

Jie Shao

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

498
citations

759233

12
h-index

677142

22
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29
all docs

29
docs citations

29
times ranked

383
citing authors

#	ARTICLE	IF	CITATIONS
1	First Direct and Unequivocal Electron Spin Resonance Spin-Trapping Evidence for pH-Dependent Production of Hydroxyl Radicals from Sulfate Radicals. <i>Environmental Science & Technology</i> , 2020, 54, 14046-14056.	10.0	110
2	Potent methyl oxidation of 5-methyl-2 β -deoxycytidine by halogenated quinoid carcinogens and hydrogen peroxide via a metal-independent mechanism. <i>Free Radical Biology and Medicine</i> , 2013, 60, 177-182.	2.9	40
3	Mechanism of synergistic DNA damage induced by the hydroquinone metabolite of brominated phenolic environmental pollutants and Cu(II): Formation of DNA-Cu complex and site-specific production of hydroxyl radicals. <i>Free Radical Biology and Medicine</i> , 2017, 104, 54-63.	2.9	40
4	Oxidative Modification of Guanine Bases Initiated by Oxyl Radicals Derived from Photolysis of Azo Compounds. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6685-6692.	2.6	39
5	Mechanism of Intrinsic Chemiluminescence Production from the Degradation of Persistent Chlorinated Phenols by the Fenton System: A Structure-Activity Relationship Study and the Critical Role of Quinoid and Semiquinone Radical Intermediates. <i>Environmental Science & Technology</i> , 2017, 51, 2934-2943.	10.0	27
6	Diethyldithiocarbamate-copper nanocomplex reinforces disulfiram chemotherapeutic efficacy through light-triggered nuclear targeting. <i>Theranostics</i> , 2020, 10, 6384-6398.	10.0	27
7	Molecular mechanism of metal-independent decomposition of lipid hydroperoxide 13-HPODE by halogenated quinoid carcinogens. <i>Free Radical Biology and Medicine</i> , 2013, 63, 459-466.	2.9	20
8	Targeted live-cell nuclear delivery of the DNA "light-switching" Ru(II) complex via ion-pairing with chlorophenolate counter-anions: the critical role of binding stability and lipophilicity of the ion-pairing complexes. <i>Nucleic Acids Research</i> , 2019, 47, 10520-10528.	14.5	18
9	An unexpected antioxidant and redox activity for the classic copper-chelating drug penicillamine. <i>Free Radical Biology and Medicine</i> , 2020, 147, 150-158.	2.9	14
10	Intrinsic chemiluminescence production from the degradation of haloaromatic pollutants during environmentally-friendly advanced oxidation processes: Mechanism, structure-activity relationship and potential applications. <i>Journal of Environmental Sciences</i> , 2017, 62, 68-83.	6.1	13
11	An unusual double radical homolysis mechanism for the unexpected activation of the aldoxime nerve-agent antidotes by polyhalogenated quinoid carcinogens under normal physiological conditions. <i>Free Radical Biology and Medicine</i> , 2019, 130, 1-7.	2.9	12
12	Potent Oxidation of DNA by Haloquinoid Disinfection Byproducts to the More Mutagenic Imidazolone dlz via an Unprecedented Haloquinone-Enoxy Radical-Mediated Mechanism. <i>Environmental Science & Technology</i> , 2020, 54, 6244-6253.	10.0	12
13	An Exceptionally Facile Two-Step Structural Isomerization and Detoxication via a Water-Assisted Double Lossen Rearrangement. <i>Scientific Reports</i> , 2016, 6, 39207.	3.3	11
14	Oxidation of 8-Oxo-7,8-dihydro-2 β -deoxyguanosine by Oxyl Radicals Produced by Photolysis of Azo Compounds. <i>Chemical Research in Toxicology</i> , 2010, 23, 933-938.	3.3	10
15	Molecular mechanism for the activation of the anti-tuberculosis drug isoniazid by Mn(III): First detection and unequivocal identification of the critical N-centered isoniazidyl radical and its exact location. <i>Free Radical Biology and Medicine</i> , 2019, 143, 232-239.	2.9	10
16	What Are the Major Physicochemical Factors in Determining the Preferential Nuclear Uptake of the DNA "Light-Switching" Ru(II)-Polypyridyl Complex in Live Cells via Ion-Pairing with Chlorophenolate Counter-Anions?. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4123-4128.	4.6	10
17	Unexpected activation of N-alkyl hydroxamic acids to produce reactive N-centered free radicals and DNA damage by carcinogenic chlorinated quinones under normal physiological conditions. <i>Free Radical Biology and Medicine</i> , 2020, 146, 70-78.	2.9	10
18	Mechanism of synergistic DNA damage induced by caffeic acid phenethyl ester (CAPE) and Cu(II): Competitive binding between CAPE and DNA with Cu(II)/Cu(I). <i>Free Radical Biology and Medicine</i> , 2020, 159, 107-118.	2.9	10

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19	Caffeic Acid Phenyl Ester (CAPE) Protects against Iron-Mediated Cellular DNA Damage through Its Strong Iron-Binding Ability and High Lipophilicity. <i>Antioxidants</i> , 2021, 10, 798.	5.1	10
20	The cell-impermeable Ru(II) polypyridyl complex as a potent intracellular photosensitizer under visible light irradiation via ion-pairing with suitable lipophilic counter-anions. <i>Free Radical Biology and Medicine</i> , 2021, 171, 69-79.	2.9	9
21	The Unexpected and Exceptionally Facile Chemical Modification of the Phenolic Hydroxyl Group of Tyrosine by Polyhalogenated Quinones under Physiological Conditions. <i>Chemical Research in Toxicology</i> , 2016, 29, 1699-1705.	3.3	8
22	Enantioselective and Differential Fluorescence Lifetime Imaging of Nucleus and Nucleolus by the Two Enantiomers of Chiral Os(II) Polypyridyl Complex. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5909-5916.	4.6	8
23	An unexpected new pathway for nitroxide radical production via more reactive nitrogen-centered amidyl radical intermediate during detoxification of the carcinogenic halogenated quinones by N-alkyl hydroxamic acids. <i>Free Radical Biology and Medicine</i> , 2020, 146, 150-159.	2.9	8
24	Potent oxidation of DNA by Ru(II) tri(polypyridyl) complexes under visible light irradiation via a singlet oxygen-mediated mechanism. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3421-3432.	6.0	7
25	Mechanism of unprecedented hydroxyl radical production and site-specific oxidative DNA damage by photoactivation of the classic arylhydroxamic acid carcinogens. <i>Carcinogenesis</i> , 2019, , .	2.8	6
26	Mechanistic Study on Oxidative DNA Damage and Modifications by Haloquinoid Carcinogenic Intermediates and Disinfection Byproducts. <i>Chemical Research in Toxicology</i> , 2021, 34, 1701-1712.	3.3	5
27	The critical role of superoxide anion radicals on delaying tetrachlorohydroquinone autooxidation by penicillamine. <i>Free Radical Biology and Medicine</i> , 2021, 163, 369-378.	2.9	4
28	Structure-Activity Relationship Investigation on Reaction Mechanism between Chlorinated Quinoid Carcinogens and Clinically-Used Aldoxime Nerve-Agent Antidote under Physiological Condition. <i>Chemical Research in Toxicology</i> , 2021, 34, 1091-1100.	3.3	0