

Adam Smoliński

List of Publications by Year in descending order

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168
papers

2,835
citations

172207

29
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253896

43
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171
all docs

171
docs citations

171
times ranked

2504
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Gasification of lignite and hard coal with air and oxygen enriched air in a pilot scale ex situ reactor for underground gasification. <i>Fuel</i> , 2011, 90, 1953-1962. | 3.4 | 121 |
| 2 | Experimental simulation of hard coal underground gasification for hydrogen production. <i>Fuel</i> , 2012, 91, 40-50. | 3.4 | 112 |
| 3 | Environmental impact and damage categories caused by air pollution emissions from mining and quarrying sectors of European countries. <i>Journal of Cleaner Production</i> , 2017, 143, 159-168. | 4.6 | 97 |
| 4 | Hierarchical clustering extended with visual complements of environmental data set. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2002, 64, 45-54. | 1.8 | 74 |
| 5 | Dynamic experimental simulation of hydrogen oriented underground gasification of lignite. <i>Fuel</i> , 2010, 89, 3307-3314. | 3.4 | 71 |
| 6 | Effect of fuel blend composition on the efficiency of hydrogen-rich gas production in co-gasification of coal and biomass. <i>Fuel</i> , 2014, 128, 442-450. | 3.4 | 71 |
| 7 | Steam co-gasification of coal and biomass derived chars with synergy effect as an innovative way of hydrogen-rich gas production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14455-14463. | 3.8 | 70 |
| 8 | Semi-technical underground coal gasification (UCG) using the shaft method in Experimental Mine "Barbara". <i>Fuel</i> , 2012, 99, 170-179. | 3.4 | 70 |
| 9 | Steam co-gasification of coal and biomass " Synergy in reactivity of fuel blends chars. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16152-16160. | 3.8 | 70 |
| 10 | Steam gasification of energy crops of high cultivation potential in Poland to hydrogen-rich gas. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 2038-2043. | 3.8 | 50 |
| 11 | Assessing the risk of corrosion in amine-based CO ₂ capture process. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 43, 189-197. | 1.7 | 46 |
| 12 | Determination of rare earth elements in combustion ashes from selected Polish coal mines by wavelength dispersive X-ray fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 116, 63-74. | 1.5 | 45 |
| 13 | Experimental study on application of high temperature reactor excess heat in the process of coal and biomass co-gasification to hydrogen-rich gas. <i>Energy</i> , 2015, 84, 455-461. | 4.5 | 42 |
| 14 | Selected Environmental Aspects of Gasification and Co-Gasification of Various Types of Waste. <i>Journal of Sustainable Mining</i> , 2013, 12, 6-13. | 0.1 | 39 |
| 15 | Influence of fuel blend ash components on steam co-gasification of coal and biomass " Chemometric study. <i>Energy</i> , 2014, 78, 814-825. | 4.5 | 39 |
| 16 | Eco-efficiency of underground coal gasification (UCG) for electricity production. <i>Fuel</i> , 2016, 173, 239-246. | 3.4 | 38 |
| 17 | Environmental life cycle assessment of methanol and electricity co-production system based on coal gasification technology. <i>Science of the Total Environment</i> , 2017, 574, 1571-1579. | 3.9 | 38 |
| 18 | Determination of random pore model parameters for underground coal gasification simulation. <i>Energy</i> , 2019, 166, 972-978. | 4.5 | 38 |

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|----|--|-----|-----------|
| 19 | Coal char reactivity as a fuel selection criterion for coal-based hydrogen-rich gas production in the process of steam gasification. <i>Energy Conversion and Management</i> , 2011, 52, 37-45. | 4.4 | 36 |
| 20 | Sewage sludge and phytomass co-pyrolysis and the gasification of its chars: A kinetics and reaction mechanism study. <i>Fuel</i> , 2021, 285, 119186. | 3.4 | 36 |
| 21 | Rare and vulnerable species in the mollusc communities in the mining subsidence reservoirs of an industrial area (The Katowicka Upland, Upper Silesia, Southern Poland). <i>Limnologica</i> , 2006, 36, 181-191. | 0.7 | 35 |
| 22 | A comparative experimental study of biomass, lignite and hard coal steam gasification. <i>Renewable Energy</i> , 2011, 36, 1836-1842. | 4.3 | 35 |
| 23 | Biowaste utilization in the process of co-gasification with bituminous coal and lignite. <i>Energy</i> , 2017, 118, 18-23. | 4.5 | 35 |
| 24 | Kinetics of Sewage Sludge Pyrolysis and Air Gasification of Its Chars. <i>Energy & Fuels</i> , 2016, 30, 4869-4878. | 2.5 | 34 |
| 25 | Steam gasification of selected energy crops in a fixed bed reactor. <i>Renewable Energy</i> , 2010, 35, 397-404. | 4.3 | 33 |
| 26 | The interaction between coal and multi-component gas mixtures in the process of coal heating at various temperatures: An experimental study. <i>Fuel</i> , 2018, 213, 150-157. | 3.4 | 32 |
| 27 | Chemometric Study of the Ex Situ Underground Coal Gasification Wastewater Experimental Data. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 5745-5758. | 1.1 | 31 |
| 28 | Co-gasification of coal/sewage sludge blends to hydrogen-rich gas with the application of simulated high temperature reactor excess heat. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8154-8158. | 3.8 | 31 |
| 29 | Improvement of hydrogen production by metabolic engineering of <i>Escherichia coli</i> : Modification on both the PTS system and central carbon metabolism. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5687-5696. | 3.8 | 31 |
| 30 | Analysis of the organic contaminants in the condensate produced in the in situ underground coal gasification process. <i>Water Science and Technology</i> , 2013, 67, 644-650. | 1.2 | 29 |
| 31 | Economic efficiency analysis of substitute natural gas (SNG) production in steam gasification of coal with the utilization of HTR excess heat. <i>Energy</i> , 2016, 114, 1207-1213. | 4.5 | 26 |
| 32 | Mathematical and Geomechanical Model in Physical and Chemical Processes of Underground Coal Gasification. <i>Solid State Phenomena</i> , 0, 277, 1-16. | 0.3 | 26 |
| 33 | Multi-component gas mixture transport through porous structure of coal. <i>Fuel</i> , 2018, 233, 37-44. | 3.4 | 26 |
| 34 | Biohydrogen production from cheese whey powder by <i>Enterobacter asburiae</i> : Effect of operating conditions on hydrogen yield and chemometric study of the fermentative metabolites. <i>Energy Reports</i> , 2020, 6, 1170-1180. | 2.5 | 26 |
| 35 | Chemometric characterization of (chromatographic) lipophilicity parameters of newly synthesized sâ€riazine derivatives. <i>Journal of Chemometrics</i> , 2008, 22, 195-202. | 0.7 | 25 |
| 36 | Conventional and Alternative Sources of Thermal Energy in the Production of Cementâ€”An Impact on CO2 Emission. <i>Energies</i> , 2021, 14, 1539. | 1.6 | 25 |

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|----|--|-----|-----------|
| 37 | Partial Least Square and Hierarchical Clustering in ADMET Modeling; Prediction of Blood-Brain Barrier Permeation of α -Adrenergic and Imidazoline Receptor Ligands. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2013, 16, 622. | 0.9 | 24 |
| 38 | Utilization of Energy Crops and Sewage Sludge in the Process of Co-Gasification for Sustainable Hydrogen Production. <i>Energies</i> , 2018, 11, 809. | 1.6 | 23 |
| 39 | Taguchi Method and Response Surface Methodology in the Treatment of Highly Contaminated Tannery Wastewater Using Commercial Potassium Ferrate. <i>Materials</i> , 2019, 12, 3784. | 1.3 | 23 |
| 40 | A meta-analysis of research trends on hydrogen production via dark fermentation. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 13300-13339. | 3.8 | 23 |
| 41 | Hydrogen rich gas production through co-gasification of low rank coal, flotation concentrates and municipal refuse derived fuel. <i>Energy</i> , 2021, 235, 121348. | 4.5 | 22 |
| 42 | Analysis of Porous Structure Parameters of Biomass Chars Versus Bituminous Coal and Lignite Carbonized at High Pressure and Temperature—A Chemometric Study. <i>Energies</i> , 2017, 10, 1457. | 1.6 | 21 |
| 43 | Exploratory analysis of data sets with missing elements and outliers. <i>Chemosphere</i> , 2002, 49, 233-245. | 4.2 | 20 |
| 44 | Multidimensional (3D/4D-QSAR) probability-guided pharmacophore mapping: investigation of activity profile for a series of drug absorption promoters. <i>RSC Advances</i> , 2016, 6, 76183-76205. | 1.7 | 20 |
| 45 | The Bioconversion of Sewage Sludge to Bio-Fuel: The Environmental and Economic Benefits. <i>Materials</i> , 2019, 12, 2417. | 1.3 | 20 |
| 46 | Exchangeable and Bioavailable Aluminium in the Mountain Forest Soil of Barania Góra Range (Silesian) Tj ETQq0 0.0,rgBT /Overlock 10 | 1.1 | 19 |
| 47 | Modelling of Gas Flow in the Underground Coal Gasification Process and its Interactions with the Rock Environment. <i>Journal of Sustainable Mining</i> , 2013, 12, 8-20. | 0.1 | 18 |
| 48 | Novel Benzene-Based Carbamates for AChE/BChE Inhibition: Synthesis and Ligand/Structure-Oriented SAR Study. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1524. | 1.8 | 18 |
| 49 | Research on the Processes of Injecting CO ₂ into Coal Seams with CH ₄ Recovery Using Horizontal Wells. <i>Energies</i> , 2020, 13, 416. | 1.6 | 18 |
| 50 | Synthesis and Hybrid SAR Property Modeling of Novel Cholinesterase Inhibitors. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3444. | 1.8 | 18 |
| 51 | PLS-EP algorithm to predict aluminum content in soils of Beskid Mountains region. <i>Chemosphere</i> , 2009, 76, 565-571. | 4.2 | 17 |
| 52 | Analysis and Assessment of Parameters Shaping Methane Hazard in Longwall Areas. <i>Journal of Sustainable Mining</i> , 2013, 12, 13-19. | 0.1 | 17 |
| 53 | Experimental Study on Sorption and Desorption of Propylene on Polish Hard Coals. <i>Energy & Fuels</i> , 2015, 29, 4850-4854. | 2.5 | 17 |
| 54 | Utilization of Carbon Dioxide in Coal Gasification—An Experimental Study. <i>Energies</i> , 2019, 12, 140. | 1.6 | 17 |

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|----|--|-----|-----------|
| 55 | Effect of flow rates of gases flowing through a coal bed during coal heating and cooling on concentrations of gases emitted and fire hazard assessment. <i>International Journal of Coal Science and Technology</i> , 2020, 7, 107-121. | 2.7 | 17 |
| 56 | Nano-Ru Supported on Ni Nanowires for Low-Temperature Carbon Dioxide Methanation. <i>Catalysts</i> , 2020, 10, 513. | 1.6 | 17 |
| 57 | Resource Assessment and Numerical Modeling of CBM Extraction in the Upper Silesian Coal Basin, Poland. <i>Energies</i> , 2020, 13, 2153. | 1.6 | 17 |
| 58 | An analysis of self-ignition of mine waste dumps in terms of environmental protection in industrial areas in Poland. <i>Scientific Reports</i> , 2021, 11, 8851. | 1.6 | 17 |
| 59 | Analysis and assessment of a critical event during an underground coal gasification experiment. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 33, 173-182. | 1.7 | 16 |
| 60 | <i>In silico</i> estimation of basic activity-relevant parameters for a set of drug absorption promoters. <i>SAR and QSAR in Environmental Research</i> , 2017, 28, 427-449. | 1.0 | 16 |
| 61 | An Assessment of the Formations and Structures Suitable for Safe CO ₂ Geological Storage in the Upper Silesia Coal Basin in Poland in the Context of the Regulation Relating to the CCS. <i>Energies</i> , 2020, 13, 195. | 1.6 | 15 |
| 62 | Gas chromatography as a tool for determining coal chars reactivity in the process of steam gasification. <i>Acta Chromatographica</i> , 2008, 20, 349-365. | 0.7 | 15 |
| 63 | Modeling of experimental data on trace elements and organic compounds content in industrial waste dumps. <i>Chemosphere</i> , 2016, 162, 189-198. | 4.2 | 14 |
| 64 | Chemometric Modelling of Experimental Data on Co-gasification of Bituminous Coal and Biomass to Hydrogen-Rich Gas. <i>Waste and Biomass Valorization</i> , 2017, 8, 1577-1586. | 1.8 | 14 |
| 65 | The Mechanisms of Endogenous Fires Occurring in Extractive Waste Dumping Facilities. <i>Sustainability</i> , 2020, 12, 2856. | 1.6 | 14 |
| 66 | Some Aspects of the Control for the Radial Distribution of Burden Material and Gas Flow in the Blast Furnace. <i>Energies</i> , 2020, 13, 923. | 1.6 | 14 |
| 67 | Effect of Coal Grain Size on Sorption Capacity with Respect to Propylene and Acetylene. <i>Energies</i> , 2017, 10, 1919. | 1.6 | 13 |
| 68 | The effect of coal grain size on the sorption of hydrocarbons from gas mixtures. <i>International Journal of Energy Research</i> , 2019, 43, 3496-3506. | 2.2 | 13 |
| 69 | Selective adsorption of ethane, ethylene, propane, and propylene in flammable gas mixtures on different coal samples and implications for fire hazard assessments. <i>International Journal of Coal Geology</i> , 2019, 202, 38-45. | 1.9 | 13 |
| 70 | The feasibility of CO ₂ emission reduction by adsorptive storage on Polish hard coals in the Upper Silesia Coal Basin: An experimental and modeling study of equilibrium, kinetics and thermodynamics. <i>Science of the Total Environment</i> , 2021, 796, 149064. | 3.9 | 13 |
| 71 | Co-gasification of refuse-derived fuels and bituminous coal with oxygen/steam blend to hydrogen rich gas. <i>Energy</i> , 2022, 254, 124210. | 4.5 | 13 |
| 72 | Probability-driven 3D pharmacophore mapping of antimycobacterial potential of hybrid molecules combining phenylcarbamoyloxy and N-aryl piperazine fragments. <i>SAR and QSAR in Environmental Research</i> , 2018, 29, 801-821. | 1.0 | 12 |

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|----|--|-----|-----------|
| 73 | Risk Management Scenarios for Investment Program Delays in the Polish Power Industry. <i>Energies</i> , 2021, 14, 5210. | 1.6 | 12 |
| 74 | Structure-Based Modeling of Dye-Fiber Affinity with SOM-4D-QSAR Paradigm: Application to Set of Anthraquinone Derivatives. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2014, 17, 485-502. | 0.6 | 12 |
| 75 | Equilibrium Model of Steam Gasification of Coal. <i>Journal of Sustainable Mining</i> , 2013, 12, 21-28. | 0.1 | 11 |
| 76 | Chemometric study of biological activities of 10 aromatic Lamiaceae species' essential oils. <i>Journal of Chemometrics</i> , 2016, 30, 188-196. | 0.7 | 11 |
| 77 | Towards Intelligent Drug Design System: Application of Artificial Dipeptide Receptor Library in QSAR-Oriented Studies. <i>Molecules</i> , 2018, 23, 1964. | 1.7 | 11 |
| 78 | Determination of mercury content in hard coal and fly ash using X-ray diffraction and scanning electron microscopy coupled with chemical analysis. <i>Arabian Journal of Chemistry</i> , 2019, 12, 3927-3942. | 2.3 | 11 |
| 79 | Radium measurements in bottled natural mineral-, spring- and medicinal waters from Poland. <i>Water Resources and Industry</i> , 2020, 24, 100133. | 1.9 | 11 |
| 80 | Consensus-Based Pharmacophore Mapping for New Set of N-(disubstituted-phenyl)-3-hydroxyl-naphthalene-2-carboxamides. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6583. | 1.8 | 11 |
| 81 | The application of hierarchical clustering to analyzing ashes from the combustion of wood pellets mixed with waste materials. <i>Environmental Pollution</i> , 2021, 276, 116766. | 3.7 | 11 |
| 82 | Numerical Simulations of Carbon Dioxide Storage in Selected Geological Structures in North-Western Poland. <i>Frontiers in Energy Research</i> , 2022, 10, . | 1.2 | 11 |
| 83 | Chemometric characterization of s-triazine derivatives in relation to structural parameters and biological activity. <i>Drug Development and Industrial Pharmacy</i> , 2010, 36, 954-961. | 0.9 | 10 |
| 84 | Chemometric Study of Trace Elements in Hard Coals of the Upper Silesian Coal Basin, Poland. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12. | 0.8 | 10 |
| 85 | Analysis of the Impact of Physicochemical Parameters Characterizing Coal Mine Waste on the Initialization of Self-Ignition Process with Application of Cluster Analysis. <i>Journal of Sustainable Mining</i> , 2014, 13, 36-40. | 0.1 | 10 |
| 86 | Microbiota of edible <i>Liometopum apiculatum</i> ant larvae reveals potential functions related to their nutritional value. <i>Food Research International</i> , 2018, 109, 497-505. | 2.9 | 10 |
| 87 | SAR-mediated Similarity Assessment of the Property Profile for New, Silicon-Based AChE/BChE Inhibitors. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5385. | 1.8 | 10 |
| 88 | Ru and Ni as Privileged Metal Combination for Environmental Nanocatalysis. <i>Catalysts</i> , 2020, 10, 992. | 1.6 | 10 |
| 89 | Toward a viable ecological method for regenerating a commercial SCR catalyst – Selectively leaching surface deposits and reconstructing a pore landscape. <i>Journal of Cleaner Production</i> , 2021, 316, 128291. | 4.6 | 10 |
| 90 | Numerical Modeling of CO ₂ Migration in Saline Aquifers of Selected Areas in the Upper Silesian Coal Basin in Poland. <i>Energies</i> , 2019, 12, 3093. | 1.6 | 9 |

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|-----|---|-----|-----------|
| 91 | Sulphur contamination impact on seasonal and surface water chemistry on a reforested area of a former sulphur mine. <i>Land Degradation and Development</i> , 2019, 30, 212-225. | 1.8 | 9 |
| 92 | Coal oxidation with air stream of varying oxygen content and flow rate - Fire gas emission profile. <i>Fire Safety Journal</i> , 2020, 116, 103182. | 1.4 | 9 |
| 93 | Biological Activities and ADMET-Related Properties of Novel Set of Cinnamamides. <i>Molecules</i> , 2020, 25, 4121. | 1.7 | 9 |
| 94 | Natural desorption of carbon monoxide during the crushing of coal simulating natural rock mass pressure. <i>Science of the Total Environment</i> , 2020, 736, 139639. | 3.9 | 9 |
| 95 | Reasons for breaking of chemical bonds of gas molecules during movement of explosion products in cracks formed in rock mass. <i>International Journal of Mining Science and Technology</i> , 2020, 30, 265-269. | 4.6 | 9 |
| 96 | New Method for Analysis of the Temporomandibular Joint Using Cone Beam Computed Tomography. <i>Sensors</i> , 2021, 21, 3070. | 2.1 | 9 |
| 97 | Profile of CO ₂ , CO, and H ₂ Emissions from Thermal Oxidation of Polish Coals. <i>Materials</i> , 2020, 13, 848. | 1.3 | 9 |
| 98 | Multi-Case Study on Environmental and Economic Benefits through Co-Burning Refuse-Derived Fuels and Sewage Sludge in Cement Industry. <i>Materials</i> , 2022, 15, 4176. | 1.3 | 9 |
| 99 | Rare, threatened and alien species in the gastropod communities in the clay pit ponds in relation to the environmental factors (The Ciechanowska Upland, Central Poland). <i>Biodiversity and Conservation</i> , 2006, 15, 3617-3635. | 1.2 | 8 |
| 100 | Innovation in Polish industry: The cluster concept applied to clean coal technologies in Silesia. <i>Technology in Society</i> , 2009, 31, 356-364. | 4.8 | 8 |
| 101 | The Chemometric Study and Quantitative Structure Retention Relationship Modeling of Liquid Chromatography Separation of Ziprasidone Components. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2012, 15, 730-744. | 0.6 | 8 |
| 102 | Study of the Hazard of Endogenous Fires in Coal Mines – A Chemometric Approach. <i>Energies</i> , 2018, 11, 3047. | 1.6 | 8 |
| 103 | A study of dynamic adsorption of propylene and ethylene emitted from the process of coal self-heating. <i>Scientific Reports</i> , 2019, 9, 18277. | 1.6 | 8 |
| 104 | Modelling and process integration study of dimethyl ether synthesis from syngas derived from biomass gasification: Flowsheet simulation. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 4441-4448. | 3.4 | 8 |
| 105 | Robust Multivariate Calibration in Environmental Studies. <i>Analytical Letters</i> , 2003, 36, 2317-2336. | 1.0 | 7 |
| 106 | Porous Structure Properties of <i>Andropogon gerardi</i> Derived Carbon Materials. <i>Materials</i> , 2018, 11, 876. | 1.3 | 7 |
| 107 | Research on a Gas Index Reflecting the Sorption Process on Carbon Materials in Coal Mines. <i>Sustainability</i> , 2018, 10, 2468. | 1.6 | 7 |
| 108 | Assessment of Emission of Selected Gaseous Components from Coal Processing Waste Storage Site. <i>Sustainability</i> , 2018, 10, 744. | 1.6 | 7 |

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|-----|--|-----|-----------|
| 109 | Analysis of Biomass Blend Co-Firing for Post Combustion CO ₂ Capture. <i>Sustainability</i> , 2018, 10, 923. | 1.6 | 7 |
| 110 | Simultaneous Analysis of Heavy Metal Concentration in Soil Samples. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4705. | 1.3 | 7 |
| 111 | Texture features for bulk rock material grain boundary segmentation. <i>Journal of King Saud University, Engineering Sciences</i> , 2021, 33, 95-103. | 1.2 | 7 |
| 112 | Changes in the Distribution of Temperature in a Coal Deposit and the Composition of Gases Emitted during Its Heating and Cooling. <i>Sustainability</i> , 2018, 10, 3587. | 1.6 | 6 |
| 113 | CFD Modeling of the Catalyst Oil Slurry Hydrodynamics in a High Pressure and Temperature as Potential for Biomass Liquefaction. <i>Energies</i> , 2020, 13, 5694. | 1.6 | 6 |
| 114 | Functional and Material Properties in Nanocatalyst Design: A Data Handling and Sharing Problem. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5176. | 1.8 | 6 |
| 115 | Mine Field Preparation and Coal Mining in Western Donbas: Energy Security of Ukraine – A Case Study. <i>Energies</i> , 2022, 15, 4653. | 1.6 | 6 |
| 116 | Comparison of the Chemical Properties of Forest Soil from the Silesian Beskid, Poland. <i>Journal of Chemistry</i> , 2014, 2014, 1-8. | 0.9 | 5 |
| 117 | Thermodynamic Feasibility of Hydrogen-Rich Gas Production Supported by Iron Based Chemical Looping Process. <i>Journal of Chemistry</i> , 2016, 2016, 1-5. | 0.9 | 5 |
| 118 | Modelling Test of Autothermal Gasification Process Using CFD. <i>Archives of Mining Sciences</i> , 2017, 62, 253-268. | 0.6 | 5 |
| 119 | Effect of porous structure of coal on propylene adsorption from gas mixtures. <i>Scientific Reports</i> , 2020, 10, 11277. | 1.6 | 5 |
| 120 | A Study of Heat Exchange Processes within the Channels of Disk Pulse Devices. <i>Energies</i> , 2020, 13, 3492. | 1.6 | 5 |
| 121 | Research Collaboration Patterns in Sustainable Mining – A Co-Authorship Analysis of Publications. <i>Sustainability</i> , 2020, 12, 4756. | 1.6 | 5 |
| 122 | Process Kinetics of the Carbonation of Fly Ashes: A Research Study. <i>Materials</i> , 2021, 14, 253. | 1.3 | 5 |
| 123 | Toxicological Evaluation of Thermal Treatment of Drilling Waste from Shale Gas Exploration in Poland. <i>Ecological Chemistry and Engineering S</i> , 2019, 26, 45-57. | 0.3 | 5 |
| 124 | Dust from chlorine bypass installation as cementitious materials replacement in concrete making. <i>Journal of Building Engineering</i> , 2022, 51, 104309. | 1.6 | 5 |
| 125 | Laboratory scale tests of coal-based hydrogen production with CO ₂ capture in the aspect of clean coal technologies. <i>International Journal of Global Warming</i> , 2009, 1, 227. | 0.2 | 4 |
| 126 | Study of retention of 31 polyoxygenated steroids by normal- and reversed-phase thin-layer chromatography. <i>Acta Chromatographica</i> , 2011, 23, 429-445. | 0.7 | 4 |

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|-----|---|-----|-----------|
| 127 | THE INFLUENCE OF FEEDSTOCK TYPE AND OPERATING PARAMETERS ON TAR FORMATION IN THE PROCESS OF GASIFICATION AND CO-GASIFICATION. <i>Ecological Chemistry and Engineering S</i> , 2013, 20, 747-761. | 0.3 | 4 |
| 128 | Study of the polycyclic aromatic hydrocarbons content in gas released from burning mine waste dump. <i>Acta Chromatographica</i> , 2015, 27, 239-254. | 0.7 | 4 |
| 129 | Science-Economy-Technology Concordance Matrix for Development and Implementation of Regional Smart Specializations in the Silesian Voivodeship, Poland. <i>Scientific World Journal, The</i> , 2015, 2015, 1-15. | 0.8 | 4 |
| 130 | Reactivity of chars gasified in a fixed bed reactor with the potential utilization of excess process heat. <i>Journal of Sustainable Mining</i> , 2017, 16, 156-161. | 0.1 | 4 |
| 131 | Characteristic of Possible Obtained Products during the well Underground Coal Gasification. <i>Solid State Phenomena</i> , 2019, 291, 52-62. | 0.3 | 4 |
| 132 | The impact of alder litter on chemistry of Technosols developed from lignite combustion waste and natural sandy substrate: a laboratory experiment. <i>International Journal of Phytoremediation</i> , 2021, 23, 415-425. | 1.7 | 4 |
| 133 | Gas Migration in the Aspect of Safety in the Areas of Mines Selected for Closure. <i>Resources</i> , 2021, 10, 73. | 1.6 | 4 |
| 134 | Raw Biogas Desulphurization Using the Adsorption-Absorption Technique for a Pilot Production of Agricultural Biogas from Pig Slurry in Poland. <i>Energies</i> , 2021, 14, 5929. | 1.6 | 4 |
| 135 | Multivariate evaluation of the correlation between retention data and molecular descriptors of antiepileptic hydantoin analogs. <i>Journal of Chemometrics</i> , 2012, 26, 95-107. | 0.7 | 3 |
| 136 | Chemometric Study of the Antiproliferative Activity of Some New Hydantoin Derivatives: Assessment of Activity and Chromatographic Lipophilicity Data. <i>Journal of the Brazilian Chemical Society</i> , 2015, , . | 0.6 | 3 |
| 137 | Sorption characteristic of coal as regards of gas mixtures emitted in the process of the self-heating of coal. <i>E3S Web of Conferences</i> , 2017, 19, 01010. | 0.2 | 3 |
| 138 | Chromatographic and in silico assessment of log <i>P</i> measures for new spirohydantoin derivatives with anticancer activity. <i>Journal of Chemometrics</i> , 2018, 32, e2991. | 0.7 | 3 |
| 139 | Estimation of Dense Plasma Temperature Formed under Shock Wave Cumulation. <i>Materials</i> , 2020, 13, 4923. | 1.3 | 3 |
| 140 | Chemometric exploration of sea water chemical component data sets with missing elements. <i>Oceanological and Hydrobiological Studies</i> , 2008, 37, 49-62. | 0.3 | 3 |
| 141 | CFD Numerical Modelling of a PV-TEG Hybrid System Cooled by Air Heat Sink Coupled with a Single-Phase Inverter. <i>Materials</i> , 2021, 14, 5800. | 1.3 | 3 |
| 142 | The Hydrodynamics of Translational~Rotational Motion of Incompressible Gas Flow within the Working Space of a Vortex Heat Generator. <i>Energies</i> , 2022, 15, 1431. | 1.6 | 3 |
| 143 | A Generalized View of Longwall Emergency Stop Prevention (Ukraine). <i>Processes</i> , 2022, 10, 878. | 1.3 | 3 |
| 144 | Implementing Silica Nanoparticles in the Study of the Airborne Transmission of SARS-CoV-2. <i>Molecules</i> , 2022, 27, 3896. | 1.7 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Experimental Study of Hydrogasification of Lignite and Subbituminous Coal Chars. Scientific World Journal, The, 2015, 2015, 1-9. | 0.8 | 2 |
| 146 | Co-firing coal and biomass blends and their influence on the post-combustion CO ₂ capture installation. E3S Web of Conferences, 2017, 19, 01008. | 0.2 | 2 |
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