Max Costa

List of Publications by Citations

115 papers	5,566 citations	37 h-index	73 g-index
121 ext. papers	6,422 ext. citations	4.7 avg, IF	6.35 L-index

#	Paper	IF	Citations
115	Toxicity and carcinogenicity of chromium compounds in humans. *Critical Reviews in Toxicology*, **2006**, 36, 155-63	5.7	569
114	Potential hazards of hexavalent chromate in our drinking water. *Toxicology and Applied Pharmacology*, **2003**, 188, 1-5	4.6	422
113	Mechanisms of chromium carcinogenicity and toxicity. *Critical Reviews in Toxicology*, **1993**, 23, 255-81	5.7	409
112	Epigenetics in metal carcinogenesis: nickel, arsenic, chromium and cadmium. *Metallomics*, **2009**, 1, 222-8	4.5	288
111	Arsenite alters global histone H3 methylation. *Carcinogenesis*, **2008**, 29, 1831-6	4.6	188
110	Oxidative stress alters global histone modification and DNA methylation. *Free Radical Biology and Medicine*, **2015**, 82, 22-8	7.8	186
109	Carcinogenic metals and the epigenome: understanding the effect of nickel, arsenic, and chromium. *Metallomics*, **2012**, 4, 619-27	4.5	167
108	Oral Chromium Exposure and Toxicity. *Current Environmental Health Reports*, **2015**, 2, 295-303	6.5	154
107	Nickel carcinogenesis: epigenetics and hypoxia signaling. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2005**, 592, 79-88	3.3	150
106	Effects of nickel, chromate, and arsenite on histone 3 lysine methylation. *Toxicology and Applied Pharmacology*, **2009**, 236, 78-84	4.6	149
105	Source Apportionment and Elemental Composition of PM2.5 and PM10 in Jeddah City, Saudi Arabia. *Atmospheric Pollution Research*, **2012**, 3, 331-340	4.5	135
104	Cr(III)-mediated crosslinks of glutathione or amino acids to the DNA phosphate backbone are mutagenic in human cells. *Nucleic Acids Research*, **1998**, 26, 2024-30	20.1	114
103	The control of histone methylation and gene expression by oxidative stress, hypoxia, and metals. *Free Radical Biology and Medicine*, **2012**, 53, 1041-7	7.8	113
102	Mechanisms of Chromium-Induced Toxicity. *Current Opinion in Toxicology*, **2019**, 14, 1-7	4.4	109
101	Basic mechanics of DNA methylation and the unique landscape of the DNA methylome in metal-induced carcinogenesis. *Critical Reviews in Toxicology*, **2013**, 43, 493-514	5.7	95
100	Global levels of histone modifications in peripheral blood mononuclear cells of subjects with exposure to nickel. *Environmental Health Perspectives*, **2012**, 120, 198-203	8.4	93
99	Elucidating the mechanisms of nickel compound uptake: a review of particulate and nano-nickel endocytosis and toxicity. *Toxicology and Applied Pharmacology*, **2012**, 260, 1-16	4.6	91

98	Metals and Mechanisms of Carcinogenesis. *Annual Review of Pharmacology and Toxicology*, **2019**, 59, 537-554	17.9	90
97	Hypoxia and nickel inhibit histone demethylase JMJD1A and repress Spry2 expression in human bronchial epithelial BEAS-2B cells. *Carcinogenesis*, **2010**, 31, 2136-44	4.6	76
96	Mutagenic responses of nickel oxides and nickel sulfides in Chinese hamster V79 cell lines at the xanthine-guanine phosphoribosyl transferase locus. *Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure*, **1993**, 300, 63-72		76
95	DNA-protein cross-links produced by various chemicals in cultured human lymphoma cells. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **1997**, 50, 433-49	3.2	69
94	Oxidative stress under ambient and physiological oxygen tension in tissue culture. *Current Pharmacology Reports*, **2016**, 2, 64-72	5.5	59
93	Iron- and 2-oxoglutarate-dependent dioxygenases: an emerging group of molecular targets for nickel toxicity and carcinogenicity. *BioMetals*, **2009**, 22, 191-6	3.4	58
92	Polycyclic aromatic hydrocarbons (PAHs) in indoor dust samples from Cities of Jeddah and Kuwait: Levels, sources and non-dietary human exposure. *Science of the Total Environment*, **2016**, 573, 1607-1614	10.2	56
91	Gene expression changes in human lung cells exposed to arsenic, chromium, nickel or vanadium indicate the first steps in cancer. *Metallomics*, **2012**, 4, 784-93	4.5	52
90	Molecular mechanisms of nickel carcinogenesis: gene silencing by nickel delivery to the nucleus and gene activation/inactivation by nickel-induced cell signaling. *Journal of Environmental Monitoring*, **2003**, 5, 222-3		51
89	Review of arsenic toxicity, speciation and polyadenylation of canonical histones. *Toxicology and Applied Pharmacology*, **2019**, 375, 1-4	4.6	44
88	The effect of exposure to carcinogenic metals on histone tail modifications and gene expression in human subjects. *Journal of Trace Elements in Medicine and Biology*, **2012**, 26, 174-8	4.1	43
87	Analysis of DNA-protein complexes induced by chemical carcinogens. *Journal of Cellular Biochemistry*, **1990**, 44, 127-35	4.7	43
86	Characterization of DNA-protein complexes induced in intact cells by the carcinogen chromate. *Molecular Carcinogenesis*, **1988**, 1, 125-33	5	43
85	Polycyclic aromatic hydrocarbons (PAHs) in the settled dust of automobile workshops, health and carcinogenic risk evaluation. *Science of the Total Environment*, **2017**, 601-602, 478-484	10.2	42
84	Molecular and epigenetic mechanisms of Cr(VI)-induced carcinogenesis. *Toxicology and Applied Pharmacology*, **2019**, 377, 114636	4.6	42
83	Mechanisms of c-myc degradation by nickel compounds and hypoxia. *PLoS ONE*, **2009**, 4, e8531	3.7	42
82	Differential role of hydrogen peroxide in UV-induced signal transduction. *Molecular and Cellular Biochemistry*, **2002**, 234/235, 81-90	4.2	42
81	Comparison of gene expression profiles in chromate transformed BEAS-2B cells. *PLoS ONE*, **2011**, 6, e17982	3.7	41

80	Arsenic-induced NF1transactivation through Erks- and JNKs-dependent pathways in mouse epidermal JB6 cells. *Molecular and Cellular Biochemistry*, **2001**, 222, 29-34	4.2	40
79	Alterations of histone modifications by cobalt compounds. *Carcinogenesis*, **2009**, 30, 1243-51	4.6	39
78	Particulate matter from Saudi Arabia induces genes involved in inflammation, metabolic syndrome and atherosclerosis. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2014**, 77, 751-66	3.2	37
77	The role of oxidative stress in nickel and chromate genotoxicity. *Molecular and Cellular Biochemistry* , **2002**, 234/235, 265-275	4.2	37
76	Tungsten-induced carcinogenesis in human bronchial epithelial cells. *Toxicology and Applied Pharmacology*, **2015**, 288, 33-9	4.6	36
75	PI3K/Akt/mTOR Signaling Pathway and the Biphasic Effect of Arsenic in Carcinogenesis. *Molecular Pharmacology*, **2018**, 94, 784-792	4.3	36
74	Nickel and epigenetic gene silencing. *Genes*, **2013**, 4, 583-95	4.2	35
73	SATB1 and 2 in colorectal cancer. *Carcinogenesis*, **2015**, 36, 186-91	4.6	34
72	A Potential New Mechanism of Arsenic Carcinogenesis: Depletion of Stem-Loop Binding Protein and Increase in Polyadenylated Canonical Histone H3.1 mRNA. *Biological Trace Element Research*, **2015**, 166, 72-81	4.5	34
71	Gene expression profiling and pathway analysis of human bronchial epithelial cells exposed to airborne particulate matter collected from Saudi Arabia. *Toxicology and Applied Pharmacology*, **2012** , 265, 147-57	4.6	34
70	Arsenic induces polyadenylation of canonical histone mRNA by down-regulating stem-loop-binding protein gene expression. *Journal of Biological Chemistry*, **2014**, 289, 31751-31764	5.4	32
69	Involvement of Erks activation in cadmium-induced AP-1 transactivation in vitro and in vivo. *Molecular and Cellular Biochemistry*, **2001**, 222, 141-7	4.2	32
68	Arsenic: A Global Environmental Challenge. *Annual Review of Pharmacology and Toxicology*, **2021**, 61, 47-63	17.9	32
67	Cadmium induces histone H3 lysine methylation by inhibiting histone demethylase activity. *Toxicological Sciences*, **2015**, 145, 80-9	4.4	31
66	Rats retain chromium in tissues following chronic ingestion of drinking water containing hexavalent chromium. *Biological Trace Element Research*, **2000**, 74, 41-53	4.5	30
65	Metals and molecular carcinogenesis. *Carcinogenesis*, **2020**, 41, 1161-1172	4.6	30
64	Gene expression and pathway analysis of human hepatocellular carcinoma cells treated with cadmium. *Toxicology and Applied Pharmacology*, **2015**, 288, 399-408	4.6	29
63	Hexavalent Chromium (Cr(VI)) Down-Regulates Acetylation of Histone H4 at Lysine 16 through Induction of Stressor Protein Nupr1. *PLoS ONE*, **2016**, 11, e0157317	3.7	28

62	Molecular biology of nickel carcinogenesis. *Molecular and Cellular Biochemistry*, **2001**, 222, 205-211	4.2	27
61	Molecular mechanisms of nickel carcinogenesis. *Biological Chemistry*, **2002**, 383, 961-7	4.5	27
60	Toxicogenomic effect of nickel and beyond. *Archives of Toxicology*, **2014**, 88, 1645-50	5.8	23
59	Sex-specific patterns and deregulation of endocrine pathways in the gene expression profiles of Bangladeshi adults exposed to arsenic contaminated drinking water. *Toxicology and Applied Pharmacology*, **2015**, 284, 330-8	4.6	22
58	Occupational exposure to Cr(VI): comparison between chromium levels in lymphocytes, erythrocytes, and urine. *International Archives of Occupational and Environmental Health*, **1996**, 69, 39-44	3.2	22
57	Gene expression profiles in peripheral blood mononuclear cells of Chinese nickel refinery workers with high exposures to nickel and control subjects. *Cancer Epidemiology Biomarkers and Prevention*, **2013**, 22, 261-9	4	21
56	10th NTES Conference: Nickel and Arsenic Compounds Alter the Epigenome of Peripheral Blood Mononuclear Cells. *Journal of Trace Elements in Medicine and Biology*, **2015**, 31, 209-13	4.1	20
55	Temporal variations of fine and coarse particulate matter sources in Jeddah, Saudi Arabia. *Journal of the Air and Waste Management Association*, **2018**, 68, 123-138	2.4	19
54	Role of miR-31 and SATB2 in arsenic-induced malignant BEAS-2B cell transformation. *Molecular Carcinogenesis*, **2018**, 57, 968-977	5	18
53	Association between Exposure to Ambient Air Particulates and Metabolic Syndrome Components in a Saudi Arabian Population. *International Journal of Environmental Research and Public Health*, **2017**, 15,	4.6	18
52	A comprehensive review of metal-induced cellular transformation studies. *Toxicology and Applied Pharmacology*, **2017**, 331, 33-40	4.6	17
51	Molecular Mechanisms of Malignant Transformation by Low Dose Cadmium in Normal Human Bronchial Epithelial Cells. *PLoS ONE*, **2016**, 11, e0155002	3.7	17
50	Arsenic Methyltransferase and Methylation of Inorganic Arsenic. *Biomolecules*, **2020**, 10,	5.9	16
49	Evaluation of the Effects of Airborne Particulate Matter on Bone Marrow-Mesenchymal Stem Cells (BM-MSCs): Cellular, Molecular and Systems Biological Approaches. *International Journal of Environmental Research and Public Health*, **2017**, 14,	4.6	15
48	The role of oxidative stress in nickel and chromate genotoxicity. *Molecular and Cellular Biochemistry* , **2002**, 234-235, 265-75	4.2	15
47	Sex-Specific Associations between One-Carbon Metabolism Indices and Posttranslational Histone Modifications in Arsenic-Exposed Bangladeshi Adults. *Cancer Epidemiology Biomarkers and Prevention*, **2017**, 26, 261-269	4	13
46	Association between sleeping hours and cardiometabolic risk factors for metabolic syndrome in a Saudi Arabian population. *BMJ Open*, **2015**, 5, e008590	3	13
45	In Vivo Exposures to Particulate Matter Collected from Saudi Arabia or Nickel Chloride Display Similar Dysregulation of Metabolic Syndrome Genes. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2015**, 78, 1421-36	3.2	13

44	Deregulation of SATB2 in carcinogenesis with emphasis on miRNA-mediated control. *Carcinogenesis* , **2019**, 40, 393-402	4.6	12
43	PBMC gene expression profiles of female Bangladeshi adults chronically exposed to arsenic-contaminated drinking water. *Environmental Pollution*, **2020**, 259, 113672	9.3	12
42	Structure and function of histone acetyltransferase MOF. *AIMS Biophysics*, **2015**, 2, 555-569	0.8	11
41	c-Myc mediates a hypoxia-induced decrease in acetylated histone H4. *Biochimie*, **2009**, 91, 1307-10	4.6	11
40	DNA and RNA strand scission by copper, zinc and manganese superoxide dismutases. *BioMetals*, **1996**, 9, 327-35	3.4	11
39	Nickel and cadmium-induced SLBP depletion: A potential pathway to metal mediated cellular transformation. *PLoS ONE*, **2017**, 12, e0173624	3.7	11
38	Solar Simulated Ultraviolet Radiation Induces Global Histone Hypoacetylation in Human Keratinocytes. *PLoS ONE*, **2016**, 11, e0150175	3.7	11
37	Malignant human cell transformation of Marcellus Shale gas drilling flow back water. *Toxicology and Applied Pharmacology*, **2015**, 288, 121-30	4.6	9
36	Tungsten or Wolfram: Friend or Foe?. *Current Medicinal Chemistry*, **2018**, 25, 65-74	4.3	9
35	SATB2 expression increased anchorage-independent growth and cell migration in human bronchial epithelial cells. *Toxicology and Applied Pharmacology*, **2016**, 293, 30-6	4.6	8
34	Polyadenylation of Histone H3.1 mRNA Promotes Cell Transformation by Displacing H3.3 from Gene Regulatory Elements. *IScience*, **2020**, 23, 101518	6.1	8
33	Transcription factors and stress response gene alterations in human keratinocytes following Solar Simulated Ultra Violet Radiation. *Scientific Reports*, **2017**, 7, 13622	4.9	7
32	Sodium metavanadate exhibits carcinogenic tendencies in vitro in immortalized human bronchial epithelial cells. *Metallomics*, **2013**, 5, 1357-67	4.5	7
31	Nuclear protein 1 imparts oncogenic potential and chemotherapeutic resistance in cancer. *Cancer Letters*, **2020**, 494, 132-141	9.9	7
30	Solar-simulated ultraviolet radiation induces histone 3 methylation changes in the gene promoters of matrix metalloproteinases 1 and 3 in primary human dermal fibroblasts. *Experimental Dermatology*, **2015**, 24, 384-5	4	6
29	Serum Taurine and Stroke Risk in Women: A Prospective, Nested Case-Control Study. *PLoS ONE*, **2016**, 11, e0149348	3.7	6
28	Oncogenic and tumor suppressive roles of special AT-rich sequence-binding protein. *Journal of Carcinogenesis*, **2018**, 17, 2	1.9	6
27	Tungsten exposure causes a selective loss of histone demethylase protein. *Molecular Carcinogenesis*, **2017**, 56, 1778-1788	5	5

26	Cellular shear stiffness reflects progression of arsenic-induced transformation during G1. *Carcinogenesis*, **2018**, 39, 109-117	4.6	5
25	Molecular biology of nickel carcinogenesis. *FreseniushJournal of Analytical Chemistry*, **1998**, 361, 381-385		5
24	Assays for Detecting Chromosomal Aberrations. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2000**, 3, 3.7.1	1	5
23	Molecular mechanisms of nickel carcinogenesis. *Toxicological and Environmental Chemistry*, **1995**, 49, 145-148	1.4	5
22	Development and utilization of a new simple assay for DNA-protein crosslinks as a biomarker of exposure to welding fumes. *International Archives of Occupational and Environmental Health*, **1993**, 65, S87-9	3.2	5
21	Studies on the mechanism of nickel-induced heterochromatin damage; effect on specific DNA-protein interactions. *Toxicological and Environmental Chemistry*, **1989**, 22, 167-179	1.4	5
20	Nuclear Factor B1/RelA Mediates Inflammation in Human Lung Epithelial Cells at Atmospheric Oxygen Levels. *Journal of Cellular Physiology*, **2016**, 231, 1611-20	7	5
19	Transactivation of RARE and GRE in the cellular response to arsenic. *Molecular and Cellular Biochemistry*, **2001**, 222, 119-125	4.2	4
18	Mutagenesis assays in mammalian cells. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2001**, Chapter 3, Unit3.3	1	4
17	Downregulation of hedgehog-interacting protein (HHIP) contributes to hexavalent chromium-induced malignant transformation of human bronchial epithelial cells. *Carcinogenesis*, **2021**, 42, 136-147	4.6	4
16	Wrong place, wrong time: Runt-related transcription factor 2/SATB2 pathway in bone development and carcinogenesis. *Journal of Carcinogenesis*, **2021**, 20, 2	1.9	4
15	Response to Comments by Post and Stern on Article Toxicity and Carcinogenicity of Chromium Compounds in Humans*Critical Reviews in Toxicology*, **2006**, 36, 779-779	5.7	3
14	Liprin- is required for nickel induced receptor protein tyrosine phosphatase-leukocyte antigen related receptor F (RPTP-LAR) activity. *PLoS ONE*, **2011**, 6, e22764	3.7	3
13	Plasma Anti-Glycan Antibody Profiles Associated with Nickel level in Urine. *Journal of Proteomics and Bioinformatics*, **2013**, 6, 302-312	2.1	3
12	Induction of NUPR1 and AP-1 contributes to the carcinogenic potential of nickel. *Oncology Reports*, **2021**, 45,	3.5	2
11	Peroxidase deficiency of nickel-transformed hamster cells correlates with their increased resistance to cytotoxicity of peroxides. *BioMetals*, **1996**, 9, 151-6	3.4	1
10	Epigenomics: Pioneering a New Frontier in Cancer Research. *Journal of Pharmacogenomics & Pharmacoproteomics*, **2012**, 3,		1
9	p62 functions as a signal hub in metal carcinogenesis. *Seminars in Cancer Biology*, **2021**, 76, 267-278	12.7	1

8	Introduction to the Theme "Old and New Toxicology: Interfaces with Pharmacology". *Annual Review of Pharmacology and Toxicology*, **2021**, 61, 1-7	17.9	1
7	Longitudinal impact on rat cardiac tissue transcriptomic profiles due to acute intratracheal inhalation exposures to isoflurane. *PLoS ONE*, **2021**, 16, e0257241	3.7	0
6	Detecting epigenetic changes: DNA methylation. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2001**, Chapter 3, Unit3.6	1	
5	Assays for DNA damage. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2001**, Chapter 3, Unit3.5	1	
4	Cell transformation assays. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2001**, Chapter 3, Unit3.4	1	
3	Chromatin Memory in the Development of Human Cancers. *Gene Technology*, **2014**, 3, 114	1	
2	Carcinogenic Metals Alter Histone Tail Modifications459-474		
1	Occupational exposure to Cr(VI): comparison between chromium levels in lymphocytes, erythrocytes, and urine. *International Archives of Occupational and Environmental Health*, **1996**, 69, 39-44	3.2	