

# Shana Sturla

## 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.

88  
papers

1,694  
citations

24  
h-index

37  
g-index

217  
ext. papers

2,063  
ext. citations

7.7  
avg, IF

5.01  
L-index

#	Paper	IF	Citations
88	Systems toxicology: from basic research to risk assessment. <i>Chemical Research in Toxicology</i> , <b>2014</b> , 27, 314-29	4	236
87	Chemistry and biology of acylfulvenes: sesquiterpene-derived antitumor agents. <i>Chemical Reviews</i> , <b>2012</b> , 112, 3578-610	68.1	68
86	Quantitation of pyridyloxobutyl DNA adducts of tobacco-specific nitrosamines in rat tissue DNA by high-performance liquid chromatography-electrospray ionization-tandem mass spectrometry. <i>Chemical Research in Toxicology</i> , <b>2006</b> , 19, 674-82	4	68
85	Systems Toxicology: Real World Applications and Opportunities. <i>Chemical Research in Toxicology</i> , <b>2017</b> , 30, 870-882	4	64
84	Acrolein contributes strongly to antimicrobial and heterocyclic amine transformation activities of reuterin. <i>Scientific Reports</i> , <b>2016</b> , 6, 36246	4.9	56
83	Investigating the biochemical impact of DNA damage with structure-based probes: abasic sites, photodimers, alkylation adducts, and oxidative lesions. <i>Biochemistry</i> , <b>2009</b> , 48, 9347-59	3.2	55
82	Nucleotide-Resolution Genome-Wide Mapping of Oxidative DNA Damage by Click-Code-Seq. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9783-9787	16.4	49
81	The strict anaerobic gut microbe <i>Eubacterium hallii</i> transforms the carcinogenic dietary heterocyclic amine 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP). <i>Environmental Microbiology Reports</i> , <b>2016</b> , 8, 201-9	3.7	38
80	Human in vitro models of nonalcoholic fatty liver disease. <i>Current Opinion in Toxicology</i> , <b>2019</b> , 16, 9-16	4.4	37
79	Influence of C-5 substituted cytosine and related nucleoside analogs on the formation of benzo[a]pyrene diol epoxide-dG adducts at CG base pairs of DNA. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, 3988-4006	20.1	37
78	Depurinating acylfulvene-DNA adducts: characterizing cellular chemical reactions of a selective antitumor agent. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 2101-11	16.4	37
77	A synthetic nucleoside probe that discerns a DNA adduct from unmodified DNA. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4882-3	16.4	34
76	Screening for DNA Alkylation Mono and Cross-Linked Adducts with a Comprehensive LC-MS(3) Adductomic Approach. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 11706-13	7.8	33
75	Structural and biochemical impact of C8-aryl-guanine adducts within the NarI recognition DNA sequence: influence of aryl ring size on targeted and semi-targeted mutagenicity. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 13405-21	20.1	33
74	DNA Adducts from Anticancer Drugs as Candidate Predictive Markers for Precision Medicine. <i>Chemical Research in Toxicology</i> , <b>2017</b> , 30, 388-409	4	31
73	Systems toxicology approach to understand the kinetics of benzo(a)pyrene uptake, biotransformation, and DNA adduct formation in a liver cell model. <i>Chemical Research in Toxicology</i> , <b>2014</b> , 27, 443-53	4	31
72	Impact of ribonucleotide incorporation by DNA polymerases $\beta$ and $\gamma$ on oxidative base excision repair. <i>Nature Communications</i> , <b>2016</b> , 7, 10805	17.4	30

71	Reversible aggregation of DNA-decorated gold nanoparticles controlled by molecular recognition. <i>Langmuir</i> , <b>2013</b> , 29, 10824-30	4	29
70	Torsional Constraints of DNA Substrates Impact Cas9 Cleavage. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 13842-13845	16.4	29
69	Tolerance of base pair size and shape in postlesion DNA synthesis. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 6384-7	16.4	28
68	Specific incorporation of an artificial nucleotide opposite a mutagenic DNA adduct by a DNA polymerase. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 30-3	16.4	27
67	Iron phosphate nanoparticles for food fortification: Biological effects in rats and human cell lines. <i>Nanotoxicology</i> , <b>2017</b> , 11, 496-506	5.3	26
66	Investigating the role of stereochemistry in the activity of anticancer acylfulvenes: synthesis, reductase-mediated bioactivation, and cellular toxicity. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 2593-9	8.3	26
65	Up-regulation of human prostaglandin reductase 1 improves the efficacy of hydroxymethylacylfulvene, an antitumor chemotherapeutic agent. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2012</b> , 343, 426-33	4.7	25
64	Copper carbenes alkylate guanine chemoselectively through a substrate directed reaction. <i>Chemical Science</i> , <b>2017</b> , 8, 499-506	9.4	23
63	Susceptibility of the antioxidant selenoenzymes thioredoxin reductase and glutathione peroxidase to alkylation-mediated inhibition by anticancer acylfulvenes. <i>Chemical Research in Toxicology</i> , <b>2011</b> , 24, 726-36	4	23
62	Gut Microbial Glycerol Metabolism as an Endogenous Acrolein Source. <i>MBio</i> , <b>2018</b> , 9,	7.8	22
61	Quantification of acylfulvene- and illudin S-DNA adducts in cells with variable bioactivation capacities. <i>Chemical Research in Toxicology</i> , <b>2013</b> , 26, 146-55	4	22
60	Hydrogen bonding or stacking interactions in differentiating duplex stability in oligonucleotides containing synthetic nucleoside probes for alkylated DNA. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 11062-7	4.8	22
59	Ribonucleotide incorporation by human DNA polymerase $\beta$ impacts translesion synthesis and RNase H2 activity. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 2600-2614	20.1	22
58	An adverse outcome pathway-based approach to assess steatotic mixture effects of hepatotoxic pesticides in vitro. <i>Food and Chemical Toxicology</i> , <b>2020</b> , 139, 111283	4.7	22
57	Gut Microbial Transformation of the Dietary Imidazoquinoxaline Mutagen MelQx Reduces Its Cytotoxic and Mutagenic Potency. <i>Toxicological Sciences</i> , <b>2017</b> , 159, 266-276	4.4	21
56	Next-generation DNA damage sequencing. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 7354-7377	58.5	21
55	Quantitative correlation of drug bioactivation and deoxyadenosine alkylation by acylfulvene. <i>Chemical Research in Toxicology</i> , <b>2007</b> , 20, 1513-9	4	20
54	Sulforaphane Preconditioning Sensitizes Human Colon Cancer Cells towards the Bioreductive Anticancer Prodrug PR-104A. <i>PLoS ONE</i> , <b>2016</b> , 11, e0150219	3.7	20

53	O6-alkylguanine postlesion DNA synthesis is correct with the right complement of hydrogen bonding. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 2807-14	4.9	18
52	The use of an artificial nucleotide for polymerase-based recognition of carcinogenic O6-alkylguanine DNA adducts. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 6564-73	20.1	17
51	Gut microbial beta-glucuronidase and glycerol/diol dehydratase activity contribute to dietary heterocyclic amine biotransformation. <i>BMC Microbiology</i> , <b>2019</b> , 19, 99	4.5	16
50	Bypass of Mutagenic O(6)-Carboxymethylguanine DNA Adducts by Human Y- and B-Family Polymerases. <i>Chemical Research in Toxicology</i> , <b>2016</b> , 29, 1493-503	4	15
49	Recognition of O6-benzyl-2Sdeoxyguanosine by a perimidinone-derived synthetic nucleoside: a DNA interstrand stacking interaction. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 7566-76	20.1	14
48	Mechanism of RNA polymerase II stalling by DNA alkylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 12172-12177	11.5	12
47	In-Genes Quantification of O(6)-Methylguanine with Elongated Nucleoside Analogues on Gold Nanoprobes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8497-504	16.4	11
46	Immunological and mass spectrometry-based approaches to determine thresholds of the mutagenic DNA adduct O-methylguanine in vivo. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 559-572	5.8	11
45	Incorporation of nucleoside probes opposite O-methylguanine by <i>Sulfolobus solfataricus</i> DNA polymerase Dpo4: importance of hydrogen bonding. <i>ChemBioChem</i> , <b>2013</b> , 14, 1634-9	3.8	10
44	DNA Adduct Profiles Predict in Vitro Cell Viability after Treatment with the Experimental Anticancer Prodrug PR104A. <i>Chemical Research in Toxicology</i> , <b>2017</b> , 30, 830-839	4	9
43	Nucleotides with altered hydrogen bonding capacities impede human DNA polymerase $\beta$ by reducing synthesis in the presence of the major cisplatin DNA adduct. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 4728-34	16.4	9
42	Improved efficacy of acylfulvene in colon cancer cells when combined with a nuclear excision repair inhibitor. <i>Chemical Research in Toxicology</i> , <b>2013</b> , 26, 1674-82	4	9
41	Chemical and enzymatic reductive activation of acylfulvene to isomeric cytotoxic reactive intermediates. <i>Chemical Research in Toxicology</i> , <b>2011</b> , 24, 2044-54	4	9
40	ASSURED Point-of-Need Food Safety Screening: A Critical Assessment of Portable Food Analyzers. <i>Foods</i> , <b>2021</b> , 10,	4.9	9
39	Gut microbial transformation of the dietary mutagen MeIQx may reduce exposure levels without altering intestinal transport. <i>Toxicology in Vitro</i> , <b>2019</b> , 59, 238-245	3.6	8
38	Oligonucleotide probes containing pyrimidine analogs reveal diminished hydrogen bonding capacity of the DNA adduct O-methyl-G in DNA duplexes. <i>Bioorganic and Medicinal Chemistry</i> , <b>2013</b> , 21, 6212-6	3.4	8
37	Structural basis for the selective incorporation of an artificial nucleotide opposite a DNA adduct by a DNA polymerase. <i>Chemical Communications</i> , <b>2017</b> , 53, 12704-12707	5.8	8
36	Development of a risk management tool for prioritizing chemical hazard-food pairs and demonstration for selected mycotoxins. <i>Regulatory Toxicology and Pharmacology</i> , <b>2015</b> , 72, 257-65	3.4	7

35	Minor Groove 3-Deaza-Adenosine Analogues: Synthesis and Bypass in Translesion DNA Synthesis. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 1101-1109	4.8	7
34	DNA Adduct-Directed Synthetic Nucleosides. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 1391-1399	24.3	6
33	Gold nanoprobe for detecting DNA adducts. <i>Chemical Communications</i> , <b>2014</b> , 50, 15517-20	5.8	6
32	Modulation of Cytotoxicity by Transcription-Coupled Nucleotide Excision Repair Is Independent of the Requirement for Bioactivation of Acylfulvene. <i>Chemical Research in Toxicology</i> , <b>2017</b> , 30, 769-776	4	5
31	Induction of complementary function reductase enzymes in colon cancer cells by dithiole-3-thione versus sodium selenite. <i>Journal of Biochemical and Molecular Toxicology</i> , <b>2015</b> , 29, 10-20	3.4	5
30	Sulfotransferase-independent genotoxicity of illudin S and its acylfulvene derivatives in bacterial and mammalian cells. <i>Archives of Toxicology</i> , <b>2014</b> , 88, 161-9	5.8	5
29	Bioreduction-mediated food-drug interactions: opportunities for oncology nutrition. <i>Chimia</i> , <b>2011</b> , 65, 411-5	1.3	5
28	Impact of DNA Oxidation on Toxicology: From Quantification to Genomics. <i>Chemical Research in Toxicology</i> , <b>2019</b> , 32, 345-347	4	5
27	Conformational Preference and Fluorescence Response of a C-Linked C8-Biphenyl-Guanine Lesion in the Nari Mutational Hotspot: Evidence for Enhanced Syn Adduct Formation. <i>Chemical Research in Toxicology</i> , <b>2018</b> , 31, 37-47	4	5
26	Drug-DNA adducts as biomarkers for metabolic activation of the nitro-aromatic nitrogen mustard prodrug PR-104A. <i>Biochemical Pharmacology</i> , <b>2018</b> , 154, 64-74	6	5
25	Molecular Dosimetry of Temozolomide: Quantification of Critical Lesions, Correlation to Cell Death Responses, and Threshold Doses. <i>Molecular Cancer Therapeutics</i> , <b>2021</b> , 20, 1789-1799	6.1	5
24	A gene-targeted polymerase-mediated strategy to identify O-methylguanine damage. <i>Chemical Communications</i> , <b>2019</b> , 55, 3895-3898	5.8	4
23	Sequence-Specific Quantitation of Mutagenic DNA Damage via Polymerase Amplification with an Artificial Nucleotide. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6962-6969	16.4	4
22	The Base Pairing Partner Modulates Alkylguanine Alkyltransferase. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 2534-2541	4.9	4
21	Direct Alkylation of Deoxyguanosine by Azaserine Leads to -Carboxymethyldeoxyguanosine. <i>Chemical Research in Toxicology</i> , <b>2021</b> , 34, 1518-1529	4	4
20	High Sensitivity of Human Translesion DNA Synthesis Polymerase $\epsilon$ to Variation in O-Carboxymethylguanine Structures. <i>ACS Chemical Biology</i> , <b>2019</b> , 14, 214-222	4.9	4
19	A Chemical Link between Meat Consumption and Colorectal Cancer Development?. <i>Chemical Research in Toxicology</i> , <b>2021</b> , 34, 12-23	4	4
18	Altered minor-groove hydrogen bonds in DNA block transcription elongation by T7 RNA polymerase. <i>ChemBioChem</i> , <b>2015</b> , 16, 1212-8	3.8	3

17	Fluorescent Nucleobase Analogues with Extended Pi Surfaces Stabilize DNA Duplexes Containing O6-Alkylguanine Adducts. <i>Helvetica Chimica Acta</i> , <b>2018</b> , 101, e1800066	2	3
16	Repair of O6-carboxymethylguanine adducts by O6-methylguanine-DNA methyltransferase in human colon epithelial cells. <i>Carcinogenesis</i> , <b>2021</b> , 42, 1110-1118	4.6	2
15	Determining Steady-State Kinetics of DNA Polymerase Nucleotide Incorporation. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1973, 299-311	1.4	1
14	Synthesis of 4-Cyanoindole Nucleosides, 4-Cyanoindole-2SDeoxyribonucleoside-5STriphosphate (4CIN-TP), and Enzymatic Incorporation of 4CIN-TP into DNA. <i>Current Protocols in Nucleic Acid Chemistry</i> , <b>2020</b> , 80, e101	0.5	1
13	A combination of direct reversion and nucleotide excision repair counters the mutagenic effects of DNA carboxymethylation.. <i>DNA Repair</i> , <b>2021</b> , 110, 103262	4.3	1
12	Impact of manipulation of glycerol/diol dehydratase activity on intestinal microbiota ecology and metabolism. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 1765-1779	5.2	1
11	Hydrogen-Bonding Interactions at the DNA Terminus Promote Extension from Methylguanine Lesions by Human Extender DNA Polymerase $\beta$ <i>Biochemistry</i> , <b>2018</b> , 57, 5978-5988	3.2	1
10	A Chemical Strategy for Intracellular Arming of an Endogenous Broad-Spectrum Antiviral Nucleotide. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 15429-15439	8.3	0
9	Adduct Fluorescence as a Tool to Decipher Sequence Impact on Frameshift Mutations Mediated by a C-Linked C8-Biphenyl-Guanine Lesion. <i>Chemical Research in Toxicology</i> , <b>2019</b> , 32, 784-791	4	
8	Data in support of quantification of pyrophosphate as a universal approach to determine polymerase activity and assay polymerase inhibitors. <i>Data in Brief</i> , <b>2015</b> , 4, 14-8	1.2	
7	Confronting Racism in Chemistry Journals. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6131-6133	5.6	
6	Confronting Racism in Chemistry Journals. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 2496-2498	4.3	
5	Confronting Racism in Chemistry Journals. <i>Organometallics</i> , <b>2020</b> , 39, 2331-2333	3.8	
4	Update to Our Reader, Reviewer, and Author CommunitiesApril 2020. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 5107-5108	4.1	
3	Update to Our Reader, Reviewer, and Author CommunitiesApril 2020. <i>Organometallics</i> , <b>2020</b> , 39, 1665-1666	3.6	
2	Confronting Racism in Chemistry Journals. <i>Journal of Chemical Health and Safety</i> , <b>2020</b> , 27, 198-200	1.7	
1	Molecular beacons with oxidized bases report on substrate specificity of DNA oxoguanine glycosylases.. <i>Chemical Science</i> , <b>2022</b> , 13, 4295-4302	9.4	