Patrick C Mathias

List of Publications by Year
in descending order

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54	2,302	304743	223800
papers	citations	22	46
		h-index	g-index

62	62	62	4226
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Listening to your mass spectrometer: An open-source toolkit to visualize mass spectrometer data. Journal of Mass Spectrometry and Advances in the Clinical Lab, 2022, 23, 44-49.	2.4	3
2	The SARS-CoV-2 Omicron Variant Does Not Have Higher Nasal Viral Loads Compared to the Delta Variant in Symptomatic and Asymptomatic Individuals. Journal of Clinical Microbiology, 2022, 60, e0013922.	3.9	28
3	Hostâ€“pathogen dynamics in longitudinal clinical specimens from patients with COVID-19. Scientific Reports, 2022, 12, 5856.	3.3	3
4	Implementation of pharmacogenomic clinical decision support for health systems: a cost-utility analysis. Pharmacogenomics Journal, 2022, 22, 188-197.	2.0	4
5	Associations Between Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Variants and Risk of Coronavirus Disease 2019 (COVID-19) Hospitalization Among Confirmed Cases in Washington State: A Retrospective Cohort Study. Clinical Infectious Diseases, 2022, 75, e536-e544.	5.8	38
6	Elevated White Blood Cell Count Does Not Predict Clostridium difficile Nucleic Acid Testing Results. Clinical Infectious Diseases, 2021, 73, 699-705.	5.8	34
7	Hospitalization and mortality associated with SARS-CoV-2 viral clades in COVID-19. Scientific Reports, 2021, 11, 4802.	3.3	55
8	Specific allelic discrimination of N501Y and other SARSâ€CoVâ€2 mutations by ddPCR detects B.1.1.7 lineage in Washington State. Journal of Medical Virology, 2021, 93, 5931-5941.	5.0	31
9	The Lines That Held Us: Assessing Racial and Socioeconomic Disparities in SARS-CoV-2 Testing. journal of applied laboratory medicine, The, 2021, 6, 1143-1154.	1.3	6
10	Estimating the False-Positive Rate of Highly Automated SARS-CoV-2 Nucleic Acid Amplification Testing. Journal of Clinical Microbiology, 2021, 59, e0108021.	3.9	12
11	High Clinical Impact of Broad-Range Fungal PCR in Suspected Fungal Sinusitis. Journal of Clinical Microbiology, 2021, 59, e0095521.	3.9	17
12	Calculating estimated glomerular filtration rate without the race correction factor: Observations at a large academic medical system. Clinica Chimica Acta, 2021, 520, 16-22.	1.1	15
13	Evaluation of Patient Demographics in Clinical Cancer Genomic Testing. journal of applied laboratory medicine, The, 2021, 6, 119-124.	1.3	1
14	Pooling of SARS-CoV-2 samples to increase molecular testing throughput. Journal of Clinical Virology, 2020, 131, 104570.	3.1	51
15	Performance Characteristics of the Abbott Architect SARS-CoV-2 IgG Assay and Seroprevalence in Boise, Idaho. Journal of Clinical Microbiology, 2020, 58, .	3.9	496
16	Preprocedural Surveillance Testing for SARS-CoV-2 in an Asymptomatic Population in the Seattle Region Shows Low Rates of Positivity. Journal of Clinical Microbiology, 2020, 58, .	3.9	6
17	Detection of SARS-CoV-2 by bronchoscopy after negative nasopharyngeal testing: Stay vigilant for COVID-19. Respiratory Medicine Case Reports, 2020, 30, 101120.	0.4	24
18	Responding to COVID-19: The UW Medicine Information Technology Services Experience. Applied Clinical Informatics, 2020, 11, 265-275.	1.7	120

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19	SARS-CoV-2 Viral Load on Admission Is Associated With 30-Day Mortality. Open Forum Infectious Diseases, 2020, 7, ofaa535.	0.9	31
20	Measuring the rate of manual transcription error in outpatient point-of-care testing. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 269-272.	4.4	28
21	Robustness of the Beckman Coulter Access TSH (3rd IS) assay. Clinica Chimica Acta, 2018, 480, 112-113.	1.1	1
22	Development of a Workload Report to Optimize Staffing in a Transfusion Services Laboratory. American Journal of Clinical Pathology, 2018, 150, S144-S144.	0.7	1
23	Evidence-Based Validation of Hemolysis Index Thresholds by Use of Retrospective Clinical Data. journal of applied laboratory medicine, The, 2018, 3, 109-114.	1.3	7
24	Establishing evidence-based thresholds and laboratory practices to reduce inappropriate treatment of pseudohyperkalemia. Clinical Biochemistry, 2017, 50, 663-669.	1.9	36
25	Laboratory Utilization and Analytical Validation of Fecal Electrolyte Tests. journal of applied laboratory medicine, The, 2017, 1, 668-677.	1.3	2
26	Applying Ancestry and Sex Computation as a Quality Control Tool in Targeted Next-Generation Sequencing. American Journal of Clinical Pathology, 2016, 145, 308-315.	0.7	9
27	Preventing Genetic Testing Order Errors With a Laboratory Utilization Management Program. American Journal of Clinical Pathology, 2016, 146, 221-226.	0.7	21
28	A Tincture of Timeâ€"Latent Crystal Formation and Clinical Decision-Making in Acute Gout. JAMA Internal Medicine, 2016, 176, 165.	5.1	2
29	Modeling the costs of clinical decision support for genomic precision medicine. AMIA Summits on Translational Science Proceedings, 2016, 2016, 60-4.	0.4	5
30	Evaluation of matrix effects using a spike recovery approach in a dilute-and-inject liquid chromatographyâ€"tandem mass spectrometry opioid monitoring assay. Clinica Chimica Acta, 2014, 437, 38-42.	1.1	17
31	PHOTONIC CRYSTALS FOR BIOSENSING. , 2011, , 329-358.		0
32	Improved Sensitivity of DNA Microarrays Using Photonic Crystal Enhanced Fluorescence. Analytical Chemistry, 2010, 82, 6854-6861.	6.5	49
33	Vaporâ€Phase Deposition of Monofunctional Alkoxysilanes for Subâ€Nanometerâ€Level Biointerfacing on Silicon Oxide Surfaces. Advanced Functional Materials, 2010, 20, 87-95.	14.9	39
34	Comparison of label-free biosensing in microplate, microfluidic, and spot-based affinity capture assays. Analytical Biochemistry, 2010, 405, 1-10.	2.4	37
35	Deposited nanorod films for photonic crystal biosensor applications. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 996-1001.	2.1	13
36	Magnification of photonic crystal fluorescence enhancement via TM resonance excitation and TE resonance extraction on a dielectric nanorod surface. Nanotechnology, 2010, 21, 125203.	2.6	20

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37	Label-Free Prehybridization DNA Microarray Imaging Using Photonic Crystals for Quantitative Spot Quality Analysis. Analytical Chemistry, 2010, 82, 8551-8557.	6.5	31
38	Photonic crystal enhanced cytokine immunoassay. , 2009, 2009, 1036-8.		0
39	Employing two distinct photonic crystal resonances to improve fluorescence enhancement. Applied Physics Letters, 2009, 95, 21111.	3.3	43
40	A detection instrument for enhanced-fluorescence and label-free imaging on photonic crystal surfaces. Optics Express, 2009, 17, 13222.	3.4	65
41	Optimizing the spatial resolution of photonic crystal label-free imaging. Applied Optics, 2009, 48, 6567.	2.1	22
42	Enhanced Fluorescence on a Photonic Crystal Surface Incorporating Nanorod Structures. Small, 2008, 4, 2199-2203.	10.0	51
43	Leaky-mode assisted fluorescence extraction: application to fluorescence enhancement biosensors. Optics Express, 2008, 16, 21626.	3.4	96
44	Design and development of enhanced extraction biosensors based on photonic crystal slabs. , 2008, , .		0
45	Application of Photonic Crystal Enhanced Fluorescence to a Cytokine Immunoassay. Analytical Chemistry, 2008, 80, 9013-9020.	6.5	85
46	Graded wavelength one-dimensional photonic crystal reveals spectral characteristics of enhanced fluorescence. Journal of Applied Physics, 2008, 103, 094320.	2.5	28
47	Distance dependence of fluorescence enhancement from photonic crystal surfaces. Journal of Applied Physics, 2008, 103, 083104.	2.5	44
48	Enhanced fluorescence via photonic crystal slabs incorporating nanorod structures. , 2008, , .		0
49	Photonic crystals: A platform for label-free and enhanced fluorescence biomolecular and cellular assays. Materials Research Society Symposia Proceedings, 2008, 1133, 1.	0.1	0
50	Distance dependant amplification of molecular fluorescence via photonic crystal slabs. , 2008, , .		0
51	Combined enhanced fluorescence and label-free biomolecular detection with a photonic crystal surface. Applied Optics, 2007, 46, 2351.	2.1	52
52	Combined Enhanced Fluorescence and Label-Free Biomolecular Sensing with a Two-Dimensional Photonic Crystal. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	2
53	Enhanced fluorescence emission from quantum dots on a photonic crystal surface. Nature Nanotechnology, 2007, 2, 515-520.	31.5	430
54	Self-Associating Block Copolymer Networks for Microchip Electrophoresis Provide Enhanced DNA Separation via â€œInchwormâ€•Chain Dynamics. Analytical Chemistry, 2006, 78, 4409-4415.	6.5	22