Avram Gold

List of Publications by Year
in descending order

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50 papers	2,126 citations	218677 26 h-index	233421 45 g-index
51 all docs	51 docs citations	51 times ranked	2498 citing authors

#	Article	IF	Citations
1	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. ACS Earth and Space Chemistry, 2022, 6, 871-882.	2.7	11
2	Live cell imaging of oxidative stress in human airway epithelial cells exposed to isoprene hydroxyhydroperoxide. Redox Biology, 2022, 51, 102281.	9.0	6
3	Initial pH Governs Secondary Organic Aerosol Phase State and Morphology after Uptake of Isoprene Epoxydiols (IEPOX). Environmental Science & Technology, 2022, 56, 10596-10607.	10.0	9
4	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. ACS Earth and Space Chemistry, 2021, 5, 474-486.	2.7	5
5	An unexpected butadiene diolepoxide-mediated genotoxicity implies alternative mechanism for 1,3-butadiene carcinogenicity. Chemosphere, 2021, 266, 129149.	8.2	5
6	Seasonal Contribution of Isoprene-Derived Organosulfates to Total Water-Soluble Fine Particulate Organic Sulfur in the United States. ACS Earth and Space Chemistry, 2021, 5, 2419-2432.	2.7	16
7	Isoprene-Derived Secondary Organic Aerosol Induces the Expression of MicroRNAs Associated with Inflammatory/Oxidative Stress Response in Lung Cells. Chemical Research in Toxicology, 2020, 33, 381-387.	3.3	22
8	Heterogeneous Hydroxyl Radical Oxidation of Isoprene-Epoxydiol-Derived Methyltetrol Sulfates: Plausible Formation Mechanisms of Previously Unexplained Organosulfates in Ambient Fine Aerosols. Environmental Science and Technology Letters, 2020, 7, 460-468.	8.7	43
9	Supplementation with omega-3 fatty acids potentiates oxidative stress in human airway epithelial cells exposed to ozone. Environmental Research, 2020, 187, 109627.	7.5	8
10	Joint Impacts of Acidity and Viscosity on the Formation of Secondary Organic Aerosol from Isoprene Epoxydiols (IEPOX) in Phase Separated Particles. ACS Earth and Space Chemistry, 2019, 3, 2646-2658.	2.7	80
11	The Cooling Rate- and Volatility-Dependent Glass-Forming Properties of Organic Aerosols Measured by Broadband Dielectric Spectroscopy. Environmental Science & Technology, 2019, 53, 12366-12378.	10.0	37
12	Reactive Uptake of Isoprene Epoxydiols Increases the Viscosity of the Core of Phase-Separated Aerosol Particles. ACS Earth and Space Chemistry, 2019, 3, 1402-1414.	2.7	35
13	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. Environmental Science & Technology, 2019, 53, 8682-8694.	10.0	111
14	Chemical Characterization of Isoprene- and Monoterpene-Derived Secondary Organic Aerosol Tracers in Remote Marine Aerosols over a Quarter Century. ACS Earth and Space Chemistry, 2019, 3, 935-946.	2.7	27
15	Long chain lipid hydroperoxides increase the glutathione redox potential through glutathione peroxidase 4. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 950-959.	2.4	13
16	Effect of the Aerosol-Phase State on Secondary Organic Aerosol Formation from the Reactive Uptake of Isoprene-Derived Epoxydiols (IEPOX). Environmental Science and Technology Letters, 2018, 5, 167-174.	8.7	131
17	Isoprene-Derived Organosulfates: Vibrational Mode Analysis by Raman Spectroscopy, Acidity-Dependent Spectral Modes, and Observation in Individual Atmospheric Particles. Journal of Physical Chemistry A, 2018, 122, 303-315.	2.5	66
18	Trisaminohexyl isocyanurate, a urinary biomarker of HDI isocyanurate exposure. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1076, 117-129.	2.3	11

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19	Highly Oxygenated Multifunctional Compounds in Î±-Pinene Secondary Organic Aerosol. Environmental Science & Technology, 2017, 51, 5932-5940.	10.0	93
20	Nontarget Analysis Reveals a Bacterial Metabolite of Pyrene Implicated in the Genotoxicity of Contaminated Soil after Bioremediation. Environmental Science & Technology, 2017, 51, 7091-7100.	10.0	34
21	Editorâ€™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. Toxicological Sciences, 2017, 158, 48-62.	3.1	32
22	Evidence that endogenous formaldehyde produces immunogenic and atherogenic adduct epitopes. Scientific Reports, 2017, 7, 10787.	3.3	23
23	Gene Expression Profiling in Human Lung Cells Exposed to Isoprene-Derived Secondary Organic Aerosol. Environmental Science & Technology, 2017, 51, 8166-8175.	10.0	53
24	A purified MAA-based ELISA is a useful tool for determining anti-MAA antibody titer with high sensitivity. PLoS ONE, 2017, 12, e0172172.	2.5	9
25	Effect of Organic Coatings, Humidity and Aerosol Acidity on Multiphase Chemistry of Isoprene Epoxydiols. Environmental Science & Technology, 2016, 50, 5580-5588.	10.0	68
26	Chemical Characterization of Secondary Organic Aerosol from Oxidation of Isoprene Hydroxyhydroperoxides. Environmental Science & Technology, 2016, 50, 9889-9899.	10.0	105
27	Efficient Isoprene Secondary Organic Aerosol Formation from a Non-IEPOX Pathway. Environmental Science & Technology, 2016, 50, 9872-9880.	10.0	100
28	Polychlorinated Biphenyls Induce Oxidative DNA Adducts in Female Sprague€“Dawley Rats. Chemical Research in Toxicology, 2016, 29, 1335-1344.	3.3	15
29	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 OxidantÂand Aerosol Study. Atmospheric Chemistry and Physics, 2016, 16, 4897-4914.	4.9	105
30	Isoprene-Derived Secondary Organic Aerosol Induces the Expression of Oxidative Stress Response Genes in Human Lung Cells. Environmental Science and Technology Letters, 2016, 3, 250-254.	8.7	60
31	Protein Sulfenylation: A Novel Readout of Environmental Oxidant Stress. Chemical Research in Toxicology, 2015, 28, 2411-2418.	3.3	19
32	Evidence for an Unrecognized Secondary Anthropogenic Source of Organosulfates and Sulfonates: Gas-Phase Oxidation of Polycyclic Aromatic Hydrocarbons in the Presence of Sulfate Aerosol. Environmental Science & Technology, 2015, 49, 6654-6664.	10.0	151
33	Identification of Anthraquinone-Degrading Bacteria in Soil Contaminated with Polycyclic Aromatic Hydrocarbons. Applied and Environmental Microbiology, 2015, 81, 3775-3781.	3.1	68
34	Ethenoguanines Undergo Glycosylation by Nucleoside 2â€²-Deoxyribosyltransferases at Non-Natural Sites. PLoS ONE, 2014, 9, e115082.	2.5	12
35	Secondary Organic Aerosol Formation via 2-Methyl-3-buten-2-ol Photooxidation: Evidence of Acid-Catalyzed Reactive Uptake of Epoxides. Environmental Science and Technology Letters, 2014, 1, 242-247.	8.7	42
36	Photoinactivation of Hepatitis A Virus by Synthetic Porphyrins^{Â¶}. Photochemistry and Photobiology, 2004, 80, 294-300.	2.5	7

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37	The effect of aging on pyrene transformation in sediments. Environmental Toxicology and Chemistry, 2003, 22, 40-49.	4.3	19
38	Synthesis of FMOC-Protected S -arylcysteines and Modified Keratin Sequence Peptides as Specific Epitopes as Immunogens. Polycyclic Aromatic Compounds, 2002, 22, 239-248.	2.6	0
39	Identification of Stereochemical Configurations of Cyclopenta[cd]pyrene DNA Adducts in Strain A/J Mouse Lung and C3H10T1/2CL8 Cells. Polycyclic Aromatic Compounds, 2002, 22, 923-931.	2.6	3
40	Fluoranthene-2,3- and -1,5-diones Are Novel Products from the Bacterial Transformation of Fluoranthene. Environmental Science & Technology, 2001, 35, 917-922.	10.0	64
41	Valence-tautomerism in high-valent iron and manganese porphyrins. Journal of Biological Inorganic Chemistry, 2001, 6, 831-845.	2.6	55
42	Mechanisms of Solution Reactions of Cyclo-Penta[cd]Pyrene Oxide and Acenaphthylene Oxide. Polycyclic Aromatic Compounds, 2000, 21, 43-52.	2.6	1
43	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. Inorganic Chemistry, 2000, 39, 532-540.	4.0	36
44	Adenine Adducts with Diepoxybutane:Â Isolation and Analysis in Exposed Calf Thymus DNA. Chemical Research in Toxicology, 1997, 10, 1171-1179.	3.3	65
45	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?. Journal of Biological Inorganic Chemistry, 1996, 1, 377-383.	2.6	56
46	Conformational Effects on the Redox Potentials of Tetraarylporphyrins Halogenated at theÎ²-Pyrrole Positions. Angewandte Chemie International Edition in English, 1994, 33, 348-350.	4.4	123
47	Role of the Cyclopenta Epoxide in Metabolic Activation of the Genotoxic Cyclopentafused Derivative of Benzo[e]pyrene, Naphtho[1,2,3-mno]Acephenanthrylene. Polycyclic Aromatic Compounds, 1994, 7, 75-82.	2.6	0
48	Oxoferryl Ï€-Cation Radical of Î²-Pyrrole Octachlorinatedmeso-Tetramesitylporphyrin: Electronic and Structural Properties. Angewandte Chemie International Edition in English, 1993, 32, 1437-1439.	4.4	50
49	1,3,5-Tri-O-acetyl-2-deoxy- Î±, Î²-D-ERYTHRO-Pentofuranose from 2-Deoxy-D-ERYTHRO-Pentose. Nucleosides & Nucleotides, 1990, 9, 907-912.	0.5	13
50	A Solid Sorbent for Crotonaldehyde in Air. AIHA Journal, 1986, 47, 832-834.	0.4	2