

## List of Publications by Citations

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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.

53  
papers

990  
citations

18  
h-index

30  
g-index

55  
ext. papers

1,284  
ext. citations

3.7  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
53	Geopolymer-zeolite composites: A review. <i>Journal of Cleaner Production</i> , <b>2019</b> , 230, 557-579	10.3	102
52	IR spectroscopy studies of zeolites in geopolymeric materials derived from kaolinite. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1126, 200-206	3.4	94
51	Investigation of the coal fly ashes using IR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 132, 889-94	4.4	74
50	Application of IR spectra in the studies of zeolites from D4R and D6R structural groups. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 156, 181-188	5.3	74
49	Spectroscopic studies of fly ash-based geopolymers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 198, 283-289	4.4	51
48	The structure of geopolymers – Theoretical studies. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1163, 465-471	3.4	40
47	Influence of alkali metal cations/type of activator on the structure of alkali-activated fly ash - ATR-FTIR studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 198, 33-37	4.4	38
46	Theoretical and experimental study of ion-exchange process on zeolites from 5-1 structural group. <i>Journal of Porous Materials</i> , <b>2016</b> , 23, 1-9	2.4	35
45	Studies of anions sorption on natural zeolites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 133, 876-82	4.4	31
44	Application of IR spectra in the studies of heavy metal cations immobilization on natural sorbents. <i>Journal of Molecular Structure</i> , <b>2009</b> , 924-926, 427-433	3.4	31
43	Use of clinoptilolite for the immobilization of heavy metal ions and preparation of autoclaved building composites. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 168, 1482-9	12.8	30
42	IR spectra in the studies of anion sorption on natural sorbents. <i>Journal of Molecular Structure</i> , <b>2011</b> , 993, 109-114	3.4	26
41	Lightweight geopolymer-expanded glass composites for removal of methylene blue from aqueous solutions. <i>Ceramics International</i> , <b>2020</b> , 46, 19785-19791	5.1	25
40	Spectroscopic investigation of hydrothermally synthesized zeolites from expanded perlite. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 196, 216-222	5.3	24
39	The influence of dealumination/desilication on structural properties of metakaolin-based geopolymers. <i>Ceramics International</i> , <b>2018</b> , 44, 12853-12861	5.1	22
38	ATR/FT-IR studies of zeolite formation during alkali-activation of metakaolin. <i>Solid State Sciences</i> , <b>2019</b> , 94, 114-119	3.4	20
37	New high temperature amorphous protective coatings for Mg <sub>2</sub> Si thermoelectric material. <i>Ceramics International</i> , <b>2019</b> , 45, 10230-10235	5.1	19

36	Synthesis of the Sodalite by Geopolymerization Process Using Coal Fly Ash. <i>Polish Journal of Environmental Studies</i> , <b>2017</b> , 26, 2611-2617	2.3	18
35	The influence of the long-range order on the vibrational spectra of structures based on sodalite cage. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 144, 273-80	4.4	17
34	Solidification/stabilization of municipal solid waste incineration bottom ash via autoclave treatment: Structural and mechanical properties. <i>Construction and Building Materials</i> , <b>2019</b> , 202, 603-613	6.7	15
33	Synthesis of the zeolites on the lightweight aluminosilicate fillers. <i>Materials Research Bulletin</i> , <b>2014</b> , 49, 210-215	5.1	14
32	Changes in the Vibrational Spectra of Zeolites Due to Sorption of Heavy Metal Cations. <i>Journal of Applied Spectroscopy</i> , <b>2013</b> , 80, 644-650	0.7	13
31	Sorption of Heavy Metal Cations on Mesoporous ZSM-5 and Mordenite Zeolites. <i>Materials</i> , <b>2019</b> , 12,	3.5	12
30	Experimental and theoretical spectroscopic studies of Ag-, Cd- and Pb-sodalite. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1126, 110-116	3.4	12
29	Si-O-C amorphous coatings for high temperature protection of In <sub>0.4</sub> Co <sub>4</sub> Sb <sub>12</sub> skutterudite for thermoelectric applications. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 215113	2.5	10
28	Conditions of synthesis and structure of metakaolin-based geopolymers: application as heavy metal cation sorbent. <i>Polish Journal of Chemical Technology</i> , <b>2017</b> , 19, 103-109	1	10
27	The effect of calcination temperature on metakaolin structure for the synthesis of zeolites. <i>Clay Minerals</i> , <b>2018</b> , 53, 657-663	1.3	10
26	Alkaline Activation of Kaolin Group Minerals. <i>Crystals</i> , <b>2020</b> , 10, 268	2.3	9
25	Low-temperature synthesis of zeolite from perlite waste [Part II: characteristics of the products. <i>Materials Science-Poland</i> , <b>2014</b> , 32, 526-532	0.6	7
24	Low-temperature synthesis of zeolite from perlite waste [Part I: review of methods and phase compositions of resulting products. <i>Materials Science-Poland</i> , <b>2014</b> , 32, 503-513	0.6	7
23	Synthesis of the zeolite granulate for potential sorption application. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 243, 201-205	5.3	5
22	Zeolite layer on metakaolin-based support. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 282, 109-113	5.3	5
21	Periodic model of an LTA framework. <i>Journal of Molecular Modeling</i> , <b>2015</b> , 21, 275	2	5
20	Sorption of Cd <sup>2+</sup> ions onto zeolite synthesized from perlite waste. <i>International Journal of Environmental Science and Technology</i> , <b>2016</b> , 13, 2697-2704	3.3	5
19	Hydrothermal synthesis of zeolite aggregate with potential use as a sorbent of heavy metal cations. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1183, 353-359	3.4	5

18	Vibrational Spectra of Zeolite Y as a Function of Ion Exchange. <i>Molecules</i> , <b>2021</b> , 26,	4.8	5
17	Disposal of bottom ash from the incineration of hazardous waste in two different mineral matrixes. <i>Environmental Progress and Sustainable Energy</i> , <b>2017</b> , 36, 1074-1082	2.5	4
16	New approach for determination of the influence of long-range order and selected ring oscillations on IR spectra in zeolites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 195, 62-67	4.4	4
15	Periodic model of LTA framework containing various non-tetrahedral cations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2016</b> , 157, 17-25	4.4	4
14	Carbon Fiber Reinforced Polymer Composites Doped with Graphene Oxide in Light of Spectroscopic Studies. <i>Materials</i> , <b>2021</b> , 14,	3.5	4
13	The feasibility of CO 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> , <b>2021</b> , 796, 149064	10.2	4
12	Spectroscopic characterization of rare hydrated ammonium borate mineral larderellite. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1159, 226-232	3.4	2
11	Vibrational spectroscopic characterization of the magnesium borate-phosphate mineral l'beburgite. <i>Spectroscopy Letters</i> , <b>2016</b> , 49, 606-612	1.1	2
10	The Effect of Heat Treatment on the Structure of Zeolite A. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
9	Preparation and Structure of Geopolymer-Based Alkali-Activated Circulating Fluidized Bed Ash Composite for Removing Ni <sup>2+</sup> from Wastewater. <i>Ceramic Transactions</i> , <b>2018</b> , 147-154	0.1	1
8	The spectroscopic study of building composites containing natural sorbents. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2011</b> , 79, 743-8	4.4	1
7	Vibrational Spectroscopy of Zeolites. <i>Challenges and Advances in Computational Chemistry and Physics</i> , <b>2019</b> , 301-332	0.7	1
6	Spectroscopic Characterization of Silicate Amorphous Materials. <i>Challenges and Advances in Computational Chemistry and Physics</i> , <b>2019</b> , 457-481	0.7	1
5	Immobilization of Heavy Metals in Boroaluminosilicate Geopolymers. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
4	Full spectroscopic characterization of clinker minerals (anhydrous cement). <i>Journal of Molecular Structure</i> , <b>2022</b> , 1255, 132454	3.4	0
3	A novel lightweight aggregate containing zeolite with potential use in gypsum composites. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2022</b> , 55, 1	3.4	0
2	Dust from chlorine bypass installation as cementitious materials replacement in concrete making. <i>Journal of Building Engineering</i> , <b>2022</b> , 51, 104309	5.2	0
1	Sorption of oil products on the synthetic zeolite granules. <i>Mineralogia</i> , <b>2020</b> , 51, 1-7	0	

