

Karam El-Bayoumy

List of Publications by Year in descending order

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93
papers

3,515
citations

159585

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docs citations

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times ranked

3543
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#	ARTICLE	IF	CITATIONS
1	The Less Harmful Cigarette: A Controversial Issue. A Tribute to Ernst L. Wynder. <i>Chemical Research in Toxicology</i> , 2001, 14, 767-790.	3.3	626
2	The protective role of selenium on genetic damage and on cancer. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2001, 475, 123-139.	1.0	290
3	Environmental carcinogens that may be involved in human breast cancer etiology. <i>Chemical Research in Toxicology</i> , 1992, 5, 585-590.	3.3	166
4	Mechanisms of mammary cancer chemoprevention by organoselenium compounds. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2004, 551, 181-197.	1.0	158
5	Comparison of the effects of an organic and an inorganic form of selenium on a mammary carcinoma cell line. <i>Carcinogenesis</i> , 1994, 15, 183-186.	2.8	137
6	Molecular chemoprevention by selenium: A genomic approach. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2005, 591, 224-236.	1.0	119
7	Cancer Chemoprevention by Garlic and Garlic-Containing Sulfur and Selenium Compounds. <i>Journal of Nutrition</i> , 2006, 136, 864S-869S.	2.9	112
8	Comparative effect of inorganic and organic selenocyanate derivatives in mammary cancer chemoprevention. <i>Carcinogenesis</i> , 1994, 15, 187-192.	2.8	108
9	Comparative tumorigenicity of benzo[a]pyrene, 1-nitropyrene and 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine administered by gavage to female CD rats. <i>Carcinogenesis</i> , 1995, 16, 431-434.	2.8	98
10	Mammary carcinogenicity in female CD rats of fjord region diol epoxides of benzo[c]phenanthrene, benzo[g]chrysene and dibenzo[a,l]pyrene. <i>Carcinogenesis</i> , 1995, 16, 1971-1974.	2.8	91
11	Chemoprevention of experimental mammary carcinogenesis by the synthetic organoselenium compound, benzylselenocyanate, in rats. <i>Carcinogenesis</i> , 1989, 10, 509-512.	2.8	67
12	Proteomic Profiling of Human Plasma by iTRAQ Reveals Down-Regulation of ITI-HC3 and VDBP by Cigarette Smoking. <i>Journal of Proteome Research</i> , 2011, 10, 1151-1159.	3.7	60
13	Chemoprevention of lung tumorigenesis induced by a mixture of benzo(a)pyrene and 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone by the organoselenium compound 1,4-phenylenebis(methylene)selenocyanate. <i>Cancer Letters</i> , 2000, 161, 35-46.	7.2	51
14	Chemoprevention of Breast Cancer by Fish Oil in Preclinical Models: Trials and Tribulations. <i>Cancer Research</i> , 2011, 71, 6091-6096.	0.9	50
15	Mutagenesis and carcinogenesis induced by dibenzo[a,l]pyrene in the mouse oral cavity: a potential new model for oral cancer. <i>International Journal of Cancer</i> , 2012, 130, 2783-2790.	5.1	46
16	Comparative effects of phenylenebis(methylene)selenocyanate isomers on xenobiotic metabolizing enzymes in organs of female CD rats. <i>Carcinogenesis</i> , 1999, 20, 615-621.	2.8	45
17	The Negative Results of the SELECT Study Do Not Necessarily Discredit the Selenium-Cancer Prevention Hypothesis. <i>Nutrition and Cancer</i> , 2009, 61, 285-286.	2.0	45
18	32P-postlabeling analysis of 1-nitropyrene-DNA adducts in female Sprague-Dawley rats. <i>Carcinogenesis</i> , 1989, 10, 195-198.	2.8	43

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19	Potential Stages for Prostate Cancer Prevention with Selenium: Implications for Cancer Survivors: Figure 1.. <i>Cancer Research</i> , 2009, 69, 2699-2703.	0.9	43
20	Molecular targets of the chemopreventive agent 1,4-phenylenebis (methylene)-selenocyanate in human non-small cell lung cancer. <i>Carcinogenesis</i> , 2006, 27, 1369-1376.	2.8	41
21	The organoselenium compound 1,4-phenylenebis(methylene)selenocyanate inhibits 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone-induced tumorigenesis and enhances glutathione-related antioxidant levels in A/J mouse lung. <i>Chemico-Biological Interactions</i> , 2006, 161, 93-103.	4.0	37
22	Carcinogenesis of the Oral Cavity: Environmental Causes and Potential Prevention by Black Raspberry. <i>Chemical Research in Toxicology</i> , 2017, 30, 126-144.	3.3	37
23	Elucidation of molecular targets of mammary cancer chemoprevention in the rat by organoselenium compounds using cDNA microarray. <i>Carcinogenesis</i> , 2003, 24, 1505-1514.	2.8	36
24	Mechanisms of oral carcinogenesis induced by dibenzo[<i>a,h</i>]pyrene: An environmental pollutant and a tobacco smoke constituent. <i>International Journal of Cancer</i> , 2013, 133, 1300-1309.	5.1	36
25	Comparative Effects of Two Different Forms of Selenium on Oxidative Stress Biomarkers in Healthy Men: A Randomized Clinical Trial. <i>Cancer Prevention Research</i> , 2014, 7, 796-804.	1.5	36
26	Comparative tumorigenicity of 6-nitrochrysene and its metabolites in newborn mice. <i>Carcinogenesis</i> , 1989, 10, 369-372.	2.8	35
27	Synthesis and characterization of a novel iNOS/Akt inhibitor Se,Se ² -1,4-phenylenebis(1,2-ethanediy)bisoselenourea (PBSe) ² against colon cancer. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 2038-2043.	2.2	35
28	Identification and Quantification of DNA Adducts in the Oral Tissues of Mice Treated with the Environmental Carcinogen Dibenzo[<i>a,h</i>]pyrene by HPLC-MS/MS. <i>Chemical Research in Toxicology</i> , 2011, 24, 1297-1303.	3.3	34
29	Multiorgan Sensitivity to Anticarcinogenesis by the Organoselenium 1,4-Phenylenebis(Methylene)Selenocyanate. <i>Nutrition and Cancer</i> , 2001, 40, 18-27.	2.0	33
30	Down-Regulation of 14-3-3 Isoforms and Annexin A5 Proteins in Lung Adenocarcinoma Induced by the Tobacco-Specific Nitrosamine NNK in the A/J Mouse Revealed by Proteomic Analysis. <i>Journal of Proteome Research</i> , 2009, 8, 4050-4061.	3.7	31
31	1,4-Phenylenebis(Methylene)Selenocyanate, but Not Selenomethionine, Inhibits Androgen Receptor and Akt Signaling in Human Prostate Cancer Cells. <i>Cancer Prevention Research</i> , 2010, 3, 975-984.	1.5	30
32	Differential impact of body mass index on absolute and percent breast density: implications regarding their use as breast cancer risk biomarkers. <i>Breast Cancer Research and Treatment</i> , 2014, 146, 355-363.	2.5	29
33	Influence of Obesity on Breast Density Reduction by Omega-3 Fatty Acids: Evidence from a Randomized Clinical Trial. <i>Cancer Prevention Research</i> , 2016, 9, 275-282.	1.5	28
34	Inhibition of Nuclear Factor- κ B DNA Binding by Organoselenocyanates through Covalent Modification of the p50 Subunit. <i>Cancer Research</i> , 2007, 67, 10475-10483.	0.9	27
35	Oxidized derivative of docosahexaenoic acid preferentially inhibit cell proliferation in triple negative over luminal breast cancer cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2015, 51, 121-127.	1.5	25
36	The selenium analog of the chemopreventive compound S,S ² -(1,4-phenylenebis[1,2-ethanediy])bisothiourea is a remarkable inducer of apoptosis and inhibitor of cell growth in human non-small cell lung cancer. <i>Chemico-Biological Interactions</i> , 2009, 180, 158-164.	4.0	24

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37	Effects of Black Raspberry Extract and Protocatechuic Acid on Carcinogen-DNA Adducts and Mutagenesis, and Oxidative Stress in Rat and Human Oral Cells. <i>Cancer Prevention Research</i> , 2016, 9, 704-712.	1.5	24
38	Hypomethylated Fgf3 is a potential biomarker for early detection of oral cancer in mice treated with the tobacco carcinogen dibenzo[def,p]chrysene. <i>PLoS ONE</i> , 2017, 12, e0186873.	2.5	23
39	Identification of 5-(Deoxyguanosin-N2-yl)-1,2-dihydroxy-1,2-dihydro-6-aminochrysene as the Major DNA Lesion in the Mammary Gland of Rats Treated with the Environmental Pollutant 6-Nitrochrysene. <i>Chemical Research in Toxicology</i> , 2004, 17, 1591-1599.	3.3	22
40	Proteomic profiling of human plasma identifies apolipoprotein E as being associated with smoking and a marker for squamous metaplasia of the lung. <i>Proteomics</i> , 2015, 15, 3267-3277.	2.2	21
41	Comparative Tumorigenicity of the Environmental Pollutant 6-Nitrochrysene and Its Metabolites in the Rat Mammary Gland. <i>Chemical Research in Toxicology</i> , 2002, 15, 972-978.	3.3	20
42	Induction of Ovarian Cancer and DNA Adducts by Dibenzo[<i>a,h</i>]pyrene in the Mouse. <i>Chemical Research in Toxicology</i> , 2012, 25, 374-380.	3.3	19
43	Comparative action of 1,4-phenylenebis(methylene)selenocyanate and its metabolites against 7,12-dimethylbenz[<i>a</i>]anthracene-DNA adduct formation in the rat and cell proliferation in rat mammary tumor cells. <i>Chemico-Biological Interactions</i> , 2003, 146, 179-190.	4.0	18
44	Comparative metabolism of benzo[<i>a</i>]pyrene by human keratinocytes infected with high-risk human papillomavirus types 16 and 18 as episomal or integrated genomes. <i>Journal of Carcinogenesis</i> , 2012, 11, 1.	2.5	18
45	Simultaneous Detection of Deoxyadenosine and Deoxyguanosine Adducts in the Tongue and Other Oral Tissues of Mice Treated with Dibenzo[<i>a,h</i>]pyrene. <i>Chemical Research in Toxicology</i> , 2014, 27, 1199-1206.	3.3	18
46	Effects of Black Raspberry Extract and Berry Compounds on Repair of DNA Damage and Mutagenesis Induced by Chemical and Physical Agents in Human Oral Leukoplakia and Rat Oral Fibroblasts. <i>Chemical Research in Toxicology</i> , 2017, 30, 2159-2164.	3.3	18
47	Comparative excretion and tissue distribution of selenium in mice and rats following treatment with the chemopreventive agent 1,4-phenylenebis(methylene)selenocyanate. <i>Chemico-Biological Interactions</i> , 2005, 151, 193-202.	4.0	17
48	A novel biologically active acid stable liposomal formulation of docosahexaenoic acid in human breast cancer cell lines. <i>Chemico-Biological Interactions</i> , 2016, 252, 1-8.	4.0	17
49	Metabolism and DNA binding of the environmental pollutant 6-nitrochrysene in primary culture of human breast cells and in cultured MCF-10A, MCF-7 and MDA-MB-435s cell lines. <i>International Journal of Cancer</i> , 2002, 100, 395-400.	5.1	16
50	The effect of selenium enrichment on baker's yeast proteome. <i>Journal of Proteomics</i> , 2012, 75, 1018-1030.	2.4	16
51	Mammary carcinogenesis and molecular analysis of in vivo cll gene mutations in the mammary tissue of female transgenic rats treated with the environmental pollutant 6-nitrochrysene. <i>Carcinogenesis</i> , 2003, 25, 637-643.	2.8	15
52	Association of Selenium Status and Blood Glutathione Concentrations in Blacks and Whites. <i>Nutrition and Cancer</i> , 2011, 63, 367-375.	2.0	15
53	Influence of omega-3 fatty acids on Tamoxifen-induced suppression of rat mammary carcinogenesis. <i>International Journal of Cancer</i> , 2014, 134, 1549-1557.	5.1	15
54	Tissue Distribution, Excretion and Pharmacokinetics of the Environmental Pollutant Dibenzo[<i>def,p</i>]chrysene in Mice. <i>Chemical Research in Toxicology</i> , 2015, 28, 1427-1433.	3.3	15

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55	Effects of Black Raspberry on Dibenzo[<i>a,h</i>]Pyrene Diol Epoxide Induced DNA Adducts, Mutagenesis, and Tumorigenesis in the Mouse Oral Cavity. <i>Cancer Prevention Research</i> , 2018, 11, 157-164.	1.5	14
56	Docosahexaenoic Acid in Combination with Dietary Energy Restriction for Reducing the Risk of Obesity Related Breast Cancer. <i>International Journal of Molecular Sciences</i> , 2018, 19, 28.	4.1	14
57	Nitroreduction of 4-Nitropyrene Is Primarily Responsible for DNA Adduct Formation in the Mammary Gland of Female CD Rats. <i>Chemical Research in Toxicology</i> , 1999, 12, 180-186.	3.3	13
58	Selenium-Responsive Proteins in the Sera of Selenium-Enriched Yeast-Supplemented Healthy African American and Caucasian Men. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2010, 19, 2332-2340.	2.5	13
59	An Integrated Approach for Preventing Oral Cavity and Oropharyngeal Cancers: Two Etiologies with Distinct and Shared Mechanisms of Carcinogenesis. <i>Cancer Prevention Research</i> , 2020, 13, 649-660.	1.5	13
60	Effects of 3H-1,2-dithiole-3-thione, 1,4-phenylenebis(methylene)selenocyanate, and selenium-enriched yeast individually and in combination on benzo[<i>a</i>]pyrene-induced mutagenesis in oral tissue and esophagus in lacZ mice. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2004, 559, 199-210.	1.7	12
61	Effects of 1,4-phenylenebis(methylene)selenocyanate on mutagenesis and p53 protein expression in the tongue of lacI rats treated with 4-nitroquinoline-N-oxide. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2007, 634, 146-155.	1.7	12
62	Inefficient Nucleotide Excision Repair in Human Cell Extracts of the <i>N</i> -(Deoxyguanosin-8-yl)-6-aminochrysene and 5-(Deoxyguanosin-2-yl)-6-aminochrysene Adducts Derived from 6-Nitrochrysene. <i>Chemical Research in Toxicology</i> , 2011, 24, 65-72.	3.3	11
63	Black Raspberry Inhibits Oral Tumors in Mice Treated with the Tobacco Smoke Constituent Dibenzo[<i>def,p</i>]chrysene Via Genetic and Epigenetic Alterations. <i>Cancer Prevention Research</i> , 2020, 13, 357-366.	1.5	11
64	Effects of E-Cigarette Aerosols with Varying Levels of Nicotine on Biomarkers of Oxidative Stress and Inflammation in Mice. <i>Chemical Research in Toxicology</i> , 2021, 34, 1161-1168.	3.3	11
65	Comparative mutational profiles of the environmental mammary carcinogen, 6-nitrochrysene and its metabolites in a lacI mammary epithelial cell line. <i>Carcinogenesis</i> , 2007, 28, 2391-2397.	2.8	10
66	Age related changes in selenium and glutathione levels in different lobes of the rat prostate. <i>Experimental Gerontology</i> , 2012, 47, 223-228.	2.8	10
67	Adenine-DNA Adduct Derived from the Nitroreduction of 6-Nitrochrysene Is More Resistant to Nucleotide Excision Repair than Guanine-DNA Adducts. <i>Chemical Research in Toxicology</i> , 2013, 26, 1746-1754.	3.3	10
68	Synthesis of anti-1,2-Dihydroxy-3,4-epoxy-1,2,3,4-tetrahydro-6-nitrochrysene and Its Reaction with 2'-Deoxyguanosine-5'-Monophosphate, 2'-Deoxyadenosine-5'-Monophosphate, and Calf Thymus DNA in <i>in vitro</i> . <i>Chemical Research in Toxicology</i> , 2000, 13, 1143-1148.		9
69	Induction of lung glutathione and glutamylcysteine ligase by 1,4-phenylenebis(methylene)selenocyanate and its glutathione conjugate: Role of nuclear factor-erythroid 2-related factor 2. <i>Free Radical Biology and Medicine</i> , 2012, 52, 2064-2071.	2.9	9
70	Changes in proteomic profiles in different prostate lobes of male rats throughout growth and development and aging stages of the life span. <i>Prostate</i> , 2013, 73, 363-375.	2.3	9
71	Effects of chronic alcohol consumption on DNA damage and immune regulation induced by the environmental pollutant dibenzo[<i>a,l</i>]pyrene in oral tissues of mice. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2017, 35, 213-222.	2.9	9
72	Effects of the environmental mammary carcinogen 6-nitrochrysene on p53 and p21Cip1 protein expression and cell cycle regulation in MCF-7 and MCF-10A cells. <i>Chemico-Biological Interactions</i> , 2007, 170, 31-39.	4.0	8

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73	Modulations of benzo[a]pyrene-induced DNA adduct, cyclin D1 and PCNA in oral tissue by 1,4-phenylenebis(methylene)selenocyanate. <i>Biochemical and Biophysical Research Communications</i> , 2009, 383, 151-155.	2.1	8
74	Proteomic Changes Induced by Effective Chemopreventive Ratios of n-3:n-6 Fatty Acids and Tamoxifen against MNU-Induced Mammary Cancer in the Rat. <i>Cancer Prevention Research</i> , 2013, 6, 979-988.	1.5	6
75	Combination of Antiestrogens and Omega-3 Fatty Acids for Breast Cancer Prevention. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	6
76	Effects of the Tobacco Carcinogens α -Nitrosonornicotine and Dibenz[a,h]pyrene Individually and in Combination on DNA Damage in Human Oral Leukoplakia and on Mutagenicity and Mutation Profiles in <i>lacI</i> Mouse Tongue. <i>Chemical Research in Toxicology</i> , 2019, 32, 1893-1899.	3.3	6
77	Lipoxygenase catalyzed metabolites derived from docosahexaenoic acid are promising antitumor agents against breast cancer. <i>Scientific Reports</i> , 2021, 11, 410.	3.3	6
78	Proteomics of rat prostate lobes treated with 2-N-hydroxylamino-1-methyl-6-phenylimidazo[4,5-b]pyridine, 5 α -dihydrotestosterone, individually and in combination. <i>International Journal of Oncology</i> , 2009, 35, 559-67.	3.3	5
79	RE: Plasma Phospholipid Fatty Acids and Prostate Cancer Risk in the SELECT Trial. <i>Journal of the National Cancer Institute</i> , 2014, 106, dju017-dju017.	6.3	5
80	Customized Prevention Trials Could Resolve the Controversy of the Effects of Omega-3 Fatty Acids on Cancer. <i>Nutrition and Cancer</i> , 2020, 72, 183-186.	2.0	5
81	The environmental pollutant and tobacco smoke constituent dibenzo[def,p]chrysene is a co-factor for malignant progression of mouse oral papillomavirus infections. <i>Chemico-Biological Interactions</i> , 2021, 333, 109321.	4.0	5
82	Detection of DNA adducts derived from the tobacco carcinogens, benzo[a]pyrene and dibenzo[def,p]chrysene in human oral buccal cells. <i>Carcinogenesis</i> , 2022, 43, 746-753.	2.8	5
83	Stereoselective Metabolism of the Environmental Mammary Carcinogen 6-Nitrochrysene to <i>trans</i> -1,2-Dihydroxy-1,2-dihydro-6-nitrochrysene by Aroclor 1254-Treated Rat Liver Microsomes and Their Comparative Mutation Profiles in a <i>lacI</i> Mammary Epithelial Cell Line. <i>Chemical Research in Toxicology</i> , 2009, 22, 1992-1997.	3.3	4
84	Comparison of an HPLC-MS/MS Method with Multiple Commercial ELISA Kits on the Determination of Levels of 8-oxo-7,8-Dihydro-2'-Deoxyguanosine in Human Urine. <i>Journal of New Developments in Chemistry</i> , 2018, 2, 1-13.	0.4	4
85	Nutrition and Tobacco-Related Cancers. , 2006, , 199-217.		3
86	Comparative Tumorigenicity and DNA Damage Induced by Dibenzo[def,p]chrysene and Its Metabolites in the Mouse Ovary. <i>Chemical Research in Toxicology</i> , 2018, 31, 1111-1118.	3.3	3
87	Black raspberry restores the expression of the tumor suppressor p120ctn in the oral cavity of mice treated with the carcinogen dibenzo[a,l]pyrene diol epoxide. <i>PLoS ONE</i> , 2021, 16, e0259998.	2.5	3
88	Mechanisms Underlying the Varied Mammary Carcinogenicity of the Environmental Pollutant 6-Nitrochrysene and Its Metabolites (α)-[R]- and (+)-[S]-1,2-Dihydroxy-1,2-dihydro-6-nitrochrysene in the Rat. <i>Chemical Research in Toxicology</i> , 2013, 26, 547-554.	3.3	2
89	Use of Freeze-dried Watercress for Detoxification of Carcinogens and Toxicants in Smokers: Implications of the Findings and Potential Opportunities. <i>Cancer Prevention Research</i> , 2022, 15, 139-141.	1.5	2
90	Syntheses of isotope-labeled tobacco-specific nitrosamines and their metabolites. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2008, 51, 226-230.	1.0	1

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91	Do omega-3 fatty acids reduce the risk of breast cancer in postmenopausal obese women?. Expert Review of Endocrinology and Metabolism, 2016, 11, 365-367.	2.4	1
92	The Role of Alliums and their Sulfur and Selenium Constituents in Cancer Prevention. , 2011, , 91-121.		1
93	Omega-3 Fatty Acids Responsive Proteins and Reduction in Breast Density in Obese Postmenopausal Women. Journal of Proteome Research, 2019, 18, 3461-3469.	3.7	0