Wojciech Franus

List of Publications by Year
in descending order

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	Coal fly ash as a resource for rare earth elements. Environmental Science and Pollution Research, 2015, 22, 9464-9474.	5.3	264
2	The conversion technology of fly ash into zeolites. Clean Technologies and Environmental Policy, 2014, 16, 1217-1223.	4.1	183
3	Synthesis and characterization of zeolites prepared from industrial fly ash. Environmental Monitoring and Assessment, 2014, 186, 5721-5729.	2.7	178
4	Removal of phosphate from water by lanthanum-modified zeolites obtained from fly ash. Journal of Colloid and Interface Science, 2018, 513, 72-81.	9.4	150
5	Synthetic zeolites from fly ash as effective mineral sorbents for land-based petroleum spills cleanup. Fuel, 2015, 147, 100-107.	6.4	146
6	Mechanical and durability properties of concretes incorporating natural zeolite. Archives of Civil and Mechanical Engineering, 2016, 16, 554-562.	3.8	118
7	Properties and potential applications of zeolitic materials produced from fly ash using simple method of synthesis. Powder Technology, 2006, 166, 47-54.	4.2	104
8	Fly ash as low cost and environmentally friendly filler and its effect on the properties of mix asphalt. Journal of Cleaner Production, 2019, 235, 493-502.	9.3	103
9	Application of Mineral Sorbents for Removal of Petroleum Substances: A Review. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overloc	2.0	95
10	Experimental study of mercury removal from exhaust gases. Fuel, 2014, 128, 451-457.	6.4	88
11	Fly ash-derived MCM-41 as a low-cost silica support for polyethyleneimine in post-combustion CO2 capture. Journal of CO2 Utilization, 2017, 22, 81-90.	6.8	80
12	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
13	A Review of the Application of Zeolite Materials in Warm Mix Asphalt Technologies. Applied Sciences (Switzerland), 2017, 7, 293.	2.5	73
14	Adsorption of BTX from aqueous solutions by Na-P1 zeolite obtained from fly ash. Chemical Engineering Research and Design, 2017, 109, 214-223.	5.6	71
15	Effect of zeolite properties on asphalt foaming. Construction and Building Materials, 2017, 139, 247-255.	7.2	68
16	Application of zeolites for radium removal from mine water. Environmental Science and Pollution Research, 2013, 20, 7900-7906.	5.3	64
17	Properties of the Warm Mix Asphalt involving clinoptilolite and Na-P1 zeolite additives. Construction and Building Materials, 2016, 114, 556-563.	7.2	62
18	Synthesis of zeolite-carbon composites using high-carbon fly ash and their adsorption abilities towards petroleum substances. Fuel, 2021, 283, 119173.	6.4	62

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19	SEM Investigation of Microstructures in Hydration Products of Portland Cement. Springer Proceedings in Physics, 2015, , 105-112.	0.2	55
20	Adsorptive performance of fly ash-derived zeolite modified by Î²-cyclodextrin for ibuprofen, bisphenol A and caffeine removal from aqueous solutions â€“ equilibrium and kinetic study. Applied Surface Science, 2021, 562, 150160.	6.1	52
21	Experimental Study on the Removal of VOCs and PAHs by Zeolites and Surfactant-Modified Zeolites. Energy & Fuels, 2017, 31, 8803-8812.	5.1	50
22	Textural properties vs. CEC and EGME retention of Naâ€“X zeolite prepared from fly ash at room temperature. International Journal of Mineral Processing, 2007, 82, 57-68.	2.6	49
23	Green Synthesis of Silver Nanoparticles Using Natural Extracts with Proven Antioxidant Activity. Molecules, 2021, 26, 4986.	3.8	47
24	Synthesis of faujasite (FAU) and tschernichite (LTA) type zeolites as a potential direction of the development of lime Class C fly ash. International Journal of Mineral Processing, 2017, 166, 69-78.	2.6	46
25	Evaluation of Hydrocarbon Soil Pollution Using E-Nose. Sensors, 2018, 18, 2463.	3.8	44
26	Investigations of the possibility of lithium acquisition from geothermal water using natural and synthetic zeolites applying poly(acrylic acid). Journal of Cleaner Production, 2018, 195, 821-830.	9.3	44
27	Waste dolomite powder as an adsorbent of Cd, Pb(II), and Zn from aqueous solutions. Environmental Earth Sciences, 2017, 76, 1.	2.7	39
28	Influence of Waste Engine Oil Addition on the Properties of Zeolite-Foamed Asphalt. Materials, 2019, 12, 2265.	2.9	39
29	Investigation of the sorption of mercury vapour from exhaust gas by an Ag-X zeolite. Clay Minerals, 2015, 50, 31-40.	0.6	38
30	Determination of changes in the reservoir and cap rocks of the Chabowo Anticline caused by CO2â€“brineâ€“rock interactions. International Journal of Coal Geology, 2014, 130, 79-88.	5.0	37
31	Influence of the reaction time on the crystal structure of Na-P1 zeolite obtained from coal fly ash microspheres. Microporous and Mesoporous Materials, 2018, 266, 102-108.	4.4	37
32	Mesoporous silica material MCM-41: Novel additive for warm mix asphalts. Construction and Building Materials, 2018, 183, 270-274.	7.2	36
33	Synthesis of activated carbon from high-carbon coal fly ash and its hydrogen storage application. Renewable Energy, 2020, 155, 1264-1271.	8.9	35
34	Properties of reclaimed asphalt pavement mixture with organic rejuvenator. Construction and Building Materials, 2021, 271, 121514.	7.2	34
35	Evaluating Soil Moisture Status Using an e-Nose. Sensors, 2016, 16, 886.	3.8	32
36	Partial Dissolution of Glauconitic Samples: Implications for the Methodology of K-Ar and Rb-Sr Dating. Clays and Clay Minerals, 2009, 57, 531-554.	1.3	30

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37	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. International Journal of Coal Science and Technology, 2021, 8, 291-311.	6.0	30
38	The properties of fly ash derived lightweight aggregates obtained using microwave radiation. Construction and Building Materials, 2019, 227, 116677.	7.2	25
39	Application of Zeolite Tuffs as Mineral Filler in Warm Mix Asphalt. Materials, 2020, 13, 19.	2.9	24
40	Utilization of Recycled Liquid Crystal Display (LCD) Panel Waste in Concrete. Materials, 2019, 12, 2941.	2.9	22
41	Environmental-Friendly Modifications of Zeolite to Increase Its Sorption and Anion Exchange Properties, Physicochemical Studies of the Modified Materials. Materials, 2019, 12, 3213.	2.9	22
42	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
43	Synthesis of zeolites from fly ash with the use of modified two-step hydrothermal method and preliminary SO₂ sorption tests. Adsorption Science and Technology, 2019, 37, 61-76.	3.2	19
44	The Wastes of Sanitary Ceramics as Recycling Aggregate to Special Concretes. Materials, 2018, 11, 1275.	2.9	18
45	Yukonite, a rare Ca-Fe arsenate, from RÃ§dziny (Sudetes, Poland). European Journal of Mineralogy, 1998, 10, 1367-1370.	1.3	17
46	Laboratory Methods for Assessing the Influence of Improper Asphalt Mix Compaction on Its Performance. Materials, 2020, 13, 2476.	2.9	16
47	The microstructural and physical properties of renovation renders with clinoptilolite, Na-P1 and Na-X zeolites. Construction and Building Materials, 2020, 261, 120016.	7.2	16
48	El uso de glauconita gastada en la producciÃ³n de agregados ligeros. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2011, 50, 193-200.	1.9	16
49	Supplementary Studies of Textural and Mineralogical Changes in Reservoir and Caprocks from Selected Potential Sites Suitable for Underground CO2 Storage. Arabian Journal for Science and Engineering, 2014, 39, 295-309.	1.1	15
50	Use of Spent Zeolite Sorbents for the Preparation of Lightweight Aggregates Differing in Microstructure. Minerals (Basel, Switzerland), 2017, 7, 25.	2.0	15
51	Brick Debris Dust as an Ecological Filler and Its Effect on the Durability of Asphalt Mix. Materials, 2020, 13, 5023.	2.9	15
52	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. Applied Nanoscience (Switzerland), 2020, 10, 4475-4485.	3.1	14
53	Modification of Lightweight Aggregatesâ€™ Microstructure by Used Motor Oil Addition. Materials, 2016, 9, 845.	2.9	13
54	Sustainable nickel catalyst for the conversion of lignocellulosic biomass to H2-rich gas. International Journal of Hydrogen Energy, 2021, 46, 10708-10722.	7.1	13

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55	Ca-bearing phosphatian mimetite from Redziny, Lower Silesia, Poland. Neues Jahrbuch FÃ¼r Mineralogie, Monatshefte, 2002, 2002, 31-41.	0.3	10
56	Preparation of coal fly ash derived metal organic frameworks and their carbon derivatives. Materials Today Communications, 2021, 27, 102433.	1.9	10
57	Peculiarities of hydration processes of cements containing natural zeolite. Budownictwo I Architektura, 2020, 14, 105-113.	0.3	10
58	Hydraulic and Swellâ€“Shrink Characteristics of Clay and Recycled Zeolite Mixtures for Liner Construction in Sustainable Waste Landfill. Sustainability, 2021, 13, 7301.	3.2	8
59	Removal of BTEX and hexane by organo-zeolites: The influence of surfactants carbon chain length on the sorption process. , 0, 94, 120-128.		8
60	Olivenite-Adamite Solid Solution From Oxidation Zone in RÄ™dziny (West Sudetes, Poland). Mineralogia, 2006, 37, 101-110.	0.8	7
61	Chemical and Physical Properties of Limestone Powder as a Potential Microfiller of Polymer Composites. Archives of Civil Engineering, 2017, 63, 67-78.	0.7	7
62	Changes in the Textural Parameters of Fly Ash-Derived Na-P1 Zeolite During Compaction Processes. Mineralogia, 2017, 48, 3-22.	0.8	7
63	The Effects of Textural Parameters of Zeolite and Silica Materials on the Protective and Functional Properties of Polymeric Nonwoven Composites. Applied Sciences (Switzerland), 2019, 9, 515.	2.5	7
64	Behavior of Ag species in presence of aquatic sediment minerals â€“ In context of aquatic environmental safety. Journal of Contaminant Hydrology, 2020, 232, 103606.	3.3	7
65	Structure and Magnetic Properties of Bi5Ti3FeO15 Ceramics Prepared by Sintering, Mechanical Activation and Edamm Process. A Comparative Study. Archives of Metallurgy and Materials, 2016, 61, 869-874.	0.6	6
66	Transition Zone Enhancement with Waste Limestone Powder as a Reason for Concrete Compressive Strength Increase. Materials, 2021, 14, 7254.	2.9	6
67	Microstructural Differences in Response of Thermoresistant (Ceramic) and Standard (Granite) Concretes on Heating. Studies Using SEM and Nonstandard Approaches to Microtomography and Mercury Intrusion Porosimetry Data. Materials, 2018, 11, 1126.	2.9	5
68	SO2 sorption properties of fly ash zeolites. Turkish Journal of Chemistry, 2020, 44, 155-167.	1.2	5
69	Early effect of clinoptilolite on yield and quality of oat (Avena sativa L.). International Agrophysics, 2019, 33, 107-112.	1.7	5
70	Stiffness and energy dissipation of poly(etherurethane) resilient elements SztywnoÅ›Ä‡ i energia rozpraszana polieterouretanowych elementÃ³w sprÄ™Å¼ystych. Przemysl Chemiczny, 2015, 1, 116-119.	0.0	5
71	Functionalization of Zeolite NaP1 for Simultaneous Acid Red 18 and Cu(II) Removal. Materials, 2021, 14, 7817.	2.9	5
72	Adsorption and electrokinetic studies of sodalite/lithium/poly(acrylic acid) aqueous system. Physicochemical Problems of Mineral Processing, 0, , 158-166.	0.4	4

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73	The process of fly ash magnetic separation impact on hydrothermal synthesis of zeolites. E3S Web of Conferences, 2016, 10, 00009.	0.5	3
74	The effect of homocysteine and homocystine protonation on double-layer parameters at the electrode/chlorates(VII) interface. Adsorption Science and Technology, 2017, 35, 396-402.	3.2	3
75	Statistical study and physicochemical characterization of particulate matter in the context of KrakÃ³w, Poland. Atmospheric Pollution Research, 2020, 11, 520-530.	3.8	3
76	Method for Introducing Zeolites and MCM-41 into Polypropylene Melt-Blown Nonwovens. Autex Research Journal, 2019, 19, 312-323.	1.1	3
77	X type zeolitic materials synthesized from fly ash using hydrothermal and low-temperature methods. Budownictwo I Architektura, 2020, 7, 025-034.	0.3	3
78	The Use of Scanning Electron Microscopy to Identify Zeolite Minerals. Springer Proceedings in Physics, 2014, , 45-50.	0.2	2
79	Zeolite NaP1 Functionalization for the Sorption of Metal Complexes with Biodegradable N-(1,2-dicarboxyethyl)-D,L-aspartic Acid. Materials, 2021, 14, 2518.	2.9	2
80	Study of the reasons for heterogeneity in feldspar-quartz material after firing. Gospodarka Surowcami Mineralnymi / Mineral Resources Management, 2014, 30, 69-83.	0.2	1
81	Fly Ash Derived Zeolites in the Removal of Toxic Compounds. , 0, , .		1
82	Multiple light scattering as a method to determine the dispersion stability of amino-functionalized mesoporous carbon. Journal of Molecular Liquids, 2019, 278, 1-4.	4.9	1
83	Effect of the MCM-41 mesoporous silica on the microstructure and performance of cement matrix. Journal of Building Engineering, 2021, 44, 103421.	3.4	1
84	Warm mix asphalt with zeolite additions. Budownictwo I Architektura, 2020, 13, 161-168.	0.3	1
85	X-ray Diffraction and 57Fe MÃ¶ssbauer Spectroscopy Studies of Co-Doped AgFeO2. Acta Physica Polonica A, 2018, 134, 1040-1043.	0.5	1
86	Assessment of Environmental Loads in the Life Cycle of a Retail and Service Building. Energies, 2022, 15, 3144.	3.1	1
87	SEM-EDS Observation of Structure Changes in Synthetic Zeolites Modified for CO2 Capture Needs. Springer Proceedings in Physics, 2015, , 97-103.	0.2	0
88	Preliminary studies of the dynamic and material parameters of reinforced concrete elements with the addition of zeolite tuffs. Budownictwo I Architektura, 2020, 13, 317-324.	0.3	0
89	Use of mix asphalts with reduced compaction temperature and addition of zeolites in real conditions. Budownictwo I Architektura, 2019, 15, 123-132.	0.3	0
90	Use of chitosan-modified fly ashes and zeolites for removal of heavy metal ions Zastosowanie popioÅ‚Ã³w lotnych i zeolitÃ³w modyfikowanych chitozanem do usuwania jonÃ³w metali ciÄ™Å¼kich. Przemysl Chemiczny, 2017, 1, 128-135.	0.0	0