

# Alan E Friedman

## List of Publications by Year in descending order

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69  
papers

5,661  
citations

186265

28  
h-index

98798

67  
g-index

72  
all docs

72  
docs citations

72  
times ranked

8324  
citing authors

#	ARTICLE	IF	CITATIONS
1	A molecular light switch for DNA: Ru(bpy) <sub>2</sub> (dppz) <sub>2</sub> <sup>+</sup> . <i>Journal of the American Chemical Society</i> , 1990, 112, 4960-4962.	13.7	1,336
2	Transport Pathways for Clearance of Human Alzheimer's Amyloid $\beta$ -Peptide and Apolipoproteins E and J in the Mouse Central Nervous System. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 909-918.	4.3	576
3	A multimodal RAGE-specific inhibitor reduces amyloid $\beta$ -mediated brain disorder in a mouse model of Alzheimer disease. <i>Journal of Clinical Investigation</i> , 2012, 122, 1377-1392.	8.2	507
4	Characterization of dipyridophenazine complexes of ruthenium(II): The light switch effect as a function of nucleic acid sequence and conformation. <i>Biochemistry</i> , 1992, 31, 10809-10816.	2.5	428
5	The influence of protein adsorption on nanoparticle association with cultured endothelial cells. <i>Biomaterials</i> , 2009, 30, 603-610.	11.4	368
6	SIRT1 is a redox-sensitive deacetylase that is post-translationally modified by oxidants and carbonyl stress. <i>FASEB Journal</i> , 2010, 24, 3145-3159.	0.5	262
7	Highly Emissive Self-Assembled BODIPY-Platinum Supramolecular Triangles. <i>Journal of the American Chemical Society</i> , 2018, 140, 7730-7736.	13.7	213
8	Inflammatory Response and Barrier Dysfunction by Different e-Cigarette Flavoring Chemicals Identified by Gas Chromatography-Mass Spectrometry in e-Liquids and e-Vapors on Human Lung Epithelial Cells and Fibroblasts. <i>Applied in Vitro Toxicology</i> , 2017, 3, 28-40.	1.1	165
9	A Self-Assembled Cofacial Cobalt Porphyrin Prism for Oxygen Reduction Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 1424-1427.	13.7	151
10	Cigarette Smoke Induces Distinct Histone Modifications in Lung Cells: Implications for the Pathogenesis of COPD and Lung Cancer. <i>Journal of Proteome Research</i> , 2014, 13, 982-996.	3.7	91
11	Exploring the associations between microRNA expression profiles and environmental pollutants in human placenta from the National Children's Study (NCS). <i>Epigenetics</i> , 2015, 10, 793-802.	2.7	91
12	$\beta$ -Adrenergic Receptor Stimulation Transactivates Protease-Activated Receptor 1 via Matrix Metalloproteinase 13 in Cardiac Cells. <i>Circulation</i> , 2012, 125, 2993-3003.	1.6	80
13	SIRT1 protects against cigarette smoke-induced lung oxidative stress via a FOXO3-dependent mechanism. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 306, L816-L828.	2.9	79
14	In vivo cardioprotection by S-nitroso-2-mercaptpropionyl glycine. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 960-968.	1.9	69
15	A Mechanism for the Oxidation of Glutathione to Glutathione Disulfide with Organotellurium(IV) and Organoselenium(IV) Compounds. A Stepwise Process with Implications for Photodynamic Therapy and Other Oxidative Chemotherapy. <i>Journal of Organic Chemistry</i> , 1994, 59, 8245-8250.	3.2	66
16	Photoreactions of the triruthenium cluster Ru <sub>3</sub> (CO) <sub>12</sub> and substituted analogs. <i>Journal of the American Chemical Society</i> , 1986, 108, 1917-1927.	13.7	64
17	Origins of High Sequence Selectivity: A Stopped-Flow Kinetics Study of DNA/RNA Hybridization by Duplex- and Triplex-Forming Oligonucleotides. <i>Biochemistry</i> , 1995, 34, 9774-9784.	2.5	64
18	SIRT1 redresses the imbalance of tissue inhibitor of matrix metalloproteinase-1 and matrix metalloproteinase-9 in the development of mouse emphysema and human COPD. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 305, L615-L624.	2.9	63

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19	Chemical Constituents Involved in E-Cigarette, or Vaping Product Use-Associated Lung Injury (EVALI). <i>Toxics</i> , 2020, 8, 25.	3.7	53
20	Mitogen- and Stress-Activated Kinase 1 (MSK1) Regulates Cigarette Smoke-Induced Histone Modifications on NF- $\kappa$ B-dependent Genes. <i>PLoS ONE</i> , 2012, 7, e31378.	2.5	51
21	Horseradish Peroxidase Phe172 $\rightarrow$ Tyr Mutant. <i>Journal of Biological Chemistry</i> , 1995, 270, 18413-18419.	3.4	49
22	Positive Halogens from Halides and Hydrogen Peroxide with Organotellurium Catalysts. <i>Journal of the American Chemical Society</i> , 1996, 118, 313-318.	13.7	48
23	Blocking S-adenosylmethionine synthesis in yeast allows selenomethionine incorporation and multiwavelength anomalous dispersion phasing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6678-6683.	7.1	45
24	Tuning the Activity of Heterogeneous Cofacial Cobalt Porphyrins for Oxygen Reduction Electrocatalysis through Self-Assembly. <i>Chemistry - A European Journal</i> , 2018, 24, 10984-10987.	3.3	41
25	A Stepwise Mechanism for Oxidative Addition of Bromine to Organoselenium(II) and Organotellurium(II) Compounds. <i>Organometallics</i> , 1994, 13, 3338-3345.	2.3	40
26	RNA binding to APOBEC3G induces the disassembly of functional deaminase complexes by displacing single-stranded DNA substrates. <i>Nucleic Acids Research</i> , 2015, 43, 9434-9445.	14.5	38
27	Proteomic and Functional Analyses of Protein-DNA Complexes During Gene Transfer. <i>Molecular Therapy</i> , 2013, 21, 775-785.	8.2	32
28	Cardiolipin biosynthesis in <i>Streptococcus mutans</i> is regulated in response to external pH. <i>Microbiology (United Kingdom)</i> , 2012, 158, 2133-2143.	1.8	30
29	Hyaline Protoplasmic Astrocytopathy of Neocortex. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009, 68, 136-147.	1.7	28
30	Tuning the Reactivity of Cofacial Porphyrin Prisms for Oxygen Reduction Using Modular Building Blocks. <i>Journal of the American Chemical Society</i> , 2021, 143, 1098-1106.	13.7	28
31	Human Papillomavirus Type 16 E6/E7 Upregulation of Nucleophosmin Is Important for Proliferation and Inhibition of Differentiation. <i>Journal of Virology</i> , 2010, 84, 5131-5139.	3.4	27
32	The Effects of EPA, DHA, and Aspirin Ingestion on Plasma Lysophospholipids and Autotaxin. Prostaglandins Leukotrienes and Essential Fatty Acids, 2010, 82, 87-95.	2.2	27
33	Characterization of a BODIPY Dye as an Active Species for Redox Flow Batteries. <i>ChemSusChem</i> , 2016, 9, 3317-3323.	6.8	27
34	Thioglycosides Are Efficient Metabolic Decoys of Glycosylation that Reduce Selectin Dependent Leukocyte Adhesion. <i>Cell Chemical Biology</i> , 2018, 25, 1519-1532.e5.	5.2	27
35	Phosphorescent Decanuclear Bimetallic Pt <sub>6</sub> M <sub>4</sub> (M = Zn, Fe) Tetrahedral Cages. <i>Inorganic Chemistry</i> , 2017, 56, 4258-4262.	4.0	26
36	Coordination-Driven Self-Assembly of Ruthenium Polypyridyl Nodes Resulting in Emergent Photophysical and Electrochemical Properties. <i>Inorganic Chemistry</i> , 2018, 57, 3587-3595.	4.0	26

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37	Cyclooxygenase-2 independent effects of cyclooxygenase-2 inhibitors on oxidative stress and intracellular glutathione content in normal and malignant human B-cells. <i>Cancer Immunology, Immunotherapy</i> , 2008, 57, 347-358.	4.2	24
38	Mass Spectrometry Detection of Histidine Phosphorylation on NM23-H1. <i>Journal of Proteome Research</i> , 2011, 10, 751-755.	3.7	23
39	Photophysical Enhancement of Triplet Emitters by Coordination-Driven Self-Assembly. <i>Chemistry - A European Journal</i> , 2017, 23, 4532-4536.	3.3	23
40	Pressure effects on the photophysical properties of the platinum(II) dimer Pt <sub>2</sub> (POP) <sub>4</sub> (POP = Tj ETQqO O O rgBT /Overlock 10 Tf 50 62). <i>Chemistry</i> , 1988, 92, 3760-3763.	2.9	19
41	Photoreactions of the triruthenium cluster HRu <sub>3</sub> (CO) <sub>10</sub> ( $\mu$ -COCH <sub>3</sub> ). Isomerization of the bridging alkylidyne ligand and competing ligand substitutions. <i>Journal of the American Chemical Society</i> , 1989, 111, 551-558.	13.7	19
42	Dense display of HIV-1 envelope spikes on the lambda phage scaffold does not result in the generation of improved antibody responses to HIV-1 Env. <i>Vaccine</i> , 2011, 29, 2637-2647.	3.8	19
43	E-Liquid Containing a Mixture of Coconut, Vanilla, and Cookie Flavors Causes Cellular Senescence and Dysregulated Repair in Pulmonary Fibroblasts: Implications on Premature Aging. <i>Frontiers in Physiology</i> , 2020, 11, 924.	2.8	17
44	Oxidation of telluropirylium dyes with ozone, chlorine, and bromine. Differing regiochemical and kinetic behavior with respect to oxidations of oxygen-, sulfur-, and selenium-containing dyes. <i>Organometallics</i> , 1994, 13, 533-540.	2.3	16
45	Rhenium(I) Phosphazane Complexes for Electrocatalytic CO <sub>2</sub> Reduction. <i>Organometallics</i> , 2019, 38, 1664-1676.	2.3	16
46	Evidence of histidine and aspartic acid phosphorylation in human prostate cancer cells. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2015, 388, 161-173.	3.0	15
47	<i>Pseudomonas aeruginosa</i> PA1006 Is a Persulfide-Modified Protein That Is Critical for Molybdenum Homeostasis. <i>PLoS ONE</i> , 2013, 8, e55593.	2.5	14
48	Photoisomerization of the ruthenium cluster HRu <sub>3</sub> (CO) <sub>10</sub> ( $\mu$ -COCH <sub>3</sub> ), an unprecedented oxygen-to-carbon alkyl migration. <i>Journal of the American Chemical Society</i> , 1986, 108, 7851-7852.	13.7	11
49	Efficient inhibition of O-glycan biosynthesis using the hexosamine analog Ac5GalNTGc. <i>Cell Chemical Biology</i> , 2021, 28, 699-710.e5.	5.2	11
50	Mass spectrometry based detection of common vitellogenin peptides across fish species for assessing exposure to estrogenic compounds in aquatic environments. <i>Science of the Total Environment</i> , 2019, 646, 400-408.	8.0	10
51	Stepwise Mechanism for Oxidative Addition of Iodine to Organotellurium(II) Compounds As Observed by Stopped-Flow Spectroscopy. <i>Organometallics</i> , 1995, 14, 1442-1449.	2.3	9
52	DNA mutagenic activity and capacity for HIV-1 restriction of the cytidine deaminase APOBEC3G depend on whether DNA or RNA binds to tyrosine 315. <i>Journal of Biological Chemistry</i> , 2017, 292, 8642-8656.	3.4	9
53	Exploring the Role of Carbonate in the Formation of an Organomanganese Tetramer. <i>Inorganic Chemistry</i> , 2017, 56, 8748-8751.	4.0	9
54	Deciphering the mechanism of O <sub>2</sub> reduction with electronically tunable non-heme iron enzyme model complexes. <i>Chemical Science</i> , 2018, 9, 5773-5780.	7.4	9

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55	Photoreactions of docosylcarbonyloctairidate(2-). Homolytic cleavage of an unsupported metal-metal bond linking two tetrahedral iridium carbonyl clusters. <i>Inorganic Chemistry</i> , 1988, 27, 594-595.	4.0	8
56	LC/LC-MS/MS of an innovative prostate human epithelial cancer (PHEC) in vitro model system. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 893-894, 34-42.	2.3	7
57	Coordination-Driven Self-Assembly of Cyclometalated Iridium Squares Using Linear Aromatic Diisocyanides. <i>Inorganic Chemistry</i> , 2021, 60, 5898-5907.	4.0	7
58	A Bis(dipyrrinato) Motif as a Building Block for Polynuclear Rhenium(I) Architectures. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4055-4060.	2.0	6
59	Synthesis, Characterization, and Catalytic Studies of Dinuclear $\text{D}_{8h}$ Metal-Phosphazane Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 5692-5700.	4.0	6
60	MRCK $\pm$ interacts with and mediates Na <sup>+</sup> , K <sup>+</sup> -ATPase-induced tight junction assembly in the lung epithelium. <i>JCI Insight</i> , 2021, 6, .	5.0	6
61	Mass spectral studies on mesoionic imidazo [1,2-a] pyrid-2 and -3-one derivatives. <i>Organic Mass Spectrometry</i> , 1972, 6, 797-804.	1.3	5
62	Coordination-Driven Self-Assembly of Silver(I) and Gold(I) Rings: Synthesis, Characterization, and Photophysical Studies. <i>Frontiers in Chemistry</i> , 2019, 7, 567.	3.6	5
63	Mass spectrometry imaging of blast overpressure induced modulation of GABA/glutamate levels in the central auditory neuraxis of Chinchilla. <i>Experimental and Molecular Pathology</i> , 2021, 119, 104605.	2.1	5
64	Phosphorescent organoplatinum(II) D <sub>2</sub> A <sub>2</sub> metallacycles: synthesis, self-assembly, and photophysical properties. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1914-1923.	2.2	4
65	Reactive Intermediates in the Thermal and Photochemical Reactions of Trinuclear Ruthenium Carbonyl Clusters. <i>ACS Symposium Series</i> , 1987, , 123-138.	0.5	3
66	Cis -Tetraammine and Cis -Bis (1,2-Ethanediamine) Complexes of Rhodium(III). <i>Inorganic Syntheses</i> , 2007, , 220-233.	0.3	3
67	Human placental study of genetics/genomic, environmental contaminant and morphology assessments from 12 U.S. Counties - Methods and results from the U.S. National Children's Study (NCS). <i>Placenta</i> , 2014, 35, A2.	1.5	1
68	Oxidation of telluropirylium dyes with ozone, chlorine, and bromine. Differing regiochemical and kinetic behavior with respect to oxidations of oxygen-, sulfur-, and selenium-containing dyes. [Erratum to document cited in CA120:79420]. <i>Organometallics</i> , 1994, 13, 2138-2138.	2.3	0
69	Targeting Redox Homeostasis As a Means to Selectively Eradicate Primary Human Leukemia Cells. <i>Blood</i> , 2011, 118, 3506-3506.	1.4	0