

Valerie Taly

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 papers	5,823 citations	38 h-index	75 g-index
108 ext. papers	7,025 ext. citations	6.7 avg, IF	5.57 L-index

#	Paper	IF	Citations
92	Fluorescence-activated droplet sorting (FADS): efficient microfluidic cell sorting based on enzymatic activity. <i>Lab on A Chip</i> , 2009 , 9, 1850-8	7.2	648
91	Quantitative and sensitive detection of rare mutations using droplet-based microfluidics. <i>Lab on A Chip</i> , 2011 , 11, 2156-66	7.2	389
90	Multiplex picodroplet digital PCR to detect KRAS mutations in circulating DNA from the plasma of colorectal cancer patients. <i>Clinical Chemistry</i> , 2013 , 59, 1722-31	5.5	377
89	Multiplex digital PCR: breaking the one target per color barrier of quantitative PCR. <i>Lab on A Chip</i> , 2011 , 11, 2167-74	7.2	223
88	Droplet-based microfluidic systems for high-throughput single DNA molecule isothermal amplification and analysis. <i>Analytical Chemistry</i> , 2009 , 81, 4813-21	7.8	213
87	Directed evolution by in vitro compartmentalization. <i>Nature Methods</i> , 2006 , 3, 561-70	21.6	183
86	High-throughput screening of enzyme libraries: in vitro evolution of a beta-galactosidase by fluorescence-activated sorting of double emulsions. <i>Chemistry and Biology</i> , 2005 , 12, 1291-300		168
85	Multi-step microfluidic droplet processing: kinetic analysis of an in vitro translated enzyme. <i>Lab on A Chip</i> , 2009 , 9, 2902-8	7.2	164
84	Association of both Langerhans cell histiocytosis and Erdheim-Chester disease linked to the BRAFV600E mutation. <i>Blood</i> , 2014 , 124, 1119-26	2.2	163
83	BRAF Mutation Correlates With High-Risk Langerhans Cell Histiocytosis and Increased Resistance to First-Line Therapy. <i>Journal of Clinical Oncology</i> , 2016 , 34, 3023-30	2.2	158
82	Recurrent RAS and PIK3CA mutations in Erdheim-Chester disease. <i>Blood</i> , 2014 , 124, 3016-9	2.2	157
81	Plasma Circulating Tumor DNA in Pancreatic Cancer Patients Is a Prognostic Marker. <i>Clinical Cancer Research</i> , 2017 , 23, 116-123	12.9	155
80	Miniaturizing chemistry and biology in microdroplets. <i>Chemical Communications</i> , 2007 , 1773-88	5.8	155
79	Early Evaluation of Circulating Tumor DNA as Marker of Therapeutic Efficacy in Metastatic Colorectal Cancer Patients (PLACOL Study). <i>Clinical Cancer Research</i> , 2017 , 23, 5416-5425	12.9	129
78	Clinical relevance of KRAS-mutated subclones detected with picodroplet digital PCR in advanced colorectal cancer treated with anti-EGFR therapy. <i>Clinical Cancer Research</i> , 2015 , 21, 1087-97	12.9	122
77	Droplets as microreactors for high-throughput biology. <i>ChemBioChem</i> , 2007 , 8, 263-72	3.8	122
76	Dynamics of molecular transport by surfactants in emulsions. <i>Soft Matter</i> , 2012 , 8, 10618	3.6	115

75	Droplet-based digital PCR and next generation sequencing for monitoring circulating tumor DNA: a cancer diagnostic perspective. <i>Expert Review of Molecular Diagnostics</i> , 2018 , 18, 7-17	3.8	102
74	Liquid Biopsy: General Concepts. <i>Acta Cytologica</i> , 2019 , 63, 449-455	3	89
73	A Study of Hypermethylated Circulating Tumor DNA as a Universal Colorectal Cancer Biomarker. <i>Clinical Chemistry</i> , 2016 , 62, 1129-39	5.5	85
72	The Digital MIQE Guidelines Update: Minimum Information for Publication of Quantitative Digital PCR Experiments for 2020. <i>Clinical Chemistry</i> , 2020 , 66, 1012-1029	5.5	85
71	RAS mutation analysis in circulating tumor DNA from patients with metastatic colorectal cancer: the AGE0 RASANC prospective multicenter study. <i>Annals of Oncology</i> , 2018 , 29, 1211-1219	10.3	84
70	Detecting biomarkers with microdroplet technology. <i>Trends in Molecular Medicine</i> , 2012 , 18, 405-16	11.5	83
69	Multiplex picoliter-droplet digital PCR for quantitative assessment of DNA integrity in clinical samples. <i>Clinical Chemistry</i> , 2013 , 59, 815-23	5.5	78
68	Germline and somatic mutations in the gene in focal cortical dysplasia and epilepsy. <i>Neurology: Genetics</i> , 2016 , 2, e118	3.8	76
67	Vemurafenib for Refractory Multisystem Langerhans Cell Histiocytosis in Children: An International Observational Study. <i>Journal of Clinical Oncology</i> , 2019 , 37, 2857-2865	2.2	68
66	Multiplex Detection of Rare Mutations by Picoliter Droplet Based Digital PCR: Sensitivity and Specificity Considerations. <i>PLoS ONE</i> , 2016 , 11, e0159094	3.7	64
65	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	11.6	63
64	Functional evidence for derivation of systemic histiocytic neoplasms from hematopoietic stem/progenitor cells. <i>Blood</i> , 2017 , 130, 176-180	2.2	60
63	Droplet-Based Digital PCR: Application in Cancer Research. <i>Advances in Clinical Chemistry</i> , 2017 , 79, 43-91	3.8	59
62	High-resolution mapping of bifurcations in nonlinear biochemical circuits. <i>Nature Chemistry</i> , 2016 , 8, 760-7	17.6	59
61	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	11.6	58
60	CotA laccase: high-throughput manipulation and analysis of recombinant enzyme libraries expressed in E. coli using droplet-based microfluidics. <i>Analyst</i> , 2014 , 139, 3314-23	5	56
59	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	5.5	54
58	Phenotypes and survival in Erdheim-Chester disease: Results from a 165-patient cohort. <i>American Journal of Hematology</i> , 2018 , 93, E114-E117	7.1	53

57	Membraneless glucose/O ₂ microfluidic biofuel cells using covalently bound enzymes. <i>Chemical Communications</i> , 2013 , 49, 1094-6	5.8	52
56	Parallelized ultra-high throughput microfluidic emulsifier for multiplex kinetic assays. <i>Biomicrofluidics</i> , 2015 , 9, 034101	3.2	42
55	Circulating cell-free BRAF as a biomarker in children with Langerhans cell histiocytosis. <i>British Journal of Haematology</i> , 2017 , 178, 457-467	4.5	40
54	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	5.1	34
53	Advances in multiplexed techniques for the detection and quantification of microRNAs. <i>Chemical Society Reviews</i> , 2021 , 50, 4141-4161	58.5	33
52	Assessment of DNA Integrity, Applications for Cancer Research. <i>Advances in Clinical Chemistry</i> , 2015 , 70, 197-246	5.8	30
51	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	3.8	30
50	High-throughput multiplexed fluorescence-activated droplet sorting. <i>Microsystems and Nanoengineering</i> , 2018 , 4, 33	7.7	30
49	Assessment of Digital PCR as a Primary Reference Measurement Procedure to Support Advances in Precision Medicine. <i>Clinical Chemistry</i> , 2018 , 64, 1296-1307	5.5	28
48	Incidence and risk factors for clinical neurodegenerative Langerhans cell histiocytosis: a longitudinal cohort study. <i>British Journal of Haematology</i> , 2018 , 183, 608-617	4.5	28
47	V600E mutation detected in a case of Rosai-Dorfman disease. <i>Haematologica</i> , 2018 , 103, e377-e379	6.6	28
46	High throughput single cell counting in droplet-based microfluidics. <i>Scientific Reports</i> , 2017 , 7, 1366	4.9	27
45	Variations of BRAF mutant allele percentage in melanomas. <i>BMC Cancer</i> , 2015 , 15, 497	4.8	27
44	Isothermal digital detection of microRNAs using background-free molecular circuit. <i>Science Advances</i> , 2020 , 6, eaay5952	14.3	27
43	Massively parallel and multiparameter titration of biochemical assays with droplet microfluidics. <i>Nature Protocols</i> , 2017 , 12, 1912-1932	18.8	27
42	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	7.5	26
41	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	7.8	25
40	Microfluidic extraction and digital quantification of circulating cell-free DNA from serum. <i>Sensors and Actuators B: Chemical</i> , 2019 , 286, 533-539	8.5	24

39	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	3	23
38	A combinatorial approach to substrate discrimination in the P450 CYP1A subfamily. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007 , 1770, 446-57	4	21
37	Microfluidics as a Strategic Player to Decipher Single-Cell Omics?. <i>Trends in Biotechnology</i> , 2017 , 35, 713-727	13.7	19
36	From toxins targeting ligand gated ion channels to therapeutic molecules. <i>Toxins</i> , 2011 , 3, 260-93	4.9	18
35	Emerging isothermal amplification technologies for microRNA biosensing: Applications to liquid biopsies. <i>Molecular Aspects of Medicine</i> , 2020 , 72, 100832	16.7	15
34	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	8.5	14
33	Plasma clearance of RAS mutation under therapeutic pressure is a rare event in metastatic colorectal cancer. <i>International Journal of Cancer</i> , 2020 , 147, 1185-1189	7.5	14
32	The microfluidic puzzle: chip-oriented rapid prototyping. <i>Lab on A Chip</i> , 2014 , 14, 1669-72	7.2	13
31	Highly sensitive methods are required to detect mutations in histiocytoses. <i>Haematologica</i> , 2019 , 104, e97-e99	6.6	13
30	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	5	12
29	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, 2436-43	4.6	12
28	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	2.4	11
27	Mutation Status in Circulating Tumor DNA from Patients with Metastatic Colorectal Cancer: Extended Mutation Analysis from the AGE0 RASANC Study. <i>Cancers</i> , 2019 , 11,	6.6	11
26	Detection of Brain Somatic Mutations in Cerebrospinal Fluid from Refractory Epilepsy Patients. <i>Annals of Neurology</i> , 2021 , 89, 1248-1252	9.4	11
25	Prognostic Value and Relation with Adjuvant Treatment Duration of ctDNA in Stage III Colon Cancer: a Analysis of the PRODIGE-GERCOR IDEA-France Trial. <i>Clinical Cancer Research</i> , 2021 , 27, 5638-5646	12.9	11
24	Tunable and Reversible Gelatin-Based Bonding for Microfluidic Cell Culture. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900145	3.5	9
23	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, 033112	3.4	8
22	Droplet-Based Microfluidics Digital PCR for the Detection of KRAS Mutations. <i>Methods in Molecular Biology</i> , 2017 , 1547, 143-164	1.4	7

21	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	7.3	7
20	"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	3.3	6
19	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	14.4	5
18	Streamlined digital bioassays with a 3D printed sample changer. <i>Analyst, The</i> , 2020 , 145, 572-581	5	5
17	Gelatin-Coated Microfluidic Channels for 3D Microtissue Formation: On-Chip Production and Characterization. <i>Micromachines</i> , 2019 , 10,	3.3	4
16	Reply to D. Santini et al. <i>Journal of Clinical Oncology</i> , 2011 , 29, e208-e209	2.2	4
15	Technological Advances in Tumor-On-Chip Technology: From Bench to Bedside. <i>Cancers</i> , 2021 , 13,	6.6	4
14	Mechanical Characterization of Cells and Microspheres Sorted by Acoustophoresis with In-Line Resistive Pulse Sensing. <i>Physical Review Applied</i> , 2020 , 13,	4.3	3
13	Real-time detection and analysis of Whispering gallery mode resonance in high-throughput flowing monodisperse microdroplets. <i>Optical Materials</i> , 2013 , 36, 64-68	3.3	3
12	Microarray-based method for combinatorial library sequence mapping and characterization. <i>BioTechniques</i> , 2003 , 34, 1272-9	2.5	3
11	Exploration of Natural and Artificial Sequence Spaces: Towards a Functional Remodeling of Membrane-bound Cytochrome P450		3
10	Role of Circulating Tumor DNA in Gastrointestinal Cancers: Current Knowledge and Perspectives. <i>Cancers</i> , 2021 , 13,	6.6	3
9	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	7.5	2
8	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	2.2	2
7	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	7.5	2
6	Multiplex Detection of KRAS Mutations Using Passive Droplet Fusion. <i>Methods in Molecular Biology</i> , 2017 , 1547, 133-142	1.4	1
5	Coins in microfluidics: From mere scale objects to font of inspiration for microchannel circuits. <i>Biomicrofluidics</i> , 2019 , 13, 024106	3.2	1
4	Microfluidic Approaches for the Study of Emulsions: Transport of Solutes. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1530, 1		1

3	Highly Specific Droplet-Digital PCR Detection of Universally Methylated Circulating Tumor DNA in Endometrial Carcinoma.. <i>Clinical Chemistry</i> , 2022 ,	5.5	1
2	Isothermal digital detection of microRNA using background-free molecular circuit		1
1	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	5.3	1