

Xiao-Song He

List of Publications by Year in descending order

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70
papers

3,675
citations

109321

35
h-index

138484

58
g-index

74
all docs

74
docs citations

74
times ranked

2439
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Spectroscopic characterization of water extractable organic matter during composting of municipal solid waste. <i>Chemosphere</i> , 2011, 82, 541-548. | 8.2 | 243 |
| 2 | Fluorescence excitation–emission matrix spectroscopy with regional integration analysis for characterizing composition and transformation of dissolved organic matter in landfill leachates. <i>Journal of Hazardous Materials</i> , 2011, 190, 293-299. | 12.4 | 176 |
| 3 | Fluorescence excitation–emission matrix spectra coupled with parallel factor and regional integration analysis to characterize organic matter humification. <i>Chemosphere</i> , 2013, 93, 2208-2215. | 8.2 | 153 |
| 4 | Surfactant-enhanced remediation of oil-contaminated soil and groundwater: A review. <i>Science of the Total Environment</i> , 2021, 756, 144142. | 8.0 | 137 |
| 5 | Influence of chemical and structural evolution of dissolved organic matter on electron transfer capacity during composting. <i>Journal of Hazardous Materials</i> , 2014, 268, 256-263. | 12.4 | 136 |
| 6 | Effect of multi-stage inoculation on the bacterial and fungal community structure during organic municipal solid wastes composting. <i>Bioresource Technology</i> , 2015, 196, 399-405. | 9.6 | 132 |
| 7 | Physicochemical and spectroscopic characteristics of dissolved organic matter extracted from municipal solid waste (MSW) and their influence on the landfill biological stability. <i>Bioresource Technology</i> , 2011, 102, 2322-2327. | 9.6 | 125 |
| 8 | The binding properties of copper and lead onto compost-derived DOM using Fourier-transform infrared, UV–vis and fluorescence spectra combined with two-dimensional correlation analysis. <i>Journal of Hazardous Materials</i> , 2019, 365, 457-466. | 12.4 | 125 |
| 9 | Roles of bacterial community in the transformation of dissolved organic matter for the stability and safety of material during sludge composting. <i>Bioresource Technology</i> , 2018, 267, 378-385. | 9.6 | 104 |
| 10 | Succession and diversity of microbial communities in landfills with depths and ages and its association with dissolved organic matter and heavy metals. <i>Science of the Total Environment</i> , 2019, 651, 909-916. | 8.0 | 102 |
| 11 | Successions and diversity of humic-reducing microorganisms and their association with physical-chemical parameters during composting. <i>Bioresource Technology</i> , 2016, 219, 204-211. | 9.6 | 98 |
| 12 | Effect of inoculation methods on the composting efficiency of municipal solid wastes. <i>Chemosphere</i> , 2012, 88, 744-750. | 8.2 | 92 |
| 13 | The evolution of water extractable organic matter and its association with microbial community dynamics during municipal solid waste composting. <i>Waste Management</i> , 2016, 56, 79-87. | 7.4 | 90 |
| 14 | Characterization of dissolved organic matter extracted from fermentation effluent of swine manure slurry using spectroscopic techniques and parallel factor analysis (PARAFAC). <i>Microchemical Journal</i> , 2012, 102, 115-122. | 4.5 | 89 |
| 15 | Influence of moisture content on chicken manure stabilization during microbial agent-enhanced composting. <i>Chemosphere</i> , 2021, 264, 128549. | 8.2 | 88 |
| 16 | Insight into the evolution, redox, and metal binding properties of dissolved organic matter from municipal solid wastes using two-dimensional correlation spectroscopy. <i>Chemosphere</i> , 2014, 117, 701-707. | 8.2 | 86 |
| 17 | Increased Electron-Accepting and Decreased Electron-Donating Capacities of Soil Humic Substances in Response to Increasing Temperature. <i>Environmental Science & Technology</i> , 2017, 51, 3176-3186. | 10.0 | 81 |
| 18 | Structural transformation study of water-extractable organic matter during the industrial composting of cattle manure. <i>Microchemical Journal</i> , 2013, 106, 160-166. | 4.5 | 77 |

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|----|---|------|-----------|
| 19 | Hydrophobicity-dependent electron transfer capacities of dissolved organic matter derived from chicken manure compost. <i>Chemosphere</i> , 2019, 222, 757-765. | 8.2 | 75 |
| 20 | Characterizing the heavy metal-complexing potential of fluorescent water-extractable organic matter from composted municipal solid wastes using fluorescence excitation-emission matrix spectra coupled with parallel factor analysis. <i>Environmental Science and Pollution Research</i> , 2014, 21, 7973-7984. | 5.3 | 65 |
| 21 | Redox properties of compost-derived organic matter and their association with polarity and molecular weight. <i>Science of the Total Environment</i> , 2019, 665, 920-928. | 8.0 | 64 |
| 22 | Insight into the composition and degradation potential of dissolved organic matter with different hydrophobicity in landfill leachates. <i>Chemosphere</i> , 2016, 144, 75-80. | 8.2 | 62 |
| 23 | Compost-derived humic acids as regulators for reductive degradation of nitrobenzene. <i>Journal of Hazardous Materials</i> , 2017, 339, 378-384. | 12.4 | 62 |
| 24 | Composition, removal, redox, and metal complexation properties of dissolved organic nitrogen in composting leachates. <i>Journal of Hazardous Materials</i> , 2015, 283, 227-233. | 12.4 | 61 |
| 25 | Response of humic-reducing microorganisms to the redox properties of humic substance during composting. <i>Waste Management</i> , 2017, 70, 37-44. | 7.4 | 56 |
| 26 | Comparison of Detection Methods of Microplastics in Landfill Mineralized Refuse and Selection of Degradation Degree Indexes. <i>Environmental Science & Technology</i> , 2021, 55, 13802-13811. | 10.0 | 53 |
| 27 | Recent progress on in-situ chemical oxidation for the remediation of petroleum contaminated soil and groundwater. <i>Journal of Hazardous Materials</i> , 2022, 432, 128738. | 12.4 | 52 |
| 28 | Composition and spectroscopic characteristics of dissolved organic matter extracted from the sediment of Erhai Lake in China. <i>Journal of Soils and Sediments</i> , 2014, 14, 1599-1611. | 3.0 | 51 |
| 29 | Characterization of isolated fractions of dissolved organic matter derived from municipal solid waste compost. <i>Science of the Total Environment</i> , 2018, 635, 275-283. | 8.0 | 49 |
| 30 | Characteristics of groundwater pollution in a vegetable cultivation area of typical facility agriculture in a developed city. <i>Ecological Indicators</i> , 2019, 105, 709-716. | 6.3 | 46 |
| 31 | Using fluorescence spectroscopy coupled with chemometric analysis to investigate the origin, composition, and dynamics of dissolved organic matter in leachate-polluted groundwater. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8499-8506. | 5.3 | 43 |
| 32 | The composition and mercury complexation characteristics of dissolved organic matter in landfill leachates with different ages. <i>Ecotoxicology and Environmental Safety</i> , 2012, 86, 227-232. | 6.0 | 41 |
| 33 | Redox properties and dechlorination capacities of landfill-derived humic-like acids. <i>Environmental Pollution</i> , 2019, 253, 488-496. | 7.5 | 41 |
| 34 | Dissolved Silicate Enhances the Oxidation of Chlorophenols by Permanganate: Important Role of Silicate-Stabilized MnO ₂ Colloids. <i>Environmental Science & Technology</i> , 2020, 54, 10279-10288. | 10.0 | 41 |
| 35 | Mechanisms of rice straw biochar effects on phosphorus sorption characteristics of acid upland red soils. <i>Chemosphere</i> , 2018, 207, 267-277. | 8.2 | 39 |
| 36 | Polarity and molecular weight of compost-derived humic acid affect Fe(III) oxides reduction. <i>Chemosphere</i> , 2018, 208, 77-83. | 8.2 | 34 |

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|----|---|------|-----------|
| 37 | Municipal wastewater effluent influences dissolved organic matter quality and microbial community composition in an urbanized stream. <i>Science of the Total Environment</i> , 2020, 705, 135952. | 8.0 | 33 |
| 38 | Insight into the composition and evolution of compost-derived dissolved organic matter using high-performance liquid chromatography combined with Fourier transform infrared and nuclear magnetic resonance spectra. <i>Journal of Chromatography A</i> , 2015, 1420, 83-91. | 3.7 | 31 |
| 39 | Interaction and coexistence characteristics of dissolved organic matter with toxic metals and pesticides in shallow groundwater. <i>Environmental Pollution</i> , 2020, 258, 113736. | 7.5 | 30 |
| 40 | Inoculation with Compost-Born Thermophilic Complex Microbial Consortium Induced Organic Matters Degradation While Reduced Nitrogen Loss During Co-Composting of Dairy Manure and Sugarcane Leaves. <i>Waste and Biomass Valorization</i> , 2019, 10, 2467-2477. | 3.4 | 29 |
| 41 | Molecular structure and evolution characteristics of dissolved organic matter in groundwater near landfill: Implications of the identification of leachate leakage. <i>Science of the Total Environment</i> , 2021, 787, 147649. | 8.0 | 29 |
| 42 | Study on the spectral and Cu (II) binding characteristics of DOM leached from soils and lake sediments in the Hetao region. <i>Environmental Science and Pollution Research</i> , 2012, 19, 2079-2087. | 5.3 | 28 |
| 43 | p-Arsanilic acid degradation and arsenic immobilization by a disilicate-assisted iron/aluminum electrolysis process. <i>Chemical Engineering Journal</i> , 2019, 368, 428-437. | 12.7 | 28 |
| 44 | Degradation or humification: rethinking strategies to attenuate organic pollutants. <i>Trends in Biotechnology</i> , 2022, 40, 1061-1072. | 9.3 | 27 |
| 45 | Fate and removal of aromatic organic matter upon a combined leachate treatment process. <i>Chemical Engineering Journal</i> , 2020, 401, 126157. | 12.7 | 26 |
| 46 | Discrepant responses of the electron transfer capacity of soil humic substances to irrigations with wastewaters from different sources. <i>Science of the Total Environment</i> , 2018, 610-611, 333-341. | 8.0 | 23 |
| 47 | Effect of ventilation quantity on electron transfer capacity and spectral characteristics of humic substances during sludge composting. <i>Environmental Science and Pollution Research</i> , 2022, 29, 70269-70284. | 5.3 | 23 |
| 48 | Investigating the effect of landfill leachates on the characteristics of dissolved organic matter in groundwater using excitation-emission matrix fluorescence spectra coupled with fluorescence regional integration and self-organizing map. <i>Environmental Science and Pollution Research</i> , 2016, 23, 21229-21237. | 5.3 | 22 |
| 49 | Intercropping wheat and maize increases the uptake of phthalic acid esters by plant roots from soils. <i>Journal of Hazardous Materials</i> , 2018, 359, 9-18. | 12.4 | 22 |
| 50 | The impacts of metal ions on phytotoxicity mediate by microbial community during municipal solid waste composting. <i>Journal of Environmental Management</i> , 2019, 242, 153-161. | 7.8 | 22 |
| 51 | Construction of a carbon dots-based Z-scheme photocatalytic electrode with enhanced visible-light-driven activity for Cr(VI) reduction and carbamazepine degradation in different reaction systems. <i>Chemical Engineering Journal</i> , 2021, 420, 127571. | 12.7 | 19 |
| 52 | Influence of the composition and removal characteristics of organic matter on heavy metal distribution in compost leachates. <i>Environmental Science and Pollution Research</i> , 2014, 21, 7522-7529. | 5.3 | 18 |
| 53 | Bioreduction of hexavalent chromium: Effect of compost-derived humic acids and hematite. <i>Chinese Chemical Letters</i> , 2020, 31, 2693-2697. | 9.0 | 18 |
| 54 | Identifying and Monitoring the Landfill Leachate Contamination in Groundwater with SEC-DAD-FLD-OCD and a Portable Fluorescence Spectrometer. <i>ACS ES&T Water</i> , 2022, 2, 165-173. | 4.6 | 15 |

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|----|---|------|-----------|
| 55 | Denitrification potential and its correlation to physico-chemical and biological characteristics of saline wetland soils in semi-arid regions. <i>Chemosphere</i> , 2012, 89, 1339-1346. | 8.2 | 14 |
| 56 | Characterizing the compositional variation of dissolved organic matter over hydrophobicity and polarity using fluorescence spectra combined with principal component analysis and two-dimensional correlation technique. <i>Environmental Science and Pollution Research</i> , 2016, 23, 9237-9244. | 5.3 | 14 |
| 57 | Quicklime-induced changes of soil properties: Implications for enhanced remediation of volatile chlorinated hydrocarbon contaminated soils via mechanical soil aeration. <i>Chemosphere</i> , 2017, 173, 435-443. | 8.2 | 14 |
| 58 | K-strategy species plays a pivotal role in the natural attenuation of petroleum hydrocarbon pollution in aquifers. <i>Journal of Hazardous Materials</i> , 2021, 420, 126559. | 12.4 | 14 |
| 59 | Heterogeneity of the electron exchange capacity of kitchen waste compost-derived humic acids based on fluorescence components. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7825-7833. | 3.7 | 13 |
| 60 | Characteristic Study of Dissolved Organic Matter for Electron Transfer Capacity during Initial Landfill Stage. <i>Chinese Journal of Analytical Chemistry</i> , 2016, 44, 1568-1574. | 1.7 | 13 |
| 61 | Effects of landfill refuse on the reductive dechlorination of pentachlorophenol and speciation transformation of heavy metals. <i>Science of the Total Environment</i> , 2021, 760, 144122. | 8.0 | 12 |
| 62 | Polarity and Molecular Weight of Compost-Derived Humic Acids Impact Bio-dechlorination of Pentachlorophenol. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 4726-4733. | 5.2 | 11 |
| 63 | Insights into the redox components of dissolved organic matters during stabilization process. <i>Environmental Science and Pollution Research</i> , 2018, 25, 13026-13034. | 5.3 | 10 |
| 64 | Effect of Compositional and Structural Evolution of Size-fractionated Dissolved Organic Matter on Electron Transfer Capacity During Composting. <i>Chinese Journal of Analytical Chemistry</i> , 2017, 45, 579-586. | 1.7 | 9 |
| 65 | Investigating the composition characteristics of dissolved and particulate/colloidal organic matter in effluent-dominated stream using fluorescence spectroscopy combined with multivariable analysis. <i>Environmental Science and Pollution Research</i> , 2018, 25, 9132-9144. | 5.3 | 9 |
| 66 | Evolution properties and dechlorination capacities of particulate organic matter from a landfill. <i>Journal of Hazardous Materials</i> , 2020, 400, 123313. | 12.4 | 9 |
| 67 | Contribution of redox-active properties of compost-derived humic substances in hematite bioreduction. <i>Chinese Chemical Letters</i> , 2022, 33, 2731-2735. | 9.0 | 9 |
| 68 | Insight into indicators related to the humification and distribution of humic substances in Sphagnum and peat at different depths in the Qi Zimei Mountains. <i>Ecological Indicators</i> , 2019, 98, 430-441. | 6.3 | 6 |
| 69 | Novel method of vulnerability assessment of simple landfills area using the multimedia, multipathway and multireceptor risk assessment (3MRA) model, China. <i>Waste Management and Research</i> , 2016, 34, 1099-1108. | 3.9 | 2 |
| 70 | Response to Comment on "Comparison of Detection Methods of Microplastics in Landfill Mineralized Refuse and Selection of Degradation Degree Indexes". <i>Environmental Science & Technology</i> , 2022, 56, 1471-1472. | 10.0 | 0 |