Quinoid redox cycling as a mechanism for sustained free radical generation by inhaled airborne particulate matte

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Free Radical Biology and Medicine, 2001, 31, 1132-8.

#	Paper	IF	Citations
372	Comparison of the pro-oxidative and proinflammatory effects of organic diesel exhaust particle chemicals in bronchial epithelial cells and macrophages. **2002**, 169, 4531-41		260
371	The origin, fate, and health effects of combustion by-products: a research framework. **2002**, 110, 1155-62		44
370	Protein oxidation at the air-lung interface. **2003**, 25, 375-96		77
369	Pulmonary arterial endothelial cells affect the redox status of coenzyme Q0. *Free Radical Biology and Medicine*, **2003**, 34, 892-907	7.8	16
368	Oxidative stress and calcium signaling in the adverse effects of environmental particles (PM10). *Free Radical Biology and Medicine*, **2003**, 34, 1369-82	7.8	331
367	Reactive oxygen species in pulmonary inflammation by ambient particulates. *Free Radical Biology and Medicine*, **2003**, 35, 327-40	7.8	284
366	X-ray spectroscopic studies of the high temperature reduction of Cu(II)O by 2-chlorophenol on a simulated fly ash surface. *Environmental Science & Technology*, **2003**, 37, 931-5	10.3	42
365	Nicotinamide adenine dinucleotide (phosphate) reduced:quinone oxidoreductase and glutathione S-transferase M1 polymorphisms and childhood asthma. **2003**, 168, 1199-204		86
364	Involvement of reactive oxygen species in the metabolic pathways triggered by diesel exhaust particles in human airway epithelial cells. **2003**, 285, L671-9		211
363	Inhaled particles and lung cancer. Part A: Mechanisms. **2004**, 109, 799-809		477
362	Physicochemical characteristics and biological activities of seasonal atmospheric particulate matter sampling in two locations of Paris. *Environmental Science & Technology*, **2004**, 38, 5985-92	10.3	89
361	Genotoxicity of airborne particulate matter: the role of cell-particle interaction and of substances with adduct-forming and oxidizing capacity. **2004**, 565, 1-10		55
360	Oxidant mechanisms in response to ambient air particles. **2004**, 25, 169-82		180
359	An in vitro and in vivo investigation of the effects of diesel exhaust on human airway lining fluid antioxidants. **2004**, 423, 200-12		179
358	9,10-Phenanthraquinone in diesel exhaust particles downregulates Cu,Zn-SOD and HO-1 in human pulmonary epithelial cells: intracellular iron scavenger 1,10-phenanthroline affords protection against apoptosis. *Free Radical Biology and Medicine*, **2005**, 38, 388-95	7.8	67
357	Genotoxicity and physicochemical characteristics of traffic-related ambient particulate matter. **2005**, 46, 71-80		79
356	Nitrotyrosine-modified proteins and oxidative stress induced by diesel exhaust particles. **2005**, 26, 280-92		40

355	Determination of selected polycyclic aromatic hydrocarbons and oxygenated polycyclic aromatic hydrocarbons in aerosol samples by high-performance liquid chromatography and liquid chromatography-tandem mass spectrometry. **2005**, 381, 508-19		60
354	Combustion-derived nanoparticles: a review of their toxicology following inhalation exposure. **2005**, 2, 10		602
353	Combustion of dried animal dung as biofuel results in the generation of highly redox active fine particulates. **2005**, 2, 6		77
352	Diesel exhaust activates redox-sensitive transcription factors and kinases in human airways. **2005**, 289, L724-30		127
351	Electron paramagnetic resonance study of the generation of reactive oxygen species catalysed by transition metals and quinoid redox cycling by inhalable ambient particulate matter. **2005**, 10, 37-51		151
350	Exposure to traffic exhausts and oxidative DNA damage. **2005**, 62, 216-22		78
349	Development and application of an electron spin resonance spectrometry method for the determination of oxygen free radical formation by particulate matter. *Environmental Science & Technology*, **2005**, 39, 8420-6	10.3	49
348	Redox activity of airborne particulate matter at different sites in the Los Angeles Basin. *Environmental Research*, **2005**, 99, 40-7	7.9	472
347	Comparative study of the formation of oxidative damage marker 8-hydroxy-2Ɵdeoxyguanosine (8-OHdG) adduct from the nucleoside 2Ɵdeoxyguanosine by transition metals and suspensions of particulate matter in relation to metal content and redox reactivity. **2005**, 39, 1071-81		67
346	Formation of cyclopentadienyl radical from the gas-phase pyrolysis of hydroquinone, catechol, and phenol. *Environmental Science & Technology*, **2006**, 40, 5071-6	10.3	62
345	Carbon nanotubes: a review of their properties in relation to pulmonary toxicology and workplace safety. **2006**, 92, 5-22		924
344	Aerosol-borne quinones and reactive oxygen species generation by particulate matter extracts. *Environmental Science & Technology*, **2006**, 40, 4880-6	10.3	170
343	Oxidant denuder sampling for analysis of polycyclic aromatic hydrocarbons and their oxygenated derivates in ambient aerosol: evaluation of sampling artefact. *Chemosphere*, **2006**, 62, 1889-98	8.4	62
342	Toxicological assessment of ambient and traffic-related particulate matter: a review of recent studies. **2006**, 613, 103-22		311
341	The role of iron in reactive oxygen species generation from diesel exhaust particles. **2006**, 20, 851-7		42
340	The potential risks of nanomaterials: a review carried out for ECETOC. **2006**, 3, 11		870
339	Determination of oxygenated polycyclic aromatic hydrocarbons in particulate matter using high-performance liquid chromatography-tandem mass spectrometry. **2006**, 1133, 241-7		43
338	Physicochemical and redox characteristics of particulate matter (PM) emitted from gasoline and diesel passenger cars. *Atmospheric Environment*, **2006**, 40, 6988-7004	5.3	169

337	Bioreactivity of particulate matter in Beijing air: results from plasmid DNA assay. *Science of the Total Environment*, **2006**, 367, 261-72	10.2	43
336	Origin and health impacts of emissions of toxic by-products and fine particles from combustion and thermal treatment of hazardous wastes and materials. **2006**, 114, 810-7		128
335	Organic extracts of urban aerosol (2006, 90, 377-84		21
334	Determination of Selective Quinones and Quinoid Radicals in Airborne Particulate Matter and Vehicular Exhaust Particles. **2006**, 3, 118		55
333	Oxidant generation by particulate matter: from biologically effective dose to a promising, novel metric. **2007**, 64, 73-4		138
332	Relationship between radical generation by urban ambient particulate matter and pulmonary function of school children. **2006**, 69, 245-62		28
331	Is air pollution a cause of cardiovascular disease? Updated review and controversies. **2007**, 22, 115-37		56
330	Cigarette smoke-induced proinflammatory alterations in the endothelial phenotype: role of NAD(P)H oxidase activation. **2007**, 292, H130-9		162
329	Concentration of oxygenated polycyclic aromatic hydrocarbons and oxygen free radical formation from urban particulate matter. **2007**, 70, 1866-9		51
328	Lung fibrotic responses to particle exposure. **2007**, 35, 148-53		77
327	Toxicology of Nanoparticles in Environmental Air Pollution. **2007**,		
326	[Air pollution and respiratory diseases: a central role for oxidative stress]. **2007**, 23, 497-501		5
325	Diesel exhaust particles induce matrix metalloprotease-1 in human lung epithelial cells via a NADP(H) oxidase/NOX4 redox-dependent mechanism. **2007**, 293, L170-81		72
324	Daytime resolved analysis of polycyclic aromatic hydrocarbons in urban aerosol samples - impact of sources and meteorological conditions. *Chemosphere*, **2007**, 67, 934-43	8.4	52
323	Source-dependent variation in hydroxyl radical production by airborne particulate matter. *Environmental Science & Technology*, **2007**, 41, 2364-70	10.3	45
322	Quinone emissions from gasoline and diesel motor vehicles. *Environmental Science & Technology*, **2007**, 41, 4548-54	10.3	111
321	Impact of air pollution and genotype variability on DNA damage in Prague policemen. **2007**, 172, 37-47		56
320	Genotoxicity of poorly soluble particles. **2007**, 19 Suppl 1, 189-98		203

319	Formation and stabilization of persistent free radicals. **2007**, 31, 521-528		198
318	The health effects of combustion-generated aerosols. **2007**, 31, 2757-2770		248
317	Relationship between redox activity and chemical speciation of size-fractionated particulate matter. **2007**, 4, 5		180
316	Combustion-derived nanoparticles: mechanisms of pulmonary toxicity. **2007**, 34, 1044-50		104
315	Assessment of oxidative DNA damage formation by organic complex mixtures from airborne particles PM(10). **2007**, 620, 135-44		18
314	Carbon black particles increase reactive oxygen species formation in rat alveolar macrophages in vitro. **2007**, 81, 441-6		44
313	Production of ozone and reactive oxygen species after welding. **2007**, 53, 513-8		33
312	Reduced alveolar macrophage migration induced by acute ambient particle (PM10) exposure. **2008**, 24, 243-52		28
311	[Influence of environmental factors on allergy development]. **2008**, 56, 752-8		3
310	Diesel exhaust increases EGFR and phosphorylated C-terminal Tyr 1173 in the bronchial epithelium. **2008**, 5, 8		57
309	Persistent free radicals, heavy metals and PAHs generated in particulate soot emissions and residue ash from controlled combustion of common types of plastic. *Journal of Hazardous Materials* , **2008**, 156, 277-84	12.8	113
308	Ab initio study of the formation and degradation reactions of semiquinone and phenoxyl radicals. **2008**, 848, 16-23		32
307	On the interaction between glyceraldehyde-3-phosphate dehydrogenase and airborne particles: Evidence for electrophilic species. *Atmospheric Environment*, **2008**, 42, 517-529	5.3	23
306	Atmospheric formation of 9,10-phenanthraquinone in the Los Angeles air basin. *Atmospheric Environment*, **2008**, 42, 2312-2319	5.3	58
305	Polycyclic aromatic hydrocarbons in size-segregated particulate matter from six urban sites in Europe. *Atmospheric Environment*, **2008**, 42, 9087-9097	5.3	82
304	Oxidatively damaged DNA and its repair after experimental exposure to wood smoke in healthy humans. **2008**, 642, 37-42		63
303	Airborne particulate matter and human health: toxicological assessment and importance of size and composition of particles for oxidative damage and carcinogenic mechanisms. **2008**, 26, 339-62		877
302	Development and evaluation of a particle-bound reactive oxygen species generator. **2008**, 39, 168-174		16

301	Hazard and risk assessment of a nanoparticulate cerium oxide-based diesel fuel additive - a case study. **2008**, 20, 547-66		234
300	Mechanisms of molecular product and persistent radical formation from the pyrolysis of hydroquinone. *Chemosphere*, **2008**, 71, 107-13	8.4	35
299	Mechanisms of product formation from the pyrolytic thermal degradation of catechol. *Chemosphere*, **2008**, 73, 629-33	8.4	54
298	Evaluating the toxicity of airborne particulate matter and nanoparticles by measuring oxidative stress potential--a workshop report and consensus statement. **2008**, 20, 75-99		407
297	Characterization of products formed in the reaction of ozone with alpha-pinene: case for organic peroxides. **2008**, 10, 966-74		31
296	Chemical compositions responsible for inflammation and tissue damage in the mouse lung by coarse and fine particulate samples from contrasting air pollution in Europe. **2008**, 20, 1215-31		62
295	Source apportionment of in vitro reactive oxygen species bioassay activity from atmospheric particulate matter. *Environmental Science & Technology*, **2008**, 42, 7502-9	10.3	136
294	Copper oxide-based model of persistent free radical formation on combustion-derived particulate matter. *Environmental Science & Technology*, **2008**, 42, 4982-8	10.3	176
293	Radicals from the Gas-Phase Pyrolysis of Hydroquinone: 1. Temperature Dependence of the Total Radical Yield. **2008**, 22, 2986-2990		23
292	Mechanisms related to the genotoxicity of particles in the subway and from other sources. **2008**, 21, 726-31		100
291	Development and Laboratory Testing of an Automated Monitor for the Measurement of Atmospheric Particle-Bound Reactive Oxygen Species (ROS). **2008**, 42, 629-635		51
290	A Macrophage-Based Method for the Assessment of the Reactive Oxygen Species (ROS) Activity of Atmospheric Particulate Matter (PM) and Application to Routine (Daily-24 h) Aerosol Monitoring Studies. **2008**, 42, 946-957		127
289	Vasoprotective effects of resveratrol and SIRT1: attenuation of cigarette smoke-induced oxidative stress and proinflammatory phenotypic alterations. **2008**, 294, H2721-35		211
288	Cardiovascular effects of air pollution. **2008**, 115, 175-87		442
287	Chapter 9 Cell Signaling by Oxidants: Pathways Leading to Activation of Mitogen-activated Protein Kinases (MAPK) and Activator Protein-1 (AP-1). **2008**, 191-209		3
286	Oxidative stress and accelerated vascular aging: implications for cigarette smoking. **2009**, 14, 3128-44		126
285	Associations of urban air particulate composition with inflammatory and cytotoxic responses in RAW 246.7 cell line. **2009**, 21, 994-1006		73
284	Particle-Lung Interactions. **2009**,		5

283	The adjuvant effect of ambient particulate matter is closely reflected by the particulate oxidant potential. **2009**, 117, 1116-23		179
282	Role of Paris PM(2.5) components in the pro-inflammatory response induced in airway epithelial cells. **2009**, 261, 126-35		50
281	Evaluation of Direct-Oxidative DNA Damage on Human Lung Epithelial Cells Exposed to Urban Airborne Particulate Matter. **2009**, 9, 69-77		1
280	The limits of testing particle-mediated oxidative stress in vitro in predicting diverse pathologies; relevance for testing of nanoparticles. **2009**, 6, 13		84
279	Health effects of residential wood smoke particles: the importance of combustion conditions and physicochemical particle properties. **2009**, 6, 29		228
278	Synergistic effect of co-exposure to carbon black and Fe2O3 nanoparticles on oxidative stress in cultured lung epithelial cells. **2009**, 6, 4		63
277	Influence of ozone on traffic-related particulate matter on the generation of hydroxyl radicals through a heterogeneous synergistic effect. *Journal of Hazardous Materials*, **2009**, 162, 886-92	12.8	21
276	PM2.5 constituents and oxidative DNA damage in humans. *Environmental Science & Technology* , **2009**, 43, 4757-62	10.3	103
275	Generation of hydroxyl radicals from ambient fine particles in a surrogate lung fluid solution. *Environmental Science & Technology*, **2009**, 43, 922-7	10.3	80
274	Diesel exhaust particles induce apoptosis via p53 and Mdm2 in J774A.1 macrophage cell line. **2009**, 23, 21-8		19
273	N-acetylcysteineamide (NACA) prevents inflammation and oxidative stress in animals exposed to diesel engine exhaust. **2009**, 187, 187-93		32
272	Tobacco smoke: involvement of reactive oxygen species and stable free radicals in mechanisms of oxidative damage, carcinogenesis and synergistic effects with other respirable particles. **2009**, 6, 445-62		303
271	Air pollution and antibodies against modified lipoproteins are associated with atherosclerosis and vascular remodeling in hyperlipemic mice. **2009**, 207, 368-73		61
270	EPR spectra of aerosol particles formed by pyrolysis of C3H8 plus Ar and C3H8 plus Fe(CO)5 plus Ar mixtures in a flow reactor. **2009**, 35, 625-637		2
269	Carbon-Centered Free Radicals in Particulate Matter Emissions from Wood and Coal Combustion. **2009**, 23, 2523-2526		66
268	Oxidative Stress More Strongly Induced by ortho- Than para-quinoid Polycyclic Aromatic Hydrocarbons in A549 Cells. **2009**, 55, 845-850		45
267	Oxidative stress and endothelial dysfunction: say NO to cigarette smoking!. **2010**, 16, 2539-50		55
266	Toxicology of Combustion Products. **2010**, 357		2

265	Role of oxidative damage in toxicity of particulates. **2010**, 44, 1-46		307
264	Roles of oxidative stress in signaling and inflammation induced by particulate matter. **2010**, 26, 481-98		113
263	Chemical composition of ambient particulate matter and redox activity. **2010**, 169, 597-606		36
262	Exposure assessment of PM2.5 and urinary 8-OHdG for diesel exhaust emission inspector. *Science of the Total Environment*, **2010**, 408, 505-10	10.2	31
261	Oxygenated polycyclic aromatic hydrocarbons in atmospheric particulate matter: Molecular characterization and occurrence. *Atmospheric Environment*, **2010**, 44, 1831-1846	5.3	227
260	The application of profluorescent nitroxides to detect reactive oxygen species derived from combustion-generated particulate matter: Cigarette smoke A case study. *Atmospheric Environment*, **2010**, 44, 2224-2230	5.3	36
259	Personal exposure to particulate PAHs and anthraquinone and oxidative DNA damages in humans. *Chemosphere*, **2010**, 81, 1280-5	8.4	88
258	Particulate matter air pollution and cardiovascular disease: An update to the scientific statement from the American Heart Association. **2010**, 121, 2331-78		4009
257	DNA strand breakage and lipid peroxidation after exposure to welding fumes in vivo. **2010**, 25, 71-6		16
256	Particulate matter oxidative potential from waste transfer station activity. **2010**, 118, 493-8		38
255	Radicals from the gas-phase pyrolysis of catechol: 1. o-Semiquinone and ipso-catechol radicals. **2010**, 114, 2306-12		28
254	Potential for misidentification of environmentally persistent free radicals as molecular pollutants in particulate matter. *Environmental Science & Technology*, **2010**, 44, 1933-9	10.3	77
253	Oxidative damage induced by carcinogenic polycyclic aromatic hydrocarbons and organic extracts from urban air particulate matter. **2010**, 696, 114-21		49
252	The time course of vasoconstriction and endothelin receptor A expression in pulmonary arterioles of mice continuously exposed to ambient urban levels of air pollution. *Environmental Research*, **2010**, 110, 237-43	7.9	17
251	In vitro and in vivo assessment of pulmonary risk associated with exposure to combustion generated fine particles. **2010**, 29, 173-82		44
250	An acellular assay to assess the genotoxicity of complex mixtures of organic pollutants bound on size segregated aerosol. Part II: oxidative damage to DNA. **2010**, 198, 312-6		15
249	Ocular discomfort by environmental and personal risk factors altering the precorneal tear film. **2010**, 199, 203-12		66
248	The Role of Stable Free Radicals, Metals and PAHs of Airborne Particulate Matter in Mechanisms of Oxidative Stress and Carcinogenicity. **2010**, 411-426		9

247	In vivo and In vitro Assessment of Particulate Matter Toxicology. **2010**, 427-449		1
246	Reactive oxygen species activity and chemical speciation of size-fractionated atmospheric particulate matter from Lahore, Pakistan: an important role for transition metals. **2010**, 12, 704-15		102
245	Air pollution and effects on reproductive-system functions globally with particular emphasis on the Brazilian population. **2010**, 13, 1-15		35
244	Development of sensing system for carbonaceous particles using LIBS combined with LII temporal analytical technique. **2010**,		0
243	Cytotoxic and proinflammatory effects of ambient and source-related particulate matter (PM) in relation to the production of reactive oxygen species (ROS) and cytokine adsorption by particles. **2010**, 22 Suppl 2, 37-47		105
242	Inflammation and tissue damage in mouse lung by single and repeated dosing of urban air coarse and fine particles collected from six European cities. **2010**, 22, 402-16		74
241	Generation of reactive oxygen species mediated by humic-like substances in atmospheric aerosols. *Environmental Science & Technology*, **2011**, 45, 10362-8	10.3	165
240	Comparison of the Chemical and Oxidative Characteristics of Particulate Matter (PM) Collected by Different Methods: Filters, Impactors, and BioSamplers. **2011**, 45, 1294-1304		32
239	Redox-cycling and H2O2 generation by fabricated catecholic films in the absence of enzymes. **2011**, 12, 880-8		48
238	Evaluation of the effects of ozone oxidation on redox-cycling activity of two-stroke engine exhaust particles. *Environmental Science & Technology*, **2011**, 45, 2131-6	10.3	57
237	Ambient particulate matter on DNA damage in HepG2 cells. **2011**, 27, 87-95		12
236	Environmentally persistent free radicals (EPFRs). 1. Generation of reactive oxygen species in aqueous solutions. *Environmental Science & Technology*, **2011**, 45, 8559-66	10.3	179
235	Oxidative stress, DNA damage, and inflammation induced by ambient air and wood smoke particulate matter in human A549 and THP-1 cell lines. **2011**, 24, 168-84		169
234	Method development for the measurement of quinone levels in urine. **2011**, 879, 3592-8		6
233	Modification of the Versatile Aerosol Concentration Enrichment System (VACES) for conducting inhalation exposures to semi-volatile vapor phase pollutants. **2011**, 42, 555-566		6
232	Biomimetic fabrication of information-rich phenolic-chitosan films. **2011**, 7, 9601		42
231	Laboratory and field testing of an automated atmospheric particle-bound reactive oxygen species sampling-analysis system. **2011**, 2011, 419476		28
230	Oxidative stress and air pollution exposure. **2011**, 2011, 487074		350

229	Quantification of aerosol chemical composition using continuous single particle measurements. *Atmospheric Chemistry and Physics*, **2011**, 11, 7027-7044	6.8	57
228	Why is particulate matter produced by wildfires toxic to lung macrophages?. **2011**, 257, 182-8		32
227	Nitration of particle-associated PAHs and their derivatives (nitro-, oxy-, and hydroxy-PAHs) with NO3 radicals. *Atmospheric Environment*, **2011**, 45, 2515-2521	5.3	62
226	Hydrogen peroxide generation from □and □pinene and toluene secondary organic aerosols. *Atmospheric Environment*, **2011**, 45, 3149-3156	5.3	47
225	The reactive oxidant potential of different types of aged atmospheric particles: An outdoor chamber study. *Atmospheric Environment*, **2011**, 45, 3848-3855	5.3	75
224	Slow dissociation of a charged ligand: analysis of the primary quinone Q(A) site of photosynthetic bacterial reaction centers. **2011**, 133, 17375-85		12
223	Association of polycyclic aromatic hydrocarbons (PAHs) and metallic species in a tropical urban atmosphere □Delhi, India. **2011**, 68, 107-126		19
222	Particulates and Oxidative Stress. **2011**, 249-271		
221	Effects of Nanoparticles on the Pulmonary Vasculature. **2011**, 317-350		1
220	Particle Characterization. **2011**, 59-87		1
219	Telomere length is a biomarker of cumulative oxidative stress, biologic age, and an independent predictor of survival and therapeutic treatment requirement associated with smoking behavior. **2011**, 18, e209-26		91
218	Oxidative stress induced by urban fine particles in cultured EA.hy926 cells. **2011**, 30, 579-90		42
217	Development of a sensitive long pathlength absorbance photometer to quantify peroxides in aerosol particles (Peroxide-LOPAP). **2012**,		3
216	Development of a sensitive long path absorption photometer to quantify peroxides in aerosol particles (Peroxide-LOPAP). **2012**, 5, 2339-2348		35
215	Hydrogen Peroxide Associated with Ambient Fine-Mode, Diesel, and Biodiesel Aerosol Particles in Southern California. **2012**, 46, 394-402		25
214	Increased cytotoxicity of oxidized flame soot. **2012**, 3, 25-31		36
213	Hydroxyl radical generation mechanism during the redox cycling process of 1,4-naphthoquinone. *Environmental Science & Technology*, **2012**, 46, 2935-42	10.3	50
212	Characterization of coal fly ash nanoparticles and induced oxidative DNA damage in human peripheral blood mononuclear cells. *Science of the Total Environment*, **2012**, 437, 331-8	10.2	42

211	Interactive enhancements of ascorbic acid and iron in hydroxyl radical generation in quinone redox cycling. *Environmental Science & Technology*, **2012**, 46, 10302-9	10.3	49
210	Composition of air pollution particles and oxidative stress in cells, tissues, and living systems. **2012**, 15, 1-21		334
209	Rapid and direct low micromolar NMR method for the simultaneous detection of hydrogen peroxide and phenolics in plant extracts. **2012**, 60, 4508-13		24
208	Jacaranone induces apoptosis in melanoma cells via ROS-mediated downregulation of Akt and p38 MAPK activation and displays antitumor activity in vivo. *PLoS ONE*, **2012**, 7, e38698	3.7	40
207	The chemical biology of naphthoquinones and its environmental implications. **2012**, 52, 221-47		219
206	Nrf2-regulated phase II enzymes are induced by chronic ambient nanoparticle exposure in young mice with age-related impairments. *Free Radical Biology and Medicine*, **2012**, 52, 2038-46	7.8	117
205	Characterization, sources and redox activity of fine and coarse particulate matter in Milan, Italy. *Atmospheric Environment*, **2012**, 49, 130-141	5.3	75
204	In vitro toxicological characterization of particulate emissions from residential biomass heating systems based on old and new technologies. *Atmospheric Environment*, **2012**, 50, 24-35	5.3	54
203	Using a pattern recognition approach to link inorganic chemical fingerprints of ambient PM2.5□.1 with in vitro biological effects. **2012**, 5, 125-147		6
202	Graphenic Nanoparticles from Combustion Sources Scavenge Hydroxyl Radicals Depending Upon Their Structure. **2013**, 3, 112-122		9
201	Increased biomass burning due to the economic crisis in Greece and its adverse impact on wintertime air quality in Thessaloniki. *Environmental Science & Technology*, **2013**, 47, 13313-20	10.3	134
200	Materials science. Nature☹ other self-assemblers. **2013**, 341, 136-7		45
199	Environmentally persistent free radicals and their lifetimes in PM2.5. *Environmental Science & Technology*, **2013**, 47, 8172-8	10.3	132
198	Particulate matter containing environmentally persistent free radicals and adverse infant respiratory health effects: a review. **2013**, 27, 56-68		69
197	Indoor air pollution and risk of lung cancer among Chinese female non-smokers. **2013**, 24, 439-50		99
196	Quinone compounds regulate the level of ROS production by the NADPH oxidase Nox4. **2013**, 85, 1644-54		24
195	Activation of persulfate by quinones: free radical reactions and implication for the degradation of PCBs. *Environmental Science & Technology*, **2013**, 47, 4605-11	10.3	494
194	Oxidative stress and inflammatory response to printer toner particles in human epithelial A549 lung cells. **2013**, 216, 171-80		27

193	Oxidative stress in airway diseases. **2013**, 10 Suppl, S150-7		89
192	ATR-IR study of ozone initiated heterogeneous oxidation of squalene in an indoor environment. *Environmental Science & Technology*, **2013**, 47, 10611-8	10.3	48
191	Comparison of Emissions from Wood Combustion. Part 2: Impact of Combustion Conditions on Emission Factors and Characteristics of Particle-Bound Organic Species and Polycyclic Aromatic Hydrocarbon (PAH)-Related Toxicological Potential. **2013**, 27, 1482-1491		56
190	Seasonal and spatial variation in reactive oxygen species activity of quasi-ultrafine particles (PM0.25) in the Los Angeles metropolitan area and its association with chemical composition. *Atmospheric Environment*, **2013**, 79, 566-575	5.3	34
189	Model combustion-generated particulate matter containing persistent free radicals redox cycle to produce reactive oxygen species. **2013**, 26, 1862-71		46
188	Filterable redox cycling activity: a comparison between diesel exhaust particles and secondary organic aerosol constituents. *Environmental Science & Technology*, **2013**, 47, 3362-9	10.3	72
187	Development and testing of an online method to measure ambient fine particulate Reactive Oxygen Species (ROS) based on the 2',7'-dichlorofluorescin (DCFH) assay. **2013**,		
186	Development and testing of an online method to measure ambient fine particulate reactive oxygen species (ROS) based on the 2',7'-dichlorofluorescin (DCFH) assay. **2013**, 6, 1647-1658		36
185	Exposure to heavy metals and polycyclic aromatic hydrocarbons and DNA damage in taiwanese traffic conductors. **2013**, 22, 102-8		31
184	Naphthalene SOA: redox activity and naphthoquinone gas–particle partitioning. *Atmospheric Chemistry and Physics*, **2013**, 13, 9731-9744	6.8	72
183	Pulmonary oxidative stress, inflammation and cancer: respirable particulate matter, fibrous dusts and ozone as major causes of lung carcinogenesis through reactive oxygen species mechanisms. **2013**, 10, 3886-907		393
182	Is household air pollution a risk factor for eye disease?. **2013**, 10, 5378-98		45
181	Gas Chromatography Mass Spectrometry Identification of Labile Radicals Formed during Pyrolysis of Catechool, Hydroquinone, and Phenol through Neutral Pyrolysis Product Mass Analysis. **2013**, 2013, 1-8		5
180	General threshold limit value for dust (R fraction) (Biopersistent granular dusts) [MAK Value Documentation, 2012]. **2014**, 1-78		3
179	Exposure vs toxicity levels of airborne quartz, metal and carbon particles in cast iron foundries. **2014**, 24, 42-50		5
178	Studies on Respiratory Disorders. *Oxidative Stress in Applied Basic Research and Clinical Practice*, **2014**,		1
177	Oxidative potential and chemical speciation of size-resolved particulate matter (PM) at near-freeway and urban background sites in the greater Beirut area. *Science of the Total Environment*, **2014**, 470-471, 417-26	10.2	69
176	Toxic assessment of urban atmospheric particle-bound PAHs: relevance of composition and particle size in Barcelona (Spain). **2014**, 184, 555-62		55

175	A novel NMR method for the determination and monitoring of evolution of hydrogen peroxide in aqueous solutions. **2014**, 406, 3371-5		8
174	Hydroxyl radical generation from environmentally persistent free radicals (EPFRs) in PM2.5. *Environmental Science & Technology*, **2014**, 48, 4266-72	10.3	120
173	Nanoparticles, lung injury, and the role of oxidant stress. **2014**, 76, 447-65		86
172	Seasonal and spatial variation in dithiothreitol (DTT) activity of quasi-ultrafine particles in the Los Angeles Basin and its association with chemical species. **2014**, 49, 441-51		69
171	LABORATORY EVALUATION OF A MICROFLUIDIC ELECTROCHEMICAL SENSOR FOR AEROSOL OXIDATIVE LOAD. **2014**, 48, 489-497		19
170	Molecular characterization of organic content of soot along the centerline of a coflow diffusion flame. **2014**, 16, 25862-75		49
169	Oxidative stress and inflammation generated DNA damage by exposure to air pollution particles. **2014**, 762, 133-66		192
168	Environmentally persistent free radicals (EPFRs). 3. Free versus bound hydroxyl radicals in EPFR aqueous solutions. *Environmental Science & Technology*, **2014**, 48, 9220-6	10.3	43
167	Key role of persistent free radicals in hydrogen peroxide activation by biochar: implications to organic contaminant degradation. *Environmental Science & Technology*, **2014**, 48, 1902-10	10.3	397
166	Redox activity and PAH content in size-classified nanoparticles emitted by a diesel engine fuelled with biodiesel and diesel blends. **2014**, 116, 490-497		45
165	The combined effects of physicochemical properties of size-fractionated ambient particulate matter on toxicity in human A549 lung epithelial cells. **2014**, 1, 145-156		63
164	Allgemeiner Staubgrenzwert (A-Fraktion) (Granulre biobestdige Stbe (GBS)) [MAK Value Documentation in German language, 2012]. **2014**, 1-78		
163	Trace elements pollution and toxicity of airborne PM 10 in a coal industrial city. **2015**, 6, 469-475		21
162	Development of helium-microwave-induced plasma-atomic emission spectroscopy system with two-way spectroscopic analysis. **2015**,		1
161	Nitrative stress, oxidative stress and plasma endothelin levels after inhalation of particulate matter and ozone. **2015**, 12, 28		18
160	Fine particulate matter in acute exacerbation of COPD. **2015**, 6, 294		90
159	Quantitative investigation of free radicals in bio-oil and their potential role in condensed-phase polymerization. **2015**, 8, 894-900		51
158	Xenobiotic pulmonary exposure and systemic cardiovascular response via neurological links. **2015**, 309, H1609-20		4

157	Production of hydroxyl radicals from Fe-containing fine particles in Guangzhou, China. *Atmospheric Environment*, **2015**, 123, 72-78	5.3	7
156	New Methods for Personal Exposure Monitoring for Airborne Particles. **2015**, 2, 399-411		71
155	Organic extracts from African dust storms stimulate oxidative stress and induce inflammatory responses in human lung cells through Nrf2 but not NF-B. **2015**, 39, 845-56		19
154	Chemical reactivities of ambient air samples in three Southern California communities. **2015**, 65, 270-7		10
153	Phenols from pyrolysis and co-pyrolysis of tobacco biomass components. *Chemosphere*, **2015**, 138, 259-65	3.4	32
152	A new method and tool for detection and quantification of PM oxidative potential. *Environmental Science and Pollution Research*, **2015**, 22, 12469-78	5.1	8
151	Oxidative potential of particulate matter at a German motorway. **2015**, 17, 868-76		12
150	Toxicity of particulate matter from incineration of nanowaste. **2015**, 2, 143-154		32
149	Connecting the oxidation of soot to its redox cycling abilities. **2015**, 6, 6812		71
148	Why highly polluting methods are used to manufacture bricks in Bangladesh. **2015**, 28, 68-74		26
147	Reactive Ambient Particles. **2015**, 1-24		2
146	Impacts of Air Pollution on Reproductive Health. **2015**, 25-50		
145	Direct determination of quinones in fine atmospheric particulate matter by GC-MS. **2015**, 118, 26-31		11
144	Particulate Oxidative Burden as a Predictor of Exhaled Nitric Oxide in Children with Asthma. **2016**, 124, 1616-1622		36
143	Addressing Emerging Risks: Scientific and Regulatory Challenges Associated with Environmentally Persistent Free Radicals. **2016**, 13,		26
142	The relative importance of tailpipe and non-tailpipe emissions on the oxidative potential of ambient particles in Los Angeles, CA. **2016**, 189, 361-80		30
141	Development of an automated sampling-analysis system for simultaneous measurement of reactive oxygen species (ROS) in gas and particle phases: GAC-ROS. *Atmospheric Environment*, **2016**, 134, 18-26	5.3	18
140	Oxidative potential of secondary organic aerosols produced from photooxidation of different hydrocarbons using outdoor chamber under ambient sunlight. *Atmospheric Environment*, **2016**, 131, 382-389	5.3	42

139	Diesel exhaust: current knowledge of adverse effects and underlying cellular mechanisms. **2016**, 90, 1541-53		152
138	Urban PM oxidative potential: Importance of chemical species and comparison of two spectrophotometric cell-free assays. **2016**, 219, 72-79		66
137	Quantification of environmentally persistent free radicals and reactive oxygen species in atmospheric aerosol particles. *Atmospheric Chemistry and Physics*, **2016**, 16, 13105-13119	6.8	84
136	Oxidative burden of fine particulate air pollution and risk of cause-specific mortality in the Canadian Census Health and Environment Cohort (CanCHEC). *Environmental Research*, **2016**, 146, 92-9	7.9	64
135	ROS-generating/ARE-activating capacity of metals in roadway particulate matter deposited in urban environment. *Environmental Research*, **2016**, 146, 252-62	7.9	41
134	Formation of environmentally persistent free radicals from the heterogeneous reaction of ozone and polycyclic aromatic compounds. **2016**, 18, 205-12		28
133	Aerosol emissions of a ship diesel engine operated with diesel fuel or heavy fuel oil. *Environmental Science and Pollution Research*, **2017**, 24, 10976-10991	5.1	45
132	Development of an assay to assess genotoxicity by particulate matter extract. **2017**, 15, 1738-1746		8
131	The chemical composition of ultrafine particles and associated biological effects at an alpine town impacted by wood burning. *Science of the Total Environment*, **2017**, 587-588, 223-231	10.2	25
130	The Essential Role for Laboratory Studies in Atmospheric Chemistry. *Environmental Science & Technology*, **2017**, 51, 2519-2528	10.3	55
129	Exposure to fine particulate matter causes oxidative and methylated DNA damage in young adults: A longitudinal study. *Science of the Total Environment*, **2017**, 598, 289-296	10.2	24
128	Predictors of polycyclic aromatic hydrocarbon exposure and internal dose in inner city Baltimore children. **2017**, 27, 290-298		12
127	Land use regression modeling of oxidative potential of fine particles, NO2, PM2.5 mass and association to type two diabetes mellitus. *Atmospheric Environment*, **2017**, 171, 181-190	5.3	9
126	Graphite particles induce ROS formation in cell free systems and human cells. **2017**, 9, 13640-13650		12
125	Analytical methods to assess the oxidative potential of nanoparticles: a review. **2017**, 4, 1920-1934		43
124	Total free radical species and oxidation equivalent in polluted air. *Science of the Total Environment*, **2017**, 609, 1103-1113	10.2	3
123	A Scalable Field Study Protocol and Rationale for Passive Ambient Air Sampling: A Spatial Phytosampling for Leaf Data Collection. *Environmental Science & Technology*, **2017**, 51, 10663-10673	10.3	12
122	Aerosol Health Effects from Molecular to Global Scales. *Environmental Science & Technology*, **2017**, 51, 13545-13567	10.3	235

121	Involvement of oxidative stress and calcium signaling in airborne particulate matter - induced damages in human pulmonary artery endothelial cells. **2017**, 45, 340-350		22
120	Reactive Oxidative Species and Speciated Particulate Light-Duty Engine Emissions from Diesel and Biodiesel Fuel Blends. **2017**, 31, 8171-8180		12
119	Acrolein and Human Disease: Untangling the Knotty Exposure Scenarios Accompanying Several Diverse Disorders. **2017**, 30, 145-161		31
118	External eye symptoms in indoor environments. *Indoor Air*, **2017**, 27, 246-260	5.4	46
117	Before the first breath: prenatal exposures to air pollution and lung development. **2017**, 367, 445-455		30
116	Surface bound radicals, char yield and particulate size from the burning of tobacco cigarette. **2017**, 11, 79		7
115	Persistent free radicals in carbon-based materials on transformation of refractory organic contaminants (ROCs) in water: A critical review. *Water Research*, **2018**, 137, 130-143	12.5	158
114	Environmentally Persistent Free Radicals: Insights on a New Class of Pollutants. *Environmental Science & Technology*, **2018**, 52, 2468-2481	10.3	103
113	The influence of air cleaners on indoor particulate matter components and oxidative potential in residential households in Beijing. *Science of the Total Environment*, **2018**, 626, 507-518	10.2	32
112	Evaluation of cellular effects of fine particulate matter from combustion of solid fuels used for indoor heating on the Navajo Nation using a stratified oxidative stress response model. *Atmospheric Environment*, **2018**, 182, 87-96	5.3	6
111	Unraveling mechanisms of toxicant-induced oxidative stress in cardiovascular disease. **2018**, 7, 1-8		5
110	Investigation into the pulmonary inflammopathology of exposure to nickel oxide nanoparticles in mice. **2018**, 14, 2329-2339		18
109	N-acetyl-l-cysteine ameliorates the PM-induced oxidative stress by regulating SIRT-1 in rats. **2018**, 57, 70-75		19
108	Measurement of oxidative potential of PM2.5 by DTT assay employing Flow Injection Analysis. *Indoor Environment*, **2018**, 21, 33-40	0	
107	Household Air Pollution, Levels of Micronutrients and Heavy Metals in Cord and Maternal Blood, and Pregnancy Outcomes. **2018**, 15,		7
106	In□vitro cellular toxicity induced by extractable organic fractions of particles exhausted from urban combustion sources - Role of PAHs. **2018**, 243, 1166-1176		23
105	Particulate matter containing environmentally persistent free radicals induces AhR-dependent cytokine and reactive oxygen species production in human bronchial epithelial cells. *PLoS ONE*, **2018**, 13, e0205412	3.7	29
104	Oxidative potential of size-segregated PM in an urban and an industrial area of Italy. *Atmospheric Environment*, **2018**, 187, 292-300	5.3	42

103	How Environmental and Air Pollution Disrupt Spermatogenesis and Male Reproductive Health. **2018**, 5-32		2
102	Cardiovascular and inflammatory mechanisms in healthy humans exposed to air pollution in the vicinity of a steel mill. **2018**, 15, 34		17
101	Associations of Source-apportioned Fine Particles with Cause-specific Mortality in California. **2018**, 29, 639-648		15
100	Significant contribution of metastable particulate organic matter to natural formation of silver nanoparticles in soils. **2019**, 10, 3775		41
99	Hydroxytyrosol prevents PM-induced adiposity and insulin resistance by restraining oxidative stress related NF-Β pathway and modulation of gut microbiota in a murine model. *Free Radical Biology and Medicine*, **2019**, 141, 393-407	7.8	22
98	A multibiomarker approach to evaluate the effect of polyaromatic hydrocarbon exposure on oxidative and genotoxic damage in tandoor workers. **2019**, 35, 486-496		6
97	Oxidative Potential of Water-Soluble Matter Associated with Chromophoric Substances in PM over Xi@n, China. *Environmental Science & Technology*, **2019**, 53, 8574-8584	10.3	40
96	An Intriguing Involvement of Mitochondria in Cystic Fibrosis. **2019**, 8,		11
95	Molecular oxygenates from the thermal degradation of tobacco and material characterization of tobacco char. **2019**, 5, e00153		1
94	Size-resolved particle oxidative potential in the office, laboratory, and home: Evidence for the importance of water-soluble transition metals. **2019**, 246, 704-709		18
93	Quantitative detection method of semiquinone free radicals on particulate matters using electron spin resonance spectroscopy. *Sustainable Cities and Society*, **2019**, 49, 101614	10.1	10
92	Cross Conjugation in Polyenes and Related Hydrocarbons: What Can Be Learned from Valence Bond Theory about Single-Molecule Conductance?. **2019**, 141, 6030-6047		14
91	Formation, characteristics, and applications of environmentally persistent free radicals in biochars: A review. **2019**, 281, 457-468		142
90	Ecotoxicology of Heavy Metal(loid)-Enriched Particulate Matter: Foliar Accumulation by Plants and Health Impacts. **2021**, 253, 65-113		7
89	Environmentally persistent free radicals in PM: a review. **2019**, 1, 177-197		10
88	PM, Fine Particulate Matter: A Novel Player in the Epithelial-Mesenchymal Transition?. **2019**, 10, 1404		23
87	Chemical activation of biochar for energy and environmental applications: a comprehensive review. **2019**, 35, 777-815		65
86	Using Nrf2/antioxidant response element-dependent signaling to assess the toxicity potential of fly ash particles. **2019**, 170, 172-179		3

85	Management of air pollution in Mexico. **2019**, 30, 578-592		2
84	Genotoxic effects of PM and PM bound metals: metal bioaccessibility, free radical generation, and role of iron. **2019**, 41, 1163-1186		10
83	Photocatalytic degradation of atmospheric fine particulate matter (PM) collected on TiO supporting quartz fibre filter. **2020**, 41, 1266-1274		10
82	Proinflammatory properties and oxidative effects of atmospheric particle components in human keratinocytes. *Chemosphere*, **2020**, 240, 124746	8.4	25
81	Levels, spatial distribution, and source identification of airborne environmentally persistent free radicals from tree leaves. **2020**, 257, 113353		8
80	Occurrence, formation, environmental fate and risks of environmentally persistent free radicals in biochars. **2020**, 134, 105172		54
79	Enhanced H2O2 activation and sulfamethoxazole degradation by Fe-impregnated biochar. *Chemical Engineering Journal*, **2020**, 385, 123921	14.7	36
78	Janus Electrochemical Paper-Based Analytical Devices for Metals Detection in Aerosol Samples. **2020**, 92, 1439-1446		25
77	Comparison of fine particulate matter level, chemical content and oxidative potential derived from two dissimilar urban environments. *Science of the Total Environment*, **2020**, 708, 135209	10.2	2
76	Air pollution and chronic obstructive pulmonary disease. **2020**, 6, 260-269		19
75	Fine particulate matter inhibits phagocytosis of macrophages by disturbing autophagy. **2020**, 34, 16716-16735		4
74	Airborne Aerosols and Human Health: Leapfrogging from Mass Concentration to Oxidative Potential. *Atmosphere*, **2020**, 11, 917	2.7	17
73	Acellular oxidative potential assay for screening of amorphous silica nanoparticles. **2020**, 145, 4867-4879		2
72	Relationship Between Particulate Matter (PM) and Hospitalizations and Mortality of Chronic Obstructive Pulmonary Disease Patients: A Meta-Analysis. *American Journal of the Medical Sciences*, **2020**, 359, 354-364	2.2	10
71	Characteristics and sources of water-soluble ionic associated with PM2.5 particles and cytotoxicity effects using MTT assay in Tehran, Iran. *Urban Climate*, **2020**, 32, 100612	6.8	3
70	Investigating the effect of trees on urban quality in Dublin by combining air monitoring with i-Tree Eco model. *Sustainable Cities and Society*, **2020**, 61, 102356	10.1	18
69	Characterization of water-insoluble oxidative potential of PM2.5 using the dithiothreitol assay. *Atmospheric Environment*, **2020**, 224, 117327	5.3	29
68	Oxygenated and Nitrated Polycyclic Aromatic Hydrocarbons in Ambient Air-Levels, Phase Partitioning, Mass Size Distributions, and Inhalation Bioaccessibility. *Environmental Science & Technology*, **2020**, 54, 2615-2625	10.3	24

67	Contrasts in chemical composition and oxidative potential in PM10 near flares in oil extraction and refining areas in Ecuador. *Atmospheric Environment*, **2020**, 223, 117302	5.3	5
66	Palm oil biodiesel: An assessment of PAH emissions, oxidative potential and ecotoxicity of particulate matter. *Journal of Environmental Sciences*, **2021**, 101, 326-338	6.4	9
65	Determination and Environmental Implications of Aqueous-Phase Rate Constants in Radical Reactions. *Water Research*, **2021**, 190, 116746	12.5	33
64	Molecular level insights into the direct health impacts of some organic aerosol components. *New Journal of Chemistry*, **2021**, 45, 6709-6723	3.6	1
63	Physical and chemical property of mainstream aerosol generated from heated tobacco products. *Indoor Environment*, **2021**, 24, 135-144	0	0
62	Continuous measurement of reactive oxygen species inside and outside of a residential house during summer. *Indoor Air*, **2021**, 31, 1199-1216	5.4	1
61	Assessment of personal exposure to environmentally persistent free radicals in airborne particulate matter. *Journal of Hazardous Materials*, **2021**, 409, 125014	12.8	7
60	Emission Factors of Polycyclic Aromatic Hydrocarbons and Oxidative Potential of Fine Particles Emitted from Crop Residues Burning. *Polycyclic Aromatic Compounds*, 1-21	1.3	
59	Formation of Environmentally Persistent Free Radicals during Thermochemical Processes and their Correlations with Unintentional Persistent Organic Pollutants. *Environmental Science & Technology*, **2021**, 55, 6529-6541	10.3	4
58	Emission factors of environmentally persistent free radicals in PM from rural residential solid fuels combusted in a traditional stove. *Science of the Total Environment*, **2021**, 773, 145151	10.2	4
57	Importance of secondary organic aerosol formation of <i></i>-pinene, limonene, and <i>m</i>-cresol comparing day- and nighttime radical chemistry. *Atmospheric Chemistry and Physics*, **2021**, 21, 8479-8498	6.8	2
56	Effects prenatal exposure to peat smoke on the emotional behavior of rat offspring and its correction with fabomotizole. *Meditsinskii Akademicheskii Zhurnal*, **2021**, 21, 47-58	0.3	0
55	Environmentally Persistent Free Radicals, Reactive Oxygen Species Generation, and Oxidative Potential of Highway PM2.5. *ACS Earth and Space Chemistry*, **2021**, 5, 1865-1875	3.2	4
54	Chemiluminescent fingerprints from airborne particulate matter: A luminol-based assay for the characterization of oxidative potential with kinetical implications. *Science of the Total Environment*, **2021**, 789, 148005	10.2	0
53	Critical influences of metal compounds on the formation and stabilization of environmentally persistent free radicals. *Chemical Engineering Journal*, **2022**, 427, 131666	14.7	2
52	Tobacco Smoke Constituents Affecting Oxidative Stress. **2006**, 5-46		12
51	Toxicology of ambient particulate matter. *Exs*, **2012**, 101, 165-217		37
50	Oxidative Stress and Pulmonary Carcinogenesis Through Mechanisms of Reactive Oxygen Species. How Respirable Particulate Matter, Fibrous Dusts, and Ozone Cause Pulmonary Inflammation and Initiate Lung Carcinogenesis. **2019**, 247-265		2

49	Oxidative Potential of Particulate Matter: A Prospective Measure to Assess PM Toxicity. *Energy, Environment, and Sustainability*, **2020**, 333-356	0.8	3
48	Quantitative Aspects of the Interfacial Catalytic Oxidation of Dithiothreitol by Dissolved Oxygen in the Presence of Carbon Nanoparticles. *Environmental Science & Technology*, **2016**, 50, 996-1004	10.3	15
47	Chapter 11:Mechanism of Action of Combustion-derived Nanoparticles. *Issues in Toxicology*, **2015**, 361-38	0.3	1
46	Genotoxic Effects of Particles. **2006**, 285-298		3
45	Approaches to the Toxicological Testing of Particles. **2006**, 299-316		1
44	Respiratory Health Effects of Ambient Air Pollution Particles. *Lung Biology in Health and Disease*, **2004**, 257-288		9
43	Traffic-related air pollution and DNA damage: a longitudinal study in Taiwanese traffic conductors. *PLoS ONE*, **2012**, 7, e37412	3.7	45
42	DIESEL PARTICULATE ANALYSIS USING SEM-EDX AND LASER-INDUCED BREAKDOWN SPECTROSCOPY. *International Journal on Smart Sensing and Intelligent Systems*, **2011**, 4, 174-188	0.4	4
41	Quantification of aerosol chemical composition using continuous single particle measurements.		2
40	Redox activity of naphthalene secondary organic aerosol.		3
39	Toxicological Effects of Polycyclic Aromatic Hydrocarbon Quinones Contaminated in Diesel Exhaust Particles. *Asian Journal of Atmospheric Environment*, **2007**, 1, 28-35	1.3	4
38	Chemical composition modulates the adverse effects of particles on the mucociliary epithelium. *Clinics*, **2015**, 70, 706-13	2.3	9
37	Redox-Active Moieties in Dissolved Organic Matter Accelerate the Degradation of Nitroimidazoles in SO-Based Oxidation. *Environmental Science & Technology*, **2021**, 55, 14844-14853	10.3	4
36	Genetic Susceptibility Factors in the Cardiopulmonary Response to Air Pollution. **2005**, 163-184		
35	The Toxicology of Inhaled Particles. **2006**, 413-424		1
34	Particle-Mediated Extracellular Oxidative Stress in the Lung. **2006**, 89-117		3
33	Particle-Associated Organics and Proinflammatory Signaling. **2006**, 211-225		0
32	Chapter 4:Hypertension and Vascular Toxicity of PM. *Issues in Toxicology*, **2010**, 121-142	0.3	

31	Development of Carbonaceous Particle Size Analyzer Using Laser-induced Incandescence Technology. *IEEJ Transactions on Sensors and Micromachines*, **2011**, 131, 171-177	0.2	3
30	Multi-spectral Analytical Systems Using LIBS and LII Techniques. *Lecture Notes in Electrical Engineering*, **2011**, 207-232	0.2	3
29	Basic Research on Elemental and Size Analytical System for Nano-Sized Suspended Particulate Matter Using Contactless Optical Measurement Techniques. *International Journal on Measurement Technologies and Instrumentation Engineering*, **2013**, 3, 16-27		1
28	Emissions of Organic and Inorganic Pollutants During the Combustion of Wood, Straw and Biogas. **2013**, 387-422		
27	Oxidative Injury Caused by Cigarette Smoking and Air Pollution. *Oxidative Stress in Applied Basic Research and Clinical Practice*, **2014**, 131-150		
26	Development of the Atomic Emission Spectroscopy System Using Helium-Microwave-Induced Plasma for Fine Particles on Environmental Monitoring. *Smart Sensors, Measurement and Instrumentation*, **2017**, 21-37	0.3	
25	Fine dust and eye health. *Journal of the Korean Medical Association*, **2019**, 62, 486	0.5	4
24	Oxidative Stress in Environmental Lung Diseases. **2019**, 293-307		
23	Protective Effect of Uric Acid on ox-LDL-Induced HUVECs Injury via Keap1-Nrf2-ARE Pathway. *Journal of Immunology Research*, **2021**, 2021, 5151168	4.5	1
22	Research Progress on Characteristics and Environmental Chemical Behavior of Environmental Persistent Free Radicals. *Hans Journal of Chemical Engineering and Technology*, **2020**, 10, 462-475	0	
21	Basic Research on Elemental and Size Analytical System for Nano-Sized Suspended Particulate Matter Using Contactless Optical Measurement Techniques. 898-907		
20	The significance of nanoparticles in particle-induced pulmonary fibrosis. *McGill Journal of Medicine*, **2008**, 11, 43-50		35
19	The Impact of Oxidative Stress of Environmental Origin on the Onset of Placental Diseases.. *Antioxidants*, **2022**, 11,	7.1	0
18	Photoaged polystyrene microplastics serve as photosensitizers that enhance cimetidine photolysis in an aqueous environment.. *Chemosphere*, **2021**, 290, 133352	8.4	1
17	Lignocellulosic biomass carbonization for biochar production and characterization of biochar reactivity. *Renewable and Sustainable Energy Reviews*, **2022**, 157, 112056	16.2	7
16	Environmentally persistent free radicals in indoor particulate matter, dust, and on surfaces. *Environmental Science Atmospheres*,		0
15	Contribution of Physical and Chemical Properties to Dithiothreitol-Measured Oxidative Potentials of Atmospheric Aerosol Particles at Urban and Rural Sites in Japan. *Atmosphere*, **2022**, 13, 319	2.7	0
14	Iron Speciation in Respirable Particulate Matter and Implications for Human Health.. *Environmental Science & Technology*, **2022**,	10.3	0

13	Polycyclic aromatic hydrocarbons and their oxygenated derivatives in urban aerosol: levels, chemical profiles, and contribution to PM oxidative potential.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	1
12	Role of angiotensin-converting enzyme 2 in fine particulate matter-induced acute lung injury.. *Science of the Total Environment*, **2022**, 153964	10.2	2
11	Implications of the Immune Landscape in COPD and Lung Cancer: Smoking Versus Other Causes.. *Frontiers in Immunology*, **2022**, 13, 846605	8.4	4
10	Oxidation potential and coupling effects of the fractionated components in airborne fine particulate matter. *Environmental Research*, **2022**, 213, 113652	7.9	0
9	Evaluation of □OH Production Potential of Particulate Matter (PM2.5) Collected on TiO2-Supporting Quartz Filters. **2022**, 12, 1016		0
8	Size-resolved environmentally persistent free radicals in cold region atmosphere: Implications for inhalation exposure risk. **2023**, 443, 130263		0
7	Dynamic Wood Smoke Aerosol Toxicity during Oxidative Atmospheric Aging.		1
6	An Overview of the Automated and On-Line Systems to Assess the Oxidative Potential of Particulate Matter. **2023**, 14, 256		0
5	A systematic review on mitigation of common indoor air pollutants using plant-based methods: a phytoremediation approach.		0
4	Comparative 6+studies of environmentally persistent free radicals on nano-sized coal dusts. **2023**, 878, 163163		0
3	Trade-off effect of dissolved organic matter on degradation and transformation of micropollutants: A review in water decontamination. **2023**, 450, 130996		0
2	Wildfire particulate matter as a source of environmentally persistent free radicals and reactive oxygen species. **2023**, 3, 581-594		0
1	Dust and Eye Inflictions. **2023**, 79-92		0