Edward J Calabrese

List of Publications by Year
in descending order

470	23,851	5558 82	11288 136
papers	citations	h-index	g-index

480	480	480	16972
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cellular Stress Responses, The Hormesis Paradigm, and Vitagenes: Novel Targets for Therapeutic Intervention in Neurodegenerative Disorders. Antioxidants and Redox Signaling, 2010, 13, 1763-1811.	2.5	649
2	Biological stress response terminology: Integrating the concepts of adaptive response and preconditioning stress within a hormetic doseâ€"response framework. Toxicology and Applied Pharmacology, 2007, 222, 122-128.	1.3	631
3	Hormesis: Why it is important to toxicology and toxicologists. Environmental Toxicology and Chemistry, 2008, 27, 1451-1474.	2.2	593
4	Toxicology rethinks its central belief. Nature, 2003, 421, 691-692.	13.7	589
5	HORMESIS: The Dose-Response Revolution. Annual Review of Pharmacology and Toxicology, 2003, 43, 175-197.	4.2	552
6	The occurrence of hormetic dose responses in the toxicological literature, the hormesis database: an overview. Toxicology and Applied Pharmacology, 2005, 202, 289-301.	1.3	461
7	Paradigm lost, paradigm found: The re-emergence of hormesis as a fundamental dose response model in the toxicological sciences. Environmental Pollution, 2005, 138, 378-411.	3.7	425
8	The Hormetic Dose-Response Model Is More Common than the Threshold Model in Toxicology. Toxicological Sciences, 2003, 71, 246-250.	1.4	361
9	Hormesis: U-shaped dose responses and their centrality in toxicology. Trends in Pharmacological Sciences, 2001, 22, 285-291.	4.0	355
10	Cellular stress responses, hormetic phytochemicals and vitagenes in aging and longevity. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 753-783.	1.8	351
11	Hormesis and plant biology. Environmental Pollution, 2009, 157, 42-48.	3.7	334
12	How does hormesis impact biology, toxicology, and medicine?. Npj Aging and Mechanisms of Disease, 2017, 3, 13.	4.5	333
13	Hormetic mechanisms. Critical Reviews in Toxicology, 2013, 43, 580-606.	1.9	329
14	The hormesis database: The occurrence of hormetic dose responses in the toxicological literature. Regulatory Toxicology and Pharmacology, 2011, 61, 73-81.	1.3	315
15	U-Shaped Dose-Responses in Biology, Toxicology, and Public Health. Annual Review of Public Health, 2001, 22, 15-33.	7.6	287
16	Healthy Effects of Plant Polyphenols: Molecular Mechanisms. International Journal of Molecular Sciences, 2020, 21, 1250.	1.8	265
17	Traumatic Brain Injury: Oxidative Stress and Neuroprotection. Antioxidants and Redox Signaling, 2013, 19, 836-853.	2.5	261
18	Aging and Parkinson's Disease: Inflammaging, neuroinflammation and biological remodeling as key factors in pathogenesis. Free Radical Biology and Medicine, 2018, 115, 80-91.	1.3	255

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19	How much soil do young children ingest: An epidemiologic study. Regulatory Toxicology and Pharmacology, 1989, 10, 123-137.	1.3	235
20	Hormesis: A Generalizable and Unifying Hypothesis. Critical Reviews in Toxicology, 2001, 31, 353-424.	1.9	226
21	Hormesis is central to toxicology, pharmacology and risk assessment. Human and Experimental Toxicology, 2010, 29, 249-261.	1.1	216
22	Resveratrol commonly displays hormesis: Occurrence and biomedical significance. Human and Experimental Toxicology, 2010, 29, 980-1015.	1.1	210
23	Hormesis and medicine. British Journal of Clinical Pharmacology, 2008, 66, 594-617.	1.1	208
24	Hormesis provides a generalized quantitative estimate of biological plasticity. Journal of Cell Communication and Signaling, 2011, 5, 25-38.	1.8	198
25	Hormesis, cellular stress response and vitagenes as critical determinants in aging and longevity. Molecular Aspects of Medicine, 2011, 32, 279-304.	2.7	192
26	Hormesis: A Highly Generalizable and Reproducible Phenomenon With Important Implications for Risk Assessment. Risk Analysis, 1999, 19, 261-281.	1.5	180
27	Overcompensation Stimulation: A Mechanism for Hormetic Effects. Critical Reviews in Toxicology, 2001, 31, 425-470.	1.9	178
28	Preconditioning is hormesis part I: Documentation, dose-response features and mechanistic foundations. Pharmacological Research, 2016, 110, 242-264.	3.1	178
29	Evidence That Hormesis Represents an â€œOvercompensationâ€•Response to a Disruption in Homeostasis. Ecotoxicology and Environmental Safety, 1999, 42, 135-137.	2.9	174
30	Preconditioning is hormesis part II: How the conditioning dose mediates protection: Dose optimization within temporal and mechanistic frameworks. Pharmacological Research, 2016, 110, 265-275.	3.1	174
31	The Dose Determines the Stimulation (and Poison): Development of A Chemical Hormesis Database. International Journal of Toxicology, 1997, 16, 545-559.	0.6	173
32	Cancer Biology and Hormesis: Human Tumor Cell Lines Commonly Display Hormetic (Biphasic) Dose Responses. Critical Reviews in Toxicology, 2005, 35, 463-582.	1.9	172
33	Hormesis: Why it is Important to Toxicology and Toxicologists. Environmental Toxicology and Chemistry, 2007, preprint, 1.	2.2	170
34	Hormesis: a revolution in toxicology, risk assessment and medicine. EMBO Reports, 2004, 5, S37-40.	2.0	155
35	Hormesis: from marginalization to mainstream. Toxicology and Applied Pharmacology, 2004, 197, 125-136.	1.3	153
36	Mechanisms and Effects of Transcranial Direct Current Stimulation. Dose-Response, 2017, 15, 155932581668546.	0.7	147

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37	Hormesis: Path and Progression to Significance. International Journal of Molecular Sciences, 2018, 19, 2871.	1.8	147
38	Converging concepts: Adaptive response, preconditioning, and the Yerkesâ€"Dodson Law are manifestations of hormesis. Ageing Research Reviews, 2008, 7, 8-20.	5.0	145
39	Hormesis: A Compelling Platform for Sophisticated Plant Science. Trends in Plant Science, 2019, 24, 318-327.	4.3	145
40	Hormesis Outperforms Threshold Model in National Cancer Institute Antitumor Drug Screening Database. Toxicological Sciences, 2006, 94, 368-378.	1.4	139
41	Biphasic dose responses in biology, toxicology and medicine: Accounting for their generalizability and quantitative features. Environmental Pollution, 2013, 182, 452-460.	3.7	138
42	Hormesis: a fundamental concept in biology. Microbial Cell, 2014, 1, 145-149.	1.4	135
43	Applications of hormesis in toxicology, risk assessment and chemotherapeutics. Trends in Pharmacological Sciences, 2002, 23, 331-337.	4.0	134
44	Hormesis: changing view of the dose-response, a personal account of the history and current status. Mutation Research - Reviews in Mutation Research, 2002, 511, 181-189.	2.4	132
45	Hormesis: Highly Generalizable and Beyond Laboratory. Trends in Plant Science, 2020, 25, 1076-1086.	4.3	128
46	The road to linearity: why linearity at low doses became the basis for carcinogen risk assessment. Archives of Toxicology, 2009, 83, 203-225.	1.9	127
47	Hormetic Dose-Response Relationships in Immunology: Occurrence, Quantitative Features of the Dose Response, Mechanistic Foundations, and Clinical Implications. Critical Reviews in Toxicology, 2005, 35, 89-295.	1.9	124
48	Neuroinflammation and neurohormesis in the pathogenesis of Alzheimerâ€™s disease and Alzheimer-linked pathologies: modulation by nutritional mushrooms. Immunity and Ageing, 2018, 15, 8.	1.8	123
49	Inflammasomes, hormesis, and antioxidants in neuroinflammation: Role of NRLP3 in Alzheimer disease. Journal of Neuroscience Research, 2017, 95, 1360-1372.	1.3	120
50	The Occurrence of Chemically Induced Hormesis. Health Physics, 1987, 52, 531-541.	0.3	119
51	Vitagenes, cellular stress response, and acetylcarnitine: Relevance to hormesis. BioFactors, 2009, 35, 146-160.	2.6	118
52	An Assessment of Anxiolytic Drug Screening Tests: Hormetic Dose Responses Predominate. Critical Reviews in Toxicology, 2008, 38, 489-542.	1.9	116
53	What is hormesis and its relevance to healthy aging and longevity?. Biogerontology, 2015, 16, 693-707.	2.0	116
54	How radiotherapy was historically used to treat pneumonia: could it be useful today?. Yale Journal of Biology and Medicine, 2013, 86, 555-70.	0.2	116

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55	Getting the doseâ€“response wrong: why hormesis became marginalized and the threshold model accepted. Archives of Toxicology, 2009, 83, 227-247.	1.9	113
56	Toxicology rewrites its history and rethinks its future: Giving equal focus to both harmful and beneficial effects. Environmental Toxicology and Chemistry, 2011, 30, 2658-2673.	2.2	113
57	Hormesis: why it is important to biogerontologists. Biogerontology, 2012, 13, 215-235.	2.0	113
58	Inorganics and Hormesis. Critical Reviews in Toxicology, 2003, 33, 215-304.	1.9	111
59	Heat shock proteins and hormesis in the diagnosis and treatment of neurodegenerative diseases. Immunity and Ageing, 2015, 12, 20.	1.8	111
60	The hormetic dose-response mechanism: Nrf2 activation. Pharmacological Research, 2021, 167, 105526.	3.1	111
61	A quantitativelyâ€based methodology for the evaluation of chemical hormesis. Human and Ecological Risk Assessment (HERA), 1997, 3, 545-554.	1.7	110
62	Toxicological awakenings: the rebirth of hormesis as a central pillar of toxicology. Toxicology and Applied Pharmacology, 2005, 204, 1-8.	1.3	107
63	Neuroscience and Hormesis: Overview and General Findings. Critical Reviews in Toxicology, 2008, 38, 249-252.	1.9	107
64	Stress responses, vitagenes and hormesis as critical determinants in aging and longevity: Mitochondria as a â€œchiâ€. Immunity and Ageing, 2013, 10, 15.	1.8	107
65	The two faces of nanomaterials: A quantification of hormesis in algae and plants. Environment International, 2019, 131, 105044.	4.8	104
66	Hormesis Predicts Low-Dose Responses Better Than Threshold Models. International Journal of Toxicology, 2008, 27, 369-378.	0.6	103
67	Hormesis: The dose response for the 21st century: The future has arrived. Toxicology, 2019, 425, 152249.	2.0	103
68	Estimating the range of the maximum hormetic stimulatory response. Environmental Research, 2019, 170, 337-343.	3.7	102
69	The Importance of Hormesis to Public Health. Environmental Health Perspectives, 2006, 114, 1631-1635.	2.8	101
70	Major pathogenic mechanisms in vascular dementia: Roles of cellular stress response and hormesis in neuroprotection. Journal of Neuroscience Research, 2016, 94, 1588-1603.	1.3	101
71	Nanoparticle Exposure and Hormetic Doseâ€“Responses: An Update. International Journal of Molecular Sciences, 2018, 19, 805.	1.8	100
72	Hormesis: a highly generalizable and reproducible phenomenon with important implications for risk assessment. Risk Analysis, 1999, 19, 261-281.	1.5	99

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73	Hormesis: principles and applications. Homeopathy, 2015, 104, 69-82.	0.5	99
74	Soil Ingestion Estimates for Children Residing on a Superfund Site. Ecotoxicology and Environmental Safety, 1997, 36, 258-268.	2.9	98
75	Hormesis. Human and Experimental Toxicology, 2013, 32, 120-152.	1.1	98
76	Predicting the effect of ozone on vegetation via linear non-threshold (LNT), threshold and hormetic dose-response models. Science of the Total Environment, 2019, 649, 61-74.	3.9	97
77	A global environmental health perspective and optimisation of stress. Science of the Total Environment, 2020, 704, 135263.	3.9	97
78	Estrogen and Related Compounds: Biphasic Dose Responses. Critical Reviews in Toxicology, 2001, 31, 503-515.	1.9	96
79	Micro/nanoplastics effects on organisms: A review focusing on â€˜doseâ€™. Journal of Hazardous Materials, 2021, 417, 126084.	6.5	96
80	On the origins of the linear no-threshold (LNT) dogma by means of untruths, artful dodges and blind faith. Environmental Research, 2015, 142, 432-442.	3.7	94
81	Curcumin, Hormesis and the Nervous System. Nutrients, 2019, 11, 2417.	1.7	89
82	The linear No-Threshold (LNT) dose response model: A comprehensive assessment of its historical and scientific foundations. Chemico-Biological Interactions, 2019, 301, 6-25.	1.7	88
83	Biphasic effects of THC in memory and cognition. European Journal of Clinical Investigation, 2018, 48, e12920.	1.7	85
84	Exposure to Nanoparticles and Hormesis. Dose-Response, 2010, 8, dose-response.1.	0.7	82
85	Does the root to shoot ratio show a hormetic response to stress? An ecological and environmental perspective. Journal of Forestry Research, 2019, 30, 1569-1580.	1.7	82
86	Hormetic dose responses induced by lanthanum in plants. Environmental Pollution, 2019, 244, 332-341.	3.7	81
87	Chemical Hormesis: Its Historical Foundations as a Biological Hypothesis. Toxicologic Pathology, 1999, 27, 195-216.	0.9	80
88	Origin of the linearity no threshold (LNT) doseâ€"response concept. Archives of Toxicology, 2013, 87, 1621-1633.	1.9	80
89	Low dose radiation therapy as a potential life saving treatment for COVID-19-induced acute respiratory distress syndrome (ARDS). Radiotherapy and Oncology, 2020, 147, 212-216.	0.3	80
90	Human and veterinary antibiotics induce hormesis in plants: Scientific and regulatory issues and an environmental perspective. Environment International, 2018, 120, 489-495.	4.8	78

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91	Healthspan Enhancement by Olive Polyphenols in C. elegans Wild Type and Parkinsonâ€™s Models. International Journal of Molecular Sciences, 2020, 21, 3893.	1.8	78
92	Estimating Risk of Low Radiation Doses â€“ A Critical Review of the BEIR VII Report and its Use of the Linear No-Threshold (LNT) Hypothesis. Radiation Research, 2014, 182, 463-474.	0.7	76
93	Hormetic approaches to the treatment of Parkinson's disease: Perspectives and possibilities. Journal of Neuroscience Research, 2018, 96, 1641-1662.	1.3	75
94	Radiotherapy treatment of human inflammatory diseases and conditions: Optimal dose. Human and Experimental Toxicology, 2019, 38, 888-898.	1.1	74
95	Environmental hormesis and its fundamental biological basis: Rewriting the history of toxicology. Environmental Research, 2018, 165, 274-278.	3.7	73
96	Cellular Stress Responses, Mitostress and Carnitine Insufficiencies as Critical Determinants in Aging and Neurodegenerative Disorders: Role of Hormesis and Vitagenes. Neurochemical Research, 2010, 35, 1880-1915.	1.6	71
97	The rare earth element (REE) lanthanum (La) induces hormesis in plants. Environmental Pollution, 2018, 238, 1044-1047.	3.7	71
98	Adverse and hormetic effects in rats exposed for 12 months to low dose mixture of 13 chemicals: RLRS part III. Toxicology Letters, 2019, 310, 70-91.	0.4	71
99	Uncertainty factors and interindividual variation. Regulatory Toxicology and Pharmacology, 1985, 5, 190-196.	1.3	68
100	Ecological risks in a â€˜plasticâ€™ world: A threat to biological diversity?. Journal of Hazardous Materials, 2021, 417, 126035.	6.5	68
101	Alzheimer's Disease Drugs: An Application of the Hormetic Dose-Response Model. Critical Reviews in Toxicology, 2008, 38, 419-451.	1.9	64
102	How the US National Academy of Sciences misled the world community on cancer risk assessment: new findings challenge historical foundations of the linear dose response. Archives of Toxicology, 2013, 87, 2063-2081.	1.9	63
103	Hormesis as a mechanistic approach to understanding herbal treatments in traditional Chinese medicine. , 2018, 184, 42-50.		63
104	HORMESIS: A Fundamental Concept with Widespread Biological and Biomedical Applications. Gerontology, 2016, 62, 530-535.	1.4	60
105	Enhancing and Extending Biological Performance and Resilience. Dose-Response, 2018, 16, 155932581878450.	0.7	57
106	Osteoporosis and alzheimer pathology: Role of cellular stress response and hormetic redox signaling in aging and bone remodeling. Frontiers in Pharmacology, 2014, 5, 120.	1.6	56
107	A general classification of U-shaped dose-response relationships in toxicology and their mechanistic foundations. Human and Experimental Toxicology, 1998, 17, 353-364.	1.1	55
108	The Emergence of the Doseâ€“Response Concept in Biology and Medicine. International Journal of Molecular Sciences, 2016, 17, 2034.	1.8	55

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109	The threshold vs LNT showdown: Dose rate findings exposed flaws in the LNT model partÂ2. How a mistake led BEIR I to adopt LNT. Environmental Research, 2017, 154, 452-458.	3.7	54
110	The phytoprotective agent sulforaphane prevents inflammatory degenerative diseases and age-related pathologies via Nrf2-mediated hormesis. Pharmacological Research, 2021, 163, 105283.	3.1	54
111	Ethanol and Hormesis. Critical Reviews in Toxicology, 2003, 33, 407-424.	1.9	53
112	Hormesis in high-throughput screening of antibacterial compounds in E coli. Human and Experimental Toxicology, 2010, 29, 667-677.	1.1	53
113	Nano-pesticides: A great challenge for biodiversity? The need for a broader perspective. Nano Today, 2020, 30, 100808.	6.2	53
114	Hormesis and High-Risk Groups. Regulatory Toxicology and Pharmacology, 2002, 35, 414-428.	1.3	52
115	Hormesis and stage specific toxicity induced by cadmium in an insect model, the queen blowfly, Phormia regina Meig.. Environmental Pollution, 2003, 124, 257-262.	3.7	52
116	Key studies used to support cancer risk assessment questioned. Environmental and Molecular Mutagenesis, 2011, 52, 595-606.	0.9	52
117	Hormetic doseâ€“responses in nanotechnology studies. Science of the Total Environment, 2014, 487, 361-374.	3.9	52
118	Effects of low doses of dietary lead on red blood cell production in male and female mice. Toxicology Letters, 2003, 137, 193-199.	0.4	51
119	U-Shaped Dose Response in Behavioral Pharmacology: Historical Foundations. Critical Reviews in Toxicology, 2008, 38, 591-598.	1.9	51
120	The threshold vs LNT showdown: Dose rate findings exposed flaws in the LNT model part 1. The Russell-Muller debate. Environmental Research, 2017, 154, 435-451.	3.7	50
121	Cancer immunotherapy: how low-level ionizing radiation can play a key role. Cancer Immunology, Immunotherapy, 2017, 66, 819-832.	2.0	49
122	From Muller to mechanism: How LNT became the default model for cancer risk assessment. Environmental Pollution, 2018, 241, 289-302.	3.7	49
123	Hormesis and Ginkgo biloba (GB): Numerous biological effects of GB are mediated via hormesis. Ageing Research Reviews, 2020, 64, 101019.	5.0	49
124	Hormetic dose responses induced by antibiotics in bacteria: A phantom menace to be thoroughly evaluated to address the environmental risk and tackle the antibiotic resistance phenomenon. Science of the Total Environment, 2021, 798, 149255.	3.9	49
125	Stress Biology and Hormesis: The Yerkesâ€“Dodson Law in Psychologyâ€"A Special Case of the Hormesis Dose Response. Critical Reviews in Toxicology, 2008, 38, 453-462.	1.9	48
126	Flaws in the LNT single-hit model for cancer risk: An historical assessment. Environmental Research, 2017, 158, 773-788.	3.7	48

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127	The effects of gamma rays on longevity. Biogerontology, 2000, 1, 309-319.	2.0	47
128	Dopamine: Biphasic Dose Responses. Critical Reviews in Toxicology, 2001, 31, 563-583.	1.9	47
129	Nitric Oxide: Biphasic Dose Responses. Critical Reviews in Toxicology, 2001, 31, 489-501.	1.9	47
130	Hormesis can enhance agricultural sustainability in a changing world. Global Food Security, 2019, 20, 150-155.	4.0	47
131	Can the Concept of Hormesis Be Generalized to Carcinogenesis?. Regulatory Toxicology and Pharmacology, 1998, 28, 230-241.	1.3	46
132	Modulation of the Epileptic Seizure Threshold: Implications of Biphasic Dose Responses. Critical Reviews in Toxicology, 2008, 38, 543-556.	1.9	46
133	SARS-CoV-2 and mitochondrial health: implications of lifestyle and ageing. Immunity and Ageing, 2020, 17, 33.	1.8	46
134	Pharmacological Enhancement of Neuronal Survival. Critical Reviews in Toxicology, 2008, 38, 349-389.	1.9	45
135	Enhancing and Regulating Neurite Outgrowth. Critical Reviews in Toxicology, 2008, 38, 391-418.	1.9	44
136	Improving the scientific foundations for estimating health risks from the Fukushima incident. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19447-19448.	3.3	44
137	Daily Soil Ingestion Estimates for Children at a Superfund Site. Risk Analysis, 2000, 20, 627-636.	1.5	43
138	Hormesis within a mechanistic context. Homeopathy, 2015, 104, 90-96.	0.5	43
139	Dose response biology: The case of resveratrol. Human and Experimental Toxicology, 2010, 29, 1034-1037.	1.1	42
140	Temperature-induced hormesis in plants. Journal of Forestry Research, 2019, 30, 13-20.	1.7	42
141	Hormesis: how it could affect the risk assessment process. Human and Experimental Toxicology, 2005, 24, 265-270.	1.1	41
142	Below background levels of blood lead impact cytokine levels in male and female mice. Toxicology and Applied Pharmacology, 2006, 210, 94-99.	1.3	41
143	Drug Therapies for Stroke and Traumatic Brain Injury Often Display U-Shaped Dose Responses: Occurrence, Mechanisms, and Clinical Implications. Critical Reviews in Toxicology, 2008, 38, 557-577.	1.9	41
144	Homeopathy: Clarifying its relationship to hormesis. Human and Experimental Toxicology, 2010, 29, 531-536.	1.1	41

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145	Adaptive preconditioning in neurological diseases â€" therapeutic insights from proteostatic perturbations. Brain Research, 2016, 1648, 603-616.	1.1	41
146	Curcumin and hormesis with particular emphasis on neural cells. Food and Chemical Toxicology, 2019, 129, 399-404.	1.8	41
147	Elevated Sodium Levels in the Public Drinking Water as a Contributor to Elevated Blood Pressure Levels in the Community. Archives of Environmental Health, 1979, 34, 197-203.	0.4	40
148	Dose-Response Features of Neuroprotective Agents: An Integrative Summary. Critical Reviews in Toxicology, 2008, 38, 253-348.	1.9	40
149	Mullerâ€™s Nobel lecture on doseâ€"response for ionizing radiation: ideology or science?. Archives of Toxicology, 2011, 85, 1495-1498.	1.9	40
150	A Method to Evaluate Hormesis in Nanoparticle Dose-Responses. Dose-Response, 2012, 10, dose-response.1.	0.7	40
151	Reduction of arthritic symptoms by low dose radiation therapy (LD-RT) is associated with an anti-inflammatory phenotype. International Journal of Radiation Biology, 2013, 89, 278-286.	1.0	40
152	New insights into the role of melatonin in plants and animals. Chemico-Biological Interactions, 2019, 299, 163-167.	1.7	40
153	Hormesis as a Biological Hypothesis. Environmental Health Perspectives, 1998, 106, 357.	2.8	39
154	Pre- and post-conditioning hormesis in elderly mice, rats, and humans: its loss and restoration. Biogerontology, 2016, 17, 681-702.	2.0	39
155	Hormesis, cellular stress response, and redox homeostasis in autism spectrum disorders. Journal of Neuroscience Research, 2016, 94, 1488-1498.	1.3	39
156	Accumulator plants and hormesis. Environmental Pollution, 2021, 274, 116526.	3.7	39
157	Androgens: Biphasic Dose Responses. Critical Reviews in Toxicology, 2001, 31, 517-522.	1.9	38
158	Hormesis, cellular stress response and neuroinflammation in schizophrenia: Early onset versus late onset state. Journal of Neuroscience Research, 2017, 95, 1182-1193.	1.3	38
159	What proportion of household dust is derived from outdoor soil?. Journal of Soil Contamination, 1992, 1, 253-263.	0.5	37
160	Chemotherapeutics and Hormesis. Critical Reviews in Toxicology, 2003, 33, 305-353.	1.9	37
161	Mullerâ€™s Nobel Prize Lecture: When Ideology Prevailed Over Science. Toxicological Sciences, 2012, 126, 1-4.	1.4	37
162	Hydrogen Sulfide and Carnosine: Modulation of Oxidative Stress and Inflammation in Kidney and Brain Axis. Antioxidants, 2020, 9, 1303.	2.2	37

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163	The Role of X-Rays in the Treatment of Gas Gangrene: A Historical Assessment. Dose-Response, 2012, 10, dose-response.1.	0.7	36
164	Historical use of x-rays. Human and Experimental Toxicology, 2014, 33, 542-553.	1.1	36
165	Low dose radiation therapy (LD-RT) is effective in the treatment of arthritis: Animal model findings. International Journal of Radiation Biology, 2013, 89, 287-294.	1.0	35
166	Hormesis: from mainstream to therapy. Journal of Cell Communication and Signaling, 2014, 8, 289-291.	1.8	35
167	A quantitative assessment of hormetic responses of plants to ozone. Environmental Research, 2019, 176, 108527.	3.7	35
168	Elevated Blood Pressure and High Sodium Levels in the Public Drinking Water. Archives of Environmental Health, 1977, 32, 200-202.	0.4	34
169	The Future of Hormesis: Where Do We Go from Here?. Critical Reviews in Toxicology, 2001, 31, 637-648.	1.9	34
170	Does Green Tea Induce Hormesis?. Dose-Response, 2020, 18, 155932582093617.	0.7	34
171	The role of hormesis in the functional performance and protection of neural systems. Brain Circulation, 2017, 3, 1.	0.7	34
172	Agonist Concentration Gradients as a Generalizable Regulatory Implementation Strategy. Critical Reviews in Toxicology, 2001, 31, 471-473.	1.9	33
173	LNTgate: How scientific misconduct by the U.S. NAS led to governments adopting LNT for cancer risk assessment. Environmental Research, 2016, 148, 535-546.	3.7	33
174	Hormesis induced by silver iodide, hydrocarbons, microplastics, pesticides, and pharmaceuticals: Implications for agroforestry ecosystems health. Science of the Total Environment, 2022, 820, 153116.	3.9	33
175	The Marginalization of Hormesis. Toxicologic Pathology, 1999, 27, 187-194.	0.9	32
176	A trigger mechanism of herbicides to phytoplankton blooms: From the standpoint of hormesis involving cytochrome b559, reactive oxygen species and nitric oxide. Water Research, 2020, 173, 115584.	5.3	32
177	Hormesis at the National Toxicology Program (NTP): Evidence of Hormetic Dose Responses in NTP Dose-Range Studies. Nonlinearity in Biology, Toxicology, Medicine, 2003, 1, 154014203902710.	0.4	31
178	Astrocytes: Adaptive Responses to Low Doses of Neurotoxins. Critical Reviews in Toxicology, 2008, 38, 463-471.	1.9	31
179	X-Ray treatment of carbuncles and furuncles (boils). Human and Experimental Toxicology, 2013, 32, 817-827.	1.1	31
180	Peptides and Hormesis. Critical Reviews in Toxicology, 2003, 33, 355-405.	1.9	30

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181	Transcriptomics and proteomics. Applications to ecotoxicology. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2007, 2, 245-249.	0.4	30
182	Use of X-rays to treat shoulder tendonitis/bursitis: a historical assessment. Archives of Toxicology, 2014, 88, 1503-1517.	1.9	30
183	Hormesis mediates dose-sensitive shifts in macrophage activation patterns. Pharmacological Research, 2018, 137, 236-249.	3.1	30
184	Commentary: EPA's proposed expansion of dose-response analysis is a positive step towards improving its ecological risk assessment. Environmental Pollution, 2019, 246, 566-570.	3.7	30
185	Environmental toxicology and ecotoxicology: How clean is clean? Rethinking dose-response analysis. Science of the Total Environment, 2020, 746, 138769.	3.9	30
186	Nrf2 activation putatively mediates clinical benefits of low-dose radiotherapy in COVID-19 pneumonia and acute respiratory distress syndrome (ARDS): Novel mechanistic considerations. Radiotherapy and Oncology, 2021, 160, 125-131.	0.3	30
187	Hormesis: A potential strategic approach to the treatment of neurodegenerative disease. International Review of Neurobiology, 2020, 155, 271-301.	0.9	30
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