

Valerie Taly

List of Publications by Year in descending order

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98
papers

8,030
citations

61945

43
h-index

49868

87
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108
all docs

108
docs citations

108
times ranked

10269
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescence-activated droplet sorting (FADS): efficient microfluidic cell sorting based on enzymatic activity. Lab on A Chip, 2009, 9, 1850.	3.1	784
2	Quantitative and sensitive detection of rare mutations using droplet-based microfluidics. Lab on A Chip, 2011, 11, 2156.	3.1	461
3	Multiplex Picodroplet Digital PCR to Detect KRAS Mutations in Circulating DNA from the Plasma of Colorectal Cancer Patients. Clinical Chemistry, 2013, 59, 1722-1731.	1.5	429
4	Multiplex digital PCR: breaking the one target per color barrier of quantitative PCR. Lab on A Chip, 2011, 11, 2167.	3.1	267
5	The Digital MIQE Guidelines Update: Minimum Information for Publication of Quantitative Digital PCR Experiments for 2020. Clinical Chemistry, 2020, 66, 1012-1029.	1.5	247
6	Droplet-Based Microfluidic Systems for High-Throughput Single DNA Molecule Isothermal Amplification and Analysis. Analytical Chemistry, 2009, 81, 4813-4821.	3.2	235
7	<i>BRAF</i> Mutation Correlates With High-Risk Langerhans Cell Histiocytosis and Increased Resistance to First-Line Therapy. Journal of Clinical Oncology, 2016, 34, 3023-3030.	0.8	233
8	Association of both Langerhans cell histiocytosis and Erdheim-Chester disease linked to the BRAFV600E mutation. Blood, 2014, 124, 1119-1126.	0.6	208
9	Plasma Circulating Tumor DNA in Pancreatic Cancer Patients Is a Prognostic Marker. Clinical Cancer Research, 2017, 23, 116-123.	3.2	205
10	High-Throughput Screening of Enzyme Libraries: In Vitro Evolution of a β -Galactosidase by Fluorescence-Activated Sorting of Double Emulsions. Chemistry and Biology, 2005, 12, 1291-1300.	6.2	198
11	Recurrent RAS and PIK3CA mutations in Erdheim-Chester disease. Blood, 2014, 124, 3016-3019.	0.6	197
12	Directed evolution by in vitro compartmentalization. Nature Methods, 2006, 3, 561-570.	9.0	196
13	Early Evaluation of Circulating Tumor DNA as Marker of Therapeutic Efficacy in Metastatic Colorectal Cancer Patients (PLACOL Study). Clinical Cancer Research, 2017, 23, 5416-5425.	3.2	189
14	Liquid Biopsy: General Concepts. Acta Cytologica, 2019, 63, 449-455.	0.7	186
15	Multi-step microfluidic droplet processing: kinetic analysis of an in vitro translated enzyme. Lab on A Chip, 2009, 9, 2902.	3.1	182
16	Miniaturizing chemistry and biology in microdroplets. Chemical Communications, 2007, , 1773.	2.2	165
17	Droplet-based digital PCR and next generation sequencing for monitoring circulating tumor DNA: a cancer diagnostic perspective. Expert Review of Molecular Diagnostics, 2018, 18, 7-17.	1.5	165
18	Advances in multiplexed techniques for the detection and quantification of microRNAs. Chemical Society Reviews, 2021, 50, 4141-4161.	18.7	158

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19	Clinical Relevance of <i>KRAS</i> -Mutated Subclones Detected with Picodroplet Digital PCR in Advanced Colorectal Cancer Treated with Anti-EGFR Therapy. <i>Clinical Cancer Research</i> , 2015, 21, 1087-1097.	3.2	137
20	RAS mutation analysis in circulating tumor DNA from patients with metastatic colorectal cancer: the AGEO RASANC prospective multicenter study. <i>Annals of Oncology</i> , 2018, 29, 1211-1219.	0.6	136
21	Droplets as Microreactors for High-Throughput Biology. <i>ChemBioChem</i> , 2007, 8, 263-272.	1.3	134
22	Dynamics of molecular transport by surfactants in emulsions. <i>Soft Matter</i> , 2012, 8, 10618.	1.2	133
23	Vemurafenib for Refractory Multisystem Langerhans Cell Histiocytosis in Children: An International Observational Study. <i>Journal of Clinical Oncology</i> , 2019, 37, 2857-2865.	0.8	132
24	Germline and somatic mutations in the <i>MTOR</i> gene in focal cortical dysplasia and epilepsy. <i>Neurology: Genetics</i> , 2016, 2, e118.	0.9	125
25	A Study of Hypermethylated Circulating Tumor DNA as a Universal Colorectal Cancer Biomarker. <i>Clinical Chemistry</i> , 2016, 62, 1129-1139.	1.5	111
26	Multiplex Picoliter-Droplet Digital PCR for Quantitative Assessment of DNA Integrity in Clinical Samples. <i>Clinical Chemistry</i> , 2013, 59, 815-823.	1.5	98
27	Functional evidence for derivation of systemic histiocytic neoplasms from hematopoietic stem/progenitor cells. <i>Blood</i> , 2017, 130, 176-180.	0.6	98
28	High-resolution mapping of bifurcations in nonlinear biochemical circuits. <i>Nature Chemistry</i> , 2016, 8, 760-767.	6.6	94
29	Phenotypes and survival in Erdheim-Chester disease: Results from a 165-patient cohort. <i>American Journal of Hematology</i> , 2018, 93, E114-E117.	2.0	94
30	Detecting biomarkers with microdroplet technology. <i>Trends in Molecular Medicine</i> , 2012, 18, 405-416.	3.5	93
31	Highly Sensitive Quantification of Plasma Severe Acute Respiratory Syndrome Coronavirus 2 RNA Sheds Light on its Potential Clinical Value. <i>Clinical Infectious Diseases</i> , 2021, 73, e2890-e2897.	2.9	92
32	Droplet-Based Digital PCR. <i>Advances in Clinical Chemistry</i> , 2017, 79, 43-91.	1.8	87
33	Multiplex Detection of Rare Mutations by Picoliter Droplet Based Digital PCR: Sensitivity and Specificity Considerations. <i>PLoS ONE</i> , 2016, 11, e0159094.	1.1	78
34	Base-Position Error Rate Analysis of Next-Generation Sequencing Applied to Circulating Tumor DNA in Non-Small Cell Lung Cancer: A Prospective Study. <i>PLoS Medicine</i> , 2016, 13, e1002199.	3.9	76
35	Isothermal digital detection of microRNAs using background-free molecular circuit. <i>Science Advances</i> , 2020, 6, eaay5952.	4.7	71
36	Analysis of Base-Position Error Rate of Next-Generation Sequencing to Detect Tumor Mutations in Circulating DNA. <i>Clinical Chemistry</i> , 2016, 62, 1492-1503.	1.5	68

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37	HPV circulating tumoral DNA quantification by droplet-based digital PCR: A promising predictive and prognostic biomarker for HPV-associated oropharyngeal cancers. <i>International Journal of Cancer</i> , 2020, 147, 1222-1227.	2.3	65
38	CotA laccase: high-throughput manipulation and analysis of recombinant enzyme libraries expressed in <i>E. coli</i> using droplet-based microfluidics. <i>Analyst</i> , 2014, 139, 3314-3323.	1.7	64
39	Membraneless glucose/O ₂ microfluidic biofuel cells using covalently bound enzymes. <i>Chemical Communications</i> , 2013, 49, 1094.	2.2	58
40	Circulating cell-free BRAF ^{V600E} as a biomarker in children with Langerhans cell histiocytosis. <i>British Journal of Haematology</i> , 2017, 178, 457-467.	1.2	57
41	Incidence and risk factors for clinical neurodegenerative Langerhans cell histiocytosis: a longitudinal cohort study. <i>British Journal of Haematology</i> , 2018, 183, 608-617.	1.2	54
42	Assessment of Digital PCR as a Primary Reference Measurement Procedure to Support Advances in Precision Medicine. <i>Clinical Chemistry</i> , 2018, 64, 1296-1307.	1.5	50
43	High-throughput multiplexed fluorescence-activated droplet sorting. <i>Microsystems and Nanoengineering</i> , 2018, 4, 33.	3.4	48
44	Emerging isothermal amplification technologies for microRNA biosensing: Applications to liquid biopsies. <i>Molecular Aspects of Medicine</i> , 2020, 72, 100832.	2.7	48
45	Parallelized ultra-high throughput microfluidic emulsifier for multiplex kinetic assays. <i>Biomicrofluidics</i> , 2015, 9, 034101.	1.2	46
46	Assessment of DNA Integrity, Applications for Cancer Research. <i>Advances in Clinical Chemistry</i> , 2015, 70, 197-246.	1.8	45
47	High throughput single cell counting in droplet-based microfluidics. <i>Scientific Reports</i> , 2017, 7, 1366.	1.6	45
48	BRAF V600E mutation detected in a case of Rosai-Dorfman disease. <i>Haematologica</i> , 2018, 103, e377-e379.	1.7	45
49	Prognostic Value and Relation with Adjuvant Treatment Duration of ctDNA in Stage III Colon Cancer: a Post Hoc Analysis of the PRODIGE-GERCOR IDEA-France Trial. <i>Clinical Cancer Research</i> , 2021, 27, 5638-5646.	3.2	42
50	Immobilization of CotA, an extremophilic laccase from <i>Bacillus subtilis</i> , on glassy carbon electrodes for biofuel cell applications. <i>Electrochemistry Communications</i> , 2011, 13, 24-27.	2.3	39
51	Massively parallel and multiparameter titration of biochemical assays with droplet microfluidics. <i>Nature Protocols</i> , 2017, 12, 1912-1932.	5.5	39
52	Mutation and Methylation Analysis of Circulating Tumor DNA Can Be Used for Follow-up of Metastatic Colorectal Cancer Patients. <i>Clinical Colorectal Cancer</i> , 2018, 17, e369-e379.	1.0	39
53	Microfluidic extraction and digital quantification of circulating cell-free DNA from serum. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 533-539.	4.0	39
54	Detection of Brain Somatic Mutations in Cerebrospinal Fluid from Refractory Epilepsy Patients. <i>Annals of Neurology</i> , 2021, 89, 1248-1252.	2.8	37

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55	Variations of BRAF mutant allele percentage in melanomas. <i>BMC Cancer</i> , 2015, 15, 497.	1.1	36
56	BIABooster: Online DNA Concentration and Size Profiling with a Limit of Detection of 10 fg/µL and Application to High-Sensitivity Characterization of Circulating Cell-Free DNA. <i>Analytical Chemistry</i> , 2018, 90, 3766-3774.	3.2	33
57	From Toxins Targeting Ligand Gated Ion Channels to Therapeutic Molecules. <i>Toxins</i> , 2011, 3, 260-293.	1.5	27
58	Microfluidics as a Strategic Player to Decipher Single-Cell Omics?. <i>Trends in Biotechnology</i> , 2017, 35, 713-727.	4.9	27
59	Highly sensitive methods are required to detect mutations in histiocytoses. <i>Haematologica</i> , 2019, 104, e97-e99.	1.7	27
60	The Thermophilic CotA Laccase from <i>Bacillus subtilis</i> : Bioelectrocatalytic Evaluation of O ₂ Reduction in the Direct and Mediated Electron Transfer Regime. <i>Electroanalysis</i> , 2011, 23, 1781-1789.	1.5	26
61	Plasma clearance of <i>RAS</i> mutation under therapeutic pressure is a rare event in metastatic colorectal cancer. <i>International Journal of Cancer</i> , 2020, 147, 1185-1189.	2.3	26
62	A combinatorial approach to substrate discrimination in the P450 CYP1A subfamily. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 446-457.	1.1	24
63	Circulating tumor DNA is a prognostic marker of tumor recurrence in stage II and III colorectal cancer: multicentric, prospective cohort study (ALGECOLS). <i>European Journal of Cancer</i> , 2021, 159, 24-33.	1.3	24
64	Beyond the on/off chip trade-off: A reversibly sealed microfluidic platform for 3D tumor microtissue analysis. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 393-401.	4.0	22
65	BRAF Mutation Status in Circulating Tumor DNA from Patients with Metastatic Colorectal Cancer: Extended Mutation Analysis from the AGEORASANC Study. <i>Cancers</i> , 2019, 11, 998.	1.7	22
66	Decision for adjuvant treatment in stage II colon cancer based on circulating tumor DNA: The CIRCULATE-PRODIGE 70 trial. <i>Digestive and Liver Disease</i> , 2020, 52, 730-733.	0.4	18
67	Why and how immunohistochemistry should now be used to screen for the BRAFV600E status in metastatic melanoma? The experience of a single institution (LCEP, Nice, France). <i>Journal of the European Academy of Dermatology and Venereology</i> , 2015, 29, 2436-2443.	1.3	16
68	Usefulness of Plasma SARS-CoV-2 RNA Quantification by Droplet-based Digital PCR to Monitor Treatment Against COVID-19 in a B-cell Lymphoma Patient. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 296-299.	1.7	16
69	Circulating Tumor DNA Measurement by Picoliter Droplet-Based Digital PCR and Vemurafenib Plasma Concentrations in Patients with Advanced BRAF-Mutated Melanoma. <i>Targeted Oncology</i> , 2017, 12, 365-371.	1.7	15
70	Prognostic value of circulating tumour DNA in metastatic pancreatic cancer patients: post-hoc analyses of two clinical trials. <i>British Journal of Cancer</i> , 2022, 126, 440-448.	2.9	15
71	The microfluidic puzzle: chip-oriented rapid prototyping. <i>Lab on A Chip</i> , 2014, 14, 1669-1672.	3.1	14
72	Role of circulating tumor DNA in the management of patients with colorectal cancer. <i>Clinics and Research in Hepatology and Gastroenterology</i> , 2018, 42, 396-402.	0.7	14

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73	Streamlined digital bioassays with a 3D printed sample changer. <i>Analyst, The</i> , 2020, 145, 572-581.	1.7	13
74	Frontiers in single cell analysis: multimodal technologies and their clinical perspectives. <i>Lab on A Chip</i> , 2022, 22, 2403-2422.	3.1	13
75	Tunable and Reversible Gelatin-Based Bonding for Microfluidic Cell Culture. <i>Advanced Engineering Materials</i> , 2019, 21, 1900145.	1.6	12
76	Technological Advances in Tumor-On-Chip Technology: From Bench to Bedside. <i>Cancers</i> , 2021, 13, 4192.	1.7	12
77	Mechanical Characterization of Cells and Microspheres Sorted by Acoustophoresis with In-Line Resistive Pulse Sensing. <i>Physical Review Applied</i> , 2020, 13, .	1.5	11
78	High-throughput formation and control of monodisperse liquid crystals droplets driven by an alternating current electric field in a microfluidic device. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	10
79	Plasma circulating tumor DNA in pancreatic adenocarcinoma for screening, diagnosis, prognosis, treatment and follow-up: A systematic review. <i>Cancer Treatment Reviews</i> , 2020, 87, 102028.	3.4	9
80	Droplet-Based Microfluidics Digital PCR for the Detection of KRAS Mutations. <i>Methods in Molecular Biology</i> , 2017, 1547, 143-164.	0.4	8
81	Role of Circulating Tumor DNA in Gastrointestinal Cancers: Current Knowledge and Perspectives. <i>Cancers</i> , 2021, 13, 4743.	1.7	8
82	Gelatin-Coated Microfluidic Channels for 3D Microtissue Formation: On-Chip Production and Characterization. <i>Micromachines</i> , 2019, 10, 265.	1.4	7
83	Highly Specific Droplet-Digital PCR Detection of Universally Methylated Circulating Tumor DNA in Endometrial Carcinoma. <i>Clinical Chemistry</i> , 2022, 68, 782-793.	1.5	7
84	Reply to D. Santini et al. <i>Journal of Clinical Oncology</i> , 2011, 29, e208-e209.	0.8	4
85	Real-time detection and analysis of Whispering gallery mode resonance in high-throughput flowing monodisperse microdroplets. <i>Optical Materials</i> , 2013, 36, 64-68.	1.7	4
86	Digital PCR, a technique for the future. <i>Biomolecular Detection and Quantification</i> , 2016, 10, 1.	7.0	4
87	HPV-circulating tumoural DNA by droplet-based digital polymerase chain reaction, a new molecular tool for early detection of HPV metastatic anal cancer? A case report. <i>European Journal of Cancer</i> , 2019, 112, 34-37.	1.3	4
88	Circulating tumor DNA: a help to guide therapeutic strategy in patients with borderline and locally advanced pancreatic adenocarcinoma?. <i>Digestive and Liver Disease</i> , 2022, 54, 1428-1436.	0.4	4
89	Microarray-Based Method for Combinatorial Library Sequence Mapping and Characterization. <i>BioTechniques</i> , 2003, 34, 1272-1279.	0.8	3
90	Characterization of Plasma Cell-Free DNA Integrity Using Droplet-Based Digital PCR: Toward the Development of Circulating Tumor DNA-Dedicated Assays. <i>Frontiers in Oncology</i> , 2021, 11, 639675.	1.3	3

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91	Exploration of Natural and Artificial Sequence Spaces: Towards a Functional Remodeling of Membrane-bound Cytochrome P450. <i>Biocatalysis and Biotransformation</i> , 2003, 21, 55-66.	1.1	3
92	Abstract 5235: Circulating tumor DNA as a prognostic marker in colorectal cancer: Preliminary results of a prospective trial. <i>Cancer Research</i> , 2015, 75, 5235-5235.	0.4	3
93	Methylated circulating tumor DNA (Met-DNA) as an independent prognostic factor in metastatic pancreatic adenocarcinoma (mPAC) patients.. <i>Journal of Clinical Oncology</i> , 2019, 37, 4136-4136.	0.8	3
94	Discovery and validation of a transcriptional signature identifying homologous recombination-deficient breast, endometrial and ovarian cancers. <i>British Journal of Cancer</i> , 2022, 127, 1123-1132.	2.9	3
95	Microfluidic Approaches for the Study of Emulsions: Transport of Solutes. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1530, 1.	0.1	1
96	Multiplex Detection of KRAS Mutations Using Passive Droplet Fusion. <i>Methods in Molecular Biology</i> , 2017, 1547, 133-142.	0.4	1
97	Coins in microfluidics: From mere scale objects to font of inspiration for microchannel circuits. <i>Biomicrofluidics</i> , 2019, 13, 024106.	1.2	1
98	Direct characterization of circulating DNA in blood plasma using $\hat{1}/4$ LAS technology. , 2017, , .		0