

Avram Gold

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,126
citations

218677

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h-index

233421

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51
all docs

51
docs citations

51
times ranked

2498
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for an Unrecognized Secondary Anthropogenic Source of Organosulfates and Sulfonates: Gas-Phase Oxidation of Polycyclic Aromatic Hydrocarbons in the Presence of Sulfate Aerosol. <i>Environmental Science & Technology</i> , 2015, 49, 6654-6664.	10.0	151
2	Effect of the Aerosol-Phase State on Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-Derived Epoxydiols (IEPOX). <i>Environmental Science and Technology Letters</i> , 2018, 5, 167-174.	8.7	131
3	Conformational Effects on the Redox Potentials of Tetraarylporphyrins Halogenated at the β -Pyrrole Positions. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 348-350.	4.4	123
4	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. <i>Environmental Science & Technology</i> , 2019, 53, 8682-8694.	10.0	111
5	Chemical Characterization of Secondary Organic Aerosol from Oxidation of Isoprene Hydroxyhydroperoxides. <i>Environmental Science & Technology</i> , 2016, 50, 9889-9899.	10.0	105
6	Assessing the impact of anthropogenic pollution on isoprene-derived secondary organic aerosol formation in $PM_{2.5}$ collected from the Birmingham, Alabama, ground site during the 2013 Southern Oxidant and Aerosol Study. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4897-4914.	4.9	105
7	Efficient Isoprene Secondary Organic Aerosol Formation from a Non-IEPOX Pathway. <i>Environmental Science & Technology</i> , 2016, 50, 9872-9880.	10.0	100
8	Highly Oxygenated Multifunctional Compounds in β -Pinene Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2017, 51, 5932-5940.	10.0	93
9	Joint Impacts of Acidity and Viscosity on the Formation of Secondary Organic Aerosol from Isoprene Epoxydiols (IEPOX) in Phase Separated Particles. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2646-2658.	2.7	80
10	Identification of Anthraquinone-Degrading Bacteria in Soil Contaminated with Polycyclic Aromatic Hydrocarbons. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3775-3781.	3.1	68
11	Effect of Organic Coatings, Humidity and Aerosol Acidity on Multiphase Chemistry of Isoprene Epoxydiols. <i>Environmental Science & Technology</i> , 2016, 50, 5580-5588.	10.0	68
12	Isoprene-Derived Organosulfates: Vibrational Mode Analysis by Raman Spectroscopy, Acidity-Dependent Spectral Modes, and Observation in Individual Atmospheric Particles. <i>Journal of Physical Chemistry A</i> , 2018, 122, 303-315.	2.5	66
13	Adenine Adducts with Diepoxybutane: Isolation and Analysis in Exposed Calf Thymus DNA. <i>Chemical Research in Toxicology</i> , 1997, 10, 1171-1179.	3.3	65
14	Fluoranthene-2,3- and -1,5-diones Are Novel Products from the Bacterial Transformation of Fluoranthene. <i>Environmental Science & Technology</i> , 2001, 35, 917-922.	10.0	64
15	Isoprene-Derived Secondary Organic Aerosol Induces the Expression of Oxidative Stress Response Genes in Human Lung Cells. <i>Environmental Science and Technology Letters</i> , 2016, 3, 250-254.	8.7	60
16	Delocalization over the heme and the axial ligands of one of the two oxidizing equivalents stored above the ferric state in the peroxidase and catalase Compound-I intermediates: indirect participation of the proximal axial ligand of iron in the oxidation reactions catalyzed by heme-based peroxidases and catalases?. <i>Journal of Biological Inorganic Chemistry</i> , 1996, 1, 377-383.	2.6	56
17	Valence-tautomerism in high-valent iron and manganese porphyrins. <i>Journal of Biological Inorganic Chemistry</i> , 2001, 6, 831-845.	2.6	55
18	Gene Expression Profiling in Human Lung Cells Exposed to Isoprene-Derived Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2017, 51, 8166-8175.	10.0	53

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19	Oxoferryl π -Cation Radical of β -Pyrrole Octachlorinated meso-Tetramesitylporphyrin: Electronic and Structural Properties. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1437-1439.	4.4	50
20	Heterogeneous Hydroxyl Radical Oxidation of Isoprene-Epoxydiol-Derived Methyltetrol Sulfates: Plausible Formation Mechanisms of Previously Unexplained Organosulfates in Ambient Fine Aerosols. <i>Environmental Science and Technology Letters</i> , 2020, 7, 460-468.	8.7	43
21	Secondary Organic Aerosol Formation via 2-Methyl-3-buten-2-ol Photooxidation: Evidence of Acid-Catalyzed Reactive Uptake of Epoxides. <i>Environmental Science and Technology Letters</i> , 2014, 1, 242-247.	8.7	42
22	The Cooling Rate- and Volatility-Dependent Glass-Forming Properties of Organic Aerosols Measured by Broadband Dielectric Spectroscopy. <i>Environmental Science & Technology</i> , 2019, 53, 12366-12378.	10.0	37
23	Electronic Effects in Transition Metal Porphyrins. 10. Effect of Ortho Substituents on the Temperature Dependence of the NMR Spectra of a Series of Spin-Admixed Perchloratoiron(III) Tetrakis(2,6- or 2,4,6-phenyl substituted)porphyrinates. <i>Inorganic Chemistry</i> , 2000, 39, 532-540.	4.0	36
24	Reactive Uptake of Isoprene Epoxydiols Increases the Viscosity of the Core of Phase-Separated Aerosol Particles. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1402-1414.	2.7	35
25	Nontarget Analysis Reveals a Bacterial Metabolite of Pyrene Implicated in the Genotoxicity of Contaminated Soil after Bioremediation. <i>Environmental Science & Technology</i> , 2017, 51, 7091-7100.	10.0	34
26	Editor's Highlight: Collaborative Cross Mouse Population Enables Refinements to Characterization of the Variability in Toxicokinetics of Trichloroethylene and Provides Genetic Evidence for the Role of PPAR Pathway in Its Oxidative Metabolism. <i>Toxicological Sciences</i> , 2017, 158, 48-62.	3.1	32
27	Chemical Characterization of Isoprene- and Monoterpene-Derived Secondary Organic Aerosol Tracers in Remote Marine Aerosols over a Quarter Century. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 935-946.	2.7	27
28	Evidence that endogenous formaldehyde produces immunogenic and atherogenic adduct epitopes. <i>Scientific Reports</i> , 2017, 7, 10787.	3.3	23
29	Isoprene-Derived Secondary Organic Aerosol Induces the Expression of MicroRNAs Associated with Inflammatory/Oxidative Stress Response in Lung Cells. <i>Chemical Research in Toxicology</i> , 2020, 33, 381-387.	3.3	22
30	The effect of aging on pyrene transformation in sediments. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 40-49.	4.3	19
31	Protein Sulfenylation: A Novel Readout of Environmental Oxidant Stress. <i>Chemical Research in Toxicology</i> , 2015, 28, 2411-2418.	3.3	19
32	Seasonal Contribution of Isoprene-Derived Organosulfates to Total Water-Soluble Fine Particulate Organic Sulfur in the United States. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2419-2432.	2.7	16
33	Polychlorinated Biphenyls Induce Oxidative DNA Adducts in Female <i>Sprague-Dawley</i> Rats. <i>Chemical Research in Toxicology</i> , 2016, 29, 1335-1344.	3.3	15
34	1,3,5-Tri-O-acetyl-2-deoxy- β -D-ERYTHRO-Pentofuranose from 2-Deoxy-D-ERYTHRO-Pentose. <i>Nucleosides & Nucleotides</i> , 1990, 9, 907-912.	0.5	13
35	Long chain lipid hydroperoxides increase the glutathione redox potential through glutathione peroxidase 4. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 950-959.	2.4	13
36	Ethenoguanines Undergo Glycosylation by Nucleoside 2-Deoxyribosyltransferases at Non-Natural Sites. <i>PLoS ONE</i> , 2014, 9, e115082.	2.5	12

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37	Trisaminohexyl isocyanurate, a urinary biomarker of HDI isocyanurate exposure. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1076, 117-129.	2.3	11
38	Morphology and Viscosity Changes after Reactive Uptake of Isoprene Epoxydiols in Submicrometer Phase Separated Particles with Secondary Organic Aerosol Formed from Different Volatile Organic Compounds. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 871-882.	2.7	11
39	A purified MAA-based ELISA is a useful tool for determining anti-MAA antibody titer with high sensitivity. <i>PLoS ONE</i> , 2017, 12, e0172172.	2.5	9
40	Initial pH Governs Secondary Organic Aerosol Phase State and Morphology after Uptake of Isoprene Epoxydiols (IEPOX). <i>Environmental Science & Technology</i> , 2022, 56, 10596-10607.	10.0	9
41	Supplementation with omega-3 fatty acids potentiates oxidative stress in human airway epithelial cells exposed to ozone. <i>Environmental Research</i> , 2020, 187, 109627.	7.5	8
42	Photoinactivation of Hepatitis A Virus by Synthetic Porphyrins. <i>Photochemistry and Photobiology</i> , 2004, 80, 294-300.	2.5	7
43	Live cell imaging of oxidative stress in human airway epithelial cells exposed to isoprene hydroxyhydroperoxide. <i>Redox Biology</i> , 2022, 51, 102281.	9.0	6
44	Organosulfates from Dark Aqueous Reactions of Isoprene-Derived Epoxydiols Under Cloud and Fog Conditions: Kinetics, Mechanism, and Effect of Reaction Environment on Regioselectivity of Sulfate Addition. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 474-486.	2.7	5
45	An unexpected butadiene diepoxide-mediated genotoxicity implies alternative mechanism for 1,3-butadiene carcinogenicity. <i>Chemosphere</i> , 2021, 266, 129149.	8.2	5
46	Identification of Stereochemical Configurations of Cyclopenta[cd]pyrene DNA Adducts in Strain A/J Mouse Lung and C3H10T1/2CL8 Cells. <i>Polycyclic Aromatic Compounds</i> , 2002, 22, 923-931.	2.6	3
47	A Solid Sorbent for Crotonaldehyde in Air. <i>AIHA Journal</i> , 1986, 47, 832-834.	0.4	2
48	Mechanisms of Solution Reactions of Cyclo-Penta[cd]Pyrene Oxide and Acenaphthylene Oxide. <i>Polycyclic Aromatic Compounds</i> , 2000, 21, 43-52.	2.6	1
49	Role of the Cyclopenta Epoxide in Metabolic Activation of the Genotoxic Cyclopentafused Derivative of Benzo[<i>a</i>]pyrene, Naphtho[1,2,3- <i>mno</i>]Acephenanthrylene. <i>Polycyclic Aromatic Compounds</i> , 1994, 7, 75-82.	2.6	0
50	Synthesis of Fmoc-Protected S-aryl cysteines and Modified Keratin Sequence Peptides as Specific Epitopes as Immunogens. <i>Polycyclic Aromatic Compounds</i> , 2002, 22, 239-248.	2.6	0