

Abdelaziz Laghzizil

List of Publications by Year in descending order

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73
papers

1,548
citations

279798

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345221

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74
all docs

74
docs citations

74
times ranked

1478
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of phenol from an aqueous solution by selected apatite adsorbents: Kinetic process and impact of the surface properties. <i>Water Research</i> , 2009, 43, 313-318.	11.3	74
2	Comparison of Electrical Properties between Fluoroapatite and Hydroxyapatite Materials. <i>Journal of Solid State Chemistry</i> , 2001, 156, 57-60.	2.9	71
3	Zinc oxide-hydroxyapatite nanocomposite photocatalysts for the degradation of ciprofloxacin and ofloxacin antibiotics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 539, 364-370.	4.7	69
4	Pyridine and phenol removal using natural and synthetic apatites as low cost sorbents: Influence of porosity and surface interactions. <i>Journal of Hazardous Materials</i> , 2010, 181, 736-741.	12.4	63
5	Electrical behavior of hydroxyapatites $M_{10}(PO_4)_6(OH)_2$ (M = Ca, Pb, Ba). <i>Materials Research Bulletin</i> , 2001, 36, 953-962.	5.2	61
6	Retention of fluoride ions from aqueous solution using porous hydroxyapatite Structure and conduction properties. <i>Journal of Hazardous Materials</i> , 2004, 114, 41-44.	12.4	59
7	Microwave-Assisted and Efficient Solvent-free Knoevenagel Condensation. A Sustainable Protocol Using Porous Calcium Hydroxyapatite as Catalyst. <i>Molecules</i> , 2010, 15, 813-823.	3.8	53
8	Conversion of natural phosphate rock into mesoporous hydroxyapatite for heavy metals removal from aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 362, 33-38.	4.7	49
9	A novel process for the fabrication of nanoporous apatites from Moroccan phosphate rock. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 350, 73-78.	4.7	47
10	Role of carboxylate chelating agents on the chemical, structural and textural properties of hydroxyapatite. <i>Dalton Transactions</i> , 2010, 39, 10644.	3.3	45
11	Mesoporous hydroxyapatites prepared in ethanol/water media: Structure and surface properties. <i>Materials Chemistry and Physics</i> , 2007, 104, 448-453.	4.0	42
12	The affect of densification and dehydroxylation on the mechanical properties of stoichiometric hydroxyapatite bioceramics. <i>Materials Research Bulletin</i> , 2010, 45, 1433-1437.	5.2	36
13	Cationic conductivity and structural studies in the $Pb_{8K_{2-x}Na_x}(PO_4)_6$ system. <i>Solid State Ionics</i> , 2000, 128, 177-181.	2.7	35
14	Organo-apatites for lead removal from aqueous solutions: A comparison between carboxylic acid and aminophosphonate surface modification. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 419, 180-185.	4.7	34
15	Characterization of Natural Gypsum Materials and Their Composites for Building Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2443.	2.5	34
16	Mixed ionic conductivities in sodium fluoroapatites. <i>Solid State Ionics</i> , 1993, 67, 137-143.	2.7	33
17	Structure and thermal behaviors of Moroccan phosphate rock (Bengurir). <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 15-19.	3.6	33
18	Porous Calcium Hydroxyapatite as an Efficient Catalyst for Synthesis of Pyrazolines via 1,3-Dipolar Cycloaddition Under Solvent-Free Microwave Irradiation. <i>Synthetic Communications</i> , 2006, 36, 111-120.	2.1	32

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19	Development of sulfonate-functionalized hydroxyapatite nanoparticles for cadmium removal from aqueous solutions. <i>Colloids and Interface Science Communications</i> , 2019, 30, 100178.	4.1	31
20	Mechanism of ionic conduction in oxy and hydroxyapatite structures. <i>Solid State Sciences</i> , 2001, 3, 743-747.	0.7	30
21	Chemical modification of porous calcium hydroxyapatite surfaces by grafting phenylphosphonic and phenylphosphite acids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 289, 84-88.	4.7	30
22	Crystallinity and fluorine substitution effects on the proton conductivity of porous hydroxyapatites. <i>Journal of Solid State Chemistry</i> , 2004, 177, 134-138.	2.9	29
23	Parameters influencing ciprofloxacin, ofloxacin, amoxicillin and sulfamethoxazole retention by natural and converted calcium phosphates. <i>Journal of Hazardous Materials</i> , 2015, 291, 38-44.	12.4	28
24	Synthesis and properties of alumina-hydroxyapatite composites from natural phosphate for phenol removal from water. <i>Colloids and Interface Science Communications</i> , 2019, 31, 100188.	4.1	25
25	Organophosphonate-modified hydroxyapatites for Zn(II) and Pb(II) adsorption in relation of their structure and surface properties. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 428-433.	6.7	24
26	Anionic Conductivity in Fluorapatites: Correlation between Structure and Electrical Properties. <i>Advanced Materials Research</i> , 1994, 1-2, 479-488.	0.3	22
27	Ionic conductivities of lithium fluorapatites. <i>Solid State Ionics</i> , 1999, 126, 245-250.	2.7	22
28	Removal of fluoride from moroccan phosphate and synthetic fluoroapatites. <i>Journal of Fluorine Chemistry</i> , 2000, 101, 69-73.	1.7	22
29	Lead and zinc removal from aqueous solutions by aminotriphosphonate-modified converted natural phosphates. <i>Chemical Engineering Journal</i> , 2012, 211-212, 233-239.	12.7	22
30	Mesoporous nanocrystalline sulfonated hydroxyapatites enhance heavy metal removal and antimicrobial activity. <i>Separation and Purification Technology</i> , 2021, 255, 117777.	7.9	22
31	Organically modified porous hydroxyapatites: A comparison between alkylphosphonate grafting and citrate chelation. <i>Journal of Solid State Chemistry</i> , 2008, 181, 848-854.	2.9	21
32	Nanoporous surface of organofunctionalized hydroxyapatite fabricated from natural phosphate rock. <i>Materials Letters</i> , 2010, 64, 2679-2681.	2.6	21
33	Manufacturing and mechanical properties of calcium phosphate biomaterials. <i>Comptes Rendus - Mecanique</i> , 2012, 340, 715-720.	2.1	21
34	Photocatalytic degradation of emerging antibiotic pollutants in waters by TiO ₂ /Hydroxyapatite nanocomposite materials. <i>Surfaces and Interfaces</i> , 2021, 24, 101155.	3.0	21
35	Effect of chemical treatments on the ionic conductivity of carbonate apatite. <i>Solid State Sciences</i> , 2001, 3, 437-441.	0.7	19
36	Some Factors Affecting the Removal of Lead(II) Ions from Aqueous Solution by Porous Calcium Hydroxyapatite: Relationships between Surface and Adsorption Properties. <i>Adsorption Science and Technology</i> , 2006, 24, 507-516.	3.2	18

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37	Ultrasound-Assisted Synthesis of Mesoporous Zirconia-Hydroxyapatite Nanocomposites and Their Dual Surface Affinity for Cr ³⁺ /Cr ₂ O ₇ ²⁻ Ions. <i>Langmuir</i> , 2011, 27, 15176-15184.	3.5	18
38	Low-cost composites based on porous titania-apatite surfaces for the removal of patent blue V from water: Effect of chemical structure of dye. <i>Journal of Advanced Research</i> , 2016, 7, 1009-1017.	9.5	16
39	Paradoxical crystalline morphology of frosted glass. <i>Journal of Non-Crystalline Solids</i> , 2004, 345-346, 137-141.	3.1	15
40	Surface properties of porous hydroxyapatite derived from natural phosphate. <i>Materials Chemistry and Physics</i> , 2012, 136, 1022-1026.	4.0	15
41	Hydrophobic chemical surface functionalization of hydroxyapatite nanoparticles for naphthalene removal. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 595, 124706.	4.7	14
42	Structure electronic and ionic conductivity study versus Ca content in Ca _{10-x} Sr _x (PO ₄) ₆ F ₂ apatites. <i>Materials Research Bulletin</i> , 2009, 44, 1592-1595.	5.2	12
43	Nanoscale conversion of chlorapatite into hydroxyapatite using ultrasound irradiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 495, 187-192.	4.7	12
44	Synthesis and characterization of nanoapatites organofunctionalized with aminotriphosphonate agents. <i>Journal of Solid State Chemistry</i> , 2012, 185, 95-100.	2.9	11
45	Sorption study of tribenuron-methyl onto apatite minerals. <i>Toxicological and Environmental Chemistry</i> , 2001, 81, 9-15.	1.2	10
46	Investigation of thermal properties and energy harvesting of the Pb(Mg _{1/3} Nb _{2/3}) _{1-x} Ti _x O ₃ perovskite single crystals. <i>Thermochimica Acta</i> , 2019, 672, 118-125.	2.7	10
47	Structural, thermal and dielectric properties of Pb(Mg _{1/3} Nb _{2/3}) _{1-x} Ti _x O ₃ ceramics at morphotropic phase boundary. <i>EPJ Applied Physics</i> , 2020, 92, 10902.	0.7	10
48	Oil shale powders and their interactions with ciprofloxacin, ofloxacin, and oxytetracycline antibiotics. <i>Environmental Science and Pollution Research</i> , 2017, 24, 25977-25985.	5.3	9
49	A novel approach for the synthesis of nanostructured Ag ₃ PO ₄ from phosphate rock: high catalytic and antibacterial activities. <i>BMC Chemistry</i> , 2021, 15, 42.	3.8	9
50	Fluoride effect on the electrochemical behaviour of the Fe(III)/Fe(II) system in H ₃ PO ₄ +H ₂ O+HF. <i>Journal of Fluorine Chemistry</i> , 2000, 105, 1-5.	1.7	8
51	Interaction of metal(II)-tetra(4-sulfonatophenyl) porphyrins with porous hydroxyapatite surfaces. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012, 43, 996-1001.	5.3	8
52	Natural phosphate and its derivative porous hydroxyapatite for the removal of toxic organic chemicals. <i>Desalination and Water Treatment</i> , 2014, 52, 7265-7269.	1.0	7
53	Porous hydroxyapatite-TiO ₂ nanocomposites from natural phosphates and their decolorization properties. <i>European Physical Journal: Special Topics</i> , 2015, 224, 1861-1869.	2.6	7
54	Porous ZnO/hydroxyapatite nanomaterials with effective photocatalytic and antibacterial activities for the degradation of antibiotics. <i>Nanotechnology for Environmental Engineering</i> , 2022, 7, 333-341.	3.3	7

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55	Application of central composite design for optimisation of the development of metakaolin based geopolymer as adsorbent for water treatment. International Journal of Environmental Analytical Chemistry, 0, , 1-19.	3.3	7
56	Synthesis, Rietveld refinements and electrical conductivity of new fluorobriholite based on lead $\text{Ca}_{7-x}\text{Pb}_x\text{La}_3(\text{PO}_4)_3(\text{SiO}_4)_3\text{F}_2$ ($0 \leq x \leq 2$). Journal of Molecular Structure, 2017, 1147, 114-120.	3.6	6
57	Characterization and valorization of natural phosphate in removing of heavy metals and toxic organic species from water. Journal of African Earth Sciences, 2021, 173, 104022.	2.0	6
58	Effect of the surface chemistry on the stability and mechanical properties of the Zirconia-Hydroxyapatite bioceramic. Surfaces and Interfaces, 2021, 23, 100980.	3.0	6
59	Effect of heat treatment on the surface properties of selected bituminous shale for cationic dye sorption. , 0, 66, 274-280.		5
60	Electrical and dielectric behaviors of thermally treated phosphate minerals. Solid State Sciences, 2021, 111, 106440.	3.2	4
61	A new in situ enhancement of the hydroxyapatite surface by Tyramine: Preparation and interfacial properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 592, 124590.	4.7	3
62	Finite Element Modeling of Mechanical Behavior of $\text{Al}_2\text{O}_3/\text{ZrO}_2$ Reinforced Calcium Phosphate Biomaterials. Sensor Letters, 2018, 16, 478-483.	0.4	2
63	Development and Characterization of Hydroxyapatite-Alumina Biocomposites for Orthopedic Implants. Key Engineering Materials, 2019, 820, 97-103.	0.4	2
64	A comparative study of the photocatalytic efficiency of metal oxide/hydroxyapatite nanocomposites in the degradation kinetic of ciprofloxacin in water. E3S Web of Conferences, 2020, 150, 02006.	0.5	2
65	Comparative Study of Surface Functionalization of Hydroxyapatite by One-pot Grafting of Organophosphonates Species. Journal of the Chinese Chemical Society, 2013, 60, 1425-1430.	1.4	1
66	Carboxylate-modified apatite adsorbents for detection of Zn(II) ions. Desalination and Water Treatment, 2015, 54, 1949-1955.	1.0	1
67	Mechanical properties of calcium phosphate biomaterials. Molecular Crystals and Liquid Crystals, 2016, 628, 198-203.	0.9	1
68	Analysis of stress field in $\text{Al}_2\text{O}_3\text{-ZrO}_2$ biomaterials by finite element method. Molecular Crystals and Liquid Crystals, 2016, 627, 141-147.	0.9	1
69	Alumina-hydroxyapatite nanocomposites and their applications for the removal of phenolic compounds from water: A comparative study. E3S Web of Conferences, 2020, 150, 02008.	0.5	1
70	Mechanical strength characterization and modeling of hydroxyapatite/tricalcium phosphate biocomposite using the diametral-compression test. EPJ Applied Physics, 2021, 93, 30403.	0.7	1
71	Surface properties of Moroccan natural phosphate and its converted hydroxyapatite for adsorption of $\text{Cr}^{3+}/\text{Cr}_2\text{O}_7^{2-}$ ions: Kinetics and isotherms. , 0, 100, 145-150.		1
72	The densification and diametral compression strength of Hydroxyapatite-Zirconia bioceramics: Experimental and modelling studies. Materials Today: Proceedings, 2021, , .	1.8	1

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73	Synthesis and properties of Ag ₂ S-Hydroxyapatite nanocomposite materials. Materials Today: Proceedings, 2022, 66, 58-62.	1.8	1