

Weng Kung Peng

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

926
citations

567144

15
h-index

580701

25
g-index

29
all docs

29
docs citations

29
times ranked

1076
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscale electro dialysis: Concentration profiling and vortex visualization. <i>Desalination</i> , 2013, 308, 138-146.	4.0	166
2	Micromagnetic resonance relaxometry for rapid label-free malaria diagnosis. <i>Nature Medicine</i> , 2014, 20, 1069-1073.	15.2	111
3	Rapid Prototyping of Concave Microwells for the Formation of 3D Multicellular Cancer Aggregates for Drug Screening. <i>Advanced Healthcare Materials</i> , 2014, 3, 609-616.	3.9	77
4	Engineering of 2D transition metal carbides and nitrides MXenes for cancer therapeutics and diagnostics. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4990-5013.	2.9	76
5	Enhancing malaria diagnosis through microfluidic cell enrichment and magnetic resonance relaxometry detection. <i>Scientific Reports</i> , 2015, 5, 11425.	1.6	63
6	Adhesive-based liquid metal radio-frequency microcoil for magnetic resonance relaxometry measurement. <i>Lab on A Chip</i> , 2012, 12, 287-294.	3.1	44
7	Direct In Vivo Electrochemical Detection of Haemoglobin in Red Blood Cells. <i>Scientific Reports</i> , 2014, 4, 6209.	1.6	44
8	Development of miniaturized, portable magnetic resonance relaxometry system for point-of-care medical diagnosis. <i>Review of Scientific Instruments</i> , 2012, 83, 095115.	0.6	37
9	Micro- and nanofabrication NMR technologies for point-of-care medical applications – A review. <i>Microelectronic Engineering</i> , 2019, 209, 66-74.	1.1	36
10	A new technique for cross polarization in solid-state NMR compatible with high spinning frequencies and high magnetic fields. <i>Chemical Physics Letters</i> , 2006, 417, 58-62.	1.2	27
11	Machine learning assistive rapid, label-free molecular phenotyping of blood with two-dimensional NMR correlational spectroscopy. <i>Communications Biology</i> , 2020, 3, 535.	2.0	26
12	Real-time control of a microfluidic channel for size-independent deformability cytometry. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 105037.	1.5	22
13	Haemoglobin electrochemical detection on various reduced graphene surfaces: well-defined glassy carbon electrode outperforms the graphenoids. <i>RSC Advances</i> , 2014, 4, 8050.	1.7	19
14	Efficient cross polarization with simultaneous adiabatic frequency sweep on the source and target channels. <i>Journal of Magnetic Resonance</i> , 2007, 188, 267-274.	1.2	18
15	Molecular phenotyping of oxidative stress in diabetes mellitus with point-of-care NMR system. <i>Npj Aging and Mechanisms of Disease</i> , 2020, 6, 11.	4.5	18
16	Simultaneous adiabatic spin-locking cross polarization in solid-state NMR of paramagnetic complexes. <i>Chemical Physics Letters</i> , 2008, 460, 531-535.	1.2	17
17	Reply to "Considerations regarding the micromagnetic resonance relaxometry technique for rapid label-free malaria diagnosis". <i>Nature Medicine</i> , 2015, 21, 1387-1389.	15.2	17
18	Rapid phenotyping towards personalized malaria medicine. <i>Malaria Journal</i> , 2020, 19, 68.	0.8	17

#	ARTICLE	IF	CITATIONS
19	Omics Meeting Omics: Towards the Next Generation of Spectroscopic-Based Technologies in Personalized Medicine. <i>Journal of Personalized Medicine</i> , 2019, 9, 39.	1.1	16
20	Application of smoothed continuous labile haemoglobin A1c reference intervals for identification of potentially spurious HbA1c results. <i>Journal of Clinical Pathology</i> , 2014, 67, 712-716.	1.0	14
21	Review of Microdevices for Hemozoin-Based Malaria Detection. <i>Biosensors</i> , 2022, 12, 110.	2.3	14
22	Clustering Nuclear Magnetic Resonance: Machine learning assistive rapid two-dimensional relaxometry mapping. <i>Engineering Reports</i> , 2021, 3, e12383.	0.9	13
23	Multi-Omics Advancements towards Plasmodium vivax Malaria Diagnosis. <i>Diagnostics</i> , 2021, 11, 2222.	1.3	12
24	Perspective: Cellular and Molecular Profiling Technologies in Personalized Oncology. <i>Journal of Personalized Medicine</i> , 2019, 9, 44.	1.1	9
25	Highly Integrated, Low Cost, Palm-Top Sized Magnetic Resonance Relaxometry System for Rapid Blood Screening. <i>IFMBE Proceedings</i> , 2014, , 558-561.	0.2	1
26	Lab-on-a-chip technologies for minimally invasive molecular sensing of diabetic retinopathy. <i>Lab on A Chip</i> , 2022, , .	3.1	0