

Hadley D Sikes

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.

80
papers

1,985
citations

24
h-index

42
g-index

88
ext. papers

2,251
ext. citations

8.3
avg, IF

5.37
L-index

#	Paper	IF	Citations
80	Rapid electron tunneling through oligophenylenevinylene bridges. <i>Science</i> , 2001 , 291, 1519-23	33.3	311
79	Interfacial electron-transfer kinetics of ferrocene through oligophenyleneethynylene bridges attached to gold electrodes as constituents of self-assembled monolayers: observation of a nonmonotonic distance dependence. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14620-30	16.4	111
78	Using polymeric materials to generate an amplified response to molecular recognition events. <i>Nature Materials</i> , 2008 , 7, 52-6	27	96
77	Quantifying intracellular hydrogen peroxide perturbations in terms of concentration. <i>Redox Biology</i> , 2014 , 2, 955-62	11.3	89
76	Polymerization-based signal amplification for paper-based immunoassays. <i>Lab on A Chip</i> , 2015 , 15, 655-97.2	7.2	83
75	Synthesis of ferrocenethiols containing oligo(phenylenevinylene) bridges and their characterization on gold electrodes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8033-8	16.4	69
74	Assessment of colorimetric amplification methods in a paper-based immunoassay for diagnosis of malaria. <i>Lab on A Chip</i> , 2016 , 16, 1374-82	7.2	63
73	Kinetics of Self-Assembled Monolayer Growth Explored via Submonolayer Coverage of Incomplete Films. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7535-7541	3.4	56
72	Two-dimensional melting of an anisotropic crystal observed at the molecular level. <i>Science</i> , 1997 , 278, 1604-7	33.3	53
71	Visual detection of labeled oligonucleotides using visible-light-polymerization-based amplification. <i>Biomacromolecules</i> , 2008 , 9, 355-62	6.9	53
70	Pattern Formation in a Substrate-Induced Phase Transition during Langmuir-Blodgett Transfer. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 9093-9097		44
69	A Temperature-Dependent Two-Dimensional Condensation Transition during Langmuir-Blodgett Deposition. <i>Langmuir</i> , 1997 , 13, 4704-4709	4	43
68	Analysis of the lifetime and spatial localization of hydrogen peroxide generated in the cytosol using a reduced kinetic model. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 47-53	7.8	41
67	Antigen detection using polymerization-based amplification. <i>Lab on A Chip</i> , 2009 , 9, 653-6	7.2	41
66	Using photo-initiated polymerization reactions to detect molecular recognition. <i>Chemical Society Reviews</i> , 2016 , 45, 532-45	58.5	37
65	Addressing Barriers to the Development and Adoption of Rapid Diagnostic Tests in Global Health. <i>Nanobiomedicine</i> , 2015 , 2,	4.8	36
64	Excitation of Metastable Intermediates in Organic Photoredox Catalysis: Z-Scheme Approach Decreases Catalyst Inactivation. <i>ACS Catalysis</i> , 2018 , 8, 6394-6400	13.1	36

63	A reaction-diffusion model of cytosolic hydrogen peroxide. <i>Free Radical Biology and Medicine</i> , 2016 , 90, 85-90	7.8	33
62	Systematic study of fluorescein-functionalized macrophotoinitiators for colorimetric bioassays. <i>Biomacromolecules</i> , 2012 , 13, 1136-43	6.9	33
61	Monitoring the action of redox-directed cancer therapeutics using a human peroxiredoxin-2-based probe. <i>Nature Communications</i> , 2018 , 9, 3145	17.4	30
60	Radical polymerization reactions for amplified biodetection signals. <i>Polymer Chemistry</i> , 2020 , 11, 1424-1444	14.4	30
59	Polymerization-based signal amplification under ambient conditions with thirty-five second reaction times. <i>Lab on A Chip</i> , 2012 , 12, 4055-8	7.2	28
58	Emulsion Agglutination Assay for the Detection of Protein-Protein Interactions: An Optical Sensor for Zika Virus. <i>ACS Sensors</i> , 2019 , 4, 180-184	9.2	26
57	Detection of Biomarkers of Periodontal Disease in Human Saliva Using Stabilized, Vertical Flow Immunoassays. <i>ACS Sensors</i> , 2017 , 2, 1589-1593	9.2	25
56	UV-Vis/FT-NIR monitoring of visible-light induced polymerization of PEGDA hydrogels initiated by eosin/triethanolamine/O. <i>Polymer Chemistry</i> , 2016 , 7, 592-602	4.9	24
55	Paper-based diagnostics in the antigen-depletion regime: High-density immobilization of rcSso7d-cellulose-binding domain fusion proteins for efficient target capture. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 456-463	11.8	23
54	Modulating and Measuring Intracellular HO Using Genetically Encoded Tools to Study Its Toxicity to Human Cells. <i>ACS Synthetic Biology</i> , 2016 , 5, 1389-1395	5.7	21
53	Activity-based assessment of an engineered hyperthermophilic protein as a capture agent in paper-based diagnostic tests. <i>Molecular Systems Design and Engineering</i> , 2016 , 1, 377-381	4.6	21
52	A Method for Designing Instrument-Free Quantitative Immunoassays. <i>Analytical Chemistry</i> , 2016 , 88, 3194-202	7.8	20
51	Impact of dissociation constant on the detection sensitivity of polymerization-based signal amplification reactions. <i>Analytical Chemistry</i> , 2013 , 85, 8055-60	7.8	20
50	Investigation of dendrimers functionalized with eosin as macrophotoinitiators for polymerization-based signal amplification reactions. <i>RSC Advances</i> , 2015 , 5, 15652-15659	3.7	20
49	Evaluating the sensitivity of hybridization-based epigenotyping using a methyl binding domain protein. <i>Analyst, The</i> , 2014 , 139, 3695-701	5	19
48	On the role of N-vinylpyrrolidone in the aqueous radical-initiated copolymerization with PEGDA mediated by eosin Y in the presence of O ₂ . <i>Polymer Chemistry</i> , 2019 , 10, 926-937	4.9	18
47	Staged Inertial Microfluidic Focusing for Complex Fluid Enrichment. <i>RSC Advances</i> , 2015 , 5, 53857-53864	3.7	17
46	Vertical Flow Cellulose-Based Assays for SARS-CoV-2 Antibody Detection in Human Serum. <i>ACS Sensors</i> , 2021 , 6, 1891-1898	9.2	17

45	Balancing the initiation and molecular recognition capabilities of eosin macroinitiators of polymerization-based signal amplification reactions. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 981-6	4.8	16
44	Using Sensors and Generators of H ₂ O ₂ to Elucidate the Toxicity Mechanism of Piperlongumine and Phenethyl Isothiocyanate. <i>Antioxidants and Redox Signaling</i> , 2016 , 24, 924-38	8.4	15
43	Photoelectron Spectroscopy to Probe the Mechanism of Electron Transfer through Oligo(phenylene vinylene) Bridges. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 1170-1173	3.4	15
42	Mitochondrial HO Generation Using a Tunable Chemogenetic Tool To Perturb Redox Homeostasis in Human Cells and Induce Cell Death. <i>ACS Synthetic Biology</i> , 2018 , 7, 2037-2044	5.7	14
41	Liposome-Enhanced Polymerization-Based Signal Amplification for Highly Sensitive Naked-Eye Biodetection in Paper-Based Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28469-28477	9.5	14
40	Polymerization-Based Amplification for Target-Specific Colorimetric Detection of Amplified DNA on Cellulose. <i>ACS Sensors</i> , 2020 , 5, 308-312	9.2	13
39	Oxidative pentose phosphate pathway and glucose anaplerosis support maintenance of mitochondrial NADPH pool under mitochondrial oxidative stress. <i>Bioengineering and Translational Medicine</i> , 2020 , 5, e10184	14.8	13
38	A quantitative analysis of peroxy-mediated cyclic regeneration of Eosin under oxygen-rich photopolymerization conditions. <i>Polymer</i> , 2015 , 69, 169-177	3.9	11
37	Improved Ordering in Low Molecular Weight Protein-Polymer Conjugates Through Oligomerization of the Protein Block. <i>Biomacromolecules</i> , 2018 , 19, 3814-3824	6.9	11
36	Sensitivity and binding kinetics of an ultra-sensitive chemiluminescent enzyme-linked immunosorbent assay at arrays of antibodies. <i>Journal of Immunological Methods</i> , 2019 , 474, 112643	2.5	11
35	Portable, Constriction-Expansion Blood Plasma Separation and Polymerization-Based Malaria Detection. <i>Analytical Chemistry</i> , 2016 , 88, 7627-32	7.8	11
34	Interpreting Heterogeneity in Response of Cells Expressing a Fluorescent Hydrogen Peroxide Biosensor. <i>Biophysical Journal</i> , 2015 , 109, 2148-58	2.9	9
33	Design Principles for Enhancing Sensitivity in Paper-Based Diagnostics via Large-Volume Processing. <i>Analytical Chemistry</i> , 2018 , 90, 9472-9479	7.8	9
32	In-depth characterization of the fluorescent signal of HyPer, a probe for hydrogen peroxide, in bacteria exposed to external oxidative stress. <i>Journal of Microbiological Methods</i> , 2014 , 106, 33-39	2.8	9
31	Insights into electron leakage in the reaction cycle of cytochrome P450 BM3 revealed by kinetic modeling and mutagenesis. <i>Protein Science</i> , 2015 , 24, 1874-83	6.3	9
30	A xenograft and cell line model of SDH-deficient pheochromocytoma derived from Sdhb ^{+/-} rats. <i>Endocrine-Related Cancer</i> , 2020 , 27, 337-354	5.7	9
29	Beyond Epitope Binning: Directed Selection of Complementary Pairs of Binding Proteins. <i>ACS Combinatorial Science</i> , 2020 , 22, 49-60	3.9	9
28	Engineering hyperthermostable rcSso7d as reporter molecule for in vitro diagnostic tests. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 877-882	4.6	9

27	A unique model for SDH-deficient GIST: an endocrine-related cancer. <i>Endocrine-Related Cancer</i> , 2018 , 25, 943-954	5.7	9
26	Use of a genetically encoded hydrogen peroxide sensor for whole cell screening of enzyme activity. <i>Protein Engineering, Design and Selection</i> , 2015 , 28, 79-83	1.9	8
25	Characterization and directed evolution of a methyl-binding domain protein for high-sensitivity DNA methylation analysis. <i>Protein Engineering, Design and Selection</i> , 2015 , 28, 543-51	1.9	8
24	Phenolphthalein-Conjugated Hydrogel Formation under Visible-Light Irradiation for Reducing Variability of Colorimetric Biodetection.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 216-220	4.1	7
23	Low-cost plug and play photochemistry reactor. <i>HardwareX</i> , 2018 , 3, 1-9	2.7	7
22	Kinetic modeling of H2O2 dynamics in the mitochondria of HeLa cells. <i>PLoS Computational Biology</i> , 2020 , 16, e1008202	5	7
21	A mathematical analysis of Prx2-STAT3 disulfide exchange rate constants for a bimolecular reaction mechanism. <i>Free Radical Biology and Medicine</i> , 2018 , 120, 239-245	7.8	5
20	Functional comparison of paper-based immunoassays based on antibodies and engineered binding proteins. <i>Analyst, The</i> , 2020 , 145, 2515-2519	5	4
19	Redox regulation: Scaffolding HO signaling. <i>Nature Chemical Biology</i> , 2017 , 13, 818-819	11.7	4
18	Functional heterologous expression and purification of a mammalian methyl-CpG binding domain in suitable yield for DNA methylation profiling assays. <i>Protein Expression and Purification</i> , 2012 , 82, 332-8	2	4
17	Cellular lensing and near infrared fluorescent nanosensor arrays to enable chemical efflux cytometry. <i>Nature Communications</i> , 2021 , 12, 3079	17.4	4
16	Exponential Amplification Using Photoredox Autocatalysis. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11544-11553	16.4	4
15	The Impact of Continuous Oxygen Flux in a Thin Film Photopolymerization Reaction with Peroxy-Mediated Regeneration of Initiator. <i>Macromolecular Theory and Simulations</i> , 2016 , 25, 229-237	1.5	3
14	Developing a SARS-CoV-2 Antigen Test Using Engineered Affinity Proteins. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38990-39002	9.5	3
13	Using nanobiotechnology to increase the prevalence of epigenotyping assays in precision medicine. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017 , 9, e1407	9.2	2
12	Engineering affinity agents for the detection of hemi-methylated CpG sites in DNA. <i>Molecular Systems Design and Engineering</i> , 2016 , 1, 273-277	4.6	2
11	Developing a SARS-CoV-2 Antigen Test Using Engineered Affinity Proteins. <i>ChemRxiv</i> , 2021 ,	4.4	2
10	Experimental validation of eosin-mediated photo-redox polymerization mechanism and implications for signal amplification applications. <i>Polymer Chemistry</i> , 2021 , 12, 2881-2890	4.9	2

9	Functional Comparison of Bioactive Cellulose Materials Incorporating Engineered Binding Proteins.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 392-398	4.1	2
8	Can Fish and Cell Phones Teach Us about Our Health?. <i>ACS Sensors</i> , 2019 , 4, 2566-2570	9.2	1
7	An examination of critical parameters in hybridization-based epigenotyping using magnetic microparticles. <i>Biotechnology Progress</i> , 2018 , 34, 1589-1595	2.8	1
6	A rapid simple point-of-care assay for the detection of SARS-CoV-2 neutralizing antibodies. <i>Communications Medicine</i> , 2021 , 1,		1
5	Development and translation of a paper-based top readout vertical flow assay for SARS-CoV-2 surveillance.. <i>Lab on A Chip</i> , 2022 ,	7.2	1
4	Dual Photoredox Catalysis Strategy for Enhanced Photopolymerization-Based Colorimetric Biodetection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 57962-57970	9.5	
3	A xenograft and cell line model of SDH-deficient pheochromocytoma derived from <i>Sdhb</i> ^{+/Trats} . <i>Endocrine-Related Cancer</i> , 2020 , 27, X9-X10	5.7	
2	Quantification of intracellular H ₂ O ₂ : Methods and significance 2020 , 113-124		
1	Generation of Thermally Stable Affinity Pairs for Sensitive, Specific Immunoassays.. <i>Methods in Molecular Biology</i> , 2022 , 2491, 417-469	1.4	