

Yimon Aye

List of Publications by Year in descending order

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66
papers

1,943
citations

257101

24
h-index

288905

40
g-index

74
all docs

74
docs citations

74
times ranked

1973
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox Signaling by Reactive Electrophiles and Oxidants. <i>Chemical Reviews</i> , 2018, 118, 8798-8888.	23.0	232
2	Asymmetric Catalysis Special Feature Part II: Copper-catalyzed asymmetric conjugate reduction as a route to novel α -azaheterocyclic acid derivatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5821-5823.	3.3	104
3	Vinyl-, Propargyl-, and Allenylsilicon Reagents in Asymmetric Synthesis: A Relatively Untapped Resource of Environmentally Benign Reagents. <i>Chemistry - A European Journal</i> , 2009, 15, 5402-5416.	1.7	90
4	Electrophile Signaling and Emerging Immuno- and Neuro-modulatory Electrophilic Pharmaceuticals. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 1.	1.7	84
5	On-Demand Targeting: Investigating Biology with Proximity-Directed Chemistry. <i>Journal of the American Chemical Society</i> , 2016, 138, 3610-3622.	6.6	68
6	Substoichiometric Hydroxynonylation of a Single Protein Recapitulates Whole-Cell-Stimulated Antioxidant Response. <i>Journal of the American Chemical Society</i> , 2015, 137, 10-13.	6.6	66
7	Mechanistic Studies of Semicarbazone Triapine Targeting Human Ribonucleotide Reductase in Vitro and in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 35768-35778.	1.6	64
8	Privileged Electrophile Sensors: A Resource for Covalent Drug Development. <i>Cell Chemical Biology</i> , 2017, 24, 787-800.	2.5	63
9	Clofarabine 5'-di 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> , 2011, 108, 9815-9820.	3.3	62
10	T-REX on-demand redox targeting in live cells. <i>Nature Protocols</i> , 2016, 11, 2328-2356.	5.5	62
11	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> , 2015, 137, 6232-6244.	6.6	61
12	Temporally Controlled Targeting of 4-Hydroxynonenal to Specific Proteins in Living Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 14496-14499.	6.6	60
13	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> , 2019, 141, 4849-4860.	6.6	59
14	Enantioselective Scandium-Catalyzed Vinylsilane Additions: A New Approach to the Synthesis of Enantiopure β , β -Unsaturated β -Hydroxy Acid Derivatives. <i>Journal of the American Chemical Society</i> , 2006, 128, 11034-11035.	6.6	56
15	Akt3 is a privileged first responder in isozyme-specific electrophile response. <i>Nature Chemical Biology</i> , 2017, 13, 333-338.	3.9	56
16	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> , 2006, 8, 2071-2073.	2.4	51
17	Ube2V2 Is a Rosetta Stone Bridging Redox and Ubiquitin Codes, Coordinating DNA Damage Responses. <i>ACS Central Science</i> , 2018, 4, 246-259.	5.3	51
18	Clofarabine Targets the Large Subunit (β) of Human Ribonucleotide Reductase in Live Cells by Assembly into Persistent Hexamers. <i>Chemistry and Biology</i> , 2012, 19, 799-805.	6.2	45

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19	Post-transcriptional regulation of Nrf2 mRNA by the mRNA-binding proteins HuR and AUF1. <i>FASEB Journal</i> , 2019, 33, 14636-14652.	0.2	42
20	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> , 2008, 6, 2195.	1.5	40
21	Î-TrCP1 Is a Vacillatory Regulator of Wnt Signaling. <i>Cell Chemical Biology</i> , 2017, 24, 944-957.e7.	2.5	39
22	3.3-Å... resolution cryo-EM structure of human ribonucleotide reductase with substrate and allosteric regulators bound. <i>ELife</i> , 2018, 7, .	2.8	37
23	Cladribine and Fludarabine Nucleotides Induce Distinct Hexamers Defining a Common Mode of Reversible RNR Inhibition. <i>ACS Chemical Biology</i> , 2016, 11, 2021-2032.	1.6	33
24	Proteomics and Beyond: Cell Decision-Making Shaped by Reactive Electrophiles. <i>Trends in Biochemical Sciences</i> , 2019, 44, 75-89.	3.7	33
25	Aluminum-Catalyzed Enantio- and Diastereoselective Carbonyl Addition of Propargylsilanes. A New Approach to Enantioenriched Vinyl Epoxides. <i>Journal of the American Chemical Society</i> , 2007, 129, 9606-9607.	6.6	30
26	Cardiovascular Small Heat Shock Protein HSPB7 Is a Kinetically Privileged Reactive Electrophilic Species (RES) Sensor. <i>ACS Chemical Biology</i> , 2018, 13, 1824-1831.	1.6	24
27	Precision Targeting of pten-Null Triple-Negative Breast Tumors Guided by Electrophilic Metabolite Sensing. <i>ACS Central Science</i> , 2020, 6, 892-902.	5.3	24
28	The Die Is Cast: Precision Electrophilic Modifications Contribute to Cellular Decision Making. <i>Chemical Research in Toxicology</i> , 2016, 29, 1575-1582.	1.7	23
29	Subcellular Redox Targeting: Bridging in Vitro and in Vivo Chemical Biology. <i>ACS Chemical Biology</i> , 2017, 12, 586-600.	1.6	22
30	Nuclear RNR-1± antagonizes cell proliferation by directly inhibiting ZRANB3. <i>Nature Chemical Biology</i> , 2018, 14, 943-954.	3.9	22
31	Wdr1 and cofilin are necessary mediators of immune-cell-specific apoptosis triggered by Tecfidera. <i>Nature Communications</i> , 2021, 12, 5736.	5.8	21
32	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> , 2021, 54, 618-631.	7.6	20
33	Precision Electrophile Tagging in <i>Caenorhabditis elegans</i> . <i>Biochemistry</i> , 2018, 57, 216-220.	1.2	17
34	Getting the Message? Native Reactive Electrophiles Pass Two Out of Three Thresholds to be Bona Fide Signaling Mediators. <i>BioEssays</i> , 2018, 40, 1700240.	1.2	16
35	Genie in a bottle: controlled release helps tame natural polypharmacology?. <i>Current Opinion in Chemical Biology</i> , 2019, 51, 48-56.	2.8	16
36	Science's Response to CoVID-19. <i>ChemMedChem</i> , 2021, 16, 2288-2314.	1.6	15

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37	Uncoupling of Allosteric and Oligomeric Regulation in a Functional Hybrid Enzyme Constructed from <i>Escherichia coli</i> and Human Ribonucleotide Reductase. <i>Biochemistry</i> , 2013, 52, 7050-7059.	1.2	13
38	Single-Protein-Specific Redox Targeting in Live Mammalian Cells and <i>C. elegans</i> . <i>Current Protocols in Chemical Biology</i> , 2018, 10, e43.	1.7	13
39	Neighborhood watch: tools for defining locale-dependent subproteomes and their contextual signaling activities. <i>RSC Chemical Biology</i> , 2020, 1, 42-55.	2.0	12
40	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> , 2022, 119, .	3.3	12
41	A Fluorimetric Readout Reporting the Kinetics of Nucleotide-Induced Human Ribonucleotide Reductase Oligomerization. <i>ChemBioChem</i> , 2014, 15, 2598-2604.	1.3	9
42	Interrogating Precision Electrophile Signaling. <i>Trends in Biochemical Sciences</i> , 2019, 44, 380-381.	3.7	9
43	Clofarabine Commandeers the RNR- \pm -ZNRANB3 Nuclear Signaling Axis. <i>Cell Chemical Biology</i> , 2020, 27, 122-133.e5.	2.5	9
44	Chemical Biology Gateways to Mapping Location, Association, and Pathway Responsivity. <i>Frontiers in Chemistry</i> , 2019, 7, 125.	1.8	8
45	The more the merrier: how homo-oligomerization alters the interactome and function of ribonucleotide reductase. <i>Current Opinion in Chemical Biology</i> , 2020, 54, 10-18.	2.8	7
46	Getting the Right Grip? How Understanding Electrophile Selectivity Profiles Could Illuminate Our Understanding of Redox Signaling. <i>Antioxidants and Redox Signaling</i> , 2020, 33, 1077-1091.	2.5	6
47	Breaking the Fourth Wall: Modulating Quaternary Associations for Protein Regulation and Drug Discovery. <i>ChemBioChem</i> , 2019, 20, 1091-1104.	1.3	5
48	REX technologies for profiling and decoding the electrophile signaling axes mediated by Rosetta Stone proteins. <i>Methods in Enzymology</i> , 2020, 633, 203-230.	0.4	5
49	The mRNA-Binding Protein HuR Is a Kinetically-Privileged Electrophile Sensor. <i>Helvetica Chimica Acta</i> , 2020, 103, e2000041.	1.0	5
50	Structural Report for Sc[(R,R)-norephedrine-pybox](OTf) ₃ Dimeric Complex. <i>Journal of Chemical Crystallography</i> , 2008, 38, 49-52.	0.5	4
51	The not so identical twins: (dis)similarities between reactive electrophile and oxidant sensing and signaling. <i>Chemical Society Reviews</i> , 2021, 50, 12269-12291.	18.7	3
52	Can Precision Electrophile Signaling Make a Meaningful and Lasting Impression in Drug Design?. <i>ChemBioChem</i> , 2021, , .	1.3	2
53	Keap 1: the new Janus word on the block. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, , 128766.	1.0	2
54	Weighing up the Selenocysteine Uncovers New Sec-crets. <i>Cell Chemical Biology</i> , 2018, 25, 1315-1317.	2.5	1

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55	A primer on harnessing non-enzymatic post-translational modifications for drug design. RSC Medicinal Chemistry, 2021, 12, 1797-1807.	1.7	1
56	Hitting the Bullseye: Endogenous Electrophiles Show Remarkable Nuance in Signaling Regulation. Chemical Research in Toxicology, 2022, 35, 1636-1648.	1.7	1
57	Hiding in Plain Sight: The Issue of Hidden Variables. ACS Chemical Biology, 0, , .	1.6	1
58	Meeting Proceedings, 2017 Cornell University Baker Symposiumâ€” <i>Quo Vadis</i> : The Boundless Trajectories of Chemical Biology. ACS Chemical Biology, 2017, 12, 1445-1448.	1.6	0
59	Editorial overview: From the iceman to modern medicine. Current Opinion in Chemical Biology, 2019, 50, A1-A2.	2.8	0
60	Redox Pathways in Chemical Toxicology. Chemical Research in Toxicology, 2019, 32, 341-341.	1.7	0
61	Where Electrophile Signaling and Covalent Ligandâ€”Target Mining Converge. Chimia, 2020, 74, 659-666.	0.3	0
62	A Fluorimetric Readout Reporting the Kinetics of Nucleotideâ€”Induced Human Ribonucleotide Reductase Oligomerization. FASEB Journal, 2015, 29, 722.6.	0.2	0
63	Mechanistic Basis of Residue Specificity in Targeted Electrophilic Modification. FASEB Journal, 2015, 29, 565.10.	0.2	0
64	Oligomeric Regulation of Ribonucleotide Reductase (RNR) by Antileukemic Nucleotides. FASEB Journal, 2015, 29, 721.36.	0.2	0
65	Substoichiometric Hydroxynonylation of a Single Protein Recapitulates Wholeâ€”Cellâ€”stimulated Antioxidant Response. FASEB Journal, 2015, 29, 570.1.	0.2	0
66	Chemistryâ€”Driven Approaches to Deconstruct Redoxâ€”Linked Signal Transduction Networks. FASEB Journal, 2015, 29, 570.14.	0.2	0