration Tool. <i>Journal of Chemical Education</i> , 2018, 95, 393-399.	2.3	61
35	Monoclonal Antibodies against Specific p53 Hotspot Mutants as Potential Tools for Precision Medicine. <i>Cell Reports</i> , 2018, 22, 299-312.	6.4	34
36	Drone inflight mixing of biochemical samples. <i>Analytical Biochemistry</i> , 2018, 545, 1-3.	2.4	16

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37	Note: Biochemical samples centrifuged in-flight on drones. Review of Scientific Instruments, 2018, 89, 106102.	1.3	4
38	Simultaneous Multidrop Creation with Superhydrophobic Wells for Field Environmental Sensing of Nanoparticles. ACS Omega, 2018, 3, 9310-9317.	3.5	2
39	Variability in Microplate Surface Properties and Its Impact on ELISA. Journal of applied laboratory medicine, The, 2018, 2, 687-699.	1.3	10
40	Sensor and actuator simulation training system for en-route intravenous procedure. Sensors and Actuators A: Physical, 2018, 279, 680-687.	4.1	2
41	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
42	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
43	A superhydrophobic manhole for drops. Journal of Materials Chemistry A, 2017, 5, 914-918.	10.3	16
44	Drops on a Superhydrophobic Hole Hanging On under Evaporation. ACS Omega, 2017, 2, 6211-6222.	3.5	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. European Journal of Heart Failure, 2017, 19, 1638-1647.	7.1	74
46	Millimeter-Sized Hole Damming. Langmuir, 2017, 33, 13892-13898.	3.5	1
47	Superior performance of N-terminus pro brain natriuretic peptide for diagnosis of acute decompensated heart failure in an Asian compared with a Western setting. European Journal of Heart Failure, 2017, 19, 209-217.	7.1	32
48	Ankyrin Repeat Domain 1 Protein: A Functionally Pleiotropic Protein with Cardiac Biomarker Potential. International Journal of Molecular Sciences, 2017, 18, 1362.	4.1	49
49	Overview of MicroRNAs in Cardiac Hypertrophy, Fibrosis, and Apoptosis. International Journal of Molecular Sciences, 2016, 17, 749.	4.1	108
50	MicroRNA and Heart Failure. International Journal of Molecular Sciences, 2016, 17, 502.	4.1	98
51	Versatile wetting measurement of microplate wells. Review of Scientific Instruments, 2016, 87, 115107.	1.3	1
52	Growth differentiation factor-15 and white matter hyperintensities in cognitive impairment and dementia. Medicine (United States), 2016, 95, e4566.	1.0	46
53	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
54	Stabilized dried blood spot collection. Analytical Biochemistry, 2016, 506, 28-30.	2.4	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.	3.2	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.	7.1	128
57	Uphill airflow transport of drops on superhydrophobic inclines. <i>Colloids and Interface Science Communications</i> , 2015, 6, 1-4.	4.1	6
58	Liquid-body resonance while contacting a rotating superhydrophobic surface. <i>European Physical Journal E</i> , 2015, 38, 119.	1.6	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.	1.9	39
60	Drop transfer between superhydrophobic wells using air logic control. <i>Lab on A Chip</i> , 2015, 15, 991-995.	6.0	18
61	Concentrating nanoparticles in environmental monitoring. <i>Environmental Toxicology and Pharmacology</i> , 2015, 40, 187-190.	4.0	6
62	Natriuretic peptide receptor 3 (NPR3) is regulated by microRNA-100. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 82, 13-21.	1.9	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.	4.7	5
64	Controlled transport of captive bubbles on plastrons. <i>Soft Matter</i> , 2015, 11, 7474-7477.	2.7	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.	2.8	8
66	Hydrophobic to superhydrophobic surface modification using impacting particulate sprays. <i>Applied Surface Science</i> , 2014, 311, 89-94.	6.1	8
67	Scribed transparency microplates mounted on a modified standard microplate. <i>Analytical Biochemistry</i> , 2014, 458, 40-42.	2.4	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.	1.4	11
69	Squeezed flow preconcentration for probe tip biosensors. <i>Analytical Biochemistry</i> , 2014, 444, 57-59.	2.4	6
70	Transparency microplates under impact. <i>Journal of Colloid and Interface Science</i> , 2014, 426, 56-63.	9.4	7
71	Surface-Scribed Transparency-Based Microplates. <i>Langmuir</i> , 2013, 29, 849-855.	3.5	22
72	Microplates based on liquid bridges between glass rods. <i>Journal of Colloid and Interface Science</i> , 2013, 397, 177-184.	9.4	11

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73	Precise drop dispensation on superhydrophobic surfaces using acoustic nebulization. <i>Soft Matter</i> , 2013, 9, 3631.	2.7	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.	4.7	12
75	MRT letter: Micro to nanoscale sample collection for high throughput microscopy. <i>Microscopy Research and Technique</i> , 2013, 76, 767-773.	2.2	5
76	Optical stirring in a droplet cell bioreactor. <i>Biomedical Optics Express</i> , 2012, 3, 2465.	2.9	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.	6.4	67
78	Evaporative preconcentration and cryopreservation of fluorescent analytes using superhydrophobic surfaces. <i>Soft Matter</i> , 2012, 8, 3563.	2.7	21
79	Microplate well coverage mixing using superhydrophobic contact. <i>Analytical Biochemistry</i> , 2012, 430, 53-55.	2.4	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.	2.3	3
81	Transparency-based microplates for fluorescence quantification. <i>Analytical Biochemistry</i> , 2012, 422, 39-45.	2.4	18
82	Surface tension drawing of liquid from microplate capillary wells. <i>Journal of Colloid and Interface Science</i> , 2012, 365, 314-319.	9.4	12
83	Using the Meniscus in a Capillary for Small Volume Contact Angle Measurement in Biochemical Applications. <i>Langmuir</i> , 2011, 27, 11925-11929.	3.5	28
84	Evaporative Preconcentration of Fluorescent Protein Samples in Capillary Based Microplates. <i>Journal of Fluorescence</i> , 2011, 21, 1835-1839.	2.5	15
85	A capacity for mixing in capillary wells for microplates. <i>Analytical Biochemistry</i> , 2011, 410, 152-154.	2.4	21
86	Point spread function effect in image-based fluorescent microplate detection. <i>Analytical Biochemistry</i> , 2010, 397, 256-258.	2.4	19
87	Liquid filling in standard circular well microplates. <i>Journal of Applied Physics</i> , 2010, 108, 124701.	2.5	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.	1.3	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.	2.4	5
92	Filterless Fluorometry with Enhanced Sensitivity. <i>Journal of Fluorescence</i> , 2009, 19, 375-379.	2.5	6
93	Novel non-peptide β -secretase inhibitors derived from structure-based virtual screening and bioassay. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3188-3192.	2.2	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.	3.4	45
95	Signature Optical Cues: Emerging Technologies for Monitoring Plant Health. <i>Sensors</i> , 2008, 8, 3205-3239.	3.8	80
96	An SRLLR motif downstream of the scissile bond enhances enterokinase cleavage efficiency. <i>Biochimie</i> , 2007, 89, 21-29.	2.6	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.	1.8	20
99	Binding interaction of quercetin-3- β -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
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.	3.8	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.	1.3	57
103	Expressing an antibacterial protein in bacteria for raising antibodies. <i>Protein Expression and Purification</i> , 2004, 33, 153-159.	1.3	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