

Grzegorz Lisak

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7976642/publications.pdf>

Version: 2024-02-01

163
papers

5,378
citations

87886

38
h-index

128286

60
g-index

163
all docs

163
docs citations

163
times ranked

4304
citing authors

#	ARTICLE	IF	CITATIONS
1	Fate and distribution of heavy metals during thermal processing of sewage sludge. <i>Fuel</i> , 2018, 226, 721-744.	6.4	203
2	Application of conducting polymers to wound care and skin tissue engineering: A review. <i>Biosensors and Bioelectronics</i> , 2019, 135, 50-63.	10.1	179
3	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.	20.2	169
4	Heavy Metals Detection with Paper-Based Electrochemical Sensors. <i>Analytical Chemistry</i> , 2021, 93, 1880-1888.	6.5	127
5	Environmental perspectives of recycling various combustion ashes in cement production – A review. <i>Waste Management</i> , 2018, 78, 401-416.	7.4	126
6	Metal-organic frameworks for pesticidal persistent organic pollutants detection and adsorption – A mini review. <i>Journal of Hazardous Materials</i> , 2021, 413, 125325.	12.4	119
7	Characteristics of incineration ash for sustainable treatment and reutilization. <i>Environmental Science and Pollution Research</i> , 2019, 26, 16974-16997.	5.3	113
8	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.	16.4	110
9	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.	12.4	103
10	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.	12.4	96
11	Effects of sewage sludge organic and inorganic constituents on the properties of pyrolysis products. <i>Energy Conversion and Management</i> , 2019, 196, 1410-1419.	9.2	89
12	Insights into the speciation of heavy metals during pyrolysis of industrial sludge. <i>Science of the Total Environment</i> , 2019, 691, 232-242.	8.0	86
13	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.	12.4	86
14	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.	8.2	83
15	A hot syngas purification system integrated with downdraft gasification of municipal solid waste. <i>Applied Energy</i> , 2019, 237, 227-240.	10.1	76
16	Lead(II)-selective ionophores for ion-selective electrodes: A review. <i>Analytica Chimica Acta</i> , 2013, 791, 1-12.	5.4	70
17	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.	7.8	64
18	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.	9.3	63

#	ARTICLE	IF	CITATIONS
19	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	59
20	Plastic derived carbon nanotubes for electrocatalytic oxygen reduction reaction: Effects of plastic feedstock and synthesis temperature. <i>Electrochemistry Communications</i> , 2019, 101, 11-18.	4.7	59
21	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.	7.5	59
22	In situ grown metallic nickel from Xâ€“Ni (X=La, Mg, Sr) oxides for converting plastics into carbon nanotubes: Influence of metalâ€“support interaction. <i>Journal of Cleaner Production</i> , 2020, 258, 120633.	9.3	58
23	PVC-Based Ion-Selective Electrodes with a Silicone Rubber Outer Coating with Improved Analytical Performance. <i>Analytical Chemistry</i> , 2019, 91, 10524-10531.	6.5	57
24	Highly reproducible solid contact ion selective electrodes: Emerging opportunities for potentiometry â€“ A review. <i>Analytica Chimica Acta</i> , 2021, 1162, 338304.	5.4	57
25	Paper-based microfluidic sampling for potentiometric determination of ions. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 933-939.	7.8	56
26	Enhanced activation of peroxydisulfate by CuO decorated on hexagonal boron nitride for bisphenol A removal. <i>Chemical Engineering Journal</i> , 2020, 393, 124714.	12.7	55
27	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.	6.4	54
28	Advanced sensing technologies of phenolic compounds for pharmaceutical and biomedical analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 179, 112913.	2.8	53
29	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.	10.3	53
30	Multi-heteroatom-doped carbocatalyst as peroxymonosulfate and peroxydisulfate activator for water purification: A critical review. <i>Journal of Hazardous Materials</i> , 2022, 426, 128077.	12.4	53
31	Potentiometric sensing utilizing paper-based microfluidic sampling. <i>Analyst</i> , The, 2014, 139, 2133-2136.	3.5	51
32	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.	9.2	46
33	Accelerated organics degradation by peroxymonosulfate activated with biochar co-doped with nitrogen and sulfur. <i>Chemosphere</i> , 2021, 277, 130313.	8.2	43
34	Sponge-based microfluidic sampling for potentiometric ion sensing. <i>Analytica Chimica Acta</i> , 2019, 1091, 103-111.	5.4	42
35	Bamboo-like N-doped carbon nanotubeâ€“confined cobalt as an efficient and robust catalyst for activating monopersulfate to degrade bisphenol A. <i>Chemosphere</i> , 2021, 279, 130569.	8.2	42
36	The use of fly ashes from waste-to-energy processes as mineral CO ₂ sequesters and supplementary cementitious materials. <i>Journal of Hazardous Materials</i> , 2020, 398, 122906.	12.4	42

#	ARTICLE	IF	CITATIONS
37	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.	7.8	40
38	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.	12.4	40
39	Solid-Contact Ion-Selective Electrodes with Highly Selective Thioamide Derivatives of <i>p</i> -tert-Butylcalix[4]arene for the Determination of Lead(II) in Environmental Samples. <i>Analytical Chemistry</i> , 2013, 85, 1555-1561.	6.5	39
40	Durable PEDOT:PSS films obtained from modified water-based inks for electrochemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 694-701.	7.8	39
41	Textile-based sampling for potentiometric determination of ions. <i>Analytica Chimica Acta</i> , 2015, 877, 71-79.	5.4	38
42	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.	8.2	38
43	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.	12.8	37
44	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.	5.8	37
45	Solid reference electrode integrated with paper-based microfluidics for potentiometric ion sensing. <i>Sensors and Actuators B: Chemical</i> , 2020, 323, 128680.	7.8	37
46	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.	12.7	36
47	Influence of surface morphology on the performance of nanostructured ZnO-loaded ceramic honeycomb for syngas desulfurization. <i>Fuel</i> , 2018, 211, 591-599.	6.4	35
48	<i>In Situ</i> Potentiometry and Ellipsometry: A Promising Tool to Study Biofouling of Potentiometric Sensors. <i>Analytical Chemistry</i> , 2016, 88, 3009-3014.	6.5	34
49	Tuned galvanostatic polarization of solid-state lead-selective electrodes for lowering of the detection limit. <i>Analytica Chimica Acta</i> , 2011, 707, 1-6.	5.4	33
50	Determination of Lead(II) in Groundwater Using Solid-State Lead(II) Selective Electrodes by Tuned Galvanostatic Polarization. <i>Electroanalysis</i> , 2013, 25, 123-131.	2.9	33
51	Paper-based microfluidic sampling and separation of analytes for potentiometric ion sensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 346-352.	7.8	33
52	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.	3.8	33
53	Too small to matter? Physicochemical transformation and toxicity of engineered nTiO ₂ , nSiO ₂ , nZnO, carbon nanotubes, and nAg. <i>Journal of Hazardous Materials</i> , 2021, 404, 124107.	12.4	33
54	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.	3.8	32

#	ARTICLE	IF	CITATIONS
55	Paper as sampling substrates and all-integrating platforms in potentiometric ion determination. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 133, 116070.	11.4	32
56	Environmental footprint of voltammetric sensors based on screen-printed electrodes: An assessment towards "green" sensor manufacturing. <i>Chemosphere</i> , 2021, 278, 130462.	8.2	32
57	Reliable environmental trace heavy metal analysis with potentiometric ion sensors - reality or a distant dream. <i>Environmental Pollution</i> , 2021, 289, 117882.	7.5	32
58	Flexible conducting polymer-based cellulose substrates for on-skin applications. <i>Materials Science and Engineering C</i> , 2020, 108, 110392.	7.3	31
59	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.	2.5	30
60	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.	4.3	29
61	Barium aluminate improved iron ore for the chemical looping combustion of syngas. <i>Applied Energy</i> , 2020, 272, 115236.	10.1	29
62	Analytical assessment of tar generated during gasification of municipal solid waste: Distribution of GC-MS detectable tar compounds, undetectable tar residues and inorganic impurities. <i>Fuel</i> , 2020, 268, 117348.	6.4	29
63	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.	8.2	29
64	Near real-time analysis of para-cresol in wastewater with a laccase-carbon nanotube-based biosensor. <i>Chemosphere</i> , 2021, 269, 128699.	8.2	29
65	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.	5.6	29
66	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.	12.4	28
67	The properties of particleboard composites made from three sorghum (<i>Sorghum bicolor</i>) accessions using maleic acid adhesive. <i>Chemosphere</i> , 2022, 290, 133163.	8.2	28
68	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.	9.3	27
69	Distribution and modeling of tar compounds produced during downdraft gasification of municipal solid waste. <i>Renewable Energy</i> , 2019, 136, 1294-1303.	8.9	27
70	Advances in Antiviral Material Development. <i>ChemPlusChem</i> , 2020, 85, 2105-2128.	2.8	27
71	Interaction between SO ₂ and NO in their adsorption and photocatalytic conversion on TiO ₂ . <i>Chemosphere</i> , 2020, 249, 126136.	8.2	27
72	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.	5.2	26

#	ARTICLE	IF	CITATIONS
73	The advanced sensing systems for NO based on metal-organic frameworks: Applications and future opportunities. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 122, 115730.	11.4	26
74	Ba-Al-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.	5.2	26
75	Flexible packaging plastic waste – environmental implications, management solutions, and the way forward. <i>Current Opinion in Chemical Engineering</i> , 2021, 32, 100684.	7.8	26
76	Multiwall carbon nanotubes derived from plastic packaging waste as a high-performance electrode material for supercapacitors. <i>International Journal of Energy Research</i> , 2021, 45, 19611-19622.	4.5	26
77	Electrochemical Behaviour of Poly(benzopyrene) Films Doped with Eriochrome Black T as a Pb ²⁺ -Sensitive Sensors. <i>Electroanalysis</i> , 2010, 22, 2794-2800.	2.9	25
78	A study on lowering the detection limit with solid-state lead-selective electrodes. <i>Talanta</i> , 2010, 83, 436-440.	5.5	25
79	Silver(I)-selective electrodes based on rare earth element double-decker porphyrins. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127311.	7.8	25
80	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.	10.3	25
81	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.	10.3	25
82	Technical and environmental assessment of laboratory scale approach for sustainable management of marine plastic litter. <i>Journal of Hazardous Materials</i> , 2022, 421, 126717.	12.4	25
83	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.	9.4	25
84	Electrochemically controlled transport of anions across polypyrrole-based membranes. <i>Journal of Membrane Science</i> , 2019, 581, 50-57.	8.2	24
85	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.	6.7	24
86	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.	8.0	24
87	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.	9.4	24
88	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.	12.4	24
89	Multicalibrational procedure for more reliable analyses of ions at low analyte concentrations. <i>Electrochimica Acta</i> , 2014, 140, 27-32.	5.2	23
90	Progress and Challenges on Battery Waste Management :A Critical Review. <i>ChemistrySelect</i> , 2020, 5, 6182-6193.	1.5	23

#	ARTICLE	IF	CITATIONS
91	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.	12.4	23
92	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.	12.7	23
93	Upcycling of exhausted reverse osmosis membranes into value-added pyrolysis products and carbon dots. <i>Journal of Hazardous Materials</i> , 2021, 419, 126472.	12.4	23
94	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.	2.7	22
95	In situ catalytic reforming of plastic pyrolysis vapors using MSW incineration ashes. <i>Environmental Pollution</i> , 2021, 276, 116681.	7.5	22
96	Gold-modified paper as microfluidic substrates with reduced biofouling in potentiometric ion sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130200.	7.8	22
97	New polyacrylate-based lead(II) ion-selective electrodes. <i>Mikrochimica Acta</i> , 2009, 164, 293-297.	5.0	21
98	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.	9.4	21
99	Conversion of Spent Coffee Beans to Electrode Material for Vanadium Redox Flow Batteries. <i>Batteries</i> , 2018, 4, 56.	4.5	20
100	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.	7.8	20
101	Regenerable Co-ZnO-based nanocomposites for high-temperature syngas desulfurization. <i>Fuel Processing Technology</i> , 2020, 201, 106344.	7.2	20
102	Support effects on thermocatalytic pyrolysis-reforming of polyethylene over impregnated Ni catalysts. <i>Applied Catalysis A: General</i> , 2021, 622, 118222.	4.3	20
103	Upgrading waste plastic derived pyrolysis gas via chemical looping cracking-gasification using Ni-Fe-Al redox catalysts. <i>Chemical Engineering Journal</i> , 2022, 438, 135580.	12.7	20
104	Tuned ionophore-based bi-membranes for selective transport of target ions. <i>Journal of Membrane Science</i> , 2016, 511, 76-83.	8.2	19
105	Nickel-based catalysts for steam reforming of naphthalene utilizing gasification slag from municipal solid waste as a support. <i>Fuel</i> , 2019, 254, 115561.	6.4	19
106	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.	8.0	19
107	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.	9.4	19
108	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.	2.6	19

#	ARTICLE	IF	CITATIONS
109	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.	2.9	18
110	Synthesis of CaCr ₂ O ₄ /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.	3.8	18
111	On-line microcolumn-based dynamic leaching method for investigation of lead bioaccessibility in shooting range soils. <i>Chemosphere</i> , 2020, 256, 127022.	8.2	18
112	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.	3.8	18
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.	9.3	18
114	Dualism of Sensitivity and Selectivity of Porphyrin Dimers in Electroanalysis. <i>Analytical Chemistry</i> , 2017, 89, 3943-3951.	6.5	17
115	Effective H ₂ S control during chemical looping combustion by iron ore modified with alkaline earth metal oxides. <i>Energy</i> , 2021, 218, 119548.	8.8	17
116	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.	12.4	17
117	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.	12.7	16
118	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.	5.4	15
119	Fe-assisted catalytic chemical vapor deposition of graphene-like carbon nanosheets over SrO. <i>Carbon</i> , 2021, 171, 444-454.	10.3	15
120	Advanced Ni tar reforming catalysts resistant to syngas impurities: Current knowledge, research gaps and future prospects. <i>Fuel</i> , 2022, 318, 123602.	6.4	15
121	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.	12.7	14
122	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.	6.7	14
123	Tailoring Fe ₂ O ₃ -Al ₂ O ₃ catalyst structure and activity via hydrothermal synthesis for carbon nanotubes and hydrogen production from polyolefin plastics. <i>Chemosphere</i> , 2022, 297, 134148.	8.2	14
124	Effects of different biochars on physicochemical properties and immobilization of potentially toxic elements in soil - A geostatistical approach. <i>Chemosphere</i> , 2021, 277, 130350.	8.2	13
125	Few-walled carbon nanotubes derived from shoe waste plastics: Effect of feedstock composition on synthesis, properties and application as CO ₂ reduction electrodes. <i>Journal of Cleaner Production</i> , 2022, 356, 131868.	9.3	13
126	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.	7.8	13

#	ARTICLE	IF	CITATIONS
127	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.	6.7	12
128	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.	5.4	12
129	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.	9.3	11
130	Effect of alkali earth metal doping on the CuO/Al ₂ O ₃ oxygen carrier agglomeration resistance during chemical looping combustion. <i>Journal of Cleaner Production</i> , 2022, 366, 132970.	9.3	11
131	3-D and electrically conducting functional skin mapping for biomedical applications. <i>Chemical Communications</i> , 2018, 54, 980-983.	4.1	10
132	Hollow porous cobalt oxide nanobox as an enhanced for activating monopersulfate to degrade 2-hydroxybenzoic acid in water. <i>Chemosphere</i> , 2022, 294, 133441.	8.2	10
133	Application of bipolar electrochemistry to accelerate dew point corrosion for screening of steel materials for power boilers. <i>Fuel</i> , 2020, 265, 116886.	6.4	9
134	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.	20.2	9
135	Artificial Neural Network (ANN) Modelling for Biogas Production in Pre-Commercialized Integrated Anaerobic-Aerobic Bioreactors (IAAB). <i>Water (Switzerland)</i> , 2022, 14, 1410.	2.7	9
136	Characterization and comparison of gasification and incineration fly ashes generated from municipal solid waste in Singapore. <i>Waste Management</i> , 2022, 146, 44-52.	7.4	9
137	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.	12.7	8
138	Temperature-dependent synthesis of multi-walled carbon nanotubes and hydrogen from plastic waste over A-site-deficient perovskite La _{0.8} Ni _{1-x} CoxO _{3-δ} . <i>Chemosphere</i> , 2022, 291, 132831.	8.2	8
139	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.	6.4	8
140	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.	3.9	7
141	Highly active and poison-tolerant nickel catalysts for tar reforming synthesized through controlled hydrothermal synthesis. <i>Applied Catalysis A: General</i> , 2020, 607, 117779.	4.3	7
142	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.	7.8	7
143	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.	8.2	6
144	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.	9.4	5

#	ARTICLE	IF	CITATIONS
145	Physically Tailoring Ion Fluxes by Introducing Foamlke Structures into Polymeric Membranes of Solid Contact Ion-Selective Electrodes. ACS Sensors, 2021, 6, 3667-3676.	7.8	5
146	Self-Referencing Background Correction Method for Voltammetric Investigation of Reversible Redox Reaction. Electroanalysis, 2013, 25, 2054-2059.	2.9	4
147	Application of terpyridyl ligands to tune the optical and electrochemical properties of a conducting polymer. RSC Advances, 2018, 8, 29505-29512.	3.6	4
148	Polyterthiophenes Cross-Linked with Terpyridyl Metal Complexes for Molecular Architecture of Optically and Electrochemically Tunable Materials. ChemElectroChem, 2020, 7, 4453-4459.	3.4	4
149	Electrografting of Sterically Bulky Tetramethylaniline Groups on Glassy Carbon Electrodes through Aryldiazonium Chemistry: Reasons for the Formation of Multilayers. ChemElectroChem, 2020, 7, 3368-3380.	3.4	4
150	Nanopetal-like copper hydroxide nitrate as a highly selective heterogeneous catalyst for valorization of vanillic alcohol via oxidation. Journal of Environmental Chemical Engineering, 2021, 9, 106092.	6.7	4
151	Redistribution of mineral phases of incineration bottom ash by size and magnetic separation and its effects on the leaching behaviors. Environmental Pollution, 2021, 290, 118015.	7.5	4
152	Sorbents for high-temperature removal of alkali metals and HCl from municipal solid waste derived syngas. Fuel, 2022, 321, 124058.	6.4	4
153	The Effects of Washing Techniques on Thermal Combustion Properties of Sewage Sludge Chars. International Journal of Environmental Research, 2021, 15, 285-297.	2.3	3
154	Evolution of electrochemical potentials mediated by lipophilic salts at the buried membrane interface of solid contact ion selective electrodes. Sensors and Actuators B: Chemical, 2021, 349, 130766.	7.8	3
155	Carbon nanosheet-carbon nanocage encapsulated Cu composite from chemical vapor deposition of real-world plastic waste for tailored CO ₂ conversion to various products. Applied Materials Today, 2021, 25, 101207.	4.3	3
156	Unravelling the significance of catalyst reduction stage for high tar reforming activity in the presence of syngas impurities. Applied Catalysis A: General, 2022, 642, 118711.	4.3	3
157	Selective Aerobic Upgrading of Lignin-Derived Compound Using a Recyclable Dual-Functional TPO-Loaded Cu-BTC Catalyst. Waste and Biomass Valorization, 2021, 12, 673-685.	3.4	2
158	Facile synthesis of electrocatalytically active bismuth oxide nanosheets for detection of palladium traces in pharmaceutical wastewater. Environmental Pollution, 2022, 307, 119524.	7.5	2
159	Selective leaching of scandium and yttrium from red mud induced by hydrothermal treatment. Journal of Chemical Technology and Biotechnology, 2021, 96, 2620-2629.	3.2	1
160	Conversion of reverse osmosis membranes into metal-free carbocatalyst for electrochemical syngas production. Journal of CO ₂ Utilization, 2022, 58, 101908.	6.8	1
161	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. Analytica Chimica Acta, 2021, 1142, 84-98.	5.4	0
162	Selective conversion of hydroxymethylfurfural to diformylfuran using copper hydroxide nitrate with various nano-structures: a comparative study. Sustainable Energy and Fuels, 2022, 6, 276-288.	4.9	0

#	ARTICLE	IF	CITATIONS
163	Ultrasound Processâ€Enhanced Removal of the Toxic Disinfection Byâ€product Bromate from Water by Aluminum: A Comparative Study. Water Environment Research, 2022, 94, e10720.	2.7	0