Maureen McKeague

List of Publications by Year
in descending order

35 papers	1,874 citations	331259 21 h-index	360668 35 g-index
38 all docs	38 docs citations	38 times ranked	2322 citing authors

#	Article	IF	Citations
1	Cadmium-Containing Quantum Dots Used in Electronic Displays: Implications for Toxicity and Environmental Transformations. ACS Applied Nano Materials, 2021, 4, 8417-8428.	2.4	17
2	Enhancing CAR-T Cell Therapy with Functional Nucleic Acids. ACS Pharmacology and Translational Science, 2021, 4, 1716-1727.	2.5	5
3	Green Toxicology: Connecting Green Chemistry and Modern Toxicology. Chemical Research in Toxicology, 2020, 33, 2919-2931.	1.7	11
4	Next-generation DNA damage sequencing. Chemical Society Reviews, 2020, 49, 7354-7377.	18.7	56
5	High-efficiency enrichment enables identification of aptamers to circulating Plasmodium falciparum-infected erythrocytes. Scientific Reports, 2020, 10, 9706.	1.6	13
6	Dietary modulation of mitochondrial DNA damage: implications in aging and associated diseases. Journal of Nutritional Biochemistry, 2019, 63, 1-10.	1.9	15
7	Massively parallel RNA device engineering in mammalian cells with RNA-Seq. Nature Communications, 2019, 10, 4327.	5.8	36
8	Synthesis, transfer, and characterization of core-shell gold-coated magnetic nanoparticles. MethodsX, 2019, 6, 333-354.	0.7	30
9	Immunological and mass spectrometry-based approaches to determine thresholds of the mutagenic DNA adduct O6-methylguanine in vivo. Archives of Toxicology, 2019, 93, 559-572.	1.9	17
10	PARP-1 protects against colorectal tumor induction, but promotes inflammation-driven colorectal tumor progression. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4061-E4070.	3.3	66
11	Fluorescent Nucleobase Analogues with Extended Pi Surfaces Stabilize <scp>DNA</scp> Duplexes Containing O⁶â€Alkylguanine Adducts. Helvetica Chimica Acta, 2018, 101, e1800066.	1.0	4
12	Nucleotide-Resolution Genome-Wide Mapping of Oxidative DNA Damage by Click-Code-Seq. Journal of the American Chemical Society, 2018, 140, 9783-9787.	6.6	88
13	The Base Pairing Partner Modulates Alkylguanine Alkyltransferase. ACS Chemical Biology, 2018, 13, 2534-2541.	1.6	4
14	Functional nucleic acids as in vivo metabolite and ion biosensors. Biosensors and Bioelectronics, 2017, 94, 94-106.	5.3	27
15	In Vitro Selection and Characterization of DNA Aptamers to a Small Molecule Target. Current Protocols in Chemical Biology, 2017, 9, 233-268.	1.7	18
16	Aptamers for DNA Damage and Repair. International Journal of Molecular Sciences, 2017, 18, 2212.	1.8	8
17	Comparison of In-Solution Biorecognition Properties of Aptamers against Ochratoxin A. Toxins, 2016, 8, 336.	1.5	22
18	Design and Construction of Generalizable RNA-Protein Hybrid Controllers by Level-Matched Genetic Signal Amplification. Cell Systems, 2016, 3, 549-562.e7.	2.9	20

#	Article	IF	Citations
19	Opportunities in the design and application of RNA for gene expression control. Nucleic Acids Research, 2016, 44, 2987-2999.	6.5	70
20	Screening and Identification of DNA Aptamers to Tyramine Using in Vitro Selection and High-Throughput Sequencing. ACS Combinatorial Science, 2016, 18, 302-313.	3.8	30
21	Engineering a microbial platform for de novo biosynthesis of diverse methylxanthines. Metabolic Engineering, 2016, 38, 191-203.	3.6	32
22	Comprehensive Analytical Comparison of Strategies Used for Small Molecule Aptamer Evaluation. Analytical Chemistry, 2015, 87, 8608-8612.	3.2	139
23	In Vitro Screening and in Silico Modeling of RNA-Based Gene Expression Control. ACS Chemical Biology, 2015, 10, 2463-2467.	1.6	14
24	An in solution assay for interrogation of affinity and rational minimer design for small molecule-binding aptamers. Analyst, The, 2015, 140, 6643-6651.	1.7	18
25	Analysis of In Vitro Aptamer Selection Parameters. Journal of Molecular Evolution, 2015, 81, 150-161.	0.8	119
26	Selection and Characterization of a Novel DNA Aptamer for Label-Free Fluorescence Biosensing of Ochratoxin A. Toxins, 2014, 6, 2435-2452.	1.5	124
27	Facile Characterization of Aptamer Kinetic and Equilibrium Binding Properties Using Surface Plasmon Resonance. Methods in Enzymology, 2014, 549, 451-466.	0.4	26
28	Kinetic and Equilibrium Binding Characterization of Aptamers to Small Molecules using a Label-Free, Sensitive, and Scalable Platform. Analytical Chemistry, 2014, 86, 3273-3278.	3.2	103
29	Development of a DNA aptamer for direct and selective homocysteine detection in human serum. RSC Advances, 2013, 3, 24415.	1.7	26
30	Aptamer base: a collaborative knowledge base to describe aptamers and SELEX experiments. Database: the Journal of Biological Databases and Curation, 2012, 2012, bas006.	1.4	59
31	Challenges and Opportunities for Small Molecule Aptamer Development. Journal of Nucleic Acids, 2012, 2012, 1-20.	0.8	335
32	Determination of ochratoxin A in wheat after clean-up through a DNA aptamer-based solid phase extraction column. Food Chemistry, 2011, 127, 1378-1384.	4.2	99
33	Screening and Initial Binding Assessment of Fumonisin B1 Aptamers. International Journal of Molecular Sciences, 2010, 11, 4864-4881.	1.8	131
34	Computational approaches toward the design of pools for the in vitro selection of complex aptamers. Rna, 2010, 16, 2252-2262.	1.6	66
35	Advances in Aptamer-Based Biosensors for Food Safety. , 0, , .		14