

# Kenji Shiota

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41  
papers

511  
citations

13  
h-index

21  
g-index

42  
ext. papers

612  
ext. citations

7.2  
avg, IF

4.19  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 41 | Chloride chemical form in various types of fly ash. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 3932-7   | 10.3 | 63        |
| 40 | Vapor-phase elemental mercury adsorption by activated carbon co-impregnated with sulfur and chlorine. <i>Chemical Engineering Journal</i> , <b>2017</b> , 315, 598-607   | 14.7 | 55        |
| 39 | EXAFS speciation and phytoavailability of Pb in a contaminated soil amended with compost and gypsum. <i>Science of the Total Environment</i> , <b>2011</b> , 409, 1001-7   | 10.2 | 32        |
| 38 | Enhanced transformation of lead speciation in rhizosphere soils using phosphorus amendments and phytostabilization: an x-ray absorption fine structure spectroscopy investigation. <i>Journal of Environmental Quality</i> , <b>2011</b> , 40, 696-703                               | 3.4  | 31        |
| 37 | Effect of lead speciation on its oral bioaccessibility in surface dust and soil of electronic-wastes recycling sites. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 341, 365-372   | 12.8 | 27        |
| 36 | Cesium Speciation in Dust from Municipal Solid Waste and Sewage Sludge Incineration by Synchrotron Radiation Micro-X-ray Analysis. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 11249-54  | 7.8  | 25        |
| 35 | Source profiling of arsenic and heavy metals in the Selangor River basin and their maternal and cord blood levels in Selangor State, Malaysia. <i>Chemosphere</i> , <b>2017</b> , 184, 857-865   | 8.4  | 22        |
| 34 | Synergetic inhibition of thermochemical formation of chlorinated aromatics by sulfur and nitrogen derived from thiourea: Multielement characterizations. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 311, 43-50  | 12.8 | 22        |
| 33 | Stabilization of lead in an alkali-activated municipal solid waste incineration fly ash-Pyrophyllite-based system. <i>Journal of Environmental Management</i> , <b>2017</b> , 201, 327-334   | 7.9  | 22        |
| 32 | Behavior of cesium in municipal solid waste incineration. <i>Journal of Environmental Radioactivity</i> , <b>2015</b> , 143, 1-6   | 2.4  | 22        |
| 31 | Stabilization of cesium in alkali-activated municipal solid waste incineration fly ash and a pyrophyllite-based system. <i>Chemosphere</i> , <b>2017</b> , 187, 188-195  | 8.4  | 17        |
| 30 | Emission of particulate matter 2.5 (PM2.5) and elements from municipal solid waste incinerators. <i>Journal of Material Cycles and Waste Management</i> , <b>2016</b> , 18, 72-80  | 3.4  | 16        |
| 29 | Influence of water content and cell disruption on lipid extraction using subcritical dimethyl ether in wet microalgae. <i>Bioresource Technology</i> , <b>2021</b> , 329, 124892   | 11   | 16        |
| 28 | Chemical kinetics of Cs species in an alkali-activated municipal solid waste incineration fly ash and pyrophyllite-based system using Cs K-edge in situ X-ray absorption fine structure analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2017</b> , 131, 32-39 | 3.1  | 13        |
| 27 | Contrasting effects of sulfur dioxide on cupric oxide and chloride during thermochemical formation of chlorinated aromatics. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 13644-51  | 10.3 | 12        |
| 26 | Emission of particulate matter from gasification and melting furnace for municipal solid waste in Japan. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 1703-1710   | 6.8  | 10        |
| 25 | Distribution and characteristics of heavy metals in a first-generation monofill site for incinerator residue. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 373, 763-772   | 12.8 | 10        |

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|----|--|------|----|
| 24 | Emission of Particulate Matter 2.5 (PM2.5) from Sewage Sludge Incinerators in Japan. <i>Drying Technology</i> , <b>2015</b> , 33, 1286-1294  | 2.6  | 10 |
| 23 | Characterizing the mechanisms of gas-phase elemental mercury adsorption with iodine-impregnated activated carbons using Brunauer-Emmett-Teller analysis, X-ray diffraction, X-ray photoelectron spectroscopy, and X-ray absorption near-edge structure analysis. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126225 | 14.7 | 10 |
| 22 | Comparison of sewage sludge mono-incinerators: Mass balance and distribution of heavy metals in step grate and fluidized bed incinerators. <i>Waste Management</i> , <b>2020</b> , 105, 575-585  | 8.6  | 8  |
| 21 | Survey of elemental composition in dewatered sludge in Japan. <i>Science of the Total Environment</i> , <b>2021</b> , 752, 141857  | 10.2 | 8  |
| 20 | Thermochemical formation of dioxins promoted by chromium chloride: In situ Cr- and Cl-XAFS analysis. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 388, 122064   | 12.8 | 7  |
| 19 | Aqueous leaching of cattle manure incineration ash to produce a phosphate enriched fertilizer. <i>Journal of Material Cycles and Waste Management</i> , <b>2016</b> , 18, 608-617  | 3.4  | 7  |
| 18 | Forensic Identification of Automobile Window Glass Manufacturers in Japan Based on the Refractive Index, X-ray Fluorescence, and X-ray Absorption Fine Structure. <i>Analytical Sciences</i> , <b>2016</b> , 32, 207-13  | 1.7  | 6  |
| 17 | Formation pathways of polychlorinated dibenzo-p-dioxins and dibenzofurans from burning simulated PVC-coated cable wires. <i>Chemosphere</i> , <b>2021</b> , 264, 128542  | 8.4  | 6  |
| 16 | Quantitative cesium speciation and leaching properties in alkali-activated municipal solid waste incineration fly ash and pyrophyllite-based systems. <i>Chemosphere</i> , <b>2018</b> , 213, 578-586  | 8.4  | 6  |
| 15 | Quantitative Speciation of Insoluble Chlorine in Environmental Solid Samples. <i>ACS Omega</i> , <b>2019</b> , 4, 61263-6137   | 3.7  | 5  |
| 14 | Stabilization of lead with amorphous solids synthesized from aluminosilicate gel. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 385, 121109  | 12.8 | 5  |
| 13 | Bromination of Carbon and Formation of PBDD/Fs by Copper Bromide in Oxidative Thermal Process. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123878   | 12.8 | 4  |
| 12 | Forensic Identification of Automobile Window Glass Manufacturers Based on Cerium Chemical States. <i>Chemistry Letters</i> , <b>2014</b> , 43, 357-359   | 1.7  | 3  |
| 11 | Mitigation of bromine-containing products during pyrolysis of polycarbonate-based tetrabromobisphenol A in the presence of copper(I) oxide. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 409, 124972  | 12.8 | 3  |
| 10 | The effect of gas emission on the strength of composite products derived using alkali-activated municipal solid waste incineration fly ash/pyrophyllite-based systems. <i>Chemosphere</i> , <b>2019</b> , 228, 513-520   | 8.4  | 2  |
| 9  | Quantitative speciation of insoluble chlorine in E-waste open burning soil: Implications of the presence of unidentified aromatic-Cl and insoluble chlorides. <i>Chemosphere</i> , <b>2019</b> , 233, 493-502  | 8.4  | 2  |
| 8  | Forensic analysis of tire rubbers based on their sulfur chemical states. <i>Forensic Science International</i> , <b>2015</b> , 250, 53-6   | 2.6  | 2  |
| 7  | Microalgae preparation and lipid extraction by subcritical dimethyl ether. <i>MethodsX</i> , <b>2021</b> , 8, 101353   | 1.9  | 1  |

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|---|---|------|---|
| 6 | Chemical states of arsenic contained in sewage sludge incineration ash and insolubilized material. <i>Journal of Material Cycles and Waste Management</i> , <b>2018</b> , 20, 955-964   | 3.4  | 1 |
| 5 | Mass balance of heavy metals in a non-operational incinerator residue landfill site in Japan. <i>Journal of Material Cycles and Waste Management</i> , <b>2020</b> , 22, 354-364  | 3.4  | 0 |
| 4 | Mercury emission profile for the torrefaction of sewage sludge at a full-scale plant and application of polymer sorbent. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127186  | 12.8 | 0 |
| 3 | STABILIZATION OF LEAD IN MUNICIPAL SOLID WASTE INCINERATION BOTTOM ASH BY ACCELERATED AGING TECHNOLOGY. <i>Journal of Japan Society of Civil Engineers Ser G (Environmental Research)</i> , <b>2016</b> , 72, III_341-III_350   | 0.1  |   |
| 2 | Synthesis of a Si-Al Gel as a Starting Material of Aluminosilicate Solids. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2021</b> , 70, 406-411   | 0.1  |   |
| 1 | The Influence that Dissolution Properties of Aluminosilicates to Alkali Solutions Have on the Immobilization of Cesium in Fly Ash by Geopolymer Solidification. <i>Journal of the Japan Society of Material Cycles and Waste Management</i> , <b>2021</b> , 32, 136-146 | 0.1  |   |