

# Keiko Sasaki

## List of Publications by Year in descending order

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papers

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citations

66343

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296  
all docs

296  
docs citations

296  
times ranked

6009  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Selective removal of phosphate using La-porous carbon composites from aqueous solutions: Batch and column studies. <i>Chemical Engineering Journal</i> , 2017, 317, 1059-1068.  | 12.7 | 192       |
| 2  | Upgrading and dewatering of raw tropical peat by hydrothermal treatment. <i>Fuel</i> , 2010, 89, 635-641.   | 6.4  | 125       |
| 3  | Effect of Mg <sup>2+</sup> and Ca <sup>2+</sup> as divalent seawater cations on the floatability of molybdenite and chalcopyrite. <i>Minerals Engineering</i> , 2016, 96-97, 83-93.   | 4.3  | 110       |
| 4  | Confirmation of a sulfur-rich layer on pyrite after oxidative dissolution by Fe(III) ions around pH2. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 3155-3158.   | 3.9  | 102       |
| 5  | Mono-, Di-, and Tricarboxylic Acid Facilitated Lanthanum-Based Organic Frameworks: Insights into the Structural Stability and Mechanistic Approach for Superior Adsorption of Arsenate from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6917-6928. | 6.7  | 101       |
| 6  | Raman characterization of secondary minerals formed during chalcopyrite leaching with <i>Acidithiobacillus ferrooxidans</i> . <i>Hydrometallurgy</i> , 2009, 95, 153-158.   | 4.3  | 99        |
| 7  | MORPHOLOGY OF JAROSITE-GROUP COMPOUNDS PRECIPITATED FROM BIOLOGICALLY AND CHEMICALLY OXIDIZED Fe IONS. <i>Canadian Mineralogist</i> , 2000, 38, 45-56.  | 1.0  | 98        |
| 8  | Comparative studies of the reduction behavior of chromium(VI) by humic substances and their precursors. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 1085-1090.  | 4.3  | 92        |
| 9  | Selective flotation of chalcopyrite and molybdenite with H <sub>2</sub> O <sub>2</sub> oxidation. <i>Minerals Engineering</i> , 2017, 100, 83-92.   | 4.3  | 91        |
| 10 | Designing novel magnesium oxysulfate cement for stabilization/solidification of municipal solid waste incineration fly ash. <i>Journal of Hazardous Materials</i> , 2022, 423, 127025.  | 12.4 | 89        |
| 11 | Upgrading of low rank coal and woody biomass mixture by hydrothermal treatment. <i>Fuel</i> , 2011, 90, 2578-2584.  | 6.4  | 84        |
| 12 | Adhesion of <i>Escherichia coli</i> onto quartz, hematite and corundum: Extended DLVO theory and flotation behavior. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 140-149.   | 5.0  | 82        |
| 13 | Selective flotation of chalcopyrite and molybdenite with plasma pre-treatment. <i>Minerals Engineering</i> , 2014, 66-68, 102-111.  | 4.3  | 82        |
| 14 | Cubic Cu <sub>2</sub> O nanoparticles decorated on TiO <sub>2</sub> nanofiber heterostructure as an excellent synergistic photocatalyst for H <sub>2</sub> production and sulfamethoxazole degradation. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120221.    | 20.2 | 79        |
| 15 | Structural Memory Effect of Mg-Al and Zn-Al layered Double Hydroxides in the Presence of Different Natural Humic Acids: Process and Mechanism. <i>Langmuir</i> , 2018, 34, 5386-5395.   | 3.5  | 77        |
| 16 | Comparison of effectiveness of citric acid and other acids in leaching of low-grade Indonesian saprolitic ores. <i>Minerals Engineering</i> , 2016, 85, 1-16.   | 4.3  | 75        |
| 17 | Evaluation of processes controlling the geochemical constituents in deep groundwater in Bangladesh: Spatial variability on arsenic and boron enrichment. <i>Journal of Hazardous Materials</i> , 2010, 180, 50-62.  | 12.4 | 73        |
| 18 | Feasibility of an efficient recovery of rare earth-activated phosphors from waste fluorescent lamps through dense-medium centrifugation. <i>Separation and Purification Technology</i> , 2005, 44, 197-204.   | 7.9  | 70        |

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|----|--|------|-----------|
| 19 | Spectroscopic study on oxidative dissolution of chalcopyrite, enargite and tennantite at different pH values. <i>Hydrometallurgy</i> , 2010, 100, 144-151.   | 4.3  | 69        |
| 20 | Uptake of Sr <sup>2+</sup> and Co <sup>2+</sup> into Biogenic Hydroxyapatite: Implications for Biomineral Ion Exchange Synthesis. <i>Environmental Science &amp; Technology</i> , 2011, 45, 6985-6990.   | 10.0 | 69        |
| 21 | Floatability of rare earth phosphors from waste fluorescent lamps. <i>International Journal of Mineral Processing</i> , 2005, 77, 187-198.   | 2.6  | 68        |
| 22 | Recovery of cenospheres from coal fly ash using a dry separation process: Separation estimation and potential application. <i>International Journal of Mineral Processing</i> , 2010, 95, 18-24.   | 2.6  | 68        |
| 23 | Production of Solid Biofuel from Agricultural Wastes of the Palm Oil Industry by Hydrothermal Treatment. <i>Waste and Biomass Valorization</i> , 2010, 1, 395-405.   | 3.4  | 66        |
| 24 | Effects of trace elements in fish bones on crystal characteristics of hydroxyapatite obtained by calcination. <i>Ceramics International</i> , 2014, 40, 10777-10785.   | 4.8  | 66        |
| 25 | Structural factors of biogenic birnessite produced by fungus <i>Paraconiothyrium</i> sp. WL-2 strain affecting sorption of Co <sup>2+</sup> . <i>Chemical Geology</i> , 2012, 310-311, 106-113.  | 3.3  | 62        |
| 26 | Effect of natural dolomite calcination temperature on sorption of borate onto calcined products. <i>Microporous and Mesoporous Materials</i> , 2013, 171, 1-8.   | 4.4  | 62        |
| 27 | High-efficiency and low-carbon remediation of zinc contaminated sludge by magnesium oxysulfate cement. <i>Journal of Hazardous Materials</i> , 2021, 408, 124486.  | 12.4 | 61        |
| 28 | The role of sulfur-oxidizing bacteria <i>Thiobacillus thiooxidans</i> in pyrite weathering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 133, 269-278.  | 4.7  | 60        |
| 29 | Surfactant- and template-free hydrothermal assembly of Cu <sub>2</sub> O visible light photocatalysts for trimethoprim degradation. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119741.   | 20.2 | 60        |
| 30 | The effect of hydrothermal dewatering of Pontianak tropical peat on organics in wastewater and gaseous products. <i>Fuel</i> , 2010, 89, 3934-3942.  | 6.4  | 59        |
| 31 | Selective flotation of chalcopyrite and molybdenite using H <sub>2</sub> O <sub>2</sub> oxidation method with the addition of ferrous sulfate. <i>Minerals Engineering</i> , 2018, 122, 312-326.   | 4.3  | 59        |
| 32 | Fabrication and characterization of ternary sepiolite/g-C <sub>3</sub> N <sub>4</sub> /Pd composites for improvement of photocatalytic degradation of ciprofloxacin under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2020, 577, 397-405. | 9.4  | 58        |
| 33 | Floatability of molybdenite and chalcopyrite in artificial seawater. <i>Minerals Engineering</i> , 2018, 115, 117-130.   | 4.3  | 57        |
| 34 | Microbial formation of crystalline scorodite for treatment of As(III)-bearing copper refinery process solution using <i>Acidianus brierleyi</i> . <i>Hydrometallurgy</i> , 2014, 143, 34-41.   | 4.3  | 51        |
| 35 | Distributions and Leaching Behaviors of Toxic Elements in Fly Ash. <i>ACS Omega</i> , 2018, 3, 13055-13064.  | 3.5  | 51        |
| 36 | Selenite and selenate uptaken in ettringite: Immobilization mechanisms, coordination chemistry, and insights from structure. <i>Cement and Concrete Research</i> , 2017, 100, 166-175.   | 11.0 | 50        |

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|----|---|------|-----------|
| 37 | Sorption and speciation of arsenic by zero-valent iron. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 347, 8-17.  | 4.7  | 49        |
| 38 | Carbon-Dot-Decorated Layered Double Hydroxide Nanocomposites as a Multifunctional Environmental Material for Co-immobilization of $\text{SeO}_4^{2-}$ and $\text{Sr}^{2+}$ from Aqueous Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9053-9064. | 6.7  | 49        |
| 39 | Immobilization of cesium in fly ash-silica fume based geopolymers with different Si/Al molar ratios. <i>Science of the Total Environment</i> , 2019, 687, 1127-1137.  | 8.0  | 47        |
| 40 | Effect of grinding on the rate of oxidation of pyrite by oxygen in acid solutions. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 4649-4655.  | 3.9  | 46        |
| 41 | Template free mild hydrothermal synthesis of core-shell $\text{Cu}_2\text{O}(\text{Cu})@\text{CuO}$ visible light photocatalysts for <i>N</i> -acetyl- <i>p</i> -aminophenol degradation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20767-20777.                 | 10.3 | 46        |
| 42 | Biooxidation and precipitation for iron and sulfate removal from heap bioleaching effluent streams. <i>Hydrometallurgy</i> , 2010, 101, 7-14.   | 4.3  | 45        |
| 43 | Sorption characteristics of fluoride on to magnesium oxide-rich phases calcined at different temperatures. <i>Journal of Hazardous Materials</i> , 2011, 191, 240-248.  | 12.4 | 44        |
| 44 | Fabrication and characterization of carbon quantum dots decorated hollow porous graphitic carbon nitride through polyaniline for photocatalysis. <i>Chemical Engineering Journal</i> , 2021, 426, 131739.   | 12.7 | 44        |
| 45 | Immobilization mechanism of Se oxyanions in geopolymer: Effects of alkaline activators and calcined hydrotalcite additive. <i>Journal of Hazardous Materials</i> , 2020, 387, 121994.   | 12.4 | 43        |
| 46 | Formation of Covellite ( $\text{CuS}$ ) Under Biological Sulfate-Reducing Conditions. <i>Geomicrobiology Journal</i> , 2006, 23, 613-619.   | 2.0  | 42        |
| 47 | Production of 5-hydroxymethyl Furfural from Sugarcane Bagasse under Hot Compressed Water. <i>Procedia Earth and Planetary Science</i> , 2013, 6, 441-447.   | 0.6  | 41        |
| 48 | Effect of kerosene emulsion in $\text{MgCl}_2$ solution on the kinetics of bubble interactions with molybdenite and chalcopyrite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 501, 98-113.  | 4.7  | 41        |
| 49 | Effect of Fenton-like oxidation reagent on hydrophobicity and floatability of chalcopyrite and molybdenite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 554, 34-48.   | 4.7  | 41        |
| 50 | Importance of $\text{ZnTiO}_3$ Phase in ZnTi-Mixed Metal Oxide Photocatalysts Derived from Layered Double Hydroxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9169-9180.   | 8.0  | 41        |
| 51 | Single-step synthesis of oxygen-doped hollow porous graphitic carbon nitride for photocatalytic ciprofloxacin decomposition. <i>Chemical Engineering Journal</i> , 2021, 425, 130502.   | 12.7 | 41        |
| 52 | Adsorption of SIP E. coli onto quartz and its applications in froth flotation. <i>Minerals Engineering</i> , 2008, 21, 389-395.   | 4.3  | 40        |
| 53 | Zinc Sorption During Bio-oxidation and Precipitation of Manganese Modifies the Layer Stacking of Biogenic Birnessite. <i>Geomicrobiology Journal</i> , 2013, 30, 829-839.   | 2.0  | 39        |
| 54 | A Mechanistic Approach for the Synthesis of Carboxylate-Rich Carbonaceous Biomass-Doped Lanthanum-Oxalate Nanocomplex for Arsenate Adsorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6052-6063.   | 6.7  | 39        |

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|----|--|------|-----------|
| 55 | Spectroscopic and first-principles investigations of iodine species incorporation into ettringite: Implications for iodine migration in cement waste forms. <i>Journal of Hazardous Materials</i> , 2020, 389, 121880.               | 12.4 | 39        |
| 56 | Bio-templated synthesis of lithium manganese oxide microtubes and their application in Li <sup>+</sup> recovery. <i>Journal of Hazardous Materials</i> , 2013, 262, 38-47.   | 12.4 | 38        |
| 57 | Surfactant-modified montmorillonite by benzyloctadecyldimethylammonium chloride for removal of perchlorate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 481, 616-625.                            | 4.7  | 37        |
| 58 | Fe <sub>3</sub> O <sub>4</sub> /MgAl-NO <sub>3</sub> layered double hydroxide as a magnetically separable sorbent for the remediation of aqueous phosphate. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 984-991. | 6.7  | 37        |
| 59 | X-Ray photoelectron spectroscopic analysis of surface products on pyrite formed by bacterial leaching. <i>Bunseki Kagaku</i> , 1991, 40, 609-616.  | 0.2  | 36        |
| 60 | Performance of dry-separation processes in the recovery of cenospheres from fly ash and their implementation in a recovery unit. <i>International Journal of Mineral Processing</i> , 2011, 98, 15-23.                               | 2.6  | 36        |
| 61 | Numerical simulation for reactive solute transport of arsenic in permeable reactive barrier column including zero-valent iron. <i>Applied Mathematical Modelling</i> , 2011, 35, 5198-5207.  | 4.2  | 36        |
| 62 | Alkaline hydrothermal de-ashing and desulfurization of low quality coal and its application to hydrogen-rich gas generation. <i>Energy Conversion and Management</i> , 2011, 52, 762-769.  | 9.2  | 36        |
| 63 | Mechanism of the enhancement of bioleaching of copper from enargite by thermophilic iron-oxidizing archaea with the concomitant precipitation of arsenic. <i>Hydrometallurgy</i> , 2011, 109, 90-96.                                 | 4.3  | 36        |
| 64 | Suppression processes of anionic pollutants released from fly ash by various Ca additives. <i>Journal of Hazardous Materials</i> , 2019, 371, 474-483.   | 12.4 | 36        |
| 65 | Dye-sensitized Photocatalyst of Sepiolite for Organic Dye Degradation. <i>Catalysts</i> , 2019, 9, 235.  | 3.5  | 36        |
| 66 | Phylogenetic analysis of manganese-oxidizing fungi isolated from manganese-rich aquatic environments in Hokkaido, Japan. <i>Limnology</i> , 2006, 7, 219-223.  | 1.5  | 35        |
| 67 | Adhesion of <i>Ferroplasma acidiphilum</i> onto pyrite calculated from the extended DLVO theory using the van Oss-Good-Chaudhury approach. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 594-601.                     | 9.4  | 35        |
| 68 | Kinetic Model of Arsenic Sorption onto Zero-Valent Iron (ZVI). <i>Water Quality, Exposure, and Health</i> , 2011, 2, 125-132.  | 1.5  | 35        |
| 69 | Sorption of arsenate on MgAl and MgFe layered double hydroxides derived from calcined dolomite. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1614-1621.   | 6.7  | 35        |
| 70 | Mechanism of boron uptake by hydrocalumite calcined at different temperatures. <i>Journal of Hazardous Materials</i> , 2015, 287, 268-277.   | 12.4 | 35        |
| 71 | Sorption of H <sub>3</sub> BO <sub>3</sub> /B(OH) <sub>4</sub> <sup>-</sup> on calcined LDHs including different divalent metals. <i>Journal of Colloid and Interface Science</i> , 2015, 445, 183-194.                              | 9.4  | 34        |
| 72 | Arginine and lysine-functionalized layered double hydroxides as efficient sorbents for radioactive Co <sup>2+</sup> removal by chelate-facilitated immobilization. <i>Chemical Engineering Journal</i> , 2019, 374, 359-369.         | 12.7 | 34        |

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|----|--|-----|-----------|
| 73 | Pompon Dahlia et al. Cu <sub>2</sub> O/rGO Nanostructures for Visible Light Photocatalytic H <sub>2</sub> Production and 4-Chlorophenol Degradation. <i>ChemCatChem</i> , 2020, 12, 1699-1709.   | 3.7 | 34        |
| 74 | Effect of calcination temperature on Mg-Al bimetallic oxides as sorbents for the removal of F <sup>-</sup> in aqueous solutions. <i>Chemosphere</i> , 2014, 95, 597-603.   | 8.2 | 33        |
| 75 | Synthesis of morphologically controlled hydroxyapatite from fish bone by urea-assisted hydrothermal treatment and its Sr <sup>2+</sup> sorption capacity. <i>Powder Technology</i> , 2016, 292, 314-322.   | 4.2 | 33        |
| 76 | Synthesis and characterization of defective UiO-66 for efficient co-immobilization of arsenate and fluoride from single/binary solutions. <i>Environmental Pollution</i> , 2021, 278, 116841.  | 7.5 | 33        |
| 77 | Characteristic Sorption of H <sub>3</sub> BO <sub>3</sub> /B(OH) <sub>4</sub> <sup>-</sup> on Magnesium Oxide. <i>Materials Transactions</i> , 2013, 54, 1809-1817.  |     | 32        |
| 78 | Microbiological Redox Potential Control to Improve the Efficiency of Chalcopyrite Bioleaching. <i>Geomicrobiology Journal</i> , 2018, 35, 648-656.   | 2.0 | 32        |
| 79 | A novel composite of layered double hydroxide/geopolymer for co-immobilization of Cs <sup>+</sup> and SeO <sub>4</sub> <sup>2-</sup> from aqueous solution. <i>Science of the Total Environment</i> , 2019, 695, 133799.                         | 8.0 | 32        |
| 80 | Effect of H <sub>2</sub> O <sub>2</sub> and potassium amyl xanthate on separation of enargite and tennantite from chalcopyrite and bornite using flotation. <i>Minerals Engineering</i> , 2020, 152, 106371.                                     | 4.3 | 32        |
| 81 | Formation of Ni- and Zn-Sulfides in Cultures of Sulfate-Reducing Bacteria. <i>Geomicrobiology Journal</i> , 2007, 24, 609-614.   | 2.0 | 31        |
| 82 | Bioreduction and immobilization of hexavalent chromium by the extremely acidophilic Fe(III)-reducing bacterium <i>Acidocella aromatica</i> strain PFBC. <i>Extremophiles</i> , 2015, 19, 495-503.  | 2.3 | 31        |
| 83 | Simultaneous oxidation and immobilization of arsenite from refinery waste water by thermoacidophilic iron-oxidizing archaeon, <i>Acidianus brierleyi</i> . <i>Minerals Engineering</i> , 2013, 48, 126-134.                                      | 4.3 | 30        |
| 84 | A promising Zn-Ti layered double hydroxide/Fe-bearing montmorillonite composite as an efficient photocatalyst for Cr(VI) reduction: Insight into the role of Fe impurity in montmorillonite. <i>Applied Surface Science</i> , 2021, 546, 148835. | 6.1 | 30        |
| 85 | Bioscorodite crystallization using <i>Acidianus brierleyi</i> : Effects caused by Cu(II) present in As(III)-bearing copper refinery wastewaters. <i>Hydrometallurgy</i> , 2017, 168, 121-126.  | 4.3 | 28        |
| 86 | Synthesis of modulator-driven highly stable zirconium-fumarate frameworks and mechanistic investigations of their arsenite and arsenate adsorption from aqueous solutions. <i>CrystEngComm</i> , 2019, 21, 2320-2332.                            | 2.6 | 28        |
| 87 | Energy-resolved distribution of electron traps for O/S-doped carbon nitrides by reversed double-beam photoacoustic spectroscopy and the photocatalytic reduction of Cr(VI). <i>Chemical Communications</i> , 2020, 56, 3793-3796.                | 4.1 | 28        |
| 88 | Spectroscopic study of precipitates formed during removal of selenium from mine drainage spiked with selenate using permeable reactive materials. <i>Geochemical Journal</i> , 2008, 42, 283-294.  | 1.0 | 27        |
| 89 | One-step synthesis of layered double hydroxide-intercalated gluconate for removal of borate. <i>Separation and Purification Technology</i> , 2014, 123, 114-123.   | 7.9 | 27        |
| 90 | Sequential pretreatment of double refractory gold ore (DRGO) with a thermophilic iron oxidizing archaeon and fungal crude enzymes. <i>Minerals Engineering</i> , 2019, 138, 86-94.   | 4.3 | 27        |

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|-----|--|------|-----------|
| 91  | Precipitation of Cu-Sulfides by Copper-Tolerant <i>Desulfovibrio</i> Isolates. <i>Geomicrobiology Journal</i> , 2008, 25, 219-227.   | 2.0  | 26        |
| 92  | Sorption of Co <sup>2+</sup> Ions on the Biogenic Mn Oxide Produced by a Mn-Oxidizing Fungus, <i>Paraconiothyrium</i> sp. WL-2. <i>Materials Transactions</i> , 2008, 49, 605-611.   | 1.2  | 26        |
| 93  | Temperature effect on the sorption of borate by a layered double hydroxide prepared using dolomite as a magnesium source. <i>Chemical Engineering Journal</i> , 2013, 225, 664-672.  | 12.7 | 26        |
| 94  | Effect of calcination temperature for magnesite on interaction of MgO-rich phases with boric acid. <i>Ceramics International</i> , 2014, 40, 1651-1660.  | 4.8  | 26        |
| 95  | Synthesis of sucrose-derived porous carbon-doped Zr <sub>x</sub> La <sub>1-x</sub> OOH materials and their superior performance for the simultaneous immobilization of arsenite and fluoride from binary systems. <i>Chemical Engineering Journal</i> , 2017, 325, 1-13. | 12.7 | 26        |
| 96  | Bio-modification of carbonaceous matter in gold ores: Model experiments using powdered activated carbon and cell-free spent medium of <i>Phanerochaete chrysosporium</i> . <i>Hydrometallurgy</i> , 2017, 168, 76-83.  | 4.3  | 26        |
| 97  | Cosorption Characteristics of SeO <sub>4</sub> <sup>2-</sup> and Sr <sup>2+</sup> Radioactive Surrogates Using 2D/2D Graphene Oxide-Layered Double Hydroxide Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13854-13866.                    | 6.7  | 26        |
| 98  | Enhanced adsorption of perchlorate by gemini surfactant-modified montmorillonite: Synthesis, characterization and their adsorption mechanism. <i>Applied Clay Science</i> , 2018, 163, 46-55.  | 5.2  | 26        |
| 99  | Acid tolerant covalently functionalized graphene oxide for the selective extraction of Pd from high-level radioactive liquid wastes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4561-4573.   | 10.3 | 26        |
| 100 | Reduction of undesirable element leaching from fly ash by adding hydroxylated calcined dolomite. <i>Waste Management</i> , 2019, 86, 23-35.  | 7.4  | 26        |
| 101 | Characterization of secondary arsenic-bearing precipitates formed in the bioleaching of enargite by <i>Acidithiobacillus ferrooxidans</i> . <i>Hydrometallurgy</i> , 2010, 104, 424-431.   | 4.3  | 25        |
| 102 | Mobility and impact of trace metals in Barapukuria coal mining area, Northwest Bangladesh. <i>Arabian Journal of Geosciences</i> , 2013, 6, 4593-4605.   | 1.3  | 25        |
| 103 | Comparison of atmospheric citric acid leaching kinetics of nickel from different Indonesian saprolitic ores. <i>Hydrometallurgy</i> , 2016, 161, 138-151.  | 4.3  | 25        |
| 104 | Electrolysis Oxidation of Chalcopyrite and Molybdenite for Selective Flotation. <i>Materials Transactions</i> , 2017, 58, 761-767.   | 1.2  | 25        |
| 105 | Suppression of pyrite oxidation in acid mine drainage by carrier microencapsulation using liquid product of hydrothermal treatment of low-rank coal, and electrochemical behavior of resultant encapsulating coatings. <i>Hydrometallurgy</i> , 2015, 158, 83-93.        | 4.3  | 24        |
| 106 | Adsorption characteristics of arsenate on colloidal nanosheets of layered double hydroxide. <i>Applied Clay Science</i> , 2016, 134, 110-119.  | 5.2  | 24        |
| 107 | Application of fly ash-based geopolymer for removal of cesium, strontium and arsenate from aqueous solutions: kinetic, equilibrium and mechanism analysis. <i>Water Science and Technology</i> , 2019, 79, 2116-2125.  | 2.5  | 24        |
| 108 | Recent development of organic-inorganic hybrid photocatalysts for biomass conversion into hydrogen production. <i>Nanoscale Advances</i> , 2022, 4, 2561-2582.   | 4.6  | 24        |



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|-----|---|------|-----------|
| 109 | Immobilization of Mn(II) Ions by a Mn-Oxidizing Fungus <I>Paraconiothyrium sp.-Like</I> Strain at Neutral pHs. <i>Materials Transactions</i> , 2006, 47, 2457-2461.   | 1.2  | 23        |
| 110 | Effect of surfactant molecular structure on perchlorate removal by various organo-montmorillonites. <i>Applied Clay Science</i> , 2015, 114, 212-220.   | 5.2  | 23        |
| 111 | Investigation of the Changes in Hydrogen Bonds During Low-Temperature Pyrolysis of Lignite by Diffuse Reflectance FT-IR Combined with Forms of Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 8971-8978. | 3.7  | 23        |
| 112 | Optimization of hexadecylpyridinium-modified montmorillonite for removal of perchlorate based on adsorption mechanisms. <i>Applied Clay Science</i> , 2016, 123, 29-36.   | 5.2  | 23        |
| 113 | Characterization and Production of Solid Biofuel from Sugarcane Bagasse by Hydrothermal Carbonization. <i>Waste and Biomass Valorization</i> , 2017, 8, 1941-1951.  | 3.4  | 23        |
| 114 | Synergistic effect of Sr <sup>2+</sup> and ReO <sub>4</sub> <sup>-</sup> adsorption on hexadecyl pyridinium-modified montmorillonite. <i>Applied Surface Science</i> , 2017, 394, 431-439.  | 6.1  | 23        |
| 115 | Simultaneous immobilization of borate, arsenate, and silicate from geothermal water derived from mining activity by co-precipitation with hydroxyapatite. <i>Chemosphere</i> , 2018, 207, 139-146.                                  | 8.2  | 23        |
| 116 | Immobilization of Se(VI) in mine drainage by permeable reactive barriers: column performance. <i>Applied Geochemistry</i> , 2008, 23, 1012-1022.  | 3.0  | 22        |
| 117 | Chemical regeneration of magnesium oxide used as a sorbent for fluoride. <i>Separation and Purification Technology</i> , 2012, 98, 24-30.   | 7.9  | 22        |
| 118 | Application of fly ash-based materials for stabilization/solidification of cesium and strontium. <i>Environmental Science and Pollution Research</i> , 2019, 26, 23542-23554.   | 5.3  | 22        |
| 119 | Effects of initial Fe <sup>2+</sup> concentration and pulp density on the bioleaching of Cu from enargite by <i>Acidianus brierleyi</i> . <i>Hydrometallurgy</i> , 2011, 109, 153-160.  | 4.3  | 21        |
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