

Wojciech Franus

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

3,211
citations

126907

33
h-index

161849

54
g-index

92
all docs

92
docs citations

92
times ranked

2932
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of Environmental Loads in the Life Cycle of a Retail and Service Building. <i>Energies</i> , 2022, 15, 3144.	3.1	1
2	Influence of the fly ash fraction after grinding process on the hydrothermal synthesis efficiency of Na-A, Na-P1, Na-X and sodalite zeolite types. <i>International Journal of Coal Science and Technology</i> , 2021, 8, 291-311.	6.0	30
3	Synthesis of zeolite-carbon composites using high-carbon fly ash and their adsorption abilities towards petroleum substances. <i>Fuel</i> , 2021, 283, 119173.	6.4	62
4	Properties of reclaimed asphalt pavement mixture with organic rejuvenator. <i>Construction and Building Materials</i> , 2021, 271, 121514.	7.2	34
5	Sustainable nickel catalyst for the conversion of lignocellulosic biomass to H ₂ -rich gas. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 10708-10722.	7.1	13
6	Zeolite NaP1 Functionalization for the Sorption of Metal Complexes with Biodegradable N-(1,2-dicarboxethyl)-D,L-aspartic Acid. <i>Materials</i> , 2021, 14, 2518.	2.9	2
7	Preparation of coal fly ash derived metal organic frameworks and their carbon derivatives. <i>Materials Today Communications</i> , 2021, 27, 102433.	1.9	10
8	Hydraulic and Swell/Shrink Characteristics of Clay and Recycled Zeolite Mixtures for Liner Construction in Sustainable Waste Landfill. <i>Sustainability</i> , 2021, 13, 7301.	3.2	8
9	Green Synthesis of Silver Nanoparticles Using Natural Extracts with Proven Antioxidant Activity. <i>Molecules</i> , 2021, 26, 4986.	3.8	47
10	Adsorptive performance of fly ash-derived zeolite modified by β -cyclodextrin for ibuprofen, bisphenol A and caffeine removal from aqueous solutions – equilibrium and kinetic study. <i>Applied Surface Science</i> , 2021, 562, 150160.	6.1	52
11	Effect of the MCM-41 mesoporous silica on the microstructure and performance of cement matrix. <i>Journal of Building Engineering</i> , 2021, 44, 103421.	3.4	1
12	Transition Zone Enhancement with Waste Limestone Powder as a Reason for Concrete Compressive Strength Increase. <i>Materials</i> , 2021, 14, 7254.	2.9	6
13	Functionalization of Zeolite NaP1 for Simultaneous Acid Red 18 and Cu(II) Removal. <i>Materials</i> , 2021, 14, 7817.	2.9	5
14	Statistical study and physicochemical characterization of particulate matter in the context of Kraków, Poland. <i>Atmospheric Pollution Research</i> , 2020, 11, 520-530.	3.8	3
15	Application of Zeolite Tuffs as Mineral Filler in Warm Mix Asphalt. <i>Materials</i> , 2020, 13, 19.	2.9	24
16	Brick Debris Dust as an Ecological Filler and Its Effect on the Durability of Asphalt Mix. <i>Materials</i> , 2020, 13, 5023.	2.9	15
17	Laboratory Methods for Assessing the Influence of Improper Asphalt Mix Compaction on Its Performance. <i>Materials</i> , 2020, 13, 2476.	2.9	16
18	The microstructural and physical properties of renovation renders with clinoptilolite, Na-P1 and Na-X zeolites. <i>Construction and Building Materials</i> , 2020, 261, 120016.	7.2	16

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19	Behavior of Ag species in presence of aquatic sediment minerals in context of aquatic environmental safety. <i>Journal of Contaminant Hydrology</i> , 2020, 232, 103606.	3.3	7
20	Investigation of adsorption mechanism of phosphate(V) ions on the nanostructured Na-A zeolite surface modified with ionic polyacrylamide with regard to their removal from aqueous solution. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4475-4485.	3.1	14
21	Synthesis of activated carbon from high-carbon coal fly ash and its hydrogen storage application. <i>Renewable Energy</i> , 2020, 155, 1264-1271.	8.9	35
22	SO ₂ sorption properties of fly ash zeolites. <i>Turkish Journal of Chemistry</i> , 2020, 44, 155-167.	1.2	5
23	Peculiarities of hydration processes of cements containing natural zeolite. <i>Budownictwo I Architektura</i> , 2020, 14, 105-113.	0.3	10
24	X type zeolitic materials synthesized from fly ash using hydrothermal and low-temperature methods. <i>Budownictwo I Architektura</i> , 2020, 7, 025-034.	0.3	3
25	Preliminary studies of the dynamic and material parameters of reinforced concrete elements with the addition of zeolite tuffs. <i>Budownictwo I Architektura</i> , 2020, 13, 317-324.	0.3	0
26	Warm mix asphalt with zeolite additions. <i>Budownictwo I Architektura</i> , 2020, 13, 161-168.	0.3	1
27	Influence of Waste Engine Oil Addition on the Properties of Zeolite-Foamed Asphalt. <i>Materials</i> , 2019, 12, 2265.	2.9	39
28	Fly ash as low cost and environmentally friendly filler and its effect on the properties of mix asphalt. <i>Journal of Cleaner Production</i> , 2019, 235, 493-502.	9.3	103
29	Multiple light scattering as a method to determine the dispersion stability of amino-functionalized mesoporous carbon. <i>Journal of Molecular Liquids</i> , 2019, 278, 1-4.	4.9	1
30	The properties of fly ash derived lightweight aggregates obtained using microwave radiation. <i>Construction and Building Materials</i> , 2019, 227, 116677.	7.2	25
31	Utilization of Recycled Liquid Crystal Display (LCD) Panel Waste in Concrete. <i>Materials</i> , 2019, 12, 2941.	2.9	22
32	Environmental-Friendly Modifications of Zeolite to Increase Its Sorption and Anion Exchange Properties, <i>Physicochemical Studies of the Modified Materials</i> . <i>Materials</i> , 2019, 12, 3213.	2.9	22
33	The Effects of Textural Parameters of Zeolite and Silica Materials on the Protective and Functional Properties of Polymeric Nonwoven Composites. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 515.	2.5	7
34	Synthesis of zeolites from fly ash with the use of modified two-step hydrothermal method and preliminary SO ₂ sorption tests. <i>Adsorption Science and Technology</i> , 2019, 37, 61-76.	3.2	19
35	Method for Introducing Zeolites and MCM-41 into Polypropylene Melt-Blown Nonwovens. <i>Autex Research Journal</i> , 2019, 19, 312-323.	1.1	3
36	Early effect of clinoptilolite on yield and quality of oat (<i>Avena sativa</i> L.). <i>International Agrophysics</i> , 2019, 33, 107-112.	1.7	5

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37	Use of mix asphalts with reduced compaction temperature and addition of zeolites in real conditions. <i>Budownictwo I Architektura</i> , 2019, 15, 123-132.	0.3	0
38	Influence of the reaction time on the crystal structure of Na-P1 zeolite obtained from coal fly ash microspheres. <i>Microporous and Mesoporous Materials</i> , 2018, 266, 102-108.	4.4	37
39	Removal of phosphate from water by lanthanum-modified zeolites obtained from fly ash. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 72-81.	9.4	150
40	Microstructural Differences in Response of Thermo-resistant (Ceramic) and Standard (Granite) Concretes on Heating. Studies Using SEM and Nonstandard Approaches to Microtomography and Mercury Intrusion Porosimetry Data. <i>Materials</i> , 2018, 11, 1126.	2.9	5
41	The Wastes of Sanitary Ceramics as Recycling Aggregate to Special Concretes. <i>Materials</i> , 2018, 11, 1275.	2.9	18
42	Mesoporous silica material MCM-41: Novel additive for warm mix asphalts. <i>Construction and Building Materials</i> , 2018, 183, 270-274.	7.2	36
43	Evaluation of Hydrocarbon Soil Pollution Using E-Nose. <i>Sensors</i> , 2018, 18, 2463.	3.8	44
44	Investigations of the possibility of lithium acquisition from geothermal water using natural and synthetic zeolites applying poly(acrylic acid). <i>Journal of Cleaner Production</i> , 2018, 195, 821-830.	9.3	44
45	X-ray Diffraction and ^{57}Fe Mössbauer Spectroscopy Studies of Co-Doped AgFeO_2 . <i>Acta Physica Polonica A</i> , 2018, 134, 1040-1043.	0.5	1
46	Effect of zeolite properties on asphalt foaming. <i>Construction and Building Materials</i> , 2017, 139, 247-255.	7.2	68
47	Adsorption of BTX from aqueous solutions by Na-P1 zeolite obtained from fly ash. <i>Chemical Engineering Research and Design</i> , 2017, 109, 214-223.	5.6	71
48	Experimental Study on the Removal of VOCs and PAHs by Zeolites and Surfactant-Modified Zeolites. <i>Energy & Fuels</i> , 2017, 31, 8803-8812.	5.1	50
49	Synthesis of faujasite (FAU) and tschernichite (LTA) type zeolites as a potential direction of the development of lime Class C fly ash. <i>International Journal of Mineral Processing</i> , 2017, 166, 69-78.	2.6	46
50	Waste dolomite powder as an adsorbent of Cd, Pb(II), and Zn from aqueous solutions. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	39
51	Fly ash-derived MCM-41 as a low-cost silica support for polyethyleneimine in post-combustion CO ₂ capture. <i>Journal of CO₂ Utilization</i> , 2017, 22, 81-90.	6.8	80
52	Chemical and Physical Properties of Limestone Powder as a Potential Microfiller of Polymer Composites. <i>Archives of Civil Engineering</i> , 2017, 63, 67-78.	0.7	7
53	The effect of homocysteine and homocystine protonation on double-layer parameters at the electrode/chlorates(VII) interface. <i>Adsorption Science and Technology</i> , 2017, 35, 396-402.	3.2	3
54	Changes in the Textural Parameters of Fly Ash-Derived Na-P1 Zeolite During Compaction Processes. <i>Mineralogia</i> , 2017, 48, 3-22.	0.8	7

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55	Use of Spent Zeolite Sorbents for the Preparation of Lightweight Aggregates Differing in Microstructure. Minerals (Basel, Switzerland), 2017, 7, 25.	2.0	15
56	Application of Mineral Sorbents for Removal of Petroleum Substances: A Review. Minerals (Basel, Switzerland), 2017, 7, 25.	2.0	95
57	A Review of the Application of Zeolite Materials in Warm Mix Asphalt Technologies. Applied Sciences (Switzerland), 2017, 7, 293.	2.5	73
58	Use of chitosan-modified fly ashes and zeolites for removal of heavy metal ions Zastosowanie popiołów lotnych i zeolitów modyfikowanych chitozanem do usuwania jonów metali ciężkich. Przemysł Chemiczny, 2017, 1, 128-135.	0.0	0
59	Modification of Lightweight Aggregates' Microstructure by Used Motor Oil Addition. Materials, 2016, 9, 845.	2.9	13
60	Evaluating Soil Moisture Status Using an e-Nose. Sensors, 2016, 16, 886.	3.8	32
61	The process of fly ash magnetic separation impact on hydrothermal synthesis of zeolites. E3S Web of Conferences, 2016, 10, 00009.	0.5	3
62	Mechanical and durability properties of concretes incorporating natural zeolite. Archives of Civil and Mechanical Engineering, 2016, 16, 554-562.	3.8	118
63	Properties of the Warm Mix Asphalt involving clinoptilolite and Na-P1 zeolite additives. Construction and Building Materials, 2016, 114, 556-563.	7.2	62
64	Structure and Magnetic Properties of Bi ₅ Ti ₃ FeO ₁₅ Ceramics Prepared by Sintering, Mechanical Activation and Edamm Process. A Comparative Study. Archives of Metallurgy and Materials, 2016, 61, 869-874.	0.6	6
65	Synthetic zeolites from fly ash for an effective trapping of BTX in gas stream. Microporous and Mesoporous Materials, 2016, 223, 1-9.	4.4	76
66	Effect of humic acids, sesquioxides and silica on the pore system of silt aggregates measured by water vapour desorption, mercury intrusion and microtomography. European Journal of Soil Science, 2015, 66, 992-1001.	3.9	20
67	SEM Investigation of Microstructures in Hydration Products of Portland Cement. Springer Proceedings in Physics, 2015, , 105-112.	0.2	55
68	Investigation of the sorption of mercury vapour from exhaust gas by an Ag-X zeolite. Clay Minerals, 2015, 50, 31-40.	0.6	38
69	Synthetic zeolites from fly ash as effective mineral sorbents for land-based petroleum spills cleanup. Fuel, 2015, 147, 100-107.	6.4	146
70	Coal fly ash as a resource for rare earth elements. Environmental Science and Pollution Research, 2015, 22, 9464-9474.	5.3	264
71	SEM-EDS Observation of Structure Changes in Synthetic Zeolites Modified for CO ₂ Capture Needs. Springer Proceedings in Physics, 2015, , 97-103.	0.2	0
72	Stiffness and energy dissipation of poly(etherurethane) resilient elements Szywność i energia rozpraszana polieterouretanowych elementów sprężystych. Przemysł Chemiczny, 2015, 1, 116-119.	0.0	5

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73	Study of the reasons for heterogeneity in feldspar-quartz material after firing. <i>Gospodarka Surowcami Mineralnymi / Mineral Resources Management</i> , 2014, 30, 69-83.	0.2	1
74	The Use of Scanning Electron Microscopy to Identify Zeolite Minerals. <i>Springer Proceedings in Physics</i> , 2014, , 45-50.	0.2	2
75	Supplementary Studies of Textural and Mineralogical Changes in Reservoir and Caprocks from Selected Potential Sites Suitable for Underground CO ₂ Storage. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 295-309.	1.1	15
76	The conversion technology of fly ash into zeolites. <i>Clean Technologies and Environmental Policy</i> , 2014, 16, 1217-1223.	4.1	183
77	Synthesis and characterization of zeolites prepared from industrial fly ash. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 5721-5729.	2.7	178
78	Experimental study of mercury removal from exhaust gases. <i>Fuel</i> , 2014, 128, 451-457.	6.4	88
79	Determination of changes in the reservoir and cap rocks of the Chabowo Anticline caused by CO ₂ "brine" rock interactions. <i>International Journal of Coal Geology</i> , 2014, 130, 79-88.	5.0	37
80	Application of zeolites for radium removal from mine water. <i>Environmental Science and Pollution Research</i> , 2013, 20, 7900-7906.	5.3	64
81	El uso de glauconita gastada en la producción de agregados ligeros. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2011, 50, 193-200.	1.9	16
82	Partial Dissolution of Glauconitic Samples: Implications for the Methodology of K-Ar and Rb-Sr Dating. <i>Clays and Clay Minerals</i> , 2009, 57, 531-554.	1.3	30
83	Textural properties vs. CEC and EGME retention of Na ⁺ X zeolite prepared from fly ash at room temperature. <i>International Journal of Mineral Processing</i> , 2007, 82, 57-68.	2.6	49
84	Olivenite-Adamite Solid Solution From Oxidation Zone in Rędziny (West Sudetes, Poland). <i>Mineralogia</i> , 2006, 37, 101-110.	0.8	7
85	Properties and potential applications of zeolitic materials produced from fly ash using simple method of synthesis. <i>Powder Technology</i> , 2006, 166, 47-54.	4.2	104
86	Ca-bearing phosphatian mimetite from Redziny, Lower Silesia, Poland. <i>Neues Jahrbuch für Mineralogie, Monatshefte</i> , 2002, 2002, 31-41.	0.3	10
87	Yukonite, a rare Ca-Fe arsenate, from Rędziny (Sudetes, Poland). <i>European Journal of Mineralogy</i> , 1998, 10, 1367-1370.	1.3	17
88	Fly Ash Derived Zeolites in the Removal of Toxic Compounds. , 0, , .		1
89	Adsorption and electrokinetic studies of sodalite/lithium/poly(acrylic acid) aqueous system. <i>Physicochemical Problems of Mineral Processing</i> , 0, , 158-166.	0.4	4
90	Removal of BTEX and hexane by organo-zeolites: The influence of surfactants carbon chain length on the sorption process. , 0, 94, 120-128.		8