

Michael Ryckelynck

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Growth-Associated Droplet Shrinkage for Bacterial Quantification, Growth Monitoring, and Separation by Ultrahigh-Throughput Microfluidics. <i>ACS Omega</i> , 2022, 7, 12039-12047.	3.5	8
2	Fluorogenic RNA-Based Biosensor to Sense the Glycolytic Flux in Mammalian Cells. <i>ACS Chemical Biology</i> , 2022, 17, 1164-1173.	3.4	7
3	Rational Design of Self-Quenched Rhodamine Dimers as Fluorogenic Aptamer Probes for Live-Cell RNA Imaging. <i>Analytical Chemistry</i> , 2022, 94, 6657-6664.	6.5	6
4	Droplet-Based Microfluidic Chip Design, Fabrication, and Use for Ultrahigh-Throughput DNA Analysis and Quantification. <i>Advances in Experimental Medicine and Biology</i> , 2022, , 445-460.	1.6	1
5	Structure-Driven Switching RNAs: From Gene Expression Regulation to Small Molecule Detection. <i>Small Structures</i> , 2021, 2, 2000132.	12.0	18
6	µIVC-Useq: a microfluidic-assisted high-throughput functional screening in tandem with next-generation sequencing and artificial neural network to rapidly characterize RNA molecules. <i>Rna</i> , 2021, 27, 841-853.	3.5	2
7	Real-time tracking of root hair nucleus morphodynamics using a microfluidic approach. <i>Plant Journal</i> , 2021, 108, 303-313.	5.7	12
8	µIVC-Seq: A Method for Ultrahigh-Throughput Development and Functional Characterization of Small RNAs. <i>Methods in Molecular Biology</i> , 2021, 2300, 203-237.	0.9	4
9	A dimerization-based fluorogenic dye-aptamer module for RNA imaging in live cells. <i>Nature Chemical Biology</i> , 2020, 16, 69-76.	8.0	89
10	Dichloromethane Degradation Pathway from Unsequenced <i>Hyphomicrobium</i> sp. MC8b Rapidly Explored by Pan-Proteomics. <i>Microorganisms</i> , 2020, 8, 1876.	3.6	6
11	The nature of the purine at position 34 in tRNAs of 4-codon boxes is correlated with nucleotides at positions 32 and 38 to maintain decoding fidelity. <i>Nucleic Acids Research</i> , 2020, 48, 6170-6183.	14.5	17
12	Development and Applications of Fluorogen/Light-Up RNA Aptamer Pairs for RNA Detection and More. <i>Methods in Molecular Biology</i> , 2020, 2166, 73-102.	0.9	6
13	Structure-Guided Engineering of the Homodimeric Mango-IV Fluorescence Turn-on Aptamer Yields an RNA FRET Pair. <i>Structure</i> , 2020, 28, 776-785.e3.	3.3	20
14	Development and engineering of artificial RNAs. <i>Methods</i> , 2019, 161, 1-2.	3.8	0
15	Structure and functional reselection of the Mango-III fluorogenic RNA aptamer. <i>Nature Chemical Biology</i> , 2019, 15, 472-479.	8.0	83
16	Optimization of fluorogenic RNA-based biosensors using droplet-based microfluidic ultrahigh-throughput screening. <i>Methods</i> , 2019, 161, 46-53.	3.8	21
17	Fluorogenic RNA Mango aptamers for imaging small non-coding RNAs in mammalian cells. <i>Nature Communications</i> , 2018, 9, 656.	12.8	189
18	Crystal Structures of the Mango-II RNA Aptamer Reveal Heterogeneous Fluorophore Binding and Guide Engineering of Variants with Improved Selectivity and Brightness. <i>Biochemistry</i> , 2018, 57, 3544-3548.	2.5	49

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19	Light-Up RNA Aptamers and Their Cognate Fluorogens: From Their Development to Their Applications. <i>International Journal of Molecular Sciences</i> , 2018, 19, 44.	4.1	85
20	Crystal structure and fluorescence properties of the iSpinach aptamer in complex with DFHBI. <i>Rna</i> , 2017, 23, 1788-1795.	3.5	63
21	Ultrahigh-Throughput Improvement and Discovery of Enzymes Using Droplet-Based Microfluidic Screening. <i>Micromachines</i> , 2017, 8, 128.	2.9	47
22	Transient compartmentalization of RNA replicators prevents extinction due to parasites. <i>Science</i> , 2016, 354, 1293-1296.	12.6	116
23	iSpinach: a fluorogenic RNA aptamer optimized for <i>in vitro</i> applications. <i>Nucleic Acids Research</i> , 2016, 44, 2491-2500.	14.5	126
24	Activity-Dependent Translation (AFT) Assay: A New High-Throughput Screening Strategy for Enzymes in Droplets. <i>ChemBioChem</i> , 2015, 16, 1343-1349.	2.6	9
25	Using droplet-based microfluidics to improve the catalytic properties of RNA under multiple-turnover conditions. <i>Rna</i> , 2015, 21, 458-469.	3.5	62
26	Teaching Single-Cell Digital Analysis Using Droplet-Based Microfluidics. <i>Analytical Chemistry</i> , 2012, 84, 1202-1209.	6.5	58
27	A completely <i>in vitro</i> ultrahigh-throughput droplet-based microfluidic screening system for protein engineering and directed evolution. <i>Lab on A Chip</i> , 2012, 12, 882.	6.0	221
28	New Generation of Amino Coumarin Methyl Sulfonate-Based Fluorogenic Substrates for Amidase Assays in Droplet-Based Microfluidic Applications. <i>Analytical Chemistry</i> , 2011, 83, 2852-2857.	6.5	77
29	Droplet-Based Microfluidic Systems for High-Throughput Single DNA Molecule Isothermal Amplification and Analysis. <i>Analytical Chemistry</i> , 2009, 81, 4813-4821.	6.5	235
30	Multi-step microfluidic droplet processing: kinetic analysis of an <i>in vitro</i> translated enzyme. <i>Lab on A Chip</i> , 2009, 9, 2902.	6.0	182
31	Fluorescence-activated droplet sorting (FADS): efficient microfluidic cell sorting based on enzymatic activity. <i>Lab on A Chip</i> , 2009, 9, 1850.	6.0	784
32	Caveolin-3 Associates with and Affects the Function of Hyperpolarization-Activated Cyclic Nucleotide-Gated Channel 4. <i>Biochemistry</i> , 2008, 47, 12312-12318.	2.5	49
33	Post-Translational Modifications Guard Yeast from Misassembly. <i>Biochemistry</i> , 2008, 47, 12476-12482.	2.5	3
34	tRNA-balanced expression of a eukaryal aminoacyl-tRNA synthetase by an mRNA-mediated pathway. <i>EMBO Reports</i> , 2005, 6, 860-865.	4.5	22
35	An Intricate RNA Structure with two tRNA-derived Motifs Directs Complex Formation between Yeast Aspartyl-tRNA Synthetase and its mRNA. <i>Journal of Molecular Biology</i> , 2005, 354, 614-629.	4.2	19
36	tRNAs and tRNA mimics as cornerstones of aminoacyl-tRNA synthetase regulations. <i>Biochimie</i> , 2005, 87, 835-845.	2.6	33

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37	Yeast tRNA ^{Asp} Charging Accuracy Is Threatened by the N-terminal Extension of Aspartyl-tRNA Synthetase. <i>Journal of Biological Chemistry</i> , 2003, 278, 9683-9690.	3.4	27