

Cheng-yan Wang

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

3,145
citations

201658

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h-index

197805

49
g-index

109
all docs

109
docs citations

109
times ranked

2090
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Kinetics of pyrite multi-step thermal decomposition in refractory gold sulphide concentrates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 3689-3702. | 3.6 | 9 |
| 2 | Facile and efficient recovery of lithium from spent LiFePO_4 batteries via air oxidation-water leaching at room temperature. <i>Green Chemistry</i> , 2022, 24, 152-162. | 9.0 | 84 |
| 3 | Adsorption behavior and mechanism of mixed heavy metal ions by zeolite adsorbent prepared from lithium leach residue. <i>Microporous and Mesoporous Materials</i> , 2022, 329, 111553. | 4.4 | 21 |
| 4 | Efficient separation and recovery of gallium and indium in spent CIGS materials. <i>Separation and Purification Technology</i> , 2022, 282, 120087. | 7.9 | 14 |
| 5 | Microwave Pyrolysis Pretreatment of High Arsenic Refractory Gold Sulfide Concentrates in Nitrogen Atmosphere: Process Optimization and Mechanism Study. <i>Jom</i> , 2022, 74, 167-177. | 1.9 | 2 |
| 6 | Insights into the effect of cations on cathodic behavior and microstructure in cadmium electrochemical recovery process. <i>Chemosphere</i> , 2022, 292, 133423. | 8.2 | 5 |
| 7 | Regenerating spent graphite from scrapped lithium-ion battery by high-temperature treatment. <i>Carbon</i> , 2022, 189, 493-502. | 10.3 | 42 |
| 8 | Regeneration of graphite anode from spent lithium-ion batteries via microwave calcination. <i>Journal of Electroanalytical Chemistry</i> , 2022, 908, 116087. | 3.8 | 17 |
| 9 | Enrichment of scandium and aluminum from limonitic laterite during the nitric acid pressure leaching process. <i>Hydrometallurgy</i> , 2022, 208, 105819. | 4.3 | 11 |
| 10 | A Review on the Removal of Magnesium and Fluoride in Zinc Hydrometallurgy. <i>Journal of Sustainable Metallurgy</i> , 2022, 8, 25-36. | 2.3 | 10 |
| 11 | Efficient separation and purification of indium and gallium in spent Copper indium gallium diselenide (CIGS). <i>Journal of Cleaner Production</i> , 2022, 339, 130658. | 9.3 | 12 |
| 12 | Thorough extraction of lithium and rubidium from lepidolite via thermal activation and acid leaching. <i>Minerals Engineering</i> , 2022, 178, 107407. | 4.3 | 11 |
| 13 | Mineral evolution and porous kinetics of nitric acid pressure leaching limonitic laterite. <i>Minerals Engineering</i> , 2022, 181, 107544. | 4.3 | 8 |
| 14 | Recovering metals from flue dust produced in secondary copper smelting through a novel process combining low temperature roasting, water leaching and mechanochemical reduction. <i>Journal of Hazardous Materials</i> , 2022, 430, 128497. | 12.4 | 14 |
| 15 | Innovative and sustainable separation and recovery of valuable metals in spent CIGS materials. <i>Journal of Cleaner Production</i> , 2022, 350, 131426. | 9.3 | 13 |
| 16 | Selective recovery and efficient separation of lithium, rubidium, and cesium from lepidolite ores. <i>Separation and Purification Technology</i> , 2022, 288, 120667. | 7.9 | 15 |
| 17 | Efficient separation of impurities in scrap copper by sulfurization-vacuum distillation. <i>Vacuum</i> , 2022, 202, 111145. | 3.5 | 4 |
| 18 | Sustainable process for valuable-metal recovery from circulating fluidized bed fly ash through nitric acid pressure leaching. <i>Journal of Cleaner Production</i> , 2022, 360, 132212. | 9.3 | 12 |

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|----|---|------|-----------|
| 19 | Thermodynamic analysis and application for preparing FePO ₄ from nitric acid pressure leach laterite residue by selective leaching in phosphoric acid and induced precipitation. <i>Hydrometallurgy</i> , 2022, 212, 105896. | 4.3 | 7 |
| 20 | An advanced strategy of hydrometallurgy before sorting for recycling spent entire ternary lithium-ion batteries. <i>Journal of Cleaner Production</i> , 2022, 361, 132268. | 9.3 | 29 |
| 21 | A sustainable process to recycle aluminum from coal fly ash for simultaneous removal of iron: Solid waste management and evaluation. <i>Minerals Engineering</i> , 2022, 184, 107638. | 4.3 | 11 |
| 22 | Efficient recovery of iron and chromium from laterite residue by non-molten metallization reduction. <i>Powder Technology</i> , 2022, 407, 117618. | 4.2 | 4 |
| 23 | Separation and recovery of scandium from high pressure sulfuric acid leach liquor of limonitic laterite. <i>Chemical Engineering Research and Design</i> , 2022, 165, 161-172. | 5.6 | 7 |
| 24 | A shortcut approach for cooperative disposal of flue dust and waste acid from copper smelting: Decontamination of arsenic-bearing waste and recovery of metals. <i>Science of the Total Environment</i> , 2022, 843, 157063. | 8.0 | 12 |
| 25 | A breakthrough method for the recycling of spent lithium-ion batteries without pre-sorting. <i>Green Chemistry</i> , 2021, 23, 8434-8440. | 9.0 | 30 |
| 26 | Improvement of the electrochemical performance of spent graphite by asphalt coating. <i>Surfaces and Interfaces</i> , 2021, 24, 101089. | 3.0 | 16 |
| 27 | Efficient removal and recovery of arsenic from copper smelting flue dust by a roasting method: Process optimization, phase transformation and mechanism investigation. <i>Journal of Hazardous Materials</i> , 2021, 412, 125232. | 12.4 | 48 |
| 28 | Recovery of valuable metals from spent LiNi _x Co _y Mn _z O ₂ cathode material via phase transformation and stepwise leaching. <i>Separation and Purification Technology</i> , 2021, 267, 118609. | 7.9 | 46 |
| 29 | A Facile and Environmentally Friendly Approach for Lead Recovery from Lead Sulfate Residue via Mechanochemical Reduction: Phase Transformation and Reaction Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10227-10239. | 6.7 | 6 |
| 30 | Separation of potassium from sodium in alkaline solution by solvent extraction with 4-tert-butyl-2-(1±-methylbenzyl) phenol. <i>Journal of Central South University</i> , 2021, 28, 2003-2009. | 3.0 | 1 |
| 31 | Co-treatment of copper smelting flue dust and arsenic sulfide residue by a pyrometallurgical approach for simultaneous removal and recovery of arsenic. <i>Journal of Hazardous Materials</i> , 2021, 416, 126149. | 12.4 | 39 |
| 32 | Rubidium extraction from mineral and brine resources: A review. <i>Hydrometallurgy</i> , 2021, 203, 105644. | 4.3 | 37 |
| 33 | Recovery and regeneration of LiFePO ₄ from spent lithium-ion batteries via a novel pretreatment process. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1478-1487. | 4.9 | 34 |
| 34 | Stepwise removal and recovery of phosphate and fluoride from wastewater via pH-dependent precipitation: Thermodynamics, experiment and mechanism investigation. <i>Journal of Cleaner Production</i> , 2021, 320, 128872. | 9.3 | 12 |
| 35 | Behavior and mechanism of fluoride removal from aqueous solutions by using synthesized CaSO ₄ ·2H ₂ O nanorods. <i>Chemical Engineering Journal</i> , 2021, 426, 131364. | 12.7 | 40 |
| 36 | Microwave pretreatment for enhanced selective nitric acid pressure leaching of limonitic laterite. <i>Journal of Central South University</i> , 2021, 28, 3050-3060. | 3.0 | 10 |

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|----|---|-----|-----------|
| 37 | Efficient recovery of valuable metals from waste printed circuit boards by microwave pyrolysis. Chinese Journal of Chemical Engineering, 2021, 40, 262-268. | 3.5 | 12 |
| 38 | NH ₄ F as an interfacial modifier for high performance NiO _x -based inverted perovskite solar cells. Organic Electronics, 2020, 78, 105627. | 2.6 | 13 |
| 39 | Electrochemical behavior and corrosion resistance of IrO ₂ -ZrO ₂ binary oxide coatings for promoting oxygen evolution in sulfuric acid solution. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 264-273. | 4.9 | 13 |
| 40 | Sustainable and Facile Process for Lithium Recovery from Spent LiNi _x Co _y Mn _z O ₂ Cathode Materials via Selective Sulfation with Ammonium Sulfate. ACS Sustainable Chemistry and Engineering, 2020, 8, 15732-15739. | 6.7 | 56 |
| 41 | Direct Regeneration of Spent LiFePO ₄ Cathode Material by a Green and Efficient One-Step Hydrothermal Method. ACS Sustainable Chemistry and Engineering, 2020, 8, 17622-17628. | 6.7 | 96 |
| 42 | Mineralogical Characterization of Limonitic Laterite from Africa and Its Proposed Processing Route. Journal of Sustainable Metallurgy, 2020, 6, 491-503. | 2.3 | 12 |
| 43 | Nitric acid pressure leaching of limonitic laterite ores: Regeneration of HNO ₃ and simultaneous synthesis of fibrous CaSO ₄ ·2H ₂ O by-products. Journal of Central South University, 2020, 27, 3249-3258. | 3.0 | 16 |
| 44 | Efficient Extraction of Lithium and Rubidium from Polythionite via Alkaline Leaching Combined with Solvent Extraction and Precipitation. ACS Sustainable Chemistry and Engineering, 2020, 8, 14462-14470. | 6.7 | 29 |
| 45 | Interfacial modification by multifunctional octocrylene for high efficiency and stable planar perovskite solar cells. Chemical Communications, 2020, 56, 6731-6734. | 4.1 | 6 |
| 46 | E-pH diagrams for the metal-water system at 150°C: Thermodynamic analysis and application for extraction and separation of target metals from saprolitic laterite. Minerals Engineering, 2020, 152, 106365. | 4.3 | 17 |
| 47 | Graphite Recycling from the Spent Lithium-Ion Batteries by Sulfuric Acid Curing "Leaching Combined with High-Temperature Calcination. ACS Sustainable Chemistry and Engineering, 2020, 8, 9447-9455. | 6.7 | 121 |
| 48 | Deep and efficient removal of vanadium from molybdate solution using magnetic ³ -Fe ₂ O ₃ nanoparticles. Applied Surface Science, 2020, 529, 147060. | 6.1 | 13 |
| 49 | Effective Separation and Beneficiation of Iron and Chromium from Laterite Sulfuric Acid Leach Residue. ACS Sustainable Chemistry and Engineering, 2020, 8, 3959-3968. | 6.7 | 23 |
| 50 | Effective Separation and Recovery of Valuable Components from CIGS Chamber Waste via Controlled Phase Transformation and Selective Leaching. ACS Sustainable Chemistry and Engineering, 2020, 8, 3026-3037. | 6.7 | 15 |
| 51 | Nonmolten state metalized reduction of saprolitic laterite ores: Effective extraction and process optimization of nickel and iron. Journal of Cleaner Production, 2020, 256, 120415. | 9.3 | 21 |
| 52 | Introduction of LiCl into SnO ₂ electron transport layer for efficient planar perovskite solar cells. Chemical Physics Letters, 2020, 745, 137220. | 2.6 | 20 |
| 53 | Interfacial modification of various alkali metal cations in perovskite solar cells and their influence on photovoltaic performance. New Journal of Chemistry, 2020, 44, 8902-8909. | 2.8 | 14 |
| 54 | Phytate modifies the hole transport layer and assists in blade coating to prepare efficient perovskite solar cells. Solar Energy, 2020, 203, 25-31. | 6.1 | 8 |

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|----|---|------|-----------|
| 55 | Enhanced efficiency and stability of inverted perovskite solar cells by carbon dots cathode interlayer via solution process. <i>Organic Electronics</i> , 2019, 74, 228-236. | 2.6 | 16 |
| 56 | Introduction of carbon nanodots into SnO ₂ electron transport layer for efficient and UV stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5353-5362. | 10.3 | 67 |
| 57 | Composition of Ag-WO ₃ core-shell nanostructures as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Solid State Chemistry</i> , 2019, 271, 246-252. | 2.9 | 22 |
| 58 | The improvement of inverted perovskite solar cells by the introduction of CTAB into PEDOT:PSS. <i>Solar Energy</i> , 2019, 188, 28-34. | 6.1 | 18 |
| 59 | Preparation of tungsten-based material and the effect on oxygen reduction reaction. <i>Materials Research Express</i> , 2019, 6, 0850c2. | 1.6 | 0 |
| 60 | Reactive-Sputtered Prepared Tin Oxide Thin Film as an Electron Transport Layer for Planar Perovskite Solar Cells. <i>Coatings</i> , 2019, 9, 320. | 2.6 | 5 |
| 61 | E-pH Diagrams for the Li-Fe-P-H ₂ O System from 298 to 473 K: Thermodynamic Analysis and Application to the Wet Chemical Processes of the LiFePO ₄ Cathode Material. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14207-14215. | 3.1 | 63 |
| 62 | Leaching Behavior of Lead and Silver from Lead Sulfate Hazardous Residues in NaCl-CaCl ₂ -NaClO ₃ Media. <i>Jom</i> , 2019, 71, 2388-2395. | 1.9 | 4 |
| 63 | Electrochemical behavior and corrosion mechanism of Ti/IrO ₂ -RuO ₂ anodes in sulphuric acid solution. <i>Journal of Electroanalytical Chemistry</i> , 2019, 837, 175-183. | 3.8 | 24 |
| 64 | Lithium Extraction and Hydroxysodalite Zeolite Synthesis by Hydrothermal Conversion of β -Spodumene. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9498-9505. | 6.7 | 48 |
| 65 | Enhanced performance of mesostructured perovskite solar cells with a composite Sn ⁴⁺ -doped TiO ₂ electron transport layer. <i>Ionics</i> , 2019, 25, 4509-4516. | 2.4 | 7 |
| 66 | Interface modification by a multifunctional ammonium salt for high performance and stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11867-11876. | 10.3 | 45 |
| 67 | Sustainable and Facile Method for the Selective Recovery of Lithium from Cathode Scrap of Spent LiFePO ₄ Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5626-5631. | 6.7 | 188 |
| 68 | Effect of Cu ₂ O Content in Electrodeposited CuO _x Film on Perovskite Solar Cells. <i>Nano</i> , 2019, 14, 1950126. | 1.0 | 3 |
| 69 | Separation and Recovery of Valuable Elements from Spent CIGS Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19816-19823. | 6.7 | 16 |
| 70 | Polyvinylpyrrolidone as additive for perovskite solar cells with water and isopropanol as solvents. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 2374-2382. | 2.8 | 12 |
| 71 | Surface morphology and electrochemical properties of RuO ₂ -doped Ti/IrO ₂ -ZrO ₂ anodes for oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2019, 778, 593-602. | 5.5 | 26 |
| 72 | Crystallization behavior-dependent electrocatalytic activity and stability of Ti/IrO ₂ RuO ₂ SiO ₂ anodes for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 511-522. | 7.1 | 9 |

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|----|---|-----|-----------|
| 73 | Efficient Phase Transformation of Al_2O_3 to Al_2O_3 in Spent Hydrodesulphurization Catalyst by Microwave Roasting Method. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1495-1501. | 3.7 | 25 |
| 74 | Solid-phase synthesis of Cu_2MoS_4 nanoparticles for degradation of methyl blue under a halogen-tungsten lamp. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018, 25, 310-314. | 4.9 | 13 |
| 75 | Rubidium and Potassium Extraction from Granitic Rubidium Ore: Process Optimization and Mechanism Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4922-4930. | 6.7 | 18 |
| 76 | High-Performance Perovskite Solar Cells with Large Grain Size obtained by using the Lewis Acid-Base Adduct of Thiourea. <i>Solar Rrl</i> , 2018, 2, 1800034. | 5.8 | 102 |
| 77 | A novel way to synthesize calcium sulfate whiskers with high aspect ratios from concentrated calcium nitrate solution. <i>Materials Letters</i> , 2018, 219, 1-3. | 2.6 | 16 |
| 78 | Surface determination and electrochemical behavior of IrO_2 - RuO_2 - SiO_2 ternary oxide coatings in oxygen evolution reaction application. <i>Electrochimica Acta</i> , 2018, 264, 350-357. | 5.2 | 45 |
| 79 | A simple and effective process for recycling zinc-rich paint residue. <i>Waste Management</i> , 2018, 76, 234-241. | 7.4 | 24 |
| 80 | Cleaning of lead smelting flue gas scrubber sludge and recovery of lead, selenium and mercury by the hydrometallurgical route. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1461-1469. | 2.2 | 6 |
| 81 | Removal of Pb(II) from aqueous solution using a new zeolite-type absorbent: Potassium ore leaching residue. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 7138-7143. | 6.7 | 22 |
| 82 | Effects of Calcination Temperature on the Surface Morphology and Electrocatalytic Properties of Ti/IrO_2 - ZrO_2 Anodes in an Oxygen Evolution Application. <i>Journal of the Electrochemical Society</i> , 2018, 165, F1192-F1198. | 2.9 | 9 |
| 83 | Large guanidinium cation enhance photovoltage for perovskite solar cells via solution-processed secondary growth technique. <i>Solar Energy</i> , 2018, 176, 118-125. | 6.1 | 14 |
| 84 | Efficient Recovery of Copper and Cobalt from the Matte-Slag Mixture of ISA Furnace by Injection of Coke and Pyrite. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 3118-3126. | 2.1 | 6 |
| 85 | Efficient and economical recovery of lithium, cobalt, nickel, manganese from cathode scrap of spent lithium-ion batteries. <i>Journal of Cleaner Production</i> , 2018, 204, 437-446. | 9.3 | 166 |
| 86 | Efficient removal of oil from spent hydrodesulphurization catalysts using microwave pyrolysis method. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 135, 169-175. | 5.5 | 16 |
| 87 | Separation of rubidium from potassium in rubidium ore liquor by solvent extraction with t-BAMBP. <i>Minerals Engineering</i> , 2018, 121, 158-163. | 4.3 | 19 |
| 88 | Facile synthesis of monodispersed copper oxalate flaky particles in the presence of EDTA. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018, 25, 762-769. | 4.9 | 1 |
| 89 | Enhanced performance of TiO_2 -based perovskite solar cells with Ru-doped TiO_2 electron transport layer. <i>Solar Energy</i> , 2018, 169, 335-342. | 6.1 | 74 |
| 90 | Clean and efficient process for the extraction of rubidium from granitic rubidium ore. <i>Journal of Cleaner Production</i> , 2018, 196, 64-73. | 9.3 | 24 |

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|-----|---|------|-----------|
| 91 | Effect of activation pretreatment of limonitic laterite ores using sodium fluoride and sulfuric acid on water leaching of nickel and cobalt. <i>Hydrometallurgy</i> , 2017, 169, 411-417. | 4.3 | 30 |
| 92 | Two-stage reduction for the preparation of ferronickel alloy from nickel laterite ore with low Co and high MgO contents. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 512-522. | 4.9 | 8 |
| 93 | Incorporation of Rb cations into Cu ₂ FeSnS ₄ thin films improves structure and morphology. <i>Materials Letters</i> , 2017, 202, 36-38. | 2.6 | 16 |
| 94 | Novel geochemistry-inspired method for the deep removal of vanadium from molybdate solution. <i>Journal of Hazardous Materials</i> , 2017, 331, 210-217. | 12.4 | 15 |
| 95 | A promising approach for the recovery of high value-added metals from spent lithium-ion batteries. <i>Journal of Power Sources</i> , 2017, 351, 192-199. | 7.8 | 371 |
| 96 | Recovery of iron from copper tailings via low-temperature direct reduction and magnetic separation: process optimization and mineralogical study. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 974-982. | 4.9 | 13 |
| 97 | Effects of K ions doping on the structure, morphology and optical properties of Cu ₂ FeSnS ₄ thin films prepared by blade-coating process. <i>Optoelectronics Letters</i> , 2017, 13, 291-294. | 0.8 | 6 |
| 98 | Deep cleaning of a metallurgical zinc leaching residue and recovery of valuable metals. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 1217-1227. | 4.9 | 11 |
| 99 | Pilot-scale plant study on solid-state metalized reduction–magnetic separation for magnesium-rich nickel oxide ores. <i>International Journal of Mineral Processing</i> , 2017, 169, 99-105. | 2.6 | 9 |
| 100 | Solid-State Metalized Reduction of Magnesium-Rich Low-Nickel Oxide Ores Using Coal as the Reductant Based on Thermodynamic Analysis. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2037-2046. | 2.1 | 25 |
| 101 | Influence of Calcium Chloride Addition on Coal-Based Reduction Roasting of Low-Nickel Garnierite Ore. <i>Materials Transactions</i> , 2017, 58, 1161-1168. | 1.2 | 12 |
| 102 | Mechanism of sodium chloride in promoting reduction of high-magnesium low-nickel oxide ore. <i>Scientific Reports</i> , 2016, 6, 29061. | 3.3 | 19 |
| 103 | Chloridization and Reduction Roasting of High-Magnesium Low-Nickel Oxide Ore Followed by Magnetic Separation to Enrich Ferronickel Concentrate. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 145-153. | 2.1 | 40 |
| 104 | Pilot-scale plant study on the innovative nitric acid pressure leaching technology for laterite ores. <i>Hydrometallurgy</i> , 2015, 155, 88-94. | 4.3 | 66 |
| 105 | Screening and reduction roasting of limonitic laterite and ammonia-carbonate leaching of nickel–cobalt to produce a high-grade iron concentrate. <i>Minerals Engineering</i> , 2013, 50-51, 106-113. | 4.3 | 39 |
| 106 | Comprehensive utilization of Philippine laterite ore, part 1: Design of technical route and classification of the initial ore based on mineralogical analysis. <i>International Journal of Mineral Processing</i> , 2013, 124, 42-49. | 2.6 | 18 |
| 107 | Selective pressure leaching of Fe (II)-rich limonitic laterite ores from Indonesia using nitric acid. <i>Minerals Engineering</i> , 2013, 45, 151-158. | 4.3 | 59 |
| 108 | Cobalt separation from nickel in sulfate aqueous solution by a new extractant: Di-decylphosphinic acid (DDPA). <i>Hydrometallurgy</i> , 2012, 113-114, 86-90. | 4.3 | 17 |