

# Yimon Aye

## List of Publications by Citations

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61  
papers

1,340  
citations

22  
h-index

35  
g-index

74  
ext. papers

1,705  
ext. citations

9.1  
avg. IF

5.16  
L-index

#	Paper	IF	Citations
61	Redox Signaling by Reactive Electrophiles and Oxidants. <i>Chemical Reviews</i> , <b>2018</b> , 118, 8798-8888	68.1	127
60	Copper-catalyzed asymmetric conjugate reduction as a route to novel beta-azaheterocyclic acid derivatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 5821-3	11.5	94
59	Vinyl-, propargyl-, and allenylsilicon reagents in asymmetric synthesis: a relatively untapped resource of environmentally benign reagents. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 5402-16	4.8	74
58	Mechanistic studies of semicarbazone triapine targeting human ribonucleotide reductase in vitro and in mammalian cells: tyrosyl radical quenching not involving reactive oxygen species. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 35768-35778	5.4	55
57	On-Demand Targeting: Investigating Biology with Proximity-Directed Chemistry. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3610-22	16.4	54
56	Clofarabine 5Fdi and -triphosphates inhibit human ribonucleotide reductase by altering the quaternary structure of its large subunit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 9815-20	11.5	51
55	Enantioselective scandium-catalyzed vinylsilane additions: a new approach to the synthesis of enantiopure beta,gamma-unsaturated alpha-hydroxy acid derivatives. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 11034-5	16.4	51
54	Substoichiometric hydroxynonylation of a single protein recapitulates whole-cell-stimulated antioxidant response. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 10-3	16.4	49
53	Privileged Electrophile Sensors: A Resource for Covalent Drug Development. <i>Cell Chemical Biology</i> , <b>2017</b> , 24, 787-800	8.2	48
52	Temporally controlled targeting of 4-hydroxynonenal to specific proteins in living cells. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 14496-9	16.4	46
51	A generalizable platform for interrogating target- and signal-specific consequences of electrophilic modifications in redox-dependent cell signaling. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 6232-44	16.4	45
50	Asymmetric, anti-selective scandium-catalyzed Sakurai additions to glyoxyamide. Applications to the syntheses of N-boc D-alloisoleucine and D-isoleucine. <i>Organic Letters</i> , <b>2006</b> , 8, 2071-3	6.2	45
49	T-REX on-demand redox targeting in live cells. <i>Nature Protocols</i> , <b>2016</b> , 11, 2328-2356	18.8	44
48	Parallel kinetic resolution of tert-butyl (RS)-3-oxy-substituted cyclopent-1-ene-carboxylates for the asymmetric synthesis of 3-oxy-substituted cispentacin and transpentacin derivatives. <i>Organic and Biomolecular Chemistry</i> , <b>2008</b> , 6, 2195-203	3.9	40
47	Akt3 is a privileged first responder in isozyme-specific electrophile response. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 333-338	11.7	39
46	Clofarabine targets the large subunit (p) of human ribonucleotide reductase in live cells by assembly into persistent hexamers. <i>Chemistry and Biology</i> , <b>2012</b> , 19, 799-805		36
45	Modular Total Synthesis and Cell-Based Anticancer Activity Evaluation of Ouabagenin and Other Cardiotonic Steroids with Varying Degrees of Oxygenation. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4849-4860	16.4	35

44	Ube2V2 Is a Rosetta Stone Bridging Redox and Ubiquitin Codes, Coordinating DNA Damage Responses. <i>ACS Central Science</i> , <b>2018</b> , 4, 246-259	16.8	33
43	Cladribine and Fludarabine Nucleotides Induce Distinct Hexamers Defining a Common Mode of Reversible RNR Inhibition. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 2021-32	4.9	29
42	Electrophile Signaling and Emerging Immuno- and Neuro-modulatory Electrophilic Pharmaceuticals. <i>Frontiers in Aging Neuroscience</i> , <b>2020</b> , 12, 1	5.3	28
41	3.3-Å resolution cryo-EM structure of human ribonucleotide reductase with substrate and allosteric regulators bound. <i>ELife</i> , <b>2018</b> , 7,	8.9	28
40	TrCP1 Is a Vacillatory Regulator of Wnt Signaling. <i>Cell Chemical Biology</i> , <b>2017</b> , 24, 944-957.e7	8.2	26
39	Subcellular Redox Targeting: Bridging in Vitro and in Vivo Chemical Biology. <i>ACS Chemical Biology</i> , <b>2017</b> , 12, 586-600	4.9	20
38	Aluminum-catalyzed enantio- and diastereoselective carbonyl addition of propargylsilanes. A new approach to enantioenriched vinyl epoxides. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 9606-7	16.4	20
37	The Die Is Cast: Precision Electrophilic Modifications Contribute to Cellular Decision Making. <i>Chemical Research in Toxicology</i> , <b>2016</b> , 29, 1575-1582	4	20
36	Post-transcriptional regulation of Nrf2-mRNA by the mRNA-binding proteins HuR and AUF1. <i>FASEB Journal</i> , <b>2019</b> , 33, 14636-14652	0.9	19
35	Proteomics and Beyond: Cell Decision-Making Shaped by Reactive Electrophiles. <i>Trends in Biochemical Sciences</i> , <b>2019</b> , 44, 75-89	10.3	17
34	Nuclear RNR-1 Antagonizes cell proliferation by directly inhibiting ZRANB3. <i>Nature Chemical Biology</i> , <b>2018</b> , 14, 943-954	11.7	15
33	Cardiovascular Small Heat Shock Protein HSPB7 Is a Kinetically Privileged Reactive Electrophilic Species (RES) Sensor. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 1824-1831	4.9	13
32	Getting the Message? Native Reactive Electrophiles Pass Two Out of Three Thresholds to be Bona Fide Signaling Mediators. <i>BioEssays</i> , <b>2018</b> , 40, e1700240	4.1	13
31	Precision Electrophile Tagging in <i>Caenorhabditis elegans</i> . <i>Biochemistry</i> , <b>2018</b> , 57, 216-220	3.2	12
30	Precision Targeting of -Null Triple-Negative Breast Tumors Guided by Electrophilic Metabolite Sensing. <i>ACS Central Science</i> , <b>2020</b> , 6, 892-902	16.8	10
29	Genie in a bottle: controlled release helps tame natural polypharmacology?. <i>Current Opinion in Chemical Biology</i> , <b>2019</b> , 51, 48-56	9.7	9
28	Single-Protein-Specific Redox Targeting in Live Mammalian Cells and <i>C. elegans</i> . <i>Current Protocols in Chemical Biology</i> , <b>2018</b> , 10, e43	1.8	9
27	Uncoupling of allosteric and oligomeric regulation in a functional hybrid enzyme constructed from <i>Escherichia coli</i> and human ribonucleotide reductase. <i>Biochemistry</i> , <b>2013</b> , 52, 7050-9	3.2	9

26	Interrogating Precision Electrophile Signaling. <i>Trends in Biochemical Sciences</i> , <b>2019</b> , 44, 380-381	10.3	8
25	The more the merrier: how homo-oligomerization alters the interactome and function of ribonucleotide reductase. <i>Current Opinion in Chemical Biology</i> , <b>2020</b> , 54, 10-18	9.7	7
24	An Oculus to Profile and Probe Target Engagement In Vivo: How T-REX Was Born and Its Evolution into G-REX. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 618-631	24.3	7
23	Chemical Biology Gateways to Mapping Location, Association, and Pathway Responsivity. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 125	5	6
22	A fluorimetric readout reporting the kinetics of nucleotide-induced human ribonucleotide reductase oligomerization. <i>ChemBioChem</i> , <b>2014</b> , 15, 2598-2604	3.8	6
21	Clofarabine Commandeers the RNR-ERANB3 Nuclear Signaling Axis. <i>Cell Chemical Biology</i> , <b>2020</b> , 27, 122-133.e5	8.2	5
20	Neighborhood watch: tools for defining locale-dependent subproteomes and their contextual signaling activities. <i>RSC Chemical Biology</i> , <b>2020</b> , 1, 42-55	3	5
19	Wdr1 and cofilin are necessary mediators of immune-cell-specific apoptosis triggered by Tecfidera. <i>Nature Communications</i> , <b>2021</b> , 12, 5736	17.4	5
18	Structural Report for Sc[(R,R)-norephedrine-pybox](OTf) <sub>3</sub> Dimeric Complex. <i>Journal of Chemical Crystallography</i> , <b>2008</b> , 38, 49-52	0.5	4
17	Getting the Right Grip? How Understanding Electrophile Selectivity Profiles Could Illuminate Our Understanding of Redox Signaling. <i>Antioxidants and Redox Signaling</i> , <b>2020</b> , 33, 1077-1091	8.4	4
16	REX technologies for profiling and decoding the electrophile signaling axes mediated by Rosetta Stone proteins. <i>Methods in Enzymology</i> , <b>2020</b> , 633, 203-230	1.7	4
15	Breaking the Fourth Wall: Modulating Quaternary Associations for Protein Regulation and Drug Discovery. <i>ChemBioChem</i> , <b>2019</b> , 20, 1091-1104	3.8	3
14	The mRNA-Binding Protein HuR Is a Kinetically-Privileged Electrophile Sensor. <i>Helvetica Chimica Acta</i> , <b>2020</b> , 103, e2000041	2	2
13	Function-guided proximity mapping unveils electrophilic-metabolite sensing by proteins not present in their canonical locales.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	2
12	Science's Response to CoVID-19. <i>ChemMedChem</i> , <b>2021</b> , 16, 2288-2314	3.7	2
11	The not so identical twins: (dis)similarities between reactive electrophile and oxidant sensing and signaling. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 12269-12291	58.5	2
10	Weighing up the Selenocysteine Uncovers New Sec-crets. <i>Cell Chemical Biology</i> , <b>2018</b> , 25, 1315-1317	8.2	1
9	Hiding in Plain Sight: The Issue of Hidden Variables. <i>ACS Chemical Biology</i> ,	4.9	0

- 8 Meeting Proceedings, 2017 Cornell University Baker Symposium Quo Vadis: The Boundless Trajectories of Chemical Biology. *ACS Chemical Biology*, **2017**, 12, 1445-1448 4.9
- 7 A Fluorimetric Readout Reporting the Kinetics of Nucleotide-induced Human Ribonucleotide Reductase Oligomerization. *FASEB Journal*, **2015**, 29, 722.6 0.9
- 6 Mechanistic Basis of Residue Specificity in Targeted Electrophilic Modification. *FASEB Journal*, **2015**, 29, 565.10 0.9
- 5 Oligomeric Regulation of Ribonucleotide Reductase (RNR) by Antileukemic Nucleotides. *FASEB Journal*, **2015**, 29, 721.36 0.9
- 4 Substoichiometric Hydroxynonylation of a Single Protein Recapitulates Whole-cell-stimulated Antioxidant Response. *FASEB Journal*, **2015**, 29, 570.1 0.9
- 3 Chemistry-Driven Approaches to Deconstruct Redox-Linked Signal Transduction Networks. *FASEB Journal*, **2015**, 29, 570.14 0.9
- 2 Where Electrophile Signaling and Covalent Ligand-Target Mining Converge. *Chimia*, **2020**, 74, 659-666 1.3
- 1 Keap 1: the new Janus word on the block.. *Bioorganic and Medicinal Chemistry Letters*, **2022**, 128766 2.9