

Grzegorz Lisak

List of Publications by Year in Descending Order

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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.

159
papers

2,972
citations

29
h-index

43
g-index

163
ext. papers

4,137
ext. citations

8.3
avg, IF

6.44
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 159 | Non-equilibrium potentiometric sensors integrated with metal modified paper-based microfluidic solution sampling substrates for determination of heavy metals in complex environmental samples.. <i>Analytica Chimica Acta</i> , 2022 , 1197, 339495 | 6.6 | 2 |
| 158 | Conversion of reverse osmosis membranes into metal-free carbocatalyst for electrochemical syngas production. <i>Journal of CO2 Utilization</i> , 2022 , 58, 101908 | 7.6 | 0 |
| 157 | One-pot synthesis of reduced graphene oxide/chitosan/zinc oxide ternary nanocomposites for supercapacitor electrodes with enhanced electrochemical properties. <i>Materials Letters</i> , 2022 , 314, 131846 | 2.3 | 1 |
| 156 | Chemical recycling of plastic waste for sustainable material management: A prospective review on catalysts and processes. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 154, 111866 | 16.2 | 15 |
| 155 | Gravity-driven membrane filtration of primary wastewater effluent for edible plant cultivations: Membrane performance and health risk assessment. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107046 | 6.8 | 2 |
| 154 | Effects of modifier (Gd, Sc, La) addition on the stability of low Ni content catalyst for dry reforming of model biogas. <i>Fuel</i> , 2022 , 312, 122823 | 7.1 | 1 |
| 153 | Nitrogen-containing carbon hollow nanocube-confined cobalt nanoparticle as a magnetic and efficient catalyst for activating monopersulfate to degrade a UV filter in water. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 106989 | 6.8 | 1 |
| 152 | Thermal behavior of Cu-Mg-Al-Ba/Sr bifunctional composites during chemical looping combustion and HCl adsorption of MSW syngas. <i>Chemical Engineering Journal</i> , 2022 , 430, 132871 | 14.7 | 0 |
| 151 | Ultrafine cobalt nanoparticle-embedded leaf-like hollow N-doped carbon as an enhanced catalyst for activating monopersulfate to degrade phenol. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 929-940 | 9.3 | 4 |
| 150 | Technical and environmental assessment of laboratory scale approach for sustainable management of marine plastic litter. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126717 | 12.8 | 10 |
| 149 | High temperature slagging gasification of municipal solid waste with biomass charcoal as a greener auxiliary fuel. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127057 | 12.8 | 8 |
| 148 | Activated multi-walled carbon nanotubes decorated with zero valent nickel nanoparticles for arsenic, cadmium and lead adsorption from wastewater in a batch and continuous flow modes. <i>Journal of Hazardous Materials</i> , 2022 , 423, 126993 | 12.8 | 14 |
| 147 | Upgrading waste plastic derived pyrolysis gas via chemical looping cracking-gasification using NiFeAl redox catalysts. <i>Chemical Engineering Journal</i> , 2022 , 438, 135580 | 14.7 | 1 |
| 146 | Advanced Ni tar reforming catalysts resistant to syngas impurities: Current knowledge, research gaps and future prospects. <i>Fuel</i> , 2022 , 318, 123602 | 7.1 | 1 |
| 145 | Modulating local environment of Ni with W for synthesis of carbon nanotubes and hydrogen from plastics. <i>Journal of Cleaner Production</i> , 2022 , 352, 131620 | 10.3 | 0 |
| 144 | Tailoring FeO-AlO catalyst structure and activity via hydrothermal synthesis for carbon nanotubes and hydrogen production from polyolefin plastics.. <i>Chemosphere</i> , 2022 , 297, 134148 | 8.4 | 1 |
| 143 | Sorbents for high-temperature removal of alkali metals and HCl from municipal solid waste derived syngas. <i>Fuel</i> , 2022 , 321, 124058 | 7.1 | 0 |

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| 142 | Converting polyolefin plastics into few-walled carbon nanotubes via a tandem catalytic process: Importance of gas composition and system configuration.. <i>Journal of Hazardous Materials</i> , 2022 , 435, 128949 | 12.8 | 0 |
| 141 | Few-walled carbon nanotubes derived from shoe waste plastics: Effect of feedstock composition on synthesis, properties and application as CO2 reduction electrodes. <i>Journal of Cleaner Production</i> , 2022 , 131868 | 10.3 | 0 |
| 140 | Ultrasound process-enhanced removal of the toxic disinfection by-product bromate from water by aluminum: A comparative study.. <i>Water Environment Research</i> , 2022 , 94, e10720 | 2.8 | |
| 139 | Artificial Neural Network (ANN) Modelling for Biogas Production in Pre-Commercialized Integrated Anaerobic-Aerobic Bioreactors (IAAB). <i>Water (Switzerland)</i> , 2022 , 14, 1410 | 3 | 0 |
| 138 | Characterization and comparison of gasification and incineration fly ashes generated from municipal solid waste in Singapore.. <i>Waste Management</i> , 2022 , 146, 44-52 | 8.6 | 0 |
| 137 | Facile synthesis of electrocatalytically active bismuth oxide nanosheets for detection of palladium traces in pharmaceutical wastewater. <i>Environmental Pollution</i> , 2022 , 307, 119524 | 9.3 | |
| 136 | Impacts of pyrolysis temperatures on physicochemical and structural properties of green waste derived biochars for adsorption of potentially toxic elements. <i>Journal of Environmental Management</i> , 2022 , 317, 115385 | 7.9 | 0 |
| 135 | Hollow porous cobalt oxide nanobox as an enhanced for activating monopersulfate to degrade 2-hydroxybenzoic acid in water.. <i>Chemosphere</i> , 2021 , 294, 133441 | 8.4 | 1 |
| 134 | Temperature-dependent producing multi-walled carbon nanotubes and hydrogen from plastic wastes over A-site-deficient perovskite LaNiCoO. <i>Chemosphere</i> , 2021 , 132831 | 8.4 | 1 |
| 133 | The properties of particleboard composites made from three sorghum (<i>Sorghum bicolor</i>) accessions using maleic acid adhesive. <i>Chemosphere</i> , 2021 , 133163 | 8.4 | 5 |
| 132 | Multi-heteroatom-doped carbocatalyst as peroxymonosulfate and peroxydisulfate activator for water purification: A critical review.. <i>Journal of Hazardous Materials</i> , 2021 , 426, 128077 | 12.8 | 1 |
| 131 | Carbon nanosheet-carbon nanocage encapsulated Cu composite from chemical vapor deposition of real-world plastic waste for tailored CO2 conversion to various products. <i>Applied Materials Today</i> , 2021 , 25, 101207 | 6.6 | 2 |
| 130 | In situ catalytic reforming of plastic pyrolysis vapors using MSW incineration ashes. <i>Environmental Pollution</i> , 2021 , 276, 116681 | 9.3 | 5 |
| 129 | Flexible packaging plastic waste [Environmental implications, management solutions, and the way forward. <i>Current Opinion in Chemical Engineering</i> , 2021 , 32, 100684 | 5.4 | 9 |
| 128 | Multiwalled carbon nanotubes derived from plastic packaging waste as a high-performance electrode material for supercapacitors. <i>International Journal of Energy Research</i> , 2021 , 45, 19611 | 4.5 | 5 |
| 127 | Metal-complexed covalent organic frameworks derived N-doped carbon nanobubble-embedded cobalt nanoparticle as a magnetic and efficient catalyst for oxone activation. <i>Journal of Colloid and Interface Science</i> , 2021 , 591, 161-172 | 9.3 | 8 |
| 126 | Highly reproducible solid contact ion selective electrodes: Emerging opportunities for potentiometry - A review. <i>Analytica Chimica Acta</i> , 2021 , 1162, 338304 | 6.6 | 21 |
| 125 | Selective leaching of scandium and yttrium from red mud induced by hydrothermal treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2620-2629 | 3.5 | 1 |

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| 124 | Metal-organic frameworks for pesticidal persistent organic pollutants detection and adsorption - A mini review. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125325 | 12.8 | 51 |
| 123 | Selective Aerobic Upgrading of Lignin-Derived Compound Using a Recyclable Dual-Functional TPO-Loaded Cu-BTC Catalyst. <i>Waste and Biomass Valorization</i> , 2021 , 12, 673-685 | 3.2 | 1 |
| 122 | Diagnostics of skin features through 3D skin mapping based on electro-controlled deposition of conducting polymers onto metal-sebum modified surfaces and their possible applications in skin treatment. <i>Analytica Chimica Acta</i> , 2021 , 1142, 84-98 | 6.6 | |
| 121 | Fe-assisted catalytic chemical vapor deposition of graphene-like carbon nanosheets over SrO. <i>Carbon</i> , 2021 , 171, 444-454 | 10.4 | 7 |
| 120 | BaAl-decorated iron ore as bifunctional oxygen carrier and HCl sorbent for chemical looping combustion of syngas. <i>Combustion and Flame</i> , 2021 , 223, 230-242 | 5.3 | 10 |
| 119 | Hydrogen bromide in syngas: Effects on tar reforming, water gas-shift activities and sintering of Ni-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2021 , 280, 119435 | 21.8 | 6 |
| 118 | Too small to matter? Physicochemical transformation and toxicity of engineered nTiO, nSiO, nZnO, carbon nanotubes, and nAg. <i>Journal of Hazardous Materials</i> , 2021 , 404, 124107 | 12.8 | 12 |
| 117 | Life cycle assessment of plastic grocery bags and their alternatives in cities with confined waste management structure: A Singapore case study. <i>Journal of Cleaner Production</i> , 2021 , 278, 123956 | 10.3 | 27 |
| 116 | Oxygen carriers from incineration bottom ash for chemical looping combustion of syngas: Effect of composition on combustion efficiency. <i>Chemical Engineering Journal</i> , 2021 , 405, 127068 | 14.7 | 8 |
| 115 | Taguchi optimization design of diameter-controlled synthesis of multi walled carbon nanotubes for the adsorption of Pb(II) and Ni(II) from chemical industry wastewater. <i>Chemosphere</i> , 2021 , 266, 128937 | 8.4 | 33 |
| 114 | Effective H ₂ S control during chemical looping combustion by iron ore modified with alkaline earth metal oxides. <i>Energy</i> , 2021 , 218, 119548 | 7.9 | 5 |
| 113 | Iron ore modified with alkaline earth metals for the chemical looping combustion of municipal solid waste derived syngas. <i>Journal of Cleaner Production</i> , 2021 , 282, 124467 | 10.3 | 7 |
| 112 | Dual-functional witherite in improving chemical looping performance of iron ore and simultaneous adsorption of HCl in syngas at high temperature. <i>Chemical Engineering Journal</i> , 2021 , 413, 127538 | 14.7 | 5 |
| 111 | Cobalt ferrite nanoparticle-loaded nitrogen-doped carbon sponge as a magnetic 3D heterogeneous catalyst for monopersulfate-based oxidation of salicylic acid. <i>Chemosphere</i> , 2021 , 267, 128906 | 8.4 | 10 |
| 110 | Near real-time analysis of para-cresol in wastewater with a laccase-carbon nanotube-based biosensor. <i>Chemosphere</i> , 2021 , 269, 128699 | 8.4 | 14 |
| 109 | Weakening the strong Fe-La interaction in A-site-deficient perovskite via Ni substitution to promote the thermocatalytic synthesis of carbon nanotubes from plastics. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123642 | 12.8 | 11 |
| 108 | The Effects of Washing Techniques on Thermal Combustion Properties of Sewage Sludge Chars. <i>International Journal of Environmental Research</i> , 2021 , 15, 285-297 | 2.9 | 1 |
| 107 | Support effects on thermocatalytic pyrolysis-reforming of polyethylene over impregnated Ni catalysts. <i>Applied Catalysis A: General</i> , 2021 , 622, 118222 | 5.1 | 8 |

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| 106 | Accelerated organics degradation by peroxymonosulfate activated with biochar co-doped with nitrogen and sulfur. <i>Chemosphere</i> , 2021 , 277, 130313 | 8.4 | 9 |
| 105 | Chemical looping combustion-adsorption of HCl-containing syngas using alkaline-earth coated iron ore composites for simultaneous purification and combustion enhancement. <i>Chemical Engineering Journal</i> , 2021 , 417, 129226 | 14.7 | 6 |
| 104 | Effects of different biochars on physicochemical properties and immobilization of potentially toxic elements in soil - A geostatistical approach. <i>Chemosphere</i> , 2021 , 277, 130350 | 8.4 | 8 |
| 103 | Physically Tailoring Ion Fluxes by Introducing Foamlike Structures into Polymeric Membranes of Solid Contact Ion-Selective Electrodes. <i>ACS Sensors</i> , 2021 , 6, 3667-3676 | 9.2 | 1 |
| 102 | Environmental footprint of voltammetric sensors based on screen-printed electrodes: An assessment towards "green" sensor manufacturing. <i>Chemosphere</i> , 2021 , 278, 130462 | 8.4 | 13 |
| 101 | Bamboo-like N-doped carbon nanotube-confined cobalt as an efficient and robust catalyst for activating monopersulfate to degrade bisphenol A. <i>Chemosphere</i> , 2021 , 279, 130569 | 8.4 | 18 |
| 100 | Gold-silver nanoparticles modified electrochemical sensor array for simultaneous determination of chromium(III) and chromium(VI) in wastewater samples. <i>Chemosphere</i> , 2021 , 281, 130880 | 8.4 | 18 |
| 99 | Assessment of industrial wastewater for potentially toxic elements, human health (dermal) risks, and pollution sources: A case study of Gadoon Amazai industrial estate, Swabi, Pakistan. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126450 | 12.8 | 14 |
| 98 | Nanopetal-like copper hydroxide nitrate as a highly selective heterogeneous catalyst for valorization of vanillic alcohol via oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106092 | 6.8 | 2 |
| 97 | Gold-modified paper as microfluidic substrates with reduced biofouling in potentiometric ion sensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130200 | 8.5 | 11 |
| 96 | Upcycling of exhausted reverse osmosis membranes into value-added pyrolysis products and carbon dots. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126472 | 12.8 | 8 |
| 95 | Hierarchical ZIF-decorated nanoflower-covered 3-dimensional foam for enhanced catalytic reduction of nitrogen-containing contaminants. <i>Journal of Colloid and Interface Science</i> , 2021 , 602, 95-104 | 9.3 | 2 |
| 94 | Reliable environmental trace heavy metal analysis with potentiometric ion sensors - reality or a distant dream. <i>Environmental Pollution</i> , 2021 , 289, 117882 | 9.3 | 11 |
| 93 | Acidified paper substrates for microfluidic solution sampling integrated with potentiometric sensors for determination of heavy metals. <i>Sensors and Actuators B: Chemical</i> , 2021 , 347, 130567 | 8.5 | 2 |
| 92 | Evolution of electrochemical potentials mediated by lipophilic salts at the buried membrane interface of solid contact ion selective electrodes. <i>Sensors and Actuators B: Chemical</i> , 2021 , 349, 130766 | 8.5 | 1 |
| 91 | Redistribution of mineral phases of incineration bottom ash by size and magnetic separation and its effects on the leaching behaviors. <i>Environmental Pollution</i> , 2021 , 290, 118015 | 9.3 | 1 |
| 90 | On-line microcolumn-based dynamic leaching method for investigation of lead bioaccessibility in shooting range soils. <i>Chemosphere</i> , 2020 , 256, 127022 | 8.4 | 14 |
| 89 | Progress and Challenges on Battery Waste Management :A Critical Review. <i>ChemistrySelect</i> , 2020 , 5, 6182-6193 | 1.8 | 7 |

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| 88 | Ion selective electrodes utilizing a ferrocyanide doped redox active screen-printed solid contact - impact of electrode response to conditioning. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 870, 114262 | 4.1 | 14 |
| 87 | Heteroatom doped carbon nanosheets from waste tires as electrode materials for electrocatalytic oxygen reduction reaction: Effect of synthesis techniques on properties and activity. <i>Carbon</i> , 2020 , 167, 104-113 | 10.4 | 16 |
| 86 | Enhanced activation of peroxydisulfate by CuO decorated on hexagonal boron nitride for bisphenol A removal. <i>Chemical Engineering Journal</i> , 2020 , 393, 124714 | 14.7 | 28 |
| 85 | Carbon based copper(II) phthalocyanine catalysts for electrochemical CO ₂ reduction: Effect of carbon support on electrocatalytic activity. <i>Carbon</i> , 2020 , 168, 245-253 | 10.4 | 30 |
| 84 | Interaction between SO and NO in their adsorption and photocatalytic conversion on TiO ₂ . <i>Chemosphere</i> , 2020 , 249, 126136 | 8.4 | 13 |
| 83 | Kinetics and modeling of trace metal leaching from bottom ashes dominated by diffusion or advection. <i>Science of the Total Environment</i> , 2020 , 719, 137203 | 10.2 | 16 |
| 82 | In situ grown metallic nickel from XNi (X=La, Mg, Sr) oxides for converting plastics into carbon nanotubes: Influence of metal-support interaction. <i>Journal of Cleaner Production</i> , 2020 , 258, 120633 | 10.3 | 30 |
| 81 | Analytical assessment of tar generated during gasification of municipal solid waste: Distribution of GCMS detectable tar compounds, undetectable tar residues and inorganic impurities. <i>Fuel</i> , 2020 , 268, 117348 | 7.1 | 17 |
| 80 | Regenerable Co-ZnO-based nanocomposites for high-temperature syngas desulfurization. <i>Fuel Processing Technology</i> , 2020 , 201, 106344 | 7.2 | 9 |
| 79 | Coordination polymer-derived cobalt-embedded and N/S-doped carbon nanosheet with a hexagonal core-shell nanostructure as an efficient catalyst for activation of oxone in water. <i>Journal of Colloid and Interface Science</i> , 2020 , 579, 109-118 | 9.3 | 17 |
| 78 | The use of fly ashes from waste-to-energy processes as mineral CO sequesters and supplementary cementitious materials. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122906 | 12.8 | 25 |
| 77 | Cobalt and nitrogen co-doped porous carbon/carbon nanotube hybrids anchored with nickel nanoparticles as high-performance electrocatalysts for oxygen reduction reactions. <i>Nanoscale</i> , 2020 , 12, 13028-13033 | 7.7 | 18 |
| 76 | Comparison and modeling of leachate transportation dominated by the field permeability with an anisotropic characteristic based on a large-scale field trial study. <i>Chemosphere</i> , 2020 , 242, 125254 | 8.4 | 4 |
| 75 | Flexible conducting polymer-based cellulose substrates for on-skin applications. <i>Materials Science and Engineering C</i> , 2020 , 108, 110392 | 8.3 | 20 |
| 74 | Silver(I)-selective electrodes based on rare earth element double-decker porphyrins. <i>Sensors and Actuators B: Chemical</i> , 2020 , 305, 127311 | 8.5 | 16 |
| 73 | Effect of biochars on bioaccumulation and human health risks of potentially toxic elements in wheat (<i>Triticum aestivum</i> L.) cultivated on industrially contaminated soil. <i>Environmental Pollution</i> , 2020 , 260, 113887 | 9.3 | 40 |
| 72 | Graphene-like carbon nanosheets grown over alkali-earth metal oxides: Effects of chemical composition and physico-chemical properties. <i>Carbon</i> , 2020 , 159, 378-389 | 10.4 | 13 |
| 71 | Metal-organic framework for sorptive/catalytic removal and sensing applications against nitroaromatic compounds. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 84, 87-95 | 6.3 | 19 |

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| 70 | Application of bipolar electrochemistry to accelerate dew point corrosion for screening of steel materials for power boilers. <i>Fuel</i> , 2020 , 265, 116886 | 7.1 | 3 |
| 69 | Human exposure and risk assessment of recycling incineration bottom ash for land reclamation: A showcase coupling studies of leachability, transport modeling and bioaccumulation. <i>Journal of Hazardous Materials</i> , 2020 , 385, 121600 | 12.8 | 22 |
| 68 | The advanced sensing systems for NOx based on metal-organic frameworks: Applications and future opportunities. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 122, 115730 | 14.6 | 19 |
| 67 | Polyterthiophenes Cross-Linked with Terpyridyl Metal Complexes for Molecular Architecture of Optically and Electrochemically Tunable Materials. <i>ChemElectroChem</i> , 2020 , 7, 4453-4459 | 4.3 | 3 |
| 66 | Characterization of nano-layered solid-contact ion selective electrodes by simultaneous potentiometry and quartz crystal microbalance with dissipation. <i>Analytica Chimica Acta</i> , 2020 , 1128, 19-30 | 6.6 | 11 |
| 65 | Barium aluminate improved iron ore for the chemical looping combustion of syngas. <i>Applied Energy</i> , 2020 , 272, 115236 | 10.7 | 20 |
| 64 | Electrografting of Sterically Bulky Tetramethylaniline Groups on Glassy Carbon Electrodes through Aryldiazonium Chemistry: Reasons for the Formation of Multilayers. <i>ChemElectroChem</i> , 2020 , 7, 3368-3380 | 4.3 | 2 |
| 63 | Solid reference electrode integrated with paper-based microfluidics for potentiometric ion sensing. <i>Sensors and Actuators B: Chemical</i> , 2020 , 323, 128680 | 8.5 | 18 |
| 62 | Highly active and poison-tolerant nickel catalysts for tar reforming synthesized through controlled hydrothermal synthesis. <i>Applied Catalysis A: General</i> , 2020 , 607, 117779 | 5.1 | 6 |
| 61 | Paper as sampling substrates and all-integrating platforms in potentiometric ion determination. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 133, 116070 | 14.6 | 19 |
| 60 | Advances in Antiviral Material Development. <i>ChemPlusChem</i> , 2020 , 85, 2105 | 2.8 | 12 |
| 59 | Advanced sensing technologies of phenolic compounds for pharmaceutical and biomedical analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 179, 112913 | 3.5 | 28 |
| 58 | Processing of flexible plastic packaging waste into pyrolysis oil and multi-walled carbon nanotubes for electrocatalytic oxygen reduction. <i>Journal of Hazardous Materials</i> , 2020 , 387, 121256 | 12.8 | 58 |
| 57 | Environmental impact assessment of converting flexible packaging plastic waste to pyrolysis oil and multi-walled carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2020 , 390, 121449 | 12.8 | 46 |
| 56 | A hot syngas purification system integrated with downdraft gasification of municipal solid waste. <i>Applied Energy</i> , 2019 , 237, 227-240 | 10.7 | 50 |
| 55 | Nickel-based catalysts for steam reforming of naphthalene utilizing gasification slag from municipal solid waste as a support. <i>Fuel</i> , 2019 , 254, 115561 | 7.1 | 13 |
| 54 | Characteristics of incineration ash for sustainable treatment and reutilization. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 16974-16997 | 5.1 | 62 |
| 53 | Progress and challenges in electrochemical sensing of volatile organic compounds using metal-organic frameworks. <i>Critical Reviews in Environmental Science and Technology</i> , 2019 , 49, 2016-2048 | 11.1 | 15 |

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| 52 | Inorganic salt modified paper substrates utilized in paper based microfluidic sampling for potentiometric determination of heavy metals. <i>Sensors and Actuators B: Chemical</i> , 2019 , 290, 347-356 | 8.5 | 48 |
| 51 | Electrochemically controlled transport of anions across polypyrrole-based membranes. <i>Journal of Membrane Science</i> , 2019 , 581, 50-57 | 9.6 | 20 |
| 50 | Application of conducting polymers to wound care and skin tissue engineering: A review. <i>Biosensors and Bioelectronics</i> , 2019 , 135, 50-63 | 11.8 | 98 |
| 49 | Impact of molecular linker size on physicochemical properties of assembled gold nanoparticle mono-/multi-layers and their applicability for functional binding of biomolecules. <i>Journal of Colloid and Interface Science</i> , 2019 , 543, 307-316 | 9.3 | 3 |
| 48 | Plastic derived carbon nanotubes for electrocatalytic oxygen reduction reaction: Effects of plastic feedstock and synthesis temperature. <i>Electrochemistry Communications</i> , 2019 , 101, 11-18 | 5.1 | 41 |
| 47 | Synthesis of CaCr2O4/carbon nanoplatelets from non-condensable pyrolysis gas of plastics for oxygen reduction reaction and charge storage. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 849, 113368 ^{4.1} | 4.1 | 13 |
| 46 | Effects of sewage sludge organic and inorganic constituents on the properties of pyrolysis products. <i>Energy Conversion and Management</i> , 2019 , 196, 1410-1419 | 10.6 | 57 |
| 45 | Insights into the speciation of heavy metals during pyrolysis of industrial sludge. <i>Science of the Total Environment</i> , 2019 , 691, 232-242 | 10.2 | 54 |
| 44 | PVC-Based Ion-Selective Electrodes with a Silicone Rubber Outer Coating with Improved Analytical Performance. <i>Analytical Chemistry</i> , 2019 , 91, 10524-10531 | 7.8 | 40 |
| 43 | Metal organic frameworks (MOFs): Current trends and challenges in control and management of air quality. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 1839-1853 | 2.8 | 16 |
| 42 | Thermodynamic analyses of synthetic natural gas production via municipal solid waste gasification, high-temperature water electrolysis and methanation. <i>Energy Conversion and Management</i> , 2019 , 202, 112160 | 10.6 | 27 |
| 41 | Sponge-based microfluidic sampling for potentiometric ion sensing. <i>Analytica Chimica Acta</i> , 2019 , 1091, 103-111 | 6.6 | 35 |
| 40 | Vertical distribution of heavy metals in seawater column during IBA construction in land reclamation - Re-exploration of a large-scale field trial experiment. <i>Science of the Total Environment</i> , 2019 , 654, 356-364 | 10.2 | 18 |
| 39 | Insights into the single and binary adsorption of copper(II) and nickel(II) on hexagonal boron nitride: Performance and mechanistic studies. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102872 | 6.8 | 10 |
| 38 | Sal wood sawdust derived highly mesoporous carbon as prospective electrode material for vanadium redox flow batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 834, 94-100 | 4.1 | 22 |
| 37 | A novel real-time monitoring and control system for waste-to-energy gasification process employing differential temperature profiling of a downdraft gasifier. <i>Journal of Environmental Management</i> , 2019 , 234, 65-74 | 7.9 | 12 |
| 36 | Poisoning effects of H ₂ S and HCl on the naphthalene steam reforming and water-gas shift activities of Ni and Fe catalysts. <i>Fuel</i> , 2019 , 241, 1008-1018 | 7.1 | 36 |
| 35 | Distribution and modeling of tar compounds produced during downdraft gasification of municipal solid waste. <i>Renewable Energy</i> , 2019 , 136, 1294-1303 | 8.1 | 19 |

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| 34 | Co-complexation effects during incineration bottom ash leaching via comparison of measurements and geochemical modeling. <i>Journal of Cleaner Production</i> , 2018 , 189, 155-168 | 10.3 | 24 |
| 33 | 3-D and electrically conducting functional skin mapping for biomedical applications. <i>Chemical Communications</i> , 2018 , 54, 980-983 | 5.8 | 10 |
| 32 | Fate and distribution of heavy metals during thermal processing of sewage sludge. <i>Fuel</i> , 2018 , 226, 721-744 | 7.44 | 142 |
| 31 | Insights into the thermolytic transformation of lignocellulosic biomass waste to redox-active carbocatalyst: Durability of surface active sites. <i>Applied Catalysis B: Environmental</i> , 2018 , 233, 120-129 | 21.8 | 106 |
| 30 | Catalytic activities and resistance to HCl poisoning of Ni-based catalysts during steam reforming of naphthalene. <i>Applied Catalysis A: General</i> , 2018 , 557, 25-38 | 5.1 | 25 |
| 29 | Influence of surface morphology on the performance of nanostructured ZnO-loaded ceramic honeycomb for syngas desulfurization. <i>Fuel</i> , 2018 , 211, 591-599 | 7.1 | 28 |
| 28 | Application of terpyridyl ligands to tune the optical and electrochemical properties of a conducting polymer.. <i>RSC Advances</i> , 2018 , 8, 29505-29512 | 3.7 | 3 |
| 27 | Ni-Zn-based nanocomposite loaded on cordierite mullite ceramic for syngas desulfurization: Performance evaluation and regeneration studies. <i>Chemical Engineering Journal</i> , 2018 , 351, 230-239 | 14.7 | 24 |
| 26 | Upgrading of non-condensable pyrolysis gas from mixed plastics through catalytic decomposition and dechlorination. <i>Fuel Processing Technology</i> , 2018 , 170, 13-20 | 7.2 | 40 |
| 25 | Conversion of Spent Coffee Beans to Electrode Material for Vanadium Redox Flow Batteries. <i>Batteries</i> , 2018 , 4, 56 | 5.7 | 13 |
| 24 | Catalytic processing of non-condensable pyrolysis gas from plastics: Effects of calcium supports on nickel-catalyzed decomposition of hydrocarbons and HCl sorption. <i>Chemical Engineering Science</i> , 2018 , 189, 311-319 | 4.4 | 21 |
| 23 | Environmental perspectives of recycling various combustion ashes in cement production - A review. <i>Waste Management</i> , 2018 , 78, 401-416 | 8.6 | 83 |
| 22 | Dualism of Sensitivity and Selectivity of Porphyrin Dimers in Electroanalysis. <i>Analytical Chemistry</i> , 2017 , 89, 3943-3951 | 7.8 | 15 |
| 21 | Influence of phosphate buffer and proteins on the potentiometric response of a polymeric membrane-based solid-contact Pb(II) ion-selective electrode. <i>Electrochimica Acta</i> , 2017 , 252, 490-497 | 6.7 | 21 |
| 20 | Paper-based microfluidic sampling and separation of analytes for potentiometric ion sensing. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 346-352 | 8.5 | 29 |
| 19 | A novel modified terpyridine derivative as a model molecule to study kinetic-based optical spectroscopic ion determination methods. <i>Synthetic Metals</i> , 2016 , 219, 101-108 | 3.6 | 5 |
| 18 | In Situ Potentiometry and Ellipsometry: A Promising Tool to Study Biofouling of Potentiometric Sensors. <i>Analytical Chemistry</i> , 2016 , 88, 3009-14 | 7.8 | 28 |
| 17 | Tuned ionophore-based bi-membranes for selective transport of target ions. <i>Journal of Membrane Science</i> , 2016 , 511, 76-83 | 9.6 | 17 |

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| 16 | Solid-contact lead(II) ion-selective electrodes for potentiometric determination of lead(II) in presence of high concentrations of Na(I), Cu(II), Cd(II), Zn(II), Ca(II) and Mg(II). <i>Sensors and Actuators B: Chemical</i> , 2015 , 218, 25-30 | 8.5 | 29 |
| 15 | Textile-based sampling for potentiometric determination of ions. <i>Analytica Chimica Acta</i> , 2015 , 877, 71-96.6 | | 31 |
| 14 | Paper-based microfluidic sampling for potentiometric determination of ions. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 933-939 | 8.5 | 50 |
| 13 | Multicalibrational procedure for more reliable analyses of ions at low analyte concentrations. <i>Electrochimica Acta</i> , 2014 , 140, 27-32 | 6.7 | 20 |
| 12 | Potentiometric sensing utilizing paper-based microfluidic sampling. <i>Analyst, The</i> , 2014 , 139, 2133-6 | 5 | 47 |
| 11 | Self-Referencing Background Correction Method for Voltammetric Investigation of Reversible Redox Reaction. <i>Electroanalysis</i> , 2013 , 25, 2054-2059 | 3 | 4 |
| 10 | Solid-contact ion-selective electrodes with highly selective thioamide derivatives of p-tert-butylcalix[4]arene for the determination of lead(II) in environmental samples. <i>Analytical Chemistry</i> , 2013 , 85, 1555-61 | 7.8 | 37 |
| 9 | Determination of Lead(II) in Groundwater Using Solid-State Lead(II) Selective Electrodes by Tuned Galvanostatic Polarization. <i>Electroanalysis</i> , 2013 , 25, 123-131 | 3 | 31 |
| 8 | Nernst-Planck-Poisson Model for the Description of Behaviour of Solid-Contact Ion-Selective Electrodes at Low Analyte Concentration. <i>Electroanalysis</i> , 2013 , 25, 133-140 | 3 | 16 |
| 7 | Lead(II)-selective ionophores for ion-selective electrodes: a review. <i>Analytica Chimica Acta</i> , 2013 , 791, 1-12 | 6.6 | 57 |
| 6 | Durable PEDOT:PSS films obtained from modified water-based inks for electrochemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 181, 694-701 | 8.5 | 38 |
| 5 | Recovery of nanomolar detection limit of solid-contact lead (II)-selective electrodes by electrode conditioning. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2983-2991 | 2.6 | 27 |
| 4 | Tuned galvanostatic polarization of solid-state lead-selective electrodes for lowering of the detection limit. <i>Analytica Chimica Acta</i> , 2011 , 707, 1-6 | 6.6 | 29 |
| 3 | A study on lowering the detection limit with solid-state lead-selective electrodes. <i>Talanta</i> , 2010 , 83, 436-440 | | 22 |
| 2 | Electrochemical Behaviour of Poly(benzopyrene) Films Doped with Eriochrome Black T as a Pb ²⁺ -Sensitive Sensors. <i>Electroanalysis</i> , 2010 , 22, 2794-2800 | 3 | 23 |
| 1 | New polyacrylate-based lead(II) ion-selective electrodes. <i>Mikrochimica Acta</i> , 2009 , 164, 293-297 | 5.8 | 19 |